

# About Ledlink

ISO 14001

ISO 9001



2009.05  
ISO 9001, ISO14001  
Certification approved

2009.12  
Dong-Guan secondary  
factory established

2011.03  
Third factory expansion  
in Dong-Guan  
Yang-Zhou Ledlink  
construction

2011.05  
Listed in Emerging Market

2011.09  
TS16949 Certification approved



2011.12  
Awarded the 16th place of Deloitte  
Technology Fast500 Asia Pacific 2011

**Deloitte.**  
Technology Fast500

**2008-2009**

**2010-2011**

**2012-2013**



2008.03  
Ledlink established in Taipei



2008.08  
Dong-Guan factory  
established



2010.01  
UL Certification approved



2010.09  
Sign Yang-Zhou Ledlink  
investment agreement

2012.06  
IPO in OTC



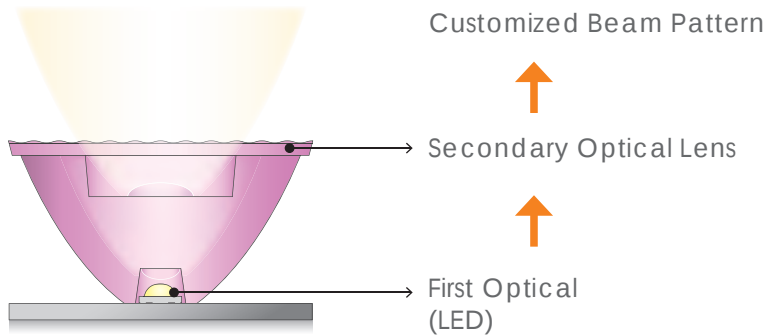
2013.08  
Yangzhou factory mass  
production

**Ledlink Optics, Inc.** was founded in April 2008, specializing in optical, structure and precise manufacturing from a professional background. We've successfully developed all kinds of optical lenses with variety of angles, beam patterns and blend lights.

Our mission is to assist customers achieve the full and complete use of LED light source applications, and reaching the highest performance as well as changing the beam patterns and angles in order to adapt to different requirements of applications.

Ledlink Optics, Inc. provides the total solutions of secondary optics to enhance the lighting value of LED, and leading our customers on the cutting edge of lighting industry.

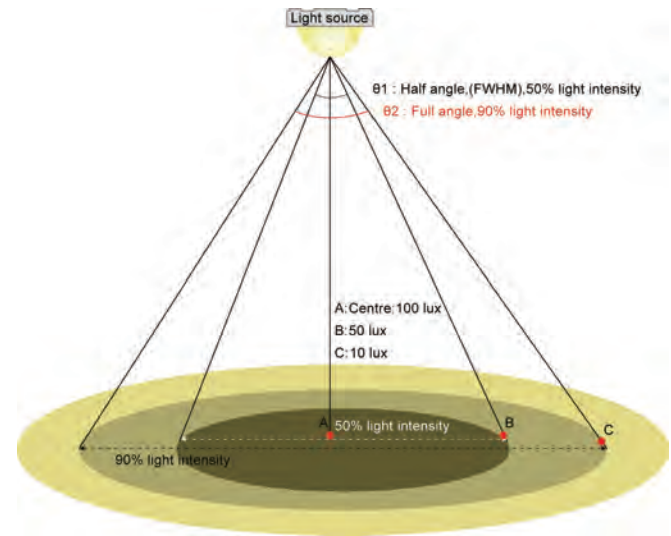
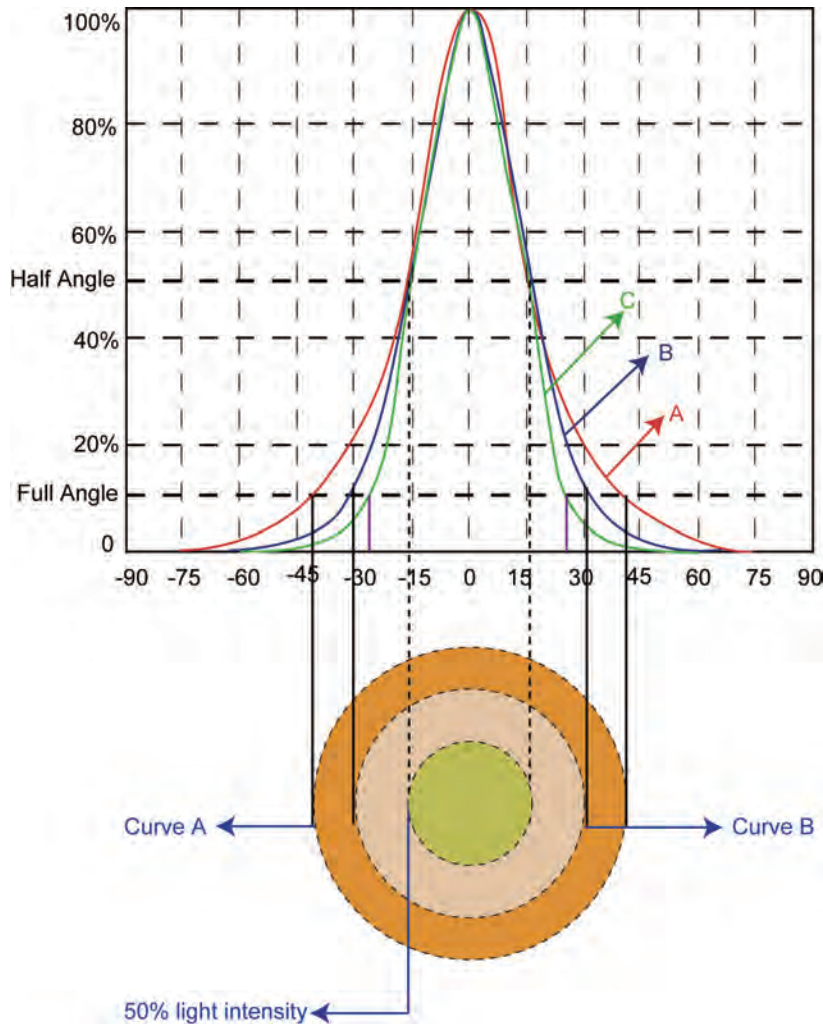
# Secondary Optical Lens



Generally speaking, LED need to proceed secondary optics design prior to become lamp fixture, LED package is first optics design and secondary optics design is that we change the optical character from the light of first optics through secondary optical change.

| Name               | Symbol | Unit                    | Description                                                                                                                                                                                                                                                                                                        |
|--------------------|--------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Luminous Flux      | $\Phi$ | Lm(Lumen)               | Light source shot in total amount per second                                                                                                                                                                                                                                                                       |
| Illuminance        | E      | lm/m <sup>2</sup> (Lux) | <p>Illuminance means in one lighted area, the density of the luminous flux on a surface, per unit area.(Illuminance is inverse ratio to the square of distance from one illuminant. And it expresses the brightness of one place.)</p> $\text{Illuminance}(E) = \frac{\text{Luminous Flux}(\Phi)}{\text{Area}(A)}$ |
| Luminous Intensity | I      | Cd(Candela)             | <p>The Luminous Flux in certain direction of light source of solid angle(<math>\Omega</math>)</p> $\text{Luminous Intensity}(I) = \frac{\text{Luminous Flux}(\Phi)}{\text{Solid angle}(\Omega)}$                                                                                                                   |
| Luminance          | L      | cd/m <sup>2</sup>       | <p>Luminance means the luminous intensity(I) per unit of one illuminated area which light radiates or passes through in a given direction.</p> $\text{Luminance}(L) = \frac{\text{Luminous Intensity}(I)}{\text{Area}(A)}$                                                                                         |

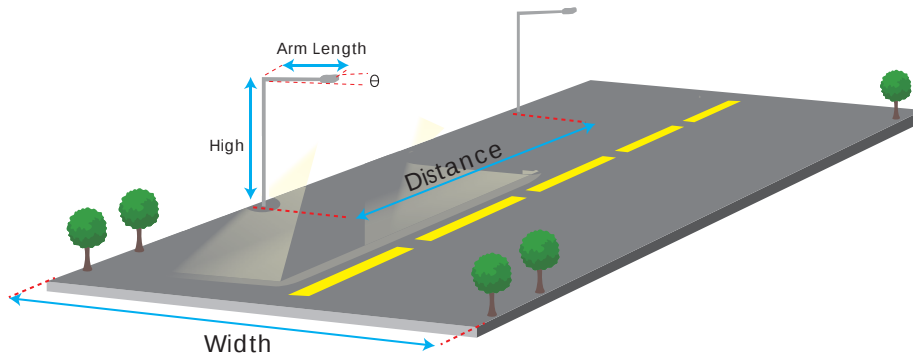
# Definition of Beam Angle



Half angle: 50% light intensity (FWHM)  
Full angle: 10% light intensity  
For Curve A, B, and C → half angle 30°  
Full angle : Curve A = 80°  
Curve B = 60°  
Curve C = 50°

Full angle definition is more accurate as it allows the luminaries designer to arrange/ develop their LED lamp.

# Street Lighting



## LED requirements:

- LED brand/ type
- MCPCB layout (arrangement)
- MCPCB 2D drawing; LED position is critical

## Mechanical requirements:

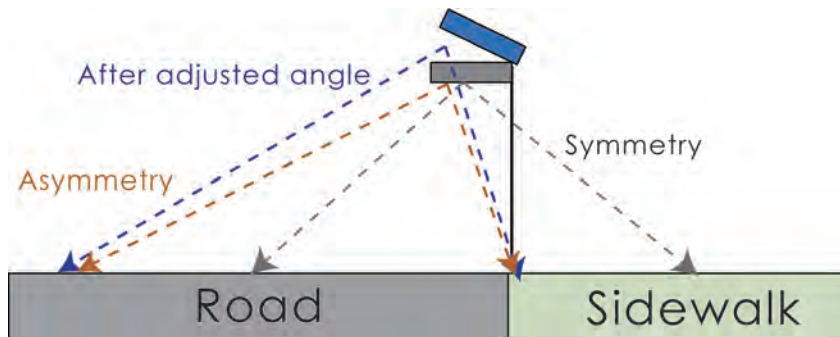
- Dimension limitations:
- Mounting method: Screw/ Thermal mount/ Glue
- Waterproof: Rubber ring height/ Silicon

## Installation conditions:

- Pole Arrangement
- Pole Height (H)
- Pole Distance (D)
- Pole tilt angle ( $\theta$ )
- Pole arm length (L)
- Road Width: (W)
- Optical requirements

## Optical requirements

- Uniformity
- Min lux
- Avg lux
- $Cd / m^2(U_o / U_i / T_i)$
- Type1~Type5



The asymmetry street lighting lens designed by Ledlink Optics Inc. is aiming to focus light and make the asymmetric beam pattern. Because of the lens, light can be focused and used upon customer's demand. The optics lens reduce spill light from arcade and redirect light to the street resulting in increased several times of luminance intensity and illumination brightness. Thus, a secondary optical lens is a way to save energy cost and LED requested amount, as well as it can maximize LED performance.

# Product Nomenclature

**L L 01 CR - AO x x L - M x**

X1

Lens Item

X2

Lens Q'ty

X3

Led Type

X4

Serial Number

X5

Lens Angle

X6

Type

X7

Housing

X1: Lens Item → Ledlink

X2: Lens Q'ty → 01, 03, 04, 06, 07, 09, 12, 15, 18, 24, 36, 60

X3: Led Type : CR → Cree  
ED → Edison  
LU → Lumileds  
NI → Nichia  
OS → Osram

X4: Serial Number → AA, AB, AC, .....Ex,.....

X5: Lens Angle → 08°, 10°, 15°, 25°,.....,40°,.....,80°,.....,140°,25°x45°,30°x65°...

X6: Type : L → Lens(Material:L02-PC, L06-PMMA)  
R→Reflector(Material:R35-Plastic Plating, R49-Aluminum)

X7: Housing : M1 → Black  
M2 → White  
M3 → Clear



► Single/COB Lens

► Reflectors

► Multi Lens

► Convex Lens

Lens Series

Single Lens



| DXH (mm)           | Part Number                            | Degree                                               | LED                                                                                                                                                                                      | Picture |
|--------------------|----------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 13.5x7.35          | LL01CR-DFxxL06-M2<br>(Tape available)  | Full angle:<br>25° 40° 60°<br>80° 100° 30x65°        | Cree XPE2/ XPG2                                                                                                                                                                          |         |
| 13.5x7.35          | LL01LU-DFxxL06-M2<br>(Tape available)  | Full angle:<br>80° 100° 30x65°                       | Lumileds Rebel/ Rebel ES                                                                                                                                                                 |         |
| 13.5x7.35          | LL01CR-AAFxxL02-M2<br>(Tape available) | FWHM:<br>25° 45° 60°                                 | Cree XPE2/ XPG2<br>Nichia NCS19A/ NVS19A/ NVS19B<br>LGInnotek H35C1                                                                                                                      |         |
| 13.5x7.35          | LL01HS-AAFxxL02-M2<br>(Tape available) | FWHM:<br>25° 45° 60°                                 | Cree XPE2/ XPG2(Not for 60°)<br>Nichia NCS19A/ NVS19A/ NVS19B<br>LGInnotek H35C1<br>Prolight Phenix 3535                                                                                 |         |
| 13.5x7.35          | LL01OS-AAFxxL02-M2<br>(Tape available) | FWHM:<br>25° 45° 60°                                 | Nichia NF2x757A                                                                                                                                                                          |         |
| 13.5x7.35          | LL01CR-BDFxxL06-M2<br>(Tape available) | Full angle:<br>25° 40° 60° 80°<br>100° 30x65° 30x70° | Cree XBD                                                                                                                                                                                 |         |
| 13.5x7.35          | LL01OS-BDFxxL06-M2<br>(Tape available) | Full angle:<br>25° 40° 60° 80°<br>100° 30x65° 30x70° | Osram Oslon SSL 80 /150 / Square                                                                                                                                                         |         |
| 16x8               | LL01NI-BYKxxL19                        | FWHM:<br>20° 30° 40°<br>60° 25x45°                   | Nichia 757D<br>Cree XPE2/XPG2<br>Lumileds Luxeon T / Z ES                                                                                                                                |         |
| 20.5x20.5<br>x13.8 | LL01CR-CAXxxL06                        | FWHM:<br>10x90° 25x90°                               | Cree XP-E2/ XP-G2/ XPL-HD                                                                                                                                                                |         |
| 20.8x12.35         | LL01OS-BFVxxL06                        | FWHM:<br>15° 25° 30°<br>10x40°                       | Cree XP-E2/XP-G2/XB-D/XT-E/XPL-HI<br>Lumileds Rebel/Rebel ES/Luxeon Z<br>Seoul Z5/Z5P/Z5 M1(M2)/MJT2525<br>Osram Oslon SSL 80/Square<br>Samsung LH351A/ B/ Z<br>Prolight Phenix3535/3045 |         |
| 21x12.6            | LL01CR-AAxxL06-M2                      | Full angle:<br>20x65°                                | Cree XPE                                                                                                                                                                                 |         |



21 mm  
|  
24 mm

| DXH (mm)    | Part Number                            | Degree                                           | LED                                                               | Picture |
|-------------|----------------------------------------|--------------------------------------------------|-------------------------------------------------------------------|---------|
| 21x13.9     | LL01CR-YJxxL02-M2<br>(Tape available)  | Full angle:<br>40° 60° 80° 100°                  | Cree XML<br>Edison Federal 5050                                   |         |
| 21.05x14.75 | LL01OS-MQxxL06-M2                      | Full angle: 15° 25° 40° 60°                      | Osram Oslon SSL 80 / Square                                       |         |
| 21.3x12.4   | LL01LU-AFCxxL06-M2<br>(Tape available) | FWHM:<br>10° 15° 25° 30°<br>10°x35° 15°x30°      | Lumileds Rebel/ Rebel ES<br>Prolight PHENIX 3045                  |         |
| 21.3x12.4   | LL01OS-AFCxxL06-M2<br>(Tape available) | FWHM:<br>10° 15° 25° 30° 50°<br>10°x35° 15°x30°  | Osram Oslon SSL 80 / Square                                       |         |
| 21.3x12.4   | LL01CR-AFCxxL06-M2<br>(Tape available) | FWHM:<br>10° 15° 25° 30°<br>10°x35° 15°x30°      | Cree XPE2/ XPG2<br>Prolight Phenix 3535(Not for 10°)              |         |
| 22.2x10.6   | LL01ZZ-AHZxxL02                        | FWHM: 24° 38°                                    | Cree XML/ XML EZW/ XPL<br>Lumileds Luxeon T/Tx<br>Prolight Horent |         |
| 22.4x9.7    | LL01ZZ-EXxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40° 60° 110°<br>30° x 65° | Cree XPE2/ XPG2                                                   |         |
| 22.4x9.7    | LL01LU-EXxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40° 60° 110°<br>30° x 65° | Lumileds Rebel/ Rebel ES                                          |         |
| 22.4x9.7    | LL01OS-EXxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40° 60° 110°<br>30° x 65° | Osram Oslon SSL 80 / Square                                       |         |
| 22.4x9.7    | LL01CR-BEXxxL06-M2<br>(Tape available) | Full angle: 25° 40° 60°                          | Cree XBD                                                          |         |
| 23.5x14.9   | LL01NI-GRxxL06-M2                      | Full angle: 25° 40° 60° 80°                      | Nichia 183A                                                       |         |



| DXH (mm)  | Part Number                            | Degree                                   | LED                                                                                                                            | Picture                                                                               |
|-----------|----------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 23.5x15.8 | LL01NI-ANExxL02-M2<br>(Tape available) | FWHM: 10° 20° 30°<br>55°                 | Cree XPL-HD<br>Nichia NCS19A/ NVS19A/ NVS19B                                                                                   |     |
| 23.5x15.9 | LL01CR-AOxxL06-M2                      | Full angle: 60°                          | Cree XRE                                                                                                                       |    |
| 23.5x17.5 | LL01ED-AOxxL06-M2                      | Full angle:<br>30° 40° 60°<br>80° 25x45° | Edison 1LA5                                                                                                                    |    |
| 24.3x11.5 | LL01ZZ-FLxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40°<br>60° 30x65° | Cree XP-E2/ XP-G2<br>Nichia NVSxx19B<br>LGInnotek H35C1                                                                        |    |
| 24.3x11.5 | LL01LU-FLxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40°<br>60° 30x65° | Lumileds Rebel/ Rebel ES<br>Prolight PHENIX 3045                                                                               |    |
| 24.3x11.5 | LL01CR-AFLxxL02-M2<br>(Tape available) | Full angle:<br>35° 50° 70°               | Cree MK-R/ MT-G<br>Lumileds Luxeon M                                                                                           |    |
| 23.6x12.5 | LL01LU-AFLxxL02-M2                     | FWHM:<br>35° 50° 70°                     | Cree MK-R / XHP70<br>Lumileds Luxeon M                                                                                         |    |
| 24.3x12.3 | LL01CR-FLxxL06-M2                      | Full angle:<br>25° 40°                   | Cree MCE                                                                                                                       |    |
| 25x13     | LL01NI-DZxxL06-M2                      | Full angle: 20x40°                       | Cree MX6<br>Nichia NS6x183A                                                                                                    |   |
| 26x15.5   | LL01ED-AFDxxL06                        | Full angle:<br>15° 20°                   | Bridgelux V6<br>Sharp Petite Zenigata<br>Prolight S series/ Proeon Color<br>Cree XHG/HPL-HD/XHP50<br>Edison Federal 5050 Color |  |



27 mm  
|  
35 mm

| DXH (mm)   | Part Number                           | Degree                             | LED                                                                                                                                                                   | Picture                                                                               |
|------------|---------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 27.8x10.2  | LL01CR-ACZxxL02                       | FWHM: 24° 38°                      | Cree XP-E/ XM-L2(EZW)/XPL-HD/XHP50<br>Edison Federal 5050<br>Osram Oslon Square Sharp Petite Zenigata                                                                 |     |
| 29.8x12.54 | LL01CR-BJLxxL02                       | FWHM: 40°                          | Bridgelux VERO 10/13 Citizen CLL010/020/022<br>Cree CXA 13xx/15xx Nichia 036A/024B/066A/036B<br>Lumileds L2C1-1202/LHC1-1202(1203)<br>Sharp Mini Zenigata Seoul ZC4/6 |    |
| 32.8x18    | LL01XP-DGxxL06-M2                     | Full angle:<br>20° 30° 40° 50° 60° | Cree XPE2/ XPG2 / XPL-HD<br>(FOR 3535 LED)                                                                                                                            |    |
| 32.8x18    | LL01CR-DGxxL06-M2                     | Full angle:<br>20° 30° 40° 50° 60° | Cree MCE                                                                                                                                                              |    |
| 32.8x18    | LL01LU-DGxxL06-M2                     | Full angle:<br>20° 30° 40° 50° 60° | Cree MKR / XHP70<br>Lumileds Luxeon M                                                                                                                                 |    |
| 32.8x18    | LL01CR-WIxxL02-M2<br>(Tape available) | FWHM: 15° 25° 40°                  | Cree XML                                                                                                                                                              |    |
| 34x15.7    | LL01CR-BGSxxL06                       | FWHM: 24°                          | Cree CXA15xx/XHP70 Seoul ZC4/ZC6<br>Sharp Mini Zenigata Osram Duris S8                                                                                                |    |
| 35x10.7    | LL01ED-ACZxxL02                       | FWHM: 24° 38°                      | Cree XPE/ XML2(EZW)/ XHG/ XPL-HD/XHP50<br>Edison Federal 5050 Sharp Petite Zenigata<br>Osram Oslon Square/ Ostar                                                      |    |
| 35x20      | LL01CR-BLU03L06                       | FWHM: 3°                           | Cree XPE2/ XPG2/ XML2/ XPL-HD / XPL-HI/XHP35-HI                                                                                                                       |   |
| 35x20.15   | LL01CR-ZExxL02                        | Full angle:<br>20° 30° 45°         | Cree MKR/ MTG2(EZW) /XHP50(70) Luminus CXM6/7<br>Lumileds Luxeon M/S/ L2C1-1202 Seoul A4<br>Sharp Mini Zenigata                                                       |  |
| 35.8x15.75 | LL01CR-FOxxL06                        | Full angle: 40°                    | Cree XML2<br>Edison Federal 5050<br>Lumileds Luxeon T<br>Osram Oslon Square                                                                                           |  |



38 mm  
76 mm

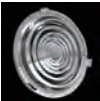
| DXH (mm)       | Part Number                            | Degree                       | LED                                                                                     | Picture                                                                                                                                                                   |
|----------------|----------------------------------------|------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 38.1x20.2      | LL01ED-BCQxxL06-M1                     | FWHM: 15° 15x30°             | Cree XML Color / XHP50<br>Edison Federal 5050 Color<br>Osram Ostar SMD color            |       |
| 38.1x20.9      | LL01CR-BCQxxL06-M1                     | FWHM: 15° 15x30°             | Cree MCE Color                                                                          |     |
| 39.1x34.1x32.2 | LL01LU-ABWxxL02-M2                     | FWHM: 10x50°                 | All single chip LED.                                                                    |                                                                                        |
| 45x26.3        | LL01CR-ANWxxL06                        | FWHM: 10° 20° 30°            | Cree MCE Color<br>Osram Ostar SMD color                                                 |                                                                                        |
| 45x26.3        | LL01CR-BJHxxL06                        | FWHM: 10°                    | Cree XML                                                                                |                                                                                        |
| 46x27.1        | LL01ED-AYxxL06-M2                      | FWHM: 10°<br>Full angle: 38° | Cree XML2/ MTG2/XHP50/70/MHD/MHB<br>Lumileds Luxeon M / S                               |                                                                                        |
| 46x27.1        | LL01ED-FGxxL06-M2                      | FWHM: 10°<br>Full angle: 38° | Cree XML2/ XHP50/70/MHD/MHB<br>Lumileds Luxeon M / S                                    |                                                                                        |
| 47.2x25.6      | LL01CR-PVxxL02-Mx                      | Full angle:<br>45° 60° 80°   | Cree XML2/ MTG2/MKR/XHP50/70/MHD/MHB<br>Lumileds Luxeon M / S                           |                                                                                        |
| 52x27          | LL01ZZ-AHAXxL06-M2<br>(Tape available) | FWHM: 5°                     | Cree XPE/ XML2 Lumileds Rebel ES<br>Nichia NCS19A/ NVS19A/ NVS19B<br>Osram Oslon SSL 80 |   |
| 75.8x35.2      | LL01CR-ADPxxL06                        | FWHM: 15° 24° 38°            | Cree MKR/ MTG EZW/ MTG2<br>Lumileds Luxeon M/ Luxeon S                                  |                                                                                      |

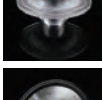


Lens Series

## COB Solution

Commercial Lighting

| DXH (mm)   | Part Number       | Degree                     | Material | LED                                                                                                                                                                                                             | Picture                                                                               |
|------------|-------------------|----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 29.9x12    | LL01ED-ACAxxL14   | FWHM: 24° 38°              | PC       | Cree CXA15xx/MHD<br>Sharp Mini Zenigata                                                                                                                                                                         |     |
| 30x17      | LL01NI-QIxxL06-M2 | Full angle: 25°            | PMMA     | Nichia 024B<br>Lumileds L2C1-1202<br>Sharp Mini Zenigata                                                                                                                                                        |    |
| 34x15.7    | LL01CR-ABGxxL02   | Full angle:<br>24° 38° 55° | PC       | Cree MKR2 / MTG2 / XHP50/70/MHB Luminus CXM6/7<br>Nichia 036B/ 024B/066A/036B Lumileds Luxeon M/ MZ/ S                                                                                                          |    |
| 35x10.5    | LL01CR-CHQxxL02   | FWHM: 24° 38°              | PC       | Cree CXA 13xx/ MKR2<br>Lumileds L2C1-1202                                                                                                                                                                       |    |
| 35x12.55   | LL01CR-BJL40L02   | FWHM 40°                   | PC       | Cree CXA13xx /15xx Citizen CLL010<br>Lumileds L2C1-1202 Seoul ZC4/ZC6                                                                                                                                           |    |
| 42x9.65    | LL01SP-AVA40L06   | FWHM 40°                   | PMMA     | Bridgelux Vero10/13 Cree CXA13xx/ 15xx<br>Citizen CLL010/020/022 Seoul ZC4/6/12/ 18<br>Lumileds L2C1-1202/LHC1-1202/1203/1204/1205<br>Nichia 036A/024B/066A/036B/121A/060B<br>Sharp Petite/ Mini/ Mega Zenigata |    |
| 44.4x11.05 | LL01CI-ZNxxL06    | FWHM:<br>25° 40°           | PMMA     | Citizen CLL010                                                                                                                                                                                                  |    |
| 44x12.2    | LL01WT-BSSxxL46   | FWHM 24° 32°               | PC 1225Z | Bridgelux VERO10/13 Cree CXA13xx/15xx/1816/1820<br>Citizen CLL010/020/022 Nichia 036A/024B/066A/036B<br>Lumileds L2C1-1202/LHC1-1202/1203 Seoul ZC4/6                                                           |    |
| 44x14.1    | LL01ED-ABY24L02   | FWHM 24°                   | PC       | Bridgelux V6 / V8 / VERO10 Citizen CLL010<br>Cree XHP50/ 70 / CXA13xx/15xx Lumileds L2C1-1202<br>Nichia 036A/024B/066A/036B Luminus CXM6/ 7/ 9<br>Lextar PB04/07/10 Sharp Petite Zenigata Prolight S series     |   |
|            | LL01CR-AQHxxL02   | FWHM 38° 45°               |          |                                                                                                                                                                                                                 |                                                                                       |
| 44x14.6    | LL01NI-BNX38L02   | FWHM 38°                   | PC       | Bridgelux Vero10 Citizen CLL010/020/022<br>Cree CXA13xx Lumileds L2C1-1202/LHC1-1202/1203<br>Nichia 757D/036A/024B/066A/036B                                                                                    |  |
| 47x8.5     | LL01ZZ-CPRxxL46   | FWHM 24° 38°               | PC 1225Z | Cree CXA13xx/ MHB<br>Citizen CLL010<br>Seoul ZC4/ZC6                                                                                                                                                            |  |

| DXH (mm)   | Part Number      | Degree              | Material | LED                                                                                                                                                                                                                                                                                                                              | Picture                                                                               |
|------------|------------------|---------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 49.2x9.5   | LL01CI-WLxxL02   | FWHM:<br>40°        | PC       | <b>Bridgelux</b> Vero10<br><b>Citizen</b> CLL020/022/030/032<br><b>Nichia</b> 066A/ 036B<br><b>Cree</b> CXA13xx/ 15xx<br><b>Seoul</b> ZC12/18                                                                                                                                                                                    |     |
| 50x10.4    | LL01CR-ABHxxL02  | FWHM:<br>40° 60°    | PC       | <b>Bridgelux</b> V8/ V10<br><b>Citizen</b> CLL030/032<br><b>Lextar</b> PB 07/ 10/ 15<br><b>Luminus</b> Luxeon M/LHC1-1205<br><b>Nichia</b> 036A/ 024B/ 066A/ 036B<br><b>Cree</b> MKR/ MTG2/ CXA13xx/ 15xx<br><b>Edison</b> EPCX-HR96<br><b>Luminus</b> CXM 6/ 7/ 9/ 11/ 14<br><b>Seoul</b> ZC4/ZC6<br><b>Sharp</b> Mini Zenigata |    |
| 50x15      | LL01CR-CEWxxL02  | FWHM<br>12° 24° 38° | PC       | <b>Bridgelux</b> Vero 13<br><b>Citizen</b> CLL020/022/CLU700<br><b>Xicato</b> XTM-9mmLES<br><b>Cree</b> CXA13xx/ 15xx<br><b>Sharp</b> Mini Zenigata                                                                                                                                                                              |    |
| 60x15.2    | LL01CI-ZOxxL06   | FWHM: 25° 40°       | PMMA     | <b>Citizen</b> CLL020/022<br><b>Luminus</b> CXM 14                                                                                                                                                                                                                                                                               |    |
| 68.8x19.18 | LL01CI-ZMxxL06   | FWHM: 40°           | PMMA     | <b>Citizen</b> CLL030/032                                                                                                                                                                                                                                                                                                        |    |
| 68.8x19.18 | LL01CI-AAKxxL06  | FWHM: 25°           | PMMA     | <b>Citizen</b> CLL030/032                                                                                                                                                                                                                                                                                                        |    |
| 69x22.7    | LL01CT-BBXxxL06  | FWHM: 24° 38°       | PMMA     | <b>Bridgelux</b> Vero10<br><b>Luminus</b> CXM14<br><b>Citizen</b> CLL020/022<br><b>Nichia</b> 121A/ 060B/ 216A/ 108B/ 130B                                                                                                                                                                                                       |    |
| 70x17.5    | LL01CR-CENxxL02  | FWHM<br>12° 24° 38° | PC       | <b>Cree</b> CXA15xx<br><b>Xicato</b> XTM-9 / 19mmLES<br><b>Citizen</b> CLL020/022/030/032<br><b>Sharp</b> Mini/ Mega Zenigata                                                                                                                                                                                                    |   |
| 70x17.5    | LL01CR-CFExxxL02 | FWHM<br>12° 24° 38° | PC       | <b>Cree</b> CXA 15xx<br><b>Citizen</b> CLL020/022/030/032<br><b>Sharp</b> Mega Zenigata                                                                                                                                                                                                                                          |  |
| 72x12.8    | LL01CI-WNxxL02   | FWHM: 40°           | PC       | <b>Bridgelux</b> Vero13<br><b>Citizen</b> CLL030 032<br><b>Seoul</b> ZC12/18<br><b>Cree</b> CXA15xx/ 18xx<br><b>Nichia</b> 060B/ 121A                                                                                                                                                                                            |  |
| 74x3       | LL01CR-BAAxxL02  | FWHM: 24°           | PC       | <b>Cree</b> CXA25xx/ 30xx<br><b>Edison</b> EPCX-HR96/ EPSX-HRB8                                                                                                                                                                                                                                                                  |  |

| DXH (mm)   | Part Number        | Degree                   | Material | LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Picture                                                                                                                                                          |                                                                                       |
|------------|--------------------|--------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 74.4x13    | LL01ZZ-CPQxxL46    | FWHM 24° 38°             | PC 1225Z | Cree CXA15xx / MHD<br>Citizen CLL020/022<br>Seoul ZC12/ZC18                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                |                                                                                       |
| 76.4x16.7  | LL01ZZ-AOFxxL06-Mx | FWHM: 24° 38°            | PMMA     | Cree CXA13xx/ 15xx/ 1816/ 1820/ 25xx<br>Bridgelux Vero 10/13/18<br>Citizen CLL020/ 022/030/032<br>Edison EPCX-HR96 /EPSX-HRB8<br>Seoul ZC12/18<br>Luminus CXM9/11/14/18<br>Osram SOLER IQ S13/ S19<br>Samsung LC013B/026B/040B<br>Sharp Mini/Mega Zenigata<br>Everlight JU1215(10W)/2024<br>Lextar PB07/10/15/20/30<br>LGIT COB10/13/17/24W<br>Prolight CI/BI/N series<br>Lumileds L2C1-1202/ LHC1-1202/1203/1204/1205/1208<br>Nichia 066A/036B/121A/060B/216A/108B/130B |                                                                               |                                                                                       |
| 75.8x24.35 | LL01ED-ABXxxL06    | FWHM: 24° 38°            | PMMA     | Bridgelux Vero13/ 18<br>Cree MTG2/ CXA18xx/ 25xx<br>Citizen CLL030/032/040/042<br>Everlight JU1215(10W)/JU2024<br>Lumileds LHC1-1204/ 1205/ 1208<br>Luminus CXM 9/ 11/ 14/ 18<br>Edison EPCX-HR96/ EPSX-HRB8/ HRBF/HRBJ                                                                                                                                                                                                                                                  | Sharp Mini/ Mega Zenigata<br>Lextar PB07/10/15/20/30<br>Samsung LC013B/040B<br>Seoul ZC12/18/25/40<br>Prolight CI/ BI/ N series<br>Nichia 066A/ 036B             |    |
| 76x22.5    | LL01CR-BAYxxL06    | FWHM: 24° 38°            | PMMA     | Bridgelux Vero13/ 18<br>Cree CXA15xx/18xx/25xx/30xx<br>Citizen CLL020/022/030/032<br>LGIT COB10/13/17/24W<br>Luminus CXM9/ 11/ 14<br>Everlight JU1215(10W)/ JU2024<br>Lumileds LHC1-1202/1203/1204/1205/1208<br>Nichia 066A/036B/060B/121A/130B/108B/ 216A                                                                                                                                                                                                               | Osram SOLER IQ S13/ S19<br>Samsung LC013B/026B/040B<br>Seoul ZC12/18/ ZC25/40<br>Sharp Mega Zenigata<br>Prolight CI/ BI/ N series<br>Lextar PB 07/10/15/20/30/40 |    |
| 76x23      | LL01CT-AMYxxL06    | FWHM: 24° 38°            | PMMA     | Bridgelux Vero18<br>Cree CXA1816/ 1820/ 25xx/ 30xx<br>Citizen CLL030/032/040/042<br>Lumileds LHC1-1204/1205<br>Lextar PB07/10/15/20/30/40                                                                                                                                                                                                                                                                                                                                | Osram SOLER IQ S19<br>Samsung LC026B<br>Seoul ZC12/18/25/40<br>Prolight CI/BI/N series                                                                           |    |
| 76.1x12.7  | LL01CT-AZWxxL02-P  | FWHM:<br>12° 15° 24° 38° | PC       | Citizen CLL020/022/030/032<br>Edison EPCX-HR96<br>Luminus CXM9/ 11/ 14/ 18                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                  |   |
| 87x44.25   | LL01ED-IHxxL-02    | Full angle: 60°          | PC       | Edison 1LA5/ EPCX-HR96/ EPSX-HRB8/ HRBJ/ HRBF                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                  |  |
| 88.5x15    | LL01CT-AZNxxL02-P  | FWHM:<br>15° 24° 38°     | PC       | Bridgelux Vero 18<br>Nichia 121A/ 060B<br>Edison EPCX-HR96<br>Cree CXA13xx/ 15xx/ 18xx<br>Sharp Mega/ Mini Zenigata                                                                                                                                                                                                                                                                                                                                                      | Osram SOLER IQ S13<br>Citizen CLL030/032<br>Nichia 121A/060B<br>LGIT COB10/13/17/24W                                                                             |  |

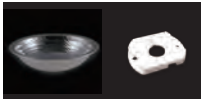
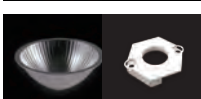
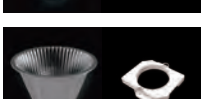
| DXH (mm)  | Part Number        | Degree               | Material | LED                                                                                                                                                                                                                                                                                                                                                                                                     | Picture                                                                             |
|-----------|--------------------|----------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 90x19.5   | LL01CR-CEOxxL02    | FWHM<br>12° 24° 38°  | PC       | Cree CXA15xx/1816/1820/25xx<br>Xicato XTM-9/19mmLES<br>Sharp Mega Zenigata<br>Citizen CLL030/032                                                                                                                                                                                                                                                                                                        |   |
| 90.6x22   | LL01ED-ASAxxL06-P  | FWHM:<br>12° 24° 38° | PMMA     | Citizen CLL020/022/030/032/040/042<br>Cree CXA18xx/25xx<br>Lumileds LHCI 1204/ 1205/ 1208<br>Osram SOLER IQ S13/ S19<br>Luminus CXM18/27<br>LGIT COB10/13/17/24W<br>Seoul ZC12/18/25/40<br>Everlight JU2024<br>Samsung LC013B<br>Sharp Mega Zenigata<br>Bridgelux Vero18<br>Lextar PB20/30/40<br>Nichia 066A/036B/121A/060B/216A/108B/130B                                                              |  |
| 90.8x22   | LL01CT-APGxxL06-Mx | FWHM: 24° 38°        | PMMA     | Citizen CLL030/ 032<br>Cree CXA13xx/1816/ 1820/ 25xx/30xx<br>Bridgelux VERO13/18<br>LGIT COB10/13/17/24W<br>Osram SOLER IQ S13/ S19<br>Edison EPSX-HRB8/ HRBF/ HRB3<br>Samsung LC013B/026B/040B<br>Luminus CXM27<br>Sharp Mini/ Mega Zenigata<br>Lextar PB20/30/40<br>Everlight JU1215(10W) / 2024<br>Prolight BI/N series<br>Lumileds LHCI 1202/1203/1204/1205/1208<br>Nichia 060B/108B/130B/121A/216A |  |
| 92.5x27.5 | LL01CI-WMxxL02     | FWHM:<br>40°         | PC       | Cree CXA18xx<br>Nichia 130B/108B/216A<br>Seoul ZC12/18<br>Citizen CLL030<br>Bridgelux Vero18                                                                                                                                                                                                                                                                                                            |  |



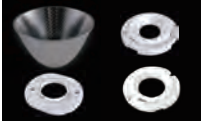
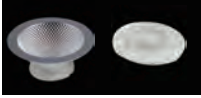
Lens Series

## Reflectors

Commercial Lighting

| DXH (mm)               | Part Number<br>(Material)              | Degree               | LED                                                                                                                                                                                                                                                                                                                      | Picture                                                                                              |
|------------------------|----------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 35.2x7.8               | LL01ED-AJMxxR49<br>(Aluminum)          | FWHM:<br>24° 38°     | Cree CXA1304/15xx(holder)<br>Citizen CLL010 Everlight JU1215COB 4W<br>Nichia 036A/ 024B Sharp Mini/ Petite Zenigata                                                                                                                                                                                                      |                   |
| 44x11.8                | LL01CT-AMXxxR49<br>(Aluminum)          | FWHM: 45°            | Citizen CLL010(holder)<br>Everlight JU1215COB 4W/ 7W/ 10W<br>Nichia 036A/ 024B Sharp Mini/ Petite Zenigata                                                                                                                                                                                                               |                   |
| 45x19.4                | LL01BR-TYRxxR34-P<br>(Plastic Plating) | FWHM:<br>24° 34° 50° | Citizen CLL010/012/020/022/030/032 Edison EPCX-HR96<br>Cree CXA13xx/15xx/1816/1820 Sharp Mini/ Mega Zenigata<br>LGInnotek COB 10W/13W/17W/24W Seoul ZC12/18<br>Everlight JU1215 4W/7W/10W/JU2024 Prolight BI/ N/ S Series                                                                                                |                   |
| 50x19                  | LL01CT-AJZxxR49<br>(Aluminum)          | FWHM:<br>36° 50°     | Citizen CLL010/020/022(holder) Lumileds LHC1-1202/ 1203<br>Cree CXA13xx/15xx Sharp Mini Zenigata Luminus CXM-6/ 7/ 9<br>Nichia 036A/ 024B/ 066A/ 036B Bridgelux Vero13 Nichia 036A/024B<br>Everlight JU1215 4W/7W/10W                                                                                                    |                   |
| 50x19                  | LL01ED-ALixxR49<br>(Aluminum)          | FWHM:<br>24° 38° 55° | Citizen CLL020/022 Lumileds LHC1-1202/1203 Seoul ZC4/6<br>Cree CXA15xx/1816/1820 Edison EPCX-HR96(holder) Prolight S Series<br>Sharp Mini Zenigata Luminus CXM-6/ 7/ 9 Lextar PB04/ 07/ 10<br>Nichia 036A/ 024B/ 066A/ 036B Everlight JU1215 4W/ 7W/ 10W/JU2024                                                          |                   |
| 50x30                  | LL01CIOTxxR2-P<br>(Plastic Plating)    | FWHM:<br>20° 33° 45° | Citizen CLL030/032(holder) Cree CXA15xx(holder)/25xx Edison EPCX-HR96<br>Lextar PB 07/10/15/20/30 Prolight CI/ BI/ N series Seoul ZC12/18<br>Sharp Mini /Mega Zenigata Everlight JU1215(4/7/10W)/ JU2024                                                                                                                 |                   |
| 50x30/<br>50.5x30(45°) | LL01ED-AKYxxR49<br>(Aluminum)          | FWHM:<br>24° 38° 45° | Cree CXA15xx Edison EPCX-HR96(holder) Seoul ZC4/6<br>Lextar PB 04/ 07/ 10 Lumileds LHC1-1202/ 1203 Prolight S series<br>Nichia 036A/ 024B/066A/036B Luminus CXM 6/ 7<br>Everlight JU1215COB 4W/ 7W/ 10W Sharp Mini Zenigata                                                                                              |                   |
| 50.5x29.5              | LL01ED-AKVxxR49<br>(Aluminum)          | FWHM: 36°            | Cree CXA15xx/25xx Citizen CLL020/022/030/032 Bridgelux Vero10/ 13<br>Edison EPSX-HRB8(holder) Nichia 036A/ 024B Sharp Mini Zenigata<br>Luminus CXM 6/ 7/ 9/ 11/ 14 Everlight JU1215 (4/7/10W)/JU2024<br>LGInnotek COB 10W/13W/17W/24W                                                                                    |                   |
| 70x35                  | LL01ZZ-AAAxL49<br>(Aluminum)           | FWHM:<br>24° 38° 55° | Citizen CLL020/012/030/032 Bridgelux Vero13 Lextar PB15<br>Cree CXA15xx/1816/1820 Nichia 066A/036B Prolight BI/ N Series<br>Edison EPCX-HR96 Seoul ZC4/6/12/18 Sharp Mini Zenigata<br>Lumileds LHC1-1204/ 1205/ 1208 Nichia 121A/ 060B/ 216A/ 108B/ 130B<br>LGInnotek COB 10W/13W/17W/24W Everlight JU1215 7W/10W/JU2024 | <br>Fresnel Lens |
| 75x20.1                | LL01ED-ALAxR49<br>(Aluminum)           | FWHM:<br>24° 38°     | Cree CXA15xx/18xx Citizen CLL020/022/030/032<br>Edison EPSX-HRB8(holder) Sharp Mega Zenigata<br>Everlight JU1215 7W/ 10W / JU2024 Nichia 121A/ 060B/ 216A/ 108B/ 130B                                                                                                                                                    |                 |

Downloaded from [Arrow.com](http://Arrow.com).

| DXH(mm)   | Part Number<br>(Material)                      | Degree                   | LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Picture                                                                               |
|-----------|------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 90x50     | LL01SP-ASOxxR49<br>(Aluminum)                  | FWHM:<br>15° 24° 38° 55° | <p> Lextar PB 20/30/ 40    Cree CXA1816/1820(holder)/25xx/30xx (connector)<br/> Luminus CXM11/14/18    Citizen CLL030/032/CLL040/042(holder)<br/> Prolight CI/ BI/N series    Lumileds LHC1-1202/1203/1204/1205/12808(holder)<br/> Bridgelux Vero10/13/18    Nichia 121A/ 060B/ 216A/ 108B/ 130B<br/> Everlight JU1215 10W/JU2024    Seoul ZC12/18/ 25/40<br/> LGInnotek COB 10/13/17/24W    Osram Soler IQ S13/ S19<br/> Sharp Mega Zenigata(holder)    Samsung LC013B/ 026B/ 040B </p> |     |
| 90x50     | LL01CT-AYXxxR35-P<br>(Plastic Plating)         | FWHM:<br>15° 24° 38°     | <p> Citizen CLL030/032(connector)/040/042    Cree CXA1830(connector)<br/> Prolight CI/ BI/ N series    Bridgelux Vero13/18    Samsung LC013B/040B<br/> Luminus CXM 11/14/18    Lextar PB 20/ 30/ 40    Seoul ZC12/18/25/40<br/> Everlight JU1215 10W/JU2024    Osram Soler IQS13/19<br/> LGInnotek COB 10/13/17/24W    Lumileds LHC1-1205/1208<br/> Nichia 121A/060B/216A/108B/130B </p>                                                                                                 |    |
| 90.5x23.2 | LL01CT-ALOXxxR49<br>(Aluminum)                 | FWHM:<br>24° 38° 45°     | <p> Cree CXA15xx/1816/1820    Citizen CLL030/032(holder)<br/> Sharp Mini/ Mega Zenigata    Edison EPSX-HRB8<br/> Everlight JU1215 10W/JU2024    Luminus CXM14 </p>                                                                                                                                                                                                                                                                                                                       |    |
| 91.5x23.2 | LL01ED-ALJxxR49<br>(Aluminum)                  | FWHM:<br>24° 38° 45°     | <p> Cree CXA1816/1820/25xx(holder)/30xx    Citizen CLL030/032/040/042<br/> Edison EPSX-HRBF/ HRBJ(holder)    Everlight JU1215 10W / JU2024<br/> Nichia Nichia 121A/060B/216A/108B/130B    Sharp Mega Zenigata </p>                                                                                                                                                                                                                                                                       |    |
| 93x35     | LL01CT-BKY15R49<br>-BLB110L51<br>(Aluminum+PC) | FWHM: 15°                | <p> Citizen CLL030/032    Seoul ZC12/ZC18 </p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 93x35     | LL01CT-BKY24R49<br>-BLB140L51<br>(Aluminum+PC) | FWHM: 24°                | <p> Citizen CLL030/032    Seoul ZC12/ZC18 </p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 93x35     | LL01CT-BKY36R49<br>-BLB130L51<br>(Aluminum+PC) | FWHM: 36°                | <p> Citizen CLL030/032    Seoul ZC12/ZC18 </p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 93x35     | LL01CT-BKY75R49<br>-BLB120L51<br>(Aluminum+PC) | FWHM: 75°                | <p> Citizen CLL030/032    Seoul ZC12/ZC18 </p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| 100x57    | LL01CR-BIYxxR49<br>-BIZ120L02<br>(Aluminum+PC) | FWHM:<br>13° 24°         | <p> Citizen CLL030/032    Seoul ZC12/ZC18 </p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 116x32    | LL01ED-AKXxxR49<br>(Aluminum)                  | FWHM:<br>24° 38°         | <p> Cree CXA18xx/25xx(holder)/30xx    Citizen CLL030/032/040/042<br/> Edison EPSX-HRBJ/HRBF(holder)    Lextar PB 20/ 30/ 40<br/> Nichia 216A/ 108B/ 130B    Everlight JU2024    Sharp Mega Zenigata </p>                                                                                                                                                                                                                                                                                 |  |



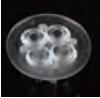
Lens Series

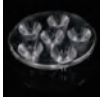
## Multi Lens

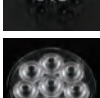
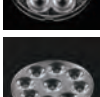
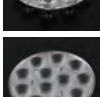
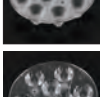
Commercial Lighting

| DXH (mm)   | Part Number     | Degree                  | LED                                                                                                                                                                                  | Picture                                                                               |
|------------|-----------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 21.8x7.9   | LL03CR-ARHxxL06 | FWHM: 38°               | Cree XPE                                                                                                                                                                             |    |
| 23.1x10.83 | LL03CR-BDMxxL06 | FWHM: 20° 40° 60°       | Cree XTE                                                                                                                                                                             |    |
| 23.1x11    | LL03LU-MKxxL06  | Full angle: 15° 25°     | Nichia NCSxx19A/ NVSxx19A                                                                                                                                                            |    |
| 23.1x11    | LL03LU-DMxxL06  | Full angle: 15° 25° 40° | Cree XPE/XPG<br>Lumileds Rebel<br>Edison Federal 3045<br>Osram Oslon SSL 80                                                                                                          |    |
| 33.2x9.8   | LL03OS-GKxxL06  | Full angle: 25° 40° 60° | Cree XPE/ XPG2/ XTE/ XBD<br>Nichia NCSxx19B/ NVSxx19B<br>Lumileds Rebel<br>Osram Oslon SSL 80/ Square                                                                                |    |
|            |                 | Full angle: 40° 60° 80° | Cree XPE/ XPG (Only for 40°60°)<br>Lumileds Luxeon T/Tx/ Luxeon Z/Z ES<br>Nichia NCSxx19A/ NVSxx19A<br>Samsung LH351A/ LH351B<br>Citizen ET-3535<br>Osram Oslon SSL 80<br>Seoul Z5M1 |                                                                                       |
| 33.2x10.2  | LL03ED-GKxxL06  | Full angle: 25° 40° 60° | Edison Federal 3045<br>Nichia NS6x183A                                                                                                                                               |    |
| 33.2x10.15 | LL03CR-GKxxL06  | Full angle: 80°         | Cree XPG2                                                                                                                                                                            |    |
| 35x7       | LL03DD-AMGxxL06 | FWHM: 38°               | Cree XPE<br>Nichia NF2x757A/D                                                                                                                                                        |   |
| 35x7.9     | LL03CR-ARlxxL06 | FWHM: 38°               | Cree XPE                                                                                                                                                                             |  |
| 35x8.2     | LL03CR-HKxxL06  | Full angle: 40°         | Cree MX6<br>Lumileds Luxeon A<br>Nichia NS9x383/ NF2x757A<br>Osram Oslon Square                                                                                                      |  |

| DXH (mm)  | Part Number     | Degree                     | LED                                                                                                                                                                                        | Picture                                                                               |
|-----------|-----------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 35x9.2    | LL03ED-EKxxL06  | Full angle:<br>25° 40° 60° | Edison 1LA5                                                                                                                                                                                |     |
| 35x10.5   | LL03CR-RXxxL06  | Full angle:<br>25°         | Cree XPE2/ XPG<br>Lumileds LuxeonT/Tx<br>Seoul Z5/ Z5P                                                                                                                                     |    |
|           |                 | Full angle:<br>40° 60°     | Cree XPE/ XPG/ XPG2/ XTE/ XBD<br>Osram Oslon SSL80/ Oslon Square<br>LGInnotek H35C1<br>Lumileds Rebel/ RebelES/ LuxeonA/ LuxeonT/Tx/ Luxeon Z/ZES<br>Nichia NCSxx19A/B/ NVSxx19B/ NS6x183A |                                                                                       |
| 35x10.5   | LL03NI-QQxxL06  | Full angle:<br>15°         | Nichia NVSxx19B/ NCSxx19B                                                                                                                                                                  |    |
| 35x10.6   | LL03LU-DOxxL06  | Full angle:<br>15° 25° 40° | Cree XPE/ XPG<br>Lumileds Rebel                                                                                                                                                            |    |
| 35x10.8   | LL03CR-BDOxxL06 | FWHM:<br>15° 25°           | Cree XBD                                                                                                                                                                                   |    |
| 50x14.5   | LL03CR-AZxxL06  | Full angle:<br>25° 45° 60° | Cree XPE/XPG                                                                                                                                                                               |    |
| 22x6.7    | LL04CR-ABDxxL06 | FWHM:<br>24° 36°           | Cree XPE/ XBD                                                                                                                                                                              |    |
| 22.2x6.7  | LL04CR-GPxxL06  | Full angle:<br>25° 38° 45° | Cree XPE/ XHG<br>Osram Oslon SSL 80<br>Samsung LH351A/ LH351B                                                                                                                              |   |
| 22.2x6.8  | LL04LU-GPxxL06  | Full angle:<br>15° 25° 45° | Cree XHG<br>Lumileds Rebel/ Rebel Es<br>Samsung LH351A/ LH351B                                                                                                                             |  |
| 25.4x10.5 | LL04LU-DNxxL06  | Full angle:<br>15° 25° 40° | Cree XPE/ XPG<br>Lumileds Rebel<br>Osram Oslon SSL 80                                                                                                                                      |  |

| DXH (mm)     | Part Number        | Degree                                     | LED                                                                                                                                                                                                                                                                                                                    | Picture                                                                               |
|--------------|--------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 32.8.05x7.65 | LL04TS-BTBxxL06-M3 | FWHM:<br>20°                               | <b>Cree</b> XPE2/ XPG2/ XTE/ XPL<br><b>Samsung</b> LH351B<br><b>Nichia</b> NVSxx19B/ NCSxx19B/ NF2x757A/D<br><b>Lumileds</b> Rebel/ Rebel ES<br><b>LGInnotek</b> H351C                                                                                                                                                 |     |
| 35x7         | LL04DD-AMGxxL06    | FWHM:<br>38°                               | <b>Cree</b> XPE<br><b>Lumileds</b> Rebel ES<br><b>Nichia</b> NF2x757A/ NF2x757D                                                                                                                                                                                                                                        |    |
| 35x10.5      | LL04CR-RXxxL06     | Full angle:<br>25°                         | <b>Cree</b> XPE2/ XPG<br><b>Edison</b> Federal 3045<br><b>Lumileds</b> LuxeonT/Tx<br><b>Seoul</b> Z5/ Z5P                                                                                                                                                                                                              |    |
|              |                    | Full angle:<br>40° 60°                     | <b>Cree</b> XPE/ XPG/ XPG2/ XTE/ XBD<br><b>Edison</b> Federal 3535/ 3045/ ET-3535<br><b>Lumileds</b> Rebel/ RebelES/ LuxeonA/ T/Tx/ Z/ZES<br><b>Nichia</b> NCSxx19A/B/ NVSxx19B/ NS6x183A<br><b>Osram</b> Oslon SSL80/ Oslon Square<br><b>Samsung</b> LH351A/ LH351B<br><b>LGInnotek</b> H35C1<br><b>Seoul</b> Z5/ Z5P |                                                                                       |
| 35x10.4      | LL04LU-DOxxL06     | Full angle:<br>15° 25° 40°                 | <b>Cree</b> XPE/ XPG<br><b>Lumileds</b> Rebel<br><b>Osram</b> Oslon SSL80/ Square                                                                                                                                                                                                                                      |    |
| 35x10.5      | LL04NI-DOxxL02     | Full angle:<br>25° 40°                     | <b>Nichia</b> NCSxx19B/ NF2x757A                                                                                                                                                                                                                                                                                       |    |
| 35x10.5      | LL04NI-QQxxL06     | Full angle:<br>15°                         | <b>Nichia</b> NCSxx19A/ NVSxx19A<br><b>Seoul</b> Z5                                                                                                                                                                                                                                                                    |    |
| 37x9.8       | LL04OS-GKxxL06     | Full angle:<br>40° 60° 80°                 | <b>Cree</b> XPE/ XPG2/ XTE/ XBD (Only for 40°60°)<br><b>Lumileds</b> Luxeon T/Tx/ Luxeon Z/Z ES<br><b>Nichia</b> NCSxx19A/ NVSxx19A<br><b>Samsung</b> LH351A/ LH351B<br><b>Citizen</b> ET-3535<br><b>Osram</b> Oslon SSL 80<br><b>Seoul</b> Z5M1                                                                       |    |
| 37x10.3      | LL04ED-GKxxL06     | Full angle:<br>25° 40° 60°                 | <b>Edison</b> Federal 3045                                                                                                                                                                                                                                                                                             |   |
| 37x10.61     | LL04ZZ-AAAxL06-M2  | Full angle: 30° 40°<br>50° 70° 90° 30°x65° | <b>Cree</b> XPE/ XP2/ XBD                                                                                                                                                                                                                                                                                              |  |
| 37x10.61     | LL04ZZ-BBBxxL02-M2 | Full angle:<br>40° 70° 100°                | <b>Cree</b> XPE/ XP2                                                                                                                                                                                                                                                                                                   |  |

| DXH (mm) | Part Number                                                          | Degree                     | LED                                                                                                                                                                                                                                          | Picture                                                                               |
|----------|----------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 50x8.5   | LL04CR-CECxxL06                                                      | FWHM: 25° 50°              | Cree XPE2/ XPG2/ XPL<br>Nichia NCSxx19B/ NVSxx19B<br>Lumileds Luxeon T<br>Osram Oslon Square                                                                                                                                                 |     |
| 35.8x6.3 | LL05CR-BFRxxL06                                                      | FWHM: 25° 40° 60°          | Cree XTE<br>Lumileds Luxeon Z/Z ES<br>Nichia NVSxx19B/ NF2x757A                                                                                                                                                                              |    |
| 35.8x6.5 | LL05CR-FRxxL06                                                       | Full angle: 25° 40° 60°    | Cree XPE/ XPG                                                                                                                                                                                                                                |    |
| 50x10.5  | LL06CR-RXxxL06                                                       | Full angle: 25° 40° 60°    | Cree XPE/ XPG/ XML EZW<br>Edison 1LA5/ Federal 3045<br>Nichia NVSxx19A/ NCSxx19A<br>Osram Oslon SSL80/ Square<br>Lumileds Rebel<br>Seoul A4                                                                                                  |    |
|          |                                                                      | Full angle: 40° 60°        | Cree XPE2/ XPG2/ XTE/ XBD<br>Edison Federal 3535/ 3045<br>Nichia NCSxx19A/B/ NVSxx19B<br>Osram Oslon SSL80/ Oslon Square<br>Lumileds Rebel/ RebelES/ LuxeonA/ LuxeonT/Tx/ Luxeon Z/ZES<br>Samsung LH351A<br>LGInnotek H35C1<br>Seoul Z5/ Z5P |                                                                                       |
| 76x16.2  | LL06ED-AXNxxL06-Mx<br>(Lens:LL06CR-CKxxL06)                          | FWHM: 25°                  | Cree XPE/ XML/ XML EZW<br>Nichia NF2x383A/ 183A/B                                                                                                                                                                                            |    |
| 76x16.2  | LL06ED-AXMxxL06-Mx<br>(Lens:LL06ED-AExxL06)<br>(Lens:LL06ED-DKxxL06) | FWHM: 15° 25° 35°          | Cree XML/ XML EZW                                                                                                                                                                                                                            |    |
| 76x16.2  | LL06ED-AXLxxL06-Mx<br>(Lens:LL06ED-ATxxL06)                          | FWHM: 25°                  | Cree XPE/ XML/ XML EZW/ MKR                                                                                                                                                                                                                  |    |
| 73.3x16  | LL06CY-TTxxL06                                                       | Full angle:<br>45°         | Cree XPE/ XTE/ XBD                                                                                                                                                                                                                           |   |
| 35.8x6.3 | LL07CR-BFRxxL06                                                      | FWHM:<br>25° 40° 60°       | Cree XTE<br>Nichia NVSxx19B/ NF2x757A<br>Lumileds LuxeonZ/Z ES                                                                                                                                                                               |  |
| 35.8x6.5 | LL07CR-FRxxL06                                                       | Full angle:<br>25° 40° 60° | Cree XPE/ XPG                                                                                                                                                                                                                                |  |

| DXH (mm)   | Part Number     | Degree                         | LED                                                                                                                                                                                     | Picture                                                                               |
|------------|-----------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 39.2x10.8  | LL07ZZ-FVxxL06  | Full angle:<br>15° 25° 30° 60° | Cree XPE/ XPG<br>LGInnotek H35C1<br>Seoul Z5                                                                                                                                            |     |
| 47x9.8     | LL07OS-GKxxL06  | Full angle:<br>40° 60° 80°     | Lumileds Luxeon T/Tx/ LuxeonZ/Z ES<br>Nichia NCSxx19A/ NVSxx19A<br>Seoul Z5M1                                                                                                           |    |
| 47x10.5    | LL07ED-GKxxL06  | Full angle:<br>25° 40° 60°     | Edison Federal 3045                                                                                                                                                                     |    |
| 50x10.3    | LL07CR-RXxxL06  | Full angle:<br>40° 60°         | Cree XPE2/ XPG2/ XTE/ XBD<br>Osram Oslon SSL80/ Oslon Square<br>LGInnotek H35C1<br>Nichia NCSxx19A/ NVSxx19B/ NCSxx19B<br>Lumileds Rebel/ RebelES/ LuxeonA/ Luxeon T/Tx/ Luxeon Z/ Z ES |    |
| 50.35x10.7 | LL07ZZ-FUxxL06  | Full angle:<br>15° 25°         | Cree XPE/ XPG<br>Lumileds Rebel                                                                                                                                                         |    |
| 43x8.5     | LL08NI-BEBxxL02 | FWHM:<br>25° 40°               | Nichia NF2x757A/ NF2x757D                                                                                                                                                               |    |
| 45x7       | LL09CR-FRxxL06  | Full angle:<br>25° 40° 60°     | Cree XPE/XPG                                                                                                                                                                            |    |
| 67x9.8     | LL09OS-GKxxL06  | Full angle:<br>40° 60° 80°     | Cree XPE/ XPG2/ XTE/ XBD (Only for 40°60°)<br>Citizen ET-3535<br>Osram Oslon SSL 80<br>Seoul Z5M1                                                                                       |    |
| 67x10.8    | LL09ED-GKxxL06  | Full angle:<br>25° 40° 60°     | Edison Federal 3045<br>Nichia NS6x183A                                                                                                                                                  |   |
| 70x10.3    | LL09CR-RXxxL06  | Full angle:<br>40° 60°         | Cree XPE2/ XPG2/ XTE/ XBD<br>Osram Oslon SSL80/ Oslon Square<br>LGInnotek H35C1<br>Nichia NCSxx19A/ NVSxx19B/ NCSxx19B<br>Lumileds Rebel/ RebelES/ LuxeonA/ LuxeonT/Tx/ LuxeonZ/ Z ES   |  |

| DXH (mm)   | Part Number     | Degree                     | LED                                                                                                                                                                                                                                                   | Picture                                                                               |
|------------|-----------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 90.6x18.8  | LL09CY-TTxxL06  | Full angle:<br>45°         | Cree XPE/ XTE                                                                                                                                                                                                                                         |    |
| 45x7       | LL12CR-FRxxL06  | Full angle:<br>25° 40° 60° | Cree XPE/ XPG                                                                                                                                                                                                                                         |    |
| 67x9.8     | LL12OS-GKxxL06  | Full angle:<br>40° 60° 80° | Cree XPE/ XPG2/ XTE/ XBD (Only for 40°60°) Seoul Z5M1<br>Lumileds Luxeon T/Tx/ Luxeon Z/Z ES Nichia NCSxx19A/ NVSxx19A<br>Osram Oslon SSL 80 Samsung LH351A/ LH351B                                                                                   |    |
| 67x10.8    | LL12ED-GKxxL06  | Full angle:<br>25° 40° 60° | Edison Federal 3045                                                                                                                                                                                                                                   |    |
| 70x10.3    | LL12CR-RXxxL06  | Full angle:<br>40° 60°     | Cree XPE2/ XPG2/ XTE/ XBD Samsung LH351A<br>Edison Federal 3535/ 3045/ ET-3535 Seoul Z5/ Z5P<br>Osram Oslon SSL80/ Oslon Square LGInnotek H35C1<br>Nichia NCSxx19A/ NVSxx19B/ NCSxx19B<br>Lumileds Rebel/ RebelES/ LuxeonA/ LuxeonT/Tx/ LuxeonZ/ Z ES |    |
| 62x8.5     | LL13NI-BEBxxL02 | FWHM: 25° 40°              | Nichia NF2x757A/ NF2x757D                                                                                                                                                                                                                             |    |
| 73.4x13.1  | LL18NI-BEBxxL02 | FWHM: 25° 40°              | Nichia NF2x757A/ NF2x757D                                                                                                                                                                                                                             |    |
| 99x90x10.3 | LL24CR-VExxL02  | Full angle: 15°            | Cree XPE/ XPG                                                                                                                                                                                                                                         |    |
| 113.6x76x9 | LL24CR-PFxxL02  | Full angle: 15°            | Cree XPE/ XPG                                                                                                                                                                                                                                         |   |
| 140x12.6   | LL36ED-AAxxL06  | Full angle:<br>15° 25° 45° | Edison 1LA5                                                                                                                                                                                                                                           |  |
| 180x13.1   | LL60ED-BOxxL06  | Full angle: 25°            | Edison 1LA5<br>Seoul A4                                                                                                                                                                                                                               |  |



Lens Series

## Convex Lens

Commercial Lighting

| DXH (mm)  | Part Number       | Degree              | LED                                                                       | Picture                                                                               |
|-----------|-------------------|---------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 16.7x6.7  | LL01ED-AW60L06    | Full angle: 60°     | All single chip LED.                                                      |     |
| 22.1x6.8  | LL01ED-AV60L06    | Full angle: 60°     | All single chip LED.                                                      |    |
| 22.1x7.6  | LL01ED-DP60L06    | Full angle: 60°     | All single chip LED.                                                      |    |
| 22.1x10.5 | LL01ED-CC40L06    | Full angle: 40°     | All single chip LED.                                                      |    |
| 22.5x7.6  | LL01ED-AQ60R06    | Full angle: 60°     | All single chip LED.                                                      |    |
| 26.7x17.8 | LL01ED-AQ60R06-M2 | Full angle: 60°     | Edison 1LA5<br>Seoul P4                                                   |    |
| 26.7x17.8 | LL01ED-CJ60R06-M2 | Full angle: 60°     | All single chip LED.                                                      |    |
| 28.8x7.3  | LL01ZZ-FS60L06    | Full angle: 60°     | All single chip LED.                                                      |    |
| 37.2x10   | LL01OS-DC56L06    | Full angle: 56°     | All single chip LED.                                                      |    |
| 37.2x10   | LL01OS-BYxxL06    | Full angle: 56° 76° | All single chip LED.                                                      |   |
| 50x6.3    | LL01CR-BLF60L06   | Full angle: 60°     | CREE XPE/XPG/XTE<br>Edison Federal3535<br>NICHIA NCSxx19A<br>SAMSUNG 3535 |  |
| 60.3x32.5 | LL01ED-AI60L06-M2 | Full angle: 60°     | All single chip LED.                                                      |  |



Lens Application

**Street Lighting**

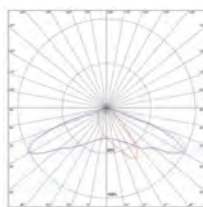
### LL01CR-BZT80140L83-Mx

Illuminance Asymmetrical



LxWxH(mm): 67x35x17.2  
FWHM : 80°x140°

(Type I ,Short)



LED:

Cree CXA15xx

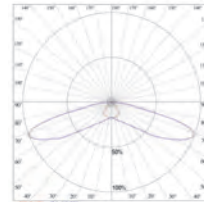
### LL01CR-OG85150L02

Illuminance Symmetrical



LxWxH(mm): 18x8.95x6.2  
FWHM : 85°x150°

(Type II ,Medium)



LED:

Cree XPE/ XPG2/ XBD  
Lumileds Rebel/ Rebel ES  
Nichia NVS19A/B  
Osram Oslon Square  
Samsung LH351A/B/ Z

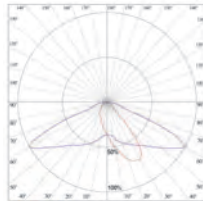
### LL01OS-AU60140L02

Illuminance Asymmetrical



LxWxH(mm): 16x8.8x5.3  
FWHM : 60°x140°

(Type I ,Short)



LED:

Cree XPE2/ XPG2/ XBH/ XPL-HD/  
XHP35-HI  
Lumileds Luxeon A/T  
Nichia NVS19B/ 757A(D)  
Osram Oslon SSL80  
Samsung LH351A/ B/ Z  
LGInnotek H35C1  
Seoul MJT2525/ Z8Y15/19

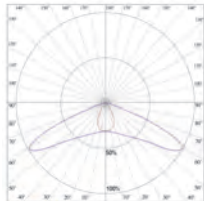
### LL01CR-FT60135L02

Illuminance Symmetrical



LxWxH(mm): 18x9.3x5.9  
FWHM : 60°x135°

(Type I ,Very Short)



LED:

Cree XPE2/ XPG2/ XBD/ XBH  
/XHP35-HI  
Lumileds Rebel/ Rebel ES/  
Luxeon A/T  
Nichia NCS19A/ NVS19A/B  
Osram OslonSSL80/ Square  
Samsung LH351A/ B/ Z  
LGInnotek H35A/H35C1  
Seoul MJT2525/ 3030/ 4040/ 5050

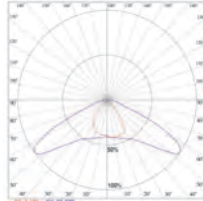
### LL01CR-OW70130L02

Illuminance Asymmetrical



LxWxH(mm): 17.4x12.75x7.2  
FWHM : 70°x130°

(Type I ,Short)



LED:

Cree XPE2/ XPG2/ XBD/ XTE/ XBH  
/ XPL-HD/ XHP35-HD(HI)  
Lumileds Luxeon T/ Rebel  
LGInnotek H35A/H35C1  
Edison Federal 3045  
Osram Oslon SSL80/ 150/ Square  
/ Ostar  
Nichia NCS19A/NVS19A(B)/757A(D)  
/ 383  
Samsung LH351A/ B/ Z  
Seoul MJT2525/ 3030/ 4040/ 5050/  
Z8Y15/19

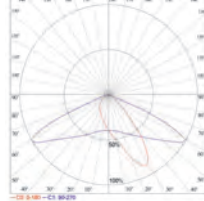
### LL01CR-AU85135L02

Illuminance Asymmetrical



LxWxH(mm): 18x10.2x6.1  
FWHM : 80°x135°

(Type I ,Short)



LED:

Cree XPE2/ XPG2/ XBD/ XBH  
/XHP35-HI  
Lumileds Rebel/ Rebel ES/  
Luxeon A/T  
Edison Federal 3045  
Nichia NCS19A/ NVS19A/B/  
757A/D  
Osram OslonSSL80/ 150/ Square  
Samsung LH351A/ B/ Z  
LGInnotek H35A/ H35C1  
Seoul MJT2525/ 3030/ 4040  
/ Z8Y15/19

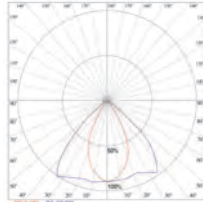
### LL01CR-KM6090L02

Illuminance Symmetrical



LxWxH(mm): 17.55x11.6x8.6  
FWHM : 60°x90°

(Type I ,Very Short)



LED:

Cree XPE2/ XPG2/ XBH/XHP35- HI  
Lumileds Rebel/ Rebel ES/ Luxeon A  
Edison Federal 3045  
Nichia NCS19A/ NVS19A/B/ 757A/D  
Samsung LH351A/ B/ Z  
LGInnotek H35A/ H35C1  
Osram Oslon SSL80/Square  
/Duris S8  
Seoul MJT2525/ 3030/ 4040/5050  
/ Z8Y15/19

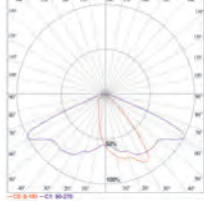
### LL01LU-UQ70140L02

Brightness Asymmetrical  
Illuminance



LxWxH(mm): 18x11x6.6  
FWHM : 70°x140°

(Type I ,Short)



LED:

Cree XPE2(G2)/ XBD/XBH/XTE  
/XPL-HD/XHP35-HD(HI)  
Lumileds Rebel/ Rebel ES  
Nichia NVS19B/ 757A/D  
Samsung LH351A/ B/ Z  
Osram Duris S8  
LGInnotek H35C1  
Seoul MJT4040/5050/ Z8Y15/19

## LL01CR-BAJ85135L02

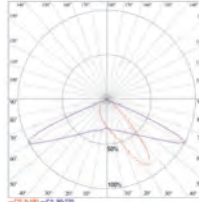
Illuminance Asymmetrical



Tape available

LxWxH(mm): 18x12.5x6.1  
FWHM : 85°x135°

(Type I ,Short)



### LED:

Cree XPE2/ XPG2/ XBD/ XBH  
/XHP35-HI  
Lumileds Luxeon T  
Nichia NVS19B/ 757A/D  
Samsung LH351A/ B/ Z  
LGInnotek H35C1  
Seoul MJT2525/ 3030/ 4040

## LL01LU-AIK45135L02

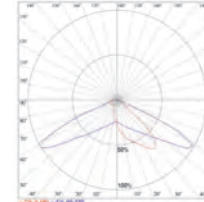
Illuminance Asymmetrical



Tape available

LxWxH(mm): 18x12.5x7.05  
FWHM : 45°x135°

(Type II ,Short)



### LED:

Cree XPG2/ XBH/ XPL-HD  
/XHP35-HD(HI)  
Lumileds Rebel(ES)/Luxeon T  
Nichia NCS19A/ NVS19A/B  
LGInnotek H35C1  
Samsung LH351A/ B/ Z  
Seoul MJT2525/ 3030/ 4040  
/Z8Y15/19

## LL01LU-AEV50150L02

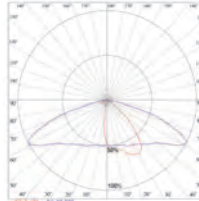
Brightness Asymmetrical



Tape available

LxWxH(mm): 18x12.5x6.3  
FWHM : 50°x150°

(Type II ,Short)



### LED:

Cree XPG/XHP35-HI  
Lumileds Rebel ES/LuxeonA/T  
Nichia NVS19B  
Seoul MJT4040

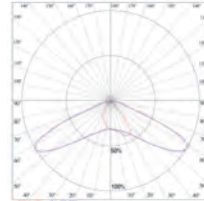
## LL01LU-NI75140L02

Illuminance Asymmetrical



LxWxH(mm): 15.7x14x5.8  
FWHM : 75°x140°

(Type I ,Short)



### LED:

Cree XPE2/XPG2/XBH  
/XHP35-HD(HI)  
Lumileds Rebel  
Samsung LH351A/B/ Z  
LGInnotek H35C1

## LL01CR-APM80150L02

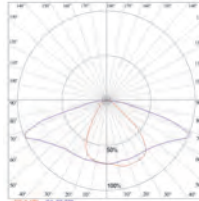
Brightness Asymmetrical



Tape available

LxWxH(mm): 18x12.5x6.95  
FWHM : 80°x150°

(Type II ,Short)



### LED:

Cree XPG2/ XBD/ XTE/ XBH/MHB  
/XPL-HD/XHP35-HD(HI)  
Lumileds Rebel /Luxeon T  
Nichia NVS19A  
Osram Oslon SSL80/Square  
/Duris S8  
Samsung LH351A/ B/ Z  
LGInnotek H35C1  
Seoul MJT2525/ 3030/ 4040/5050  
/Z8Y15/19

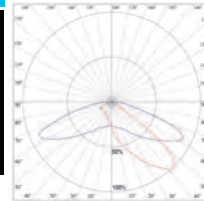
## LL01ED-AU40130L02

Illuminance Asymmetrical



LxWxH(mm): 18.95x14.8x8.25  
FWHM : 40°x130°

(Type II ,Short)



### LED:

Edison 1LA5

## LL01ZZ-AGX45155L02

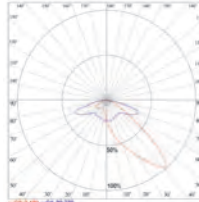
Brightness Asymmetrical



Tape available

LxWxH(mm): 18x12.5x7  
FWHM : 70°x135°

(Type III ,Short)



### LED:

Cree XPE2(G2)/XBH/XHP35-HI  
Lumileds Rebel(ES)/Luxeon A/ T  
Nichia NCS19A/ NVS19A  
Samsung LH351A/ B/ Z  
LGInnotek H35A/ H35C1  
Seoul MJT2525/3030/Z8Y15/19

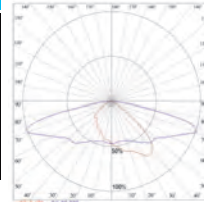
## LL01ED-ZP55140L02

Brightness Asymmetrical



LxWxH(mm): 19.15x10.8x9.4  
FWHM : 55°x140°

(Type II ,Short)

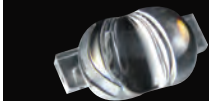


### LED:

Edison 1LA5

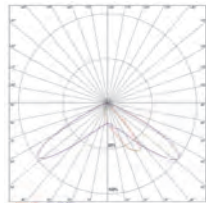
### LL01ED-LP70130L02

Illuminance Asymmetrical



LxWxH(mm): 20x11.7x6.9  
FWHM : 70°x130°

(Type II ,Short)



LED:  
Edison 1LA5

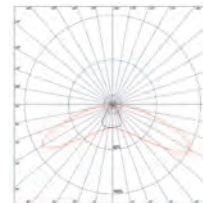
### LL01ED-AU70135L02

Illuminance Symmetrical



LxWxH(mm): 24x12.3x9.2  
FWHM : 70°x135°

(Type II ,Short)



LED:  
Edison 1LA5

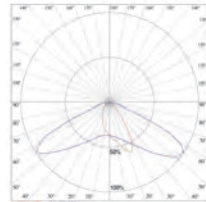
### LL01GX-JR60130L02

Illuminance Brightness Asymmetrical



LxWxH(mm): 21x11x9.3  
FWHM : 60°x130°

(Type I ,Short)



LED:  
Edison 1LA5

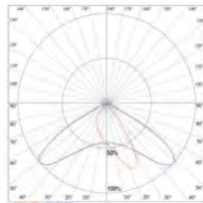
### LL01SH-AU75135L02

Illuminance Symmetrical



LxWxH(mm): 24x13.2x9.6  
FWHM : 75°x135°

(Type II ,Short)



LED:  
Edison 1LA5

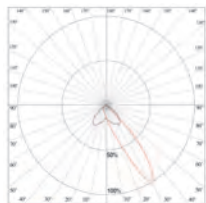
### LL01CR-AEC30140L02

Brightness Illuminance Asymmetrical



LxWxH(mm): 22x19x10  
FWHM : 30°x140°

(Type I ,Short)



LED:  
Cree XML

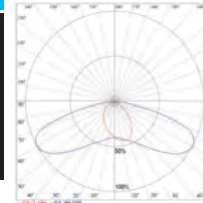
### LL01SX-ADD60135L02

Brightness Illuminance Asymmetrical



LxWxH(mm): 25.7x16.3x11.4  
FWHM : 60°x135°

(Type II ,Short)



LED:  
Cree MHB  
Samsung LH934A

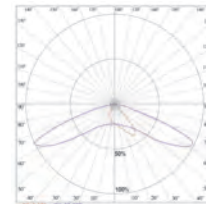
### LL01CR-PB70140L02

Illuminance Asymmetrical



LxWxH(mm): 22.4x11.4x6.9  
FWHM : 70°x140°

(Type I ,Short)



LED:  
Cree XPE2/XPG2/XTE/XBD/XBH  
/XPL-HD/XHP35-HD(HI)  
Nichia NVS19B  
LGInnotek H35A/ H35C1  
Osram Oslon Square  
Samsung LH351A/ B/ Z  
Seoul MJT2525/ 3030/ 4040  
/Z8Y15/19

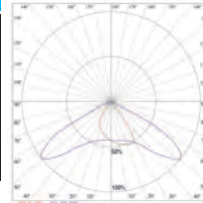
### LL01CR-DL70130L02

Illuminance Asymmetrical Tunnel



LxWxH(mm): 26x12.7x8.65  
FWHM : 70°x130°

(Type I ,Short)



LED:  
Cree XPE/ XPG/ XML2/ XPL-HD

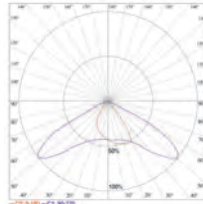
#### LL01CR-DL90120L02

Illuminance Asymmetrical Tunnel



LxWxH(mm): 26x15.8x9.15  
FWHM : 90°x120°

(Type I ,Short)



LED:

Cree XPE/ XPG/ XML2/ XPL-HD  
LGInnotek H35C1  
Osram Ostar

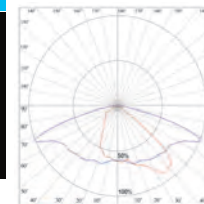
#### LL01LU-AGV80150L02

Brightness Asymmetrical



LxWxH(mm): 32x18.5x9.5  
FWHM : 80°x150°

(Type II ,Short)



LED:

Cree XPL-HD/XM-L2(EZW)  
/MK-R2/XHP50(70)  
Lumileds Luxeon M/ MZ  
Nichia NS9x383  
Osram Ostar/Duris S8

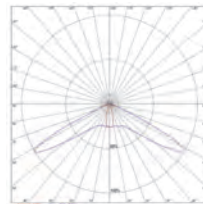
#### LL01ED-AU50130L02

Illuminance Symmetrical



LxWxH(mm): 30x11x11.4  
FWHM : 50°x130°

(Type II ,Short)



LED:

Edison 1LA5

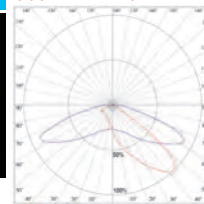
#### LL01ED-AU40130L02

Illuminance Asymmetrical



LxWxH(mm): 18.95x14.8x8.25  
FWHM : 40°x130°

(Type II ,Short)



LED:

Edison 1LA5

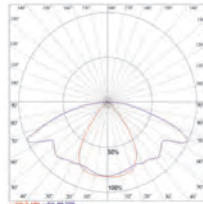
#### LL01OS-AU60130L02

Brightness Illuminance Symmetrical



LxWxH(mm): 30.1x14.3x8.5  
FWHM : 60°x130°

(Type I ,Short)



LED:

Cree XPE2/ XPG/ XBH/ MX3(6)/  
/XPL-HD/XHP35-HD(HI)  
Edison 1LA5  
Lumileds Luxeon T  
Nichia NCS19A/ NVS19A/B  
/183A/757A/D  
Osram DurisS8  
Samsung LH351A/B/ Z  
LGInnotek H35C1

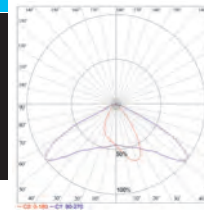
#### LL01ED-AU70120L02

Illuminance Asymmetrical



LxWxH(mm): 94x42x28.4  
FWHM : 70°x120°

(Type I ,Short)



LED:

Cree CXA25xx  
Lextar PB20/30/40  
Bridgelux Vero10/18/29

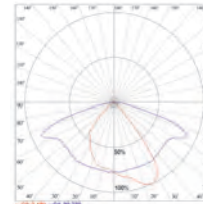
#### LL01CR-XW70140L02

Brightness



LxWxH(mm): 32x17.6x9.8  
FWHM : 70°x140°

(Type I ,Short)



LED:

Cree XPL-HD/XM-L2(EZW)/MHB  
MK-R2/MT-G2/XHP50(70)  
Lumileds Luxeon M  
Nichia NS9x383  
LGInnotek H35C1  
Osram Ostar/Duris S8

#### LL04LZ-NO85140L02

Illuminance Asymmetrical



LxWxH(mm): 160x25x9.55  
FWHM : 85°x140°

(Type II ,Short)

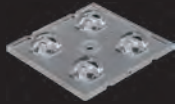


LED:

Edison 1LA5

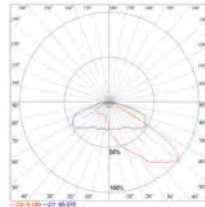
### LL04CR-BXJ45155L02

Brightness Asymmetrical



LxWxH(mm): 50x50x6.95  
FWHM : 45°x155°

(Type III, Short)

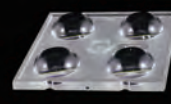


#### LED:

Cree XPE2(G2)/XBH  
Lumileds Rebel / Rebel ES  
Luxeon A(T)  
Nichia NVS19A(B)/ NCS19A  
Samsung LH351A/B/ Z  
LGInnotek H35A/ H35C1  
Seoul MJT2525/ 3030/ 4040  
Z5M1/M2

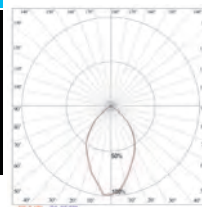
### LL04CR-BXJ60L02

Brightness Asymmetrical



LxWxH(mm): 50x50x7.3  
FWHM : 60°

(Type V, Short)



#### LED:

Cree XP-E2/XPL-HD/MHB  
Lumileds Luxeon T  
Seoul Z5M1/M2  
Osram Oslon Square

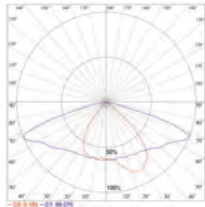
### LL04CR-BXJ80150L02

Brightness Asymmetrical



LxWxH(mm): 50x50x7.05  
FWHM : 80°x150°

(Type II, Short)



#### LED:

Cree XPE2/ XPG2/ XTE/ XBD/  
XBH/ XPL-HD  
Lumileds Rebel/Luxeon T  
Osram Oslon SSL80/Square  
/Duris S8  
Samsung LH351A/ B/ Z  
Seoul MJT2525/ 3030/ 4040/ 5050  
Nichia NVS19A(B)

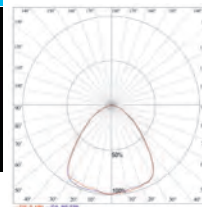
### LL04CR-BXJ90L02

Brightness Asymmetrical



LxWxH(mm): 50x50x7.3  
FWHM : 90°

(Type V, Short)



#### LED:

Cree XP-E2/XPL-HD/MHB  
Lumileds Luxeon T  
Nichia 757A(D)  
Osram Oslon Square  
Seoul Z5M1/M2

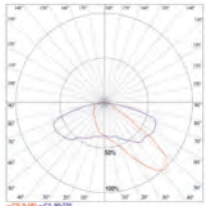
### LL04CR-CFN60155L02

Brightness Asymmetrical



LxWxH(mm): 50x50x7.3  
FWHM : 60°x155°

(Type III, Medium)



#### LED:

Cree XP-E2/XP-G2/XPL-HD  
XHP35-HD  
Lumileds Luxeon T  
Seoul Z5M1/M2

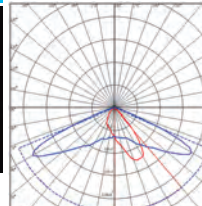
### LL04CR-CGM85135L02

Illuminance Asymmetrical



LxWxH(mm): 50x50x7.3  
FWHM : 85°x155°

(Type II, Short)



#### LED:

Cree XP-E2/XP-G2/XT-E  
/XPL-HD

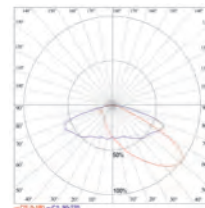
### LL04CR-CFN35155L02

Brightness Asymmetrical



LxWxH(mm): 50x50x6.2  
FWHM : 35°x155°

(Type II, Medium)

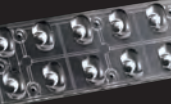


#### LED:

Cree XP-E2/XP-G2/XPL-HD  
XHP35-HD  
Lumileds Luxeon T

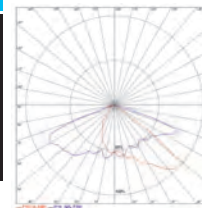
### LL12OS-EL50130L02

Illuminance Asymmetrical



LxWxH(mm): 158.4x50.3x9.1  
FWHM : 50°x130°

(Type I, Short)



#### LED:

Cree MX6

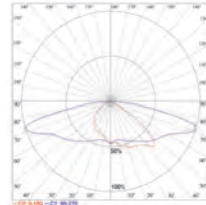
#### LL12ED-VT85160L02

Brightness Asymmetrical



LxWxH(mm): 158x50x9.4  
FWHM : 85°x160°

(Type III ,Short)



LED:

Cree MHB  
Edison 1LA5  
Nichia NVS19A

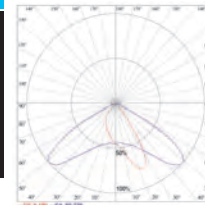
#### LL24CR-AU75135L02

Illuminance Asymmetrical



LxWxH(mm): 120x100x10.2  
FWHM : 75°x135°

(Type I ,Very Short)



LED:

Cree XPE/XPG2/XTE/XML/  
XBD/XPL-HD  
Lumileds Rebel(ES)/ Luxeon A(T)  
Nichia NCS19A/NVS19A(B)  
/757A(D)  
Edison Federal 3045  
Osram Oslon SSL80/ 150/ Square  
LGInnotek H35A  
Seoul Z5M1/M2/Z8Y15/19

Silicon gasket available  
MCPCB available

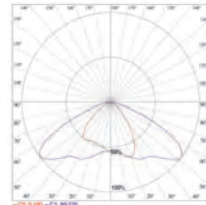
#### LL14LU-ALY90130L19

Brightness Asymmetrical  
Illuminance



LxWxH(mm): 250x60x9.3  
FWHM : 90°x130°

(Type I ,Short)



LED:

Cree XPL-HD  
Lumileds Rebel ES/Luxeon T  
Nichia NVS19B/757A(D)  
Seoul Z5M1/M2/Z8Y15/19

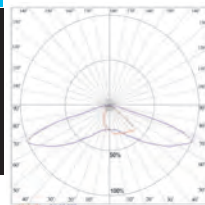
#### LL24OS-JT110150L02

Illuminance Asymmetrical



LxWxH(mm): 126x110x9  
FWHM : 110°x150°

(Type II ,Short)



LED:

Lumileds Rebel/ Rebel ES  
Nichia NVS19B  
Osram Oslon SSL 80/150/Square  
Seoul Z5M1/M2

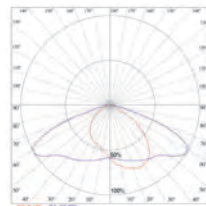
#### LL14CR-AOC65150L02

Brightness Asymmetrical  
Illuminance



LxWxH(mm): 260x80.2x11.7  
FWHM : 65°x150°

(Type II ,Short)



LED:

Cree XTE/ XPL-HD/MHB  
Lumileds Luxeon T  
Osram Oslon SSL 80/150  
/Square  
Seoul Z5M1/M2

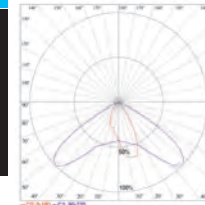
#### LL24LU-JT60120L02

Illuminance Asymmetrical



LxWxH(mm): 126x110x10.5  
FWHM : 60°x120°

(Type II,Short)



LED:

Lumileds Rebel/Rebel ES  
/Luxeon T  
Nichia NVS19B  
Osram Oslon SSL80/150/Square  
Seoul Z5M1/M2

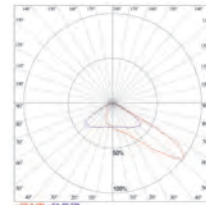
#### LL20CR-VK60140L02

Illuminance Asymmetrical



LxWxH(mm): 319.3x52.3x14.6  
FWHM : 60°x140°

(Type III ,Short)

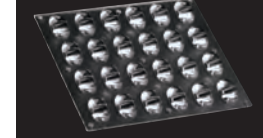


LED:

Cree XPE/ XPG  
Lumileds Luxeon T  
Osram Oslon SSL80/150/Square  
Nichia 757A(D)  
Seoul Z5M1/M2/Z8Y15/19

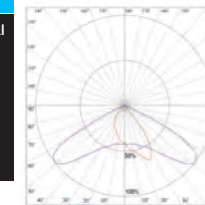
#### LL24ED-AU75135L02

Illuminance Asymmetrical



LxWxH(mm): 135x112x9.6  
FWHM : 75°x135°

(Type I,Very Short)



LED:

Edison 1LA5

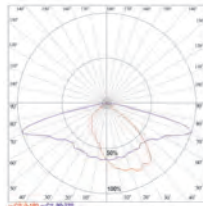
### LL28CR-UI65140L14

Illuminance Asymmetrical



LxWxH(mm): 259.2x79.7x12.2  
FWHM : 65°x140°

(Type II,Medium)

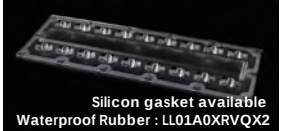


LED:

Cree XP-E(G2)/XT-E/MHB  
/XPL-HD/XM-L2  
Lumileds Rebel ES/Luxeon T  
Nichia NVS19B/ NS9x383  
/757A(D)  
Osram Oslon SSL80/150  
/ Square  
Seoul Z5M1/M2/Z8Y15/19

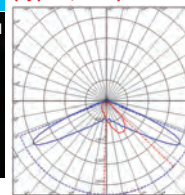
### LL18SE-CBZ50150L51

Brightness Asymmetrical



LxWxH(mm): 199 x 68 x 7.6  
FWHM : 50x150°

(Type I,Short)



LED:

Seoul MJT3030/ 4040/ 5050

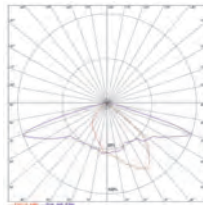
### LL28HT-UI65140L14

Illuminance Asymmetrical



LxWxH(mm): 259.2x79.7x12.2  
FWHM : 65°x140°

(Type II,Short)



LED:

Edison 11A5

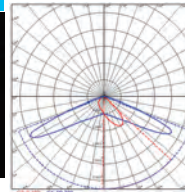
### LL22SE-CBZ50150L51

Brightness Asymmetrical



LxWxH(mm): 238 x 68 x 7.6  
FWHM : 50x150°

(Type I,Short)

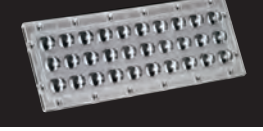


LED:

Seoul MJT3030/ 4040/ 5050

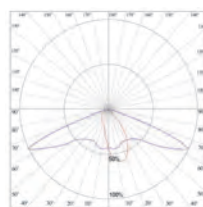
### LL30CR-PT60140L02

Brightness Illuminance Asymmetrical



LxWxH(mm): 235x71x9.4  
FWHM : 60°x140°

(Type I,Short)



LED:

Cree XPE2/ XPG2/ XTE/MHB  
Lumileds Luxeon T  
Nichia NVS19B/ NS9x383  
Osram Oslon SSL80/150  
/Square  
LGInnotek H35A  
Seoul Z5M1/M2

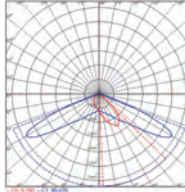
### LL28SE-CBZ50150L51

Brightness Asymmetrical



LxWxH(mm): 158.3 x 98.03 x 7.6  
FWHM : 50x150°

(Type I,Short)



LED:

Seoul MJT3030/ 4040/ 5050

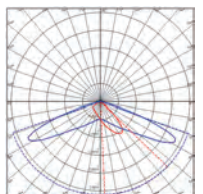
### LL16SE-BQL45145L51

Brightness Asymmetrical



LxWxH(mm): 135x112x9.6  
FWHM : 45x145°

(Type I,Short)



LED:

Seoul MJT3030/ 4040/ 5050

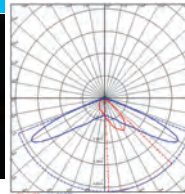
### LL36SE-CBZ50150L51

Brightness Asymmetrical



LxWxH(mm): 188 x 98 x 7.6  
FWHM : 50x150°

(Type I,Short)



LED:

Seoul MJT3030/ 4040/ 5050

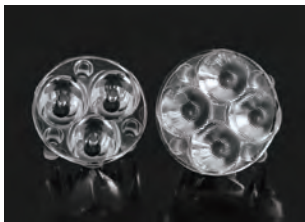


Lens Application

## Indoor Lighting

Multi Lens

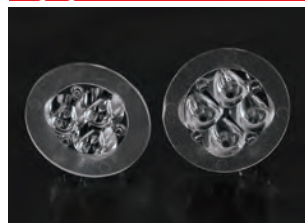
## DM/DN Series

**LED:**

Cree XPE/ XPG  
 Edison Federal  
 Lumileds Rebel / Luxeon A  
 Nichia NVS19A  
 Osram Oslon 80  
 Seoul Z5

| Part Number    | Type   | DxH(mm)   | FWHM        |
|----------------|--------|-----------|-------------|
| LL03LU-DMxxL06 | 3 in 1 | 23.1x11   | 15° 25° 40° |
| LL04LU-DNxxL06 | 4 in 1 | 25.4x10.5 |             |

## QQ Series

**LED:**

Cree XPE/ XPG  
 Edison Federal 3045  
 Lumileds Rebel / Rebel ES  
 Nichia NVS19A / NVS19B  
 Osram Oslon 80  
 Seoul Z5

| Part Number    | Type   | DxH(mm) | FWHM |
|----------------|--------|---------|------|
| LL03NI-QQxxL06 | 3 in 1 | 35x10.5 | 15°  |
| LL04NI-QQxxL06 | 4 in 1 | 35x10.5 |      |

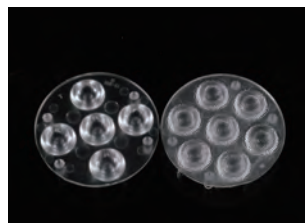
## DO Series

**LED:**

Cree XPE/ XPG  
 Edison Federal  
 Lumileds Rebel / Luxeon A  
 Nichia NVS19A  
 Osram Oslon 80 / Square  
 Seoul Z5

| Part Number    | Type   | DxH(mm) | FWHM        |
|----------------|--------|---------|-------------|
| LL03LU-DOxxL06 | 3 in 1 | 35x10.6 | 15° 25° 40° |
| LL04LU-DOxxL06 | 4 in 1 | 35x10.4 |             |

## BFR Series

**LED:**

Cree XTE  
 Nichia NVS19B / 757A

| Part Number     | Type | DxH(mm)  | FWHM        |
|-----------------|------|----------|-------------|
| LL05CR-BFRxxL06 | 5in1 | 35.8x6.3 | 25° 40° 60° |
| LL07CR-BFRxxL06 | 7in1 |          |             |

## RX Series

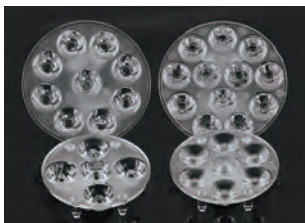


| Part Number    | Type  | DxH(mm) | FWHM        |
|----------------|-------|---------|-------------|
| LL03CR-RXxxL06 | 3in1  | 35x9.6  | 25° 40° 60° |
| LL04CR-RXxxL06 | 4in1  | 35x9.7  |             |
| LL06CR-RXxxL06 | 6in1  | 50x9.65 |             |
| LL07CR-RXxxL06 | 7in1  | 50x10.3 | 40° 60°     |
| LL09CR-RXxxL06 | 9in1  | 70x10.3 |             |
| LL12CR-RXxxL06 | 12in1 | 70x10.3 |             |

**LED:**

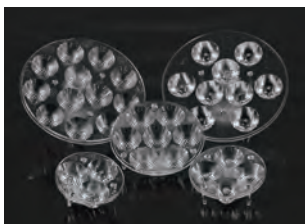
Cree XPE/ XPG/ XPG2 / XTE/ XBD  
 Edison Federal 3045/3535  
 Lumileds Rebel / Rebel ES / Luxeon A  
 Nichia NCS19A/NVS19B  
 Osram Oslon 80

## FR Series



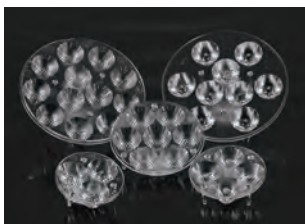
| Part Number    | Type  | DxH(mm)            | FWHM        | LED:                       |
|----------------|-------|--------------------|-------------|----------------------------|
| LL05CR-FRxxL06 | 5in1  | 35.8x6.5           | 25° 40° 60° | Cree XPE<br>Edison Federal |
| LL07CR-FRxxL06 | 7in1  | 35.8x6.5           |             |                            |
| LL09CR-FRxxL06 | 9in1  | 45x7 / 45X6.8(60°) |             |                            |
| LL12CR-FRxxL06 | 12in1 | 45x7 / 45X6.8(60°) |             |                            |

## ED-GK Series



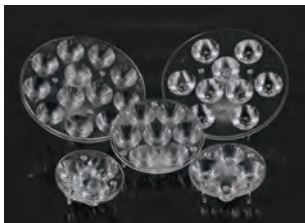
| Part Number    | Type  | DxH(mm)                | FWHM        | LED:                                                                                             |
|----------------|-------|------------------------|-------------|--------------------------------------------------------------------------------------------------|
| LL03ED-GKxxL06 | 3in1  | 33.2x10.2              | 25° 40° 60° | Cree XPE/ XPG<br>Edison Federal 3045<br>Lumileds Rebel / Rebel ES<br>Nichia NCS19A/NVS19A/NVS19B |
| LL04ED-GKxxL06 | 4in1  | 37x10.3                |             |                                                                                                  |
| LL07ED-GKxxL06 | 7in1  | 47x10.5 / 47x10.2(25°) |             |                                                                                                  |
| LL09ED-GKxxL06 | 9in1  | 67x10.8 / 67x10.2(25°) |             |                                                                                                  |
| LL12ED-GKxxL06 | 12in1 | 67x10.8 / 67x10.2(25°) |             |                                                                                                  |

## OS-GK Series



| Part Number    | Type  | DxH(mm)  | FWHM            | LED:                                                                 |
|----------------|-------|----------|-----------------|----------------------------------------------------------------------|
| LL03OS-GKxxL06 | 3in1  | 33.2x9.8 | 25° 40° 60° 80° | Lumileds Luxeon T<br>Nichia NCS19A/NVS19A<br>Osram Oslon 80 / Square |
| LL04OS-GKxxL06 | 4in1  | 37x9.8   | 40° 60° 80°     |                                                                      |
| LL07OS-GKxxL06 | 7in1  | 47x9.8   |                 |                                                                      |
| LL09OS-GKxxL06 | 9in1  | 67x9.8   |                 |                                                                      |
| LL12OS-GKxxL06 | 12in1 | 67x9.8   |                 |                                                                      |

## UY Series



| Part Number    | Type  | DxH(mm)   | FWHM    | LED:                                                                                             |
|----------------|-------|-----------|---------|--------------------------------------------------------------------------------------------------|
| LL03ED-UYxxL06 | 3in1  | 33.2x10.3 | 40° 60° | Cree XPE/ XPG<br>Edison Federal 3045<br>Lumileds Rebel / Rebel ES<br>Nichia NCS19A/NVS19A/NVS19B |
| LL04ED-UYxxL06 | 4in1  | 37x10.3   |         |                                                                                                  |
| LL07ED-UYxxL06 | 7in1  | 47x10.3   |         |                                                                                                  |
| LL09ED-UYxxL06 | 9in1  | 67x10.3   |         |                                                                                                  |
| LL12ED-UYxxL06 | 12in1 | 67x10.3   |         |                                                                                                  |



Lens Application

## Indoor Lighting

Flood Lighting

LL03ED-CO140L11



DxH(mm):50x2.9  
Full Angle: 140°  
Cree CXA15xx

LL03ED-DA140L11



DxH(mm):50x11.2  
Full Angle: 140°  
Cree CXA15xx

LL01ED-ANM120L40



DxH(mm):188.6x10.4  
Full Angle: 120°  
Nichia 757A

LL01ED-ANQ120L40



DxH(mm):107.5x10  
Full Angle: 120°  
Nichia 757A

LL06ED-CO140L11-M2



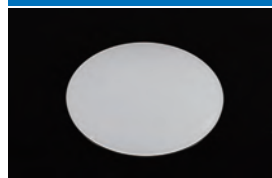
DxH(mm):76x16.2  
Full Angle: 140°  
Edison 1LA5

LL06ED-DA140L11-M2



DxH(mm):76x28.9  
Full Angle: 140°  
Edison 1LA5

LL01ED-ANN120L40



DxH(mm):132.6x10.6  
Full Angle: 120°  
Nichia 757A

LL09ED-CO140L11-M2



DxH(mm):93.9x20.1  
Full Angle: 140°  
Edison 1LA5

LL09ED-DA140L11-M2



DxH(mm):93.9x35.6  
Full Angle: 140°  
Edison 1LA5

LL01ED-ANO120L40



DxH(mm):151.85x10.8  
Full Angle: 120°  
Nichia 757A

LL12ED-CO140L11-M2



DxH(mm):93.9x20.1  
Full Angle: 140°  
Edison 1LA5

LL12ED-DA140L11-M2



DxH(mm):93.9x35.6  
Full Angle: 140°  
Edison 1LA5

LL01ED-ANP120L40



DxH(mm):81.5x8  
Full Angle: 120°  
Nichia 757A



Lens Application

# Outdoor Lighting

Wallwasher Lighting

LL01CR-DF3065L06-M2



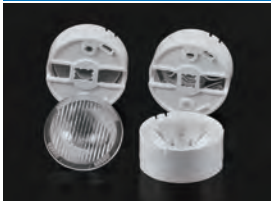
**DxH(mm):**  
13.5x7.35  
**Full Angle:**  
30x65°  
**Cree** XPE/XPB

LL01ED-AO2545L06-M2



**DxH(mm):**  
23.5x17.5  
**Full Angle:**  
25x45°  
**Edison** 1LA5

LL01XP-FL3065L06-M2



**DxH(mm):**  
24.3x11.6  
**Full Angle:**  
30x65°  
**Cree** XPE2/XPB2/XTE  
**Nichia** NVS19A/B / NCS19B

LL01CR-BRxxL06-M2



**DxH(mm):**  
21.5x13.9  
**Full Angle:**  
10x45° 15x50° 15x80° 40x90°  
**Cree** XPE/XPB2

LL01CR-AA2065L06-M2



**DxH(mm):**  
21x12.6  
**Full Angle:**  
20x65°  
**Cree** XPE/XPB

LL01ZZ-EX3065L06-M2



**DxH(mm):**  
22.4x9.63  
**Full Angle:**  
30x65°  
**Cree** XPE/XPB

LL01CR-CNExxL06-M2



**DxH(mm):**  
23.5x15.8  
**Full Angle:**  
10x45° 25x45°  
**Cree** XP-E2/XP-G2/XT-E

LL01NI-BYK2545L19



**DxH(mm):**  
16x8  
**Full Angle:**  
25x45°  
**Cree** XPE2 / XPB 2  
**Nichia** NVS19B / NCS19B / 757D

LL01OS-BFV1040L06



**DxH(mm):**  
20.8x12.35  
**Full Angle:**  
10x40°  
**Cree** XPE2 / XPB 2/XTE/XBD / XPL(HI)  
**Osram** OsconSSL80  
**Lumileds** Rebel (ES) / LuxeonZ (ES)  
**Prolight** Phenix3045/3535  
**Samsung** LH351 A/B/Z  
**Seoul** Z5 (P) (M1) (M2) / MJT2525

LL01LU-AFCxxL06



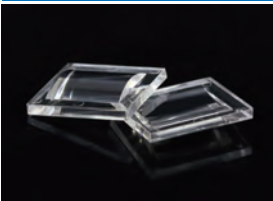
**DxH(mm):**  
19.4x11.8  
**FWHM:**  
10° 15° 25° 30° 10x35° 15x30°  
**Cree** XPE/XPL-HI  
**Lumileds** Rebel  
**Nichia** NVS19B / NCS19B  
**Osram** Oscon SSL80  
**Samsung** LH351B/Z  
**Seoul** Z5(P)(M1)(M2) / MJT2525  
**Prolight** PHENIX3045

LL01NI-DZ2040L06-M2



**DxH(mm):**  
25x13  
**FWHM:**  
20x40°  
**Cree** MX6  
**Nichia** 183A

LL01LU-ABW1050L02



**DxWxH(mm):**  
34x29x3  
**FWHM :**  
10x50°  
**For all single chip LED.**



Lens Application

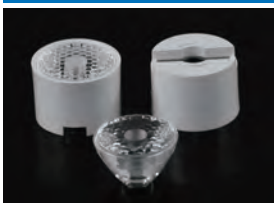
## Stage Lighting

LL01OS-MQxxL06-M2



DxH(mm): 21.05x14.75  
Full Angle: 15° 25° 40° 60°  
Osram OslonSSL80/ Square

LL01ED-CVxxL06-M2



DxH(mm): 21.2x15.1  
FWHM: 15° 25° 45°  
Edison 1LA5

LL01ED-ALxxL06-M2



DxH(mm): 21.3x14  
FWHM: 15°  
Full Angle: 30x65°  
Edison 1LA5

LL01ED-ANxxL06-M2



DxH(mm): 25x13.5  
Full Angle: 25° 15x50°  
Edison 1LA5

LL01ED-AJxxL06-M2



DxH(mm): 31x19.3  
Full Angle: 10° 25° 40° 60°  
Cree MCE color/ XML color  
Edison Federal 5050 color  
Osram Ostar

LL01ED-AKxxL06



DxH(mm): 34.4x18.8  
Full Angle: 25° 40°  
Cree MCE color/ XML color  
Edison Federal 5050 color  
Osram Ostar RGBW

LL01ED-BCQxxL06-M1



DxH(mm): 38.1x20.2  
FWHM: 15°  
Full Angle: 30x65°  
Cree XML color  
Edison Federal 5050 color  
Osram Ostar RGBW

LL01CR-BCQxxL06-M1



DxH(mm): 38.1x20.9  
FWHM: 15°  
Full Angle: 30x65°  
Cree MCE color

LL01CR-ANWxxL06



DxH(mm): 45x26.3  
FWHM: 10° 20° 30°  
Cree MCE color  
Osram Ostar RGBW

LL15ED-BHxxL06



DxH(mm): 95x11.1  
Full Angle: 15° 25° 40°  
Cree XML  
Edison 1LA5

LL18ED-BIxxL06



DxH(mm): 110x13.1  
Full Angle: 15° 25° 40°  
Cree XPE  
Edison 1LA5

LL24ED-ABxxL06



DxH(mm): 174.5x12.5  
Full Angle: 15° 25° 45°  
Cree XPE  
Edison 1LA5

LL36ED-AAxxL06



DxH(mm): 140x12.7  
Full Angle: 15° 25° 45°  
Cree XPE  
Edison 1LA5

LL60ED-BOxxL06



DxH(mm): 180x13.1  
Full Angle: 25° 45°  
Cree XPE  
Edison 1LA5



## ■ ES-ARRAY

| Type      | Part Number       | DxH(mm) | Full Angle | FWHM        | Holder |
|-----------|-------------------|---------|------------|-------------|--------|
| Reflector | LL01BR-TYRxxR34-P | 45x19.4 |            | 24° 34° 50° |        |

## ■ V6

| Type      | Part Number        | DxH(mm)    | Full Angle  | FWHM            | Holder |
|-----------|--------------------|------------|-------------|-----------------|--------|
| Single    | LL01ED-AFDxxL06    | 26x15.5    |             | 15° 20°         |        |
|           | LL01CR-DGxxL06     | 28.8x16.75 | 40° 50° 60° |                 |        |
|           | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°     |                 |        |
|           | LL01ED-ABYxxL02    | 44x14.1    |             | 24°             |        |
|           | LL01CR-AQHxxL02    | 44x14.1    |             | 38° 45°         |        |
|           | LL01CR-PVxxL02     | 45x23.7    | 45° 80°     |                 |        |
| Reflector | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |             | 38°             | V      |
|           | LL01CT-AYTxxR35-P  | 75x45      |             | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |             | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |             | 24° 38°         |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |             | 24° 38°         |        |

## ■ V8

| Type      | Part Number       | DxH(mm)   | Full Angle | FWHM            | Holder |
|-----------|-------------------|-----------|------------|-----------------|--------|
| Single    | LL01ED-AFDxxL06   | 26x15.5   |            | 20°             |        |
|           | LL01ED-AYxxL06    | 43.8x24.5 | 38°        | 10°             |        |
|           | LL01ED-ABYxxL02   | 44x14.1   |            | 24°             |        |
|           | LL01CR-AQHxxL02   | 44x14.1   |            | 38° 45°         |        |
|           | LL01CR-PVxxL02    | 45x23.7   | 45° 80°    |                 |        |
|           | LL01CR-ABHxxL02   | 50x10.4   |            | 40° 60°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13   |            | 38°             |        |
|           | LL01ED-ASAxL02-P  | 90.6x22   |            | 12°             |        |
| Reflector | LL01ED-ASAxL06-P  | 90.6x22   |            | 12°             |        |
|           | LL01CT-AYTxxR35-P | 75x45     |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40     |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50     |            | 24° 38°         |        |
|           | LL01CT-AYXxxR35-P | 90x50     |            | 24° 38°         |        |
|           | LL01SP-ASOxxR49   | 90x50     |            | 24° 38°         |        |

## ■ Vero 10

| Type   | Part Number        | DxH(mm)   | Full Angle  | FWHM    | Holder |
|--------|--------------------|-----------|-------------|---------|--------|
| Single | LL01CR-PVxxL02     | 45x23.7   | 45° 60° 80° |         |        |
|        | LL01ED-AYxxL06     | 43.8x24.5 | 38°         | 10°     |        |
|        | LL01CR-ABHxxL02    | 50x10.4   |             | 40° 60° |        |
|        | LL01CT-BBXxxL06    | 69x22.7   |             | 24° 38° |        |
|        | LL01ZZ-AOFxxL06-M2 | 76.4x16.7 |             | 24° 38° | V      |
|        | LL01CT-APGxxL06-M2 | 90.8x22   |             | 38°     | V      |
|        | LL01ED-ASAxL06-P   | 90.6x22   |             | 38°     |        |
|        | LL01WT-BSSxxL46    | 44x12.2   |             | 24° 32° |        |
|        | LL01CR-BJLxxL02    | 35x12.55  |             | 40°     |        |
|        | LL01CR-AQHxxL02    | 44x14.1   |             | 38° 45° |        |
|        | LL01ED-AKVxxR49    | 50.5x29.5 |             | 36°     |        |
|        | LL01ED-ABYxxL02    | 44x14.1   |             | 24°     |        |

|           |                   |       |  |                 |  |
|-----------|-------------------|-------|--|-----------------|--|
| Reflector | LL01CR-AYGxxR49   | 75x45 |  | 15° 24° 38°     |  |
|           | LL01CT-AYTxxR35-P | 75x45 |  | 15° 24° 38°     |  |
|           | LL01CT-AYXxxR35-P | 90x50 |  | 24° 38°         |  |
|           | LL01SP-ASOxxR49   | 90x50 |  | 15° 24° 38° 55° |  |
|           | LL01SP-ATHxxR49   | 75x40 |  | 24°             |  |

## ■ Vero 13

| Type      | Part Number        | DxH(mm)    | Full Angle  | FWHM            | Holder |
|-----------|--------------------|------------|-------------|-----------------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |             | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |             | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |             | 24° 38°         |        |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |             | 24° 38°         | V      |
|           | LL01CR-CEWxxL02    | 50x15      |             | 12° 24° 38°     |        |
|           | LL0 1WT-BSSxxL46   | 44x12.2    |             | 24° 32°         |        |
|           | LL01CR-PVxxL02     | 45x23.7    | 45° 60° 80° |                 |        |
| Reflector | LL01CR-AYGxxR49    | 75x45      |             | 15° 24°         |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |             | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |             | 15° 38°         |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |             | 24° 38°         |        |
|           | LL01SP-ASOxxR49    | 90x50      |             | 15° 24° 38° 55° |        |
|           | LL01ZZ-AAAxL49     | 70x35      |             | 24° 38° 55°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |             | 15° 24° 38°     |        |

## ■ Vero 18

| Type            | Part Number        | DxH(mm)    | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|------------|------------|------------------------|--------|
| Single          | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°                | V      |
|                 | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°                |        |
|                 | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°                |        |
|                 | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°                |        |
|                 | LL01CT-AZWxxL02-P  | 76.1x12.7  |            | 24°                    |        |
|                 | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°                | V      |
|                 | LL01ED-ASAxL02-P   | 90.6x22    |            | 12° 24° 38°            |        |
|                 | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°            |        |
| Reflector       | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°            |        |
|                 | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°            |        |
|                 | LL01SP-ATHxxR49    | 75x40      |            | 15° 30° 38°            |        |
|                 | LL01ED-AKAxxR49    | 85x23.5    |            | 60°                    |        |
|                 | LL01CR-AYMxxR35-P  | 90x 50     |            | 15° 24° 38°            |        |
|                 | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°            |        |
| Street Lighting | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55°        |        |
|                 | LL01ED-AU70120L02  | 94x42x28   |            | 70x120°<br>(Asymmetry) |        |

## ■ Vero 29

| Type            | Part Number       | DxH(mm)  | Full Angle | FWHM                 | Holder |
|-----------------|-------------------|----------|------------|----------------------|--------|
| Street Lighting | LL01ED-AU70120L02 | 94x42x28 |            | 70x120°<br>Asymmetry |        |



## CLL010

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM        | Holder |
|-----------|-------------------|------------|------------|-------------|--------|
| Single    | LL01CR-ABGxxL02   | 34x15.7    |            | 38° 55°     |        |
|           | LL01ED-ABYxxL02   | 44x14.1    |            | 24°         |        |
|           | LL01CR-AQHxxL02   | 44x14.1    |            | 38° 45°     |        |
|           | LL01CR-DGxxL06    | 28.8x16.75 | 20° 50°    | 30° 40° 60° |        |
|           | LL01ED-AYxxL06    | 43.8x24.5  | 38°        | 10°         |        |
|           | LL01CR-BJLxxL02   | 35x12.55   |            | 40°         |        |
|           | LL01WT-BSSxxL46   | 44x12.2    |            | 24° 32°     |        |
| Reflector | LL01BR-TYRxxR34-P | 45x19.4    |            | 24° 34° 50° |        |
|           | LL01CT-AJZxxR49   | 50x19      |            | 36° 50°     |        |
|           | LL01CT-AMXxxR49   | 44x11.8    |            | 45°         | V      |
|           | LL01ED-AJMxxR49   | 35.2x7.8   |            | 24° 38°     |        |

## CLL020/022

| Type      | Part Number        | DxH(mm)    | Full Angle  | FWHM        | Holder |
|-----------|--------------------|------------|-------------|-------------|--------|
| Single    | LL01CR-ABHxxL02    | 50x10.4    |             | 60°         |        |
|           | LL01CR-BAYxxL06    | 75.8x22.5  |             | 24° 38°     |        |
|           | LL01CR-PVxxL02     | 45x23.7    | 45° 60° 80° |             |        |
|           | LL01ZZ-AOFxxL06-M2 | 74.4x13    |             | 24° 38°     | V      |
|           | LL01CT-AZWxxL02-P  | 76.1x12.7  |             | 24° 38°     | V      |
|           | LL01CT-BBXxxL06    | 69x22.7    |             | 24° 38°     |        |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |             | 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |             | 12° 24° 38° |        |
|           | LL01ED-AYxxL06     | 43.8x24.5  | 38°         | 10°         |        |
|           | LL01CT-BBXxxL06    | 69x22.7    |             | 24° 38°     |        |
|           | LL01CR-BJLxxL02    | 35x12.55   |             | 40°         |        |
| Reflector | LL01WT-BSSxxL46    | 44x12.2    |             | 24° 32°     |        |
|           | LL01BR-TYRxxR34-P  | 45x19.4    |             | 24° 34° 50° |        |
|           | LL01CT-AJZxxR49    | 50x19      |             | 36° 50°     |        |
|           | LL01CT-ALNxxR49    | 75.8x20.1  |             | 38° 45°     | V      |
|           | LL01CT-AMXxxR49    | 44x11.8    |             | 45°         |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |             | 15° 24° 38° | V      |
|           | LL01ED-AKVxxR49    | 50.5x29.5  |             | 36°         |        |
|           | LL01ED-AKYxxR49    | 50x30      |             | 38° 45°     |        |
|           | LL01ED-ALAxR49     | 75x20.1    |             | 24° 38°     |        |
|           | LL01ED-ALJxxR49    | 50x19      |             | 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75x40      |             | 15° 24° 38° |        |
|           | LL01TJ-AONxxR49    | 50x20      |             | 60°         |        |
|           | LL01ZZ-AAAxL49     | 70x35      |             | 24° 38° 55° |        |

## CLL030/032

| Type      | Part Number               | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|---------------------------|------------|------------|-----------------|--------|
| Single    | LL01CR-ABHxxL02           | 50x10.4    |            | 40° 60°         |        |
|           | LL01CR-BAYxxL06           | 75.8x22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06           | 75.8x23    |            | 24° 38°         |        |
|           | LL01CT-APGxxL06-M2        | 90.8x22    |            | 24° 38°         | V      |
|           | LL01CT-AZNxxL02-P         | 88.5x15    |            | 15° 24° 38°     | V      |
|           | LL01ED-ABXxxL06           | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL02-P          | 90.6x22    |            | 12° 24°         |        |
| Reflector | LL01ED-ASAxL06-P          | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01BR-TYRxxR34-P         | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P            | 50x30      |            | 20° 33° 45°     | V      |
|           | LL01CT-ALOXxxR49          | 90.5x23.2  |            | 24° 38° 55°     | V      |
|           | LL01CT-AYXxxR35-P         | 90x50      |            | 15° 24° 38°     | V      |
|           | LL01ED-AKAXxxR49          | 85x23.5    |            | 60°             |        |
|           | LL01ED-AKXxxR49           | 116x32     |            | 24° 38°         |        |
|           | LL01ED-ALAxR49            | 75x20.1    |            | 24° 38°         |        |
|           | LL01ED-ALJxxR49           | 91.5x23.2  |            | 24° 38° 45°     |        |
|           | LL01SP-ASOXxxR49          | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01ZZ-AAAxL49            | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CT-BKYxxR49-BLBxxxL51 | 93x35      |            | 15° 24° 36° 75° |        |

## CLL040/042

| Type   | Part Number      | DxH(mm)    | Full Angle | FWHM        | Holder |
|--------|------------------|------------|------------|-------------|--------|
| Single | LL01CT-AMYxxL06  | 75.8x23    |            | 24° 38°     |        |
|        | LL01ED-ABXxxL06  | 75.8x24.35 |            | 24° 38°     |        |
|        | LL01ED-ASAxL06-P | 90.6x22    |            | 12° 24° 38° |        |



## ■ CLL430

| Type      | Part Number       | DxH(mm)   | Full Angle  | FWHM        | Holder |
|-----------|-------------------|-----------|-------------|-------------|--------|
| Single    | LL01CR-ABHxxL02   | 50x10.4   |             | 60°         |        |
|           | LL01CR-PVxxL02    | 45x23.7   | 45° 60° 80° |             |        |
|           | LL01CT-AOFxxL06   | 74.4x13   |             | 24° 38°     |        |
|           | LL01ED-ASAxxL06-P | 90.6x22   |             | 12° 24° 38° |        |
|           | LL01ED-AYxxL06    | 43.8x24.5 | 38°         | 10°         |        |
| Reflector | LL01BR-TYRxxR34-P | 45x19.4   |             | 24° 34° 50° |        |
|           | LL01CT-AJZxxR49   | 50x19     |             | 38° 55°     |        |
|           | LL01CT-ALNxxR49   | 75.8x20.1 |             | 38° 45°     |        |
|           | LL01CT-AMXxxR49   | 44x11.8   |             | 45°         |        |
|           | LL01CT-AYTxxR35-P | 75x45     |             | 15° 24° 38° |        |
|           | LL01ED-AKVxxR49   | 50.5x29.5 |             | 36°         |        |
|           | LL01ED-AKYxxR49   | 50x30     |             | 38° 45°     |        |
|           | LL01ED-ALAxR49    | 75x20.1   |             | 24° 38°     |        |
|           | LL01ED-ALlxxR49   | 50x19     |             | 24° 38° 55° |        |
|           | LL01SP-ATHxxR49   | 75x40     |             | 15° 24° 38° |        |
|           | LL01TJ-AONxxR49   | 50x20     |             | 60°         |        |
|           | LL01ZZ-AAAxL49    | 70x35     |             | 24° 38° 55° |        |

## ■ CLU700

| Type   | Part Number     | DxH(mm) | Full Angle | FWHM        | Holder |
|--------|-----------------|---------|------------|-------------|--------|
| Single | LL01CR-CEWxxL02 | 50x15   |            | 12° 24° 38° |        |
|        | LL01CR-CHQxxL02 | 35X10.5 |            | 24° 38°     |        |
|        | LL01CR-ABHxxL02 | 50x10.4 |            | 40° 60°     |        |
|        | LL01CR-PVxxL02  | 45x23.7 |            | 45° 60° 80° |        |

## ■ CLU710

| Type   | Part Number       | DxH(mm)   | Full Angle | FWHM            | Holder |
|--------|-------------------|-----------|------------|-----------------|--------|
| Single | LL01CR-CENxxL02   | 70x17.5   |            | 24°             |        |
|        | LL01CT-AZWxxL02-P | 76.1x12.7 |            | 12° 15° 24° 38° |        |
|        | LL01CR-ABHxxL02   | 50x10.4   |            | 40° 60°         |        |
|        | LL01CR-PVxxL02    | 45x23.7   |            | 45° 60° 80°     |        |

## ■ CLU720

| Type   | Part Number       | DxH(mm)   | Full Angle | FWHM            | Holder |
|--------|-------------------|-----------|------------|-----------------|--------|
| Single | LL01CR-CENxxL02   | 70x17.5   |            | 24°             |        |
|        | LL01CT-AZWxxL02-P | 76.1x12.7 |            | 12° 15° 24° 38° |        |
|        | LL01CR-ABHxxL02   | 50x10.4   |            | 40° 60°         |        |
|        | LL01CR-PVxxL02    | 45x23.7   |            | 45° 60° 80°     |        |
|        | LL01ED-ASAxxL06-P | 90.6x22   |            | 12° 24° 38°     |        |

## ■ XHP35-HI

| Type   | Part Number        | DxH(mm) | Full Angle | FWHM | Holder |
|--------|--------------------|---------|------------|------|--------|
| Single | LL01CR-BLUxxL06    | 35x20   |            | 3°   |        |
|        | LL01ZZ-AHAxxL06-M2 | 50x25.4 |            | 5°   | V      |

## ■ XHP35-HD

| Type            | Part Number        | DxH(mm)     | Full Angle             | FWHM                   | Holder |
|-----------------|--------------------|-------------|------------------------|------------------------|--------|
| Single          | LL01CR-NExxL06     | 19.4x14.7   | 17°                    |                        |        |
|                 | LL01NI-ANExxL02    | 19.4x14.94  |                        | 10° 20° 30°            |        |
|                 | LL01CR-BLUxxL06    | 35x20       |                        | 3°                     |        |
|                 | LL01CR-DGxxL06     | 28.8x16.6   | 20° 30° 40°<br>50° 60° |                        |        |
| Street Lighting | LL01LU-AGV80150L02 | 32x18.5x9.5 |                        | 80x150°<br>(Asymmetry) |        |

## ■ XPL-HI

| Type   | Part Number     | DxH(mm)    | Full Angle                                  | FWHM                | Holder |
|--------|-----------------|------------|---------------------------------------------|---------------------|--------|
| Single | LL01CR-AAFxxL02 | 11.8x6.65  |                                             | 25°                 |        |
|        | LL01NI-AAFxxL02 | 11.8x6.5   |                                             | 45°                 |        |
|        | LL01CR-BDFxxL06 | 11.8x6.45  |                                             | 40° 60° 30x70°      |        |
|        | LL01OS-BDFxxL06 | 11.8x6.45  |                                             | 25°                 |        |
|        | LL01CR-DFxxL06  | 11.8x6.5   | 80° 100° 30x65°                             |                     |        |
|        | LL01LU-AFCxxL06 | 19.4x11.8  |                                             | 10x35° 15x30°       |        |
|        | LL01OS-AFCxxL06 | 19.4x11.43 |                                             | 10° 15° 25° 30° 50° |        |
|        | LL01NI-ANExxL02 | 19.4x14.94 |                                             | 10° 20° 30°         |        |
|        | LL01CR-BNExxL06 | 19.4x14.6  | 25° 40° 60°<br>35x70°                       |                     |        |
|        | LL01CR-NExxL06  | 19.4x14.7  | 15° 17° 25°<br>40° 60° 80°<br>10x45° 25x45° |                     |        |
|        | LL01OS-BFVxxL06 | 20.8x12.35 |                                             | 15° 25° 30° 10x40°  |        |
|        | LL01CR-BEXxxL06 | 20.9x9.2   | 25° 40° 60°                                 |                     |        |
|        | LL01ZZ-EXxxL06  | 21x9.15    | 10° 25° 40° 60°<br>30x65°                   |                     |        |
|        | LL01ZZ-AFLxxL02 | 22.2x10.4  |                                             | 35° 70°             |        |
|        | LL01ZZ-FLxxL06  | 22.2x10.6  | 10° 25° 40° 60°<br>30x65°                   |                     |        |
|        | LL01CR-XSxxL06  | 22.2x10.6  | 40°                                         |                     |        |
|        | LL01CR-BLUxxL06 | 35x20      |                                             | 3°                  |        |
|        | LL01ZZ-AHAxxL06 | 50x25.4    |                                             | 5°                  |        |
|        | LL01CI-WNxxL02  | 72x12.9    |                                             | 40°                 |        |
|        | LL01CI-WMxxL02  | 92.5x27.5  |                                             | 40°                 |        |
|        | LL01ED-IHxxL02  | 87x44.25   | 60°                                         |                     |        |





XHP50



XHP70



XBH



■ XHP50

| Type            | Part Number        | DxH(mm)     | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|-------------|-------------|------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7     |             | 24° 38°                |        |
|                 | LL01CR-AQHxxL02    | 44x14.1     |             | 38° 45°                |        |
|                 | LL01CR-ADGxxL06-M2 | 28.8x16.75  |             | 12° 24° 36°            | V      |
|                 | LL01CR-PVxxL02-M2  | 45x23.7     | 45° 60° 80° |                        | V      |
|                 | LL01CR-WlxxL02-M2  | 28.8x17.4   | 25° 40°     |                        | V      |
|                 | LL01CR-ZExxL02     | 35x20.4     | 20° 30° 45° |                        |        |
|                 | LL01ED-ABYxxL02    | 44x14.1     |             | 24°                    |        |
|                 | LL01ED-AFDxxL06    | 26x15.5     |             | 15° 20°                |        |
|                 | LL01ED-AJxxL06     | 28.9x19.35  | 25° 40° 60° |                        |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8   | 25° 40°     |                        |        |
|                 | LL01ED-BCQxxL06-M1 | 34.75x19.25 |             | 15°                    | V      |
|                 | LL01ED-PMxxL06     | 34.5x18.6   | 25°         |                        |        |
| 6 in 1          | LL06ED-BExxL06     | 43.9x8.6    | 25°         |                        |        |
|                 | LL06CR-AXNxxL06-M2 | 76X13       |             | 25°                    | V      |
|                 | LL06CR-AXMxxL06-M2 | 76X13       |             | 15° 25° 35°            | V      |
|                 | LL06CR-AXLxxL06-M2 | 76X13       |             | 25°                    | V      |
| Street Lighting | LL01LU-AGV80150L02 | 32x18.5x9.5 |             | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32x17.6x9.8 |             | 70x140°<br>(Asymmetry) |        |

■ XHP70

| Type            | Part Number        | DxH(mm)     | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|-------------|-------------|------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7     |             | 24° 38° 55°            |        |
|                 | LL01CR-BGSxxL06    | 34x15.7     |             | 24°                    |        |
|                 | LL01CR-AQHxxL02    | 44x14.1     |             | 38° 45°                |        |
|                 | LL01ED-ABYxxL02    | 44x14.1     |             | 24°                    |        |
|                 | LL01CR-PVxxL02     | 45x23.7     | 45° 60° 80° |                        |        |
|                 | LL01CR-ZExxL02     | 35x20.4     | 20° 30° 45° |                        |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8   | 25° 40°     |                        |        |
|                 | LL01ED-AYxxL06     | 43.8x24.5   | 38°         | 10°                    |        |
|                 | LL01ED-FGxxL06     | 43.8x24.5   | 38°         | 10°                    |        |
|                 | LL01ED-PMxxL06     | 34.5x18.6   | 25° 45°     |                        |        |
|                 | LL01CR-CHQxxL02    | 35x10.5     |             | 38°                    |        |
| Street Lighting | LL01LU-AGV80150L02 | 32x18.5x9.5 |             | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32x17.6x9.8 |             | 70x140°<br>(Asymmetry) |        |

■ XBH

| Type   | Part Number        | DxH(mm)    | Full Angle                         | FWHM        | Holder |
|--------|--------------------|------------|------------------------------------|-------------|--------|
| Single | LL01CR-ADTxxL06    | 35x10.65   |                                    | 30°         |        |
|        | LL01CR-BDFxxL06-M2 | 11.8x6.50  |                                    | 40° 60°     | V      |
|        | LL01CR-BEXxxL06-M2 | 20.9x9.2   |                                    | 25° 40° 60° | V      |
|        | LL01CR-BNExxL06-M2 | 19.4x14.6  |                                    | 25° 40° 60° | V      |
|        | LL01CR-BRxxL06     | 19.65x12.5 | 40° 10x45° 15x50°<br>15x80° 40x90° |             |        |
|        | LL01CR-DFxxL06     | 11.8x6.5   | 60° 80° 100° 30x65°                |             |        |
|        | LL01CR-DGxxL06     | 28.8x16.6  | 20° 30° 40° 50° 60°                |             |        |
|        | LL01CR-HQxxL06     | 14.8x9.5   | 30° 40° 60° 80°                    |             |        |
|        | LL01CR-NExxL06     | 19.4x14.7  | 25° 40° 60° 80°<br>10x45° 25x45°   |             |        |
|        | LL01CR-OTxxL06     | 15x9.6     | 40° 60° 80°                        |             |        |
|        | LL01CR-WlxxL02     | 28.8x17.4  | 25° 40°                            |             |        |
|        | LL01CR-XSxxL06     | 22.2x10.6  | 40°                                |             |        |
|        | LL01ED-AJxxL06     | 28.9x19.7  | 25° 40° 60°                        |             |        |
|        | LL01ED-AKxxL06     | 34.5x18.8  | 40°                                |             |        |
|        | LL01ED-ANxxL06     | 22.6x9.6   | 15x50°                             |             |        |
|        | LL01ED-ASxxR06     | 19.9x10.6  | 38°                                |             |        |
|        | LL01ED-ASxxL06     | 19.9x10.6  | 60°                                |             |        |
|        | LL01ED-FMxxL06     | 19.9x10.55 | 38°                                |             |        |
|        | LL01NI-AAFxxL02    | 11.8x6.5   |                                    | 45° 60°     |        |
|        | LL01NI-ANExxL02    | 19.4x15    |                                    | 10° 20° 30° |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 25° 40° 60° 80°                    |             |        |
|        | LL01OS-AXxxL02     | 20x11.5    | 40° 60°                            |             |        |
|        | LL01OS-CBxxL06     | 25.6x10    | 15°                                |             |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 25° 40° 60°                        |             |        |
|        | LL01ZZ-AFLxxL02    | 22.2x10.4  |                                    | 35°         |        |
|        | LL01ZZ-EXxxL06     | 21x9.1     | 25° 40° 60° 30x65°                 |             |        |
|        | LL01ZZ-FLxxL06     | 22.2x10.6  | 10° 40° 60° 30x65°                 |             |        |

# XPL-HD

| Type   | Part Number        | DxH(mm)    | Full Angle                                | FWHM                 | Holder | Type            | Part Number        | DxH(mm)         | Full Angle | FWHM                   | Holder |
|--------|--------------------|------------|-------------------------------------------|----------------------|--------|-----------------|--------------------|-----------------|------------|------------------------|--------|
| Single | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                                           | 45°                  | V      | 4 in 1          | LL04CR-CECxxL06    | 50x8.5          |            | 25° 50°                |        |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                                           | 25° 10x35°<br>15x30° | V      | 6 in 1          | LL06ED-BExxL06     | 43.9x8.6        | 25°        |                        |        |
|        | LL01NI-UDxxL02-M2  | 21.4x15.8  |                                           | 10° 20° 30° 55°      | V      |                 | LL06CR-AXNxxL06-M2 | 76x13           |            | 25°                    | V      |
|        | LL01CR-AOxxL06     | 19.4x13.45 | 60°                                       |                      |        |                 | LL06CR-AXMxxL06-M2 | 76x13           |            | 15° 25° 35°            | V      |
|        | LL01ED-AOxxL06     | 19.4x13.45 | 60° 80°                                   |                      |        |                 | LL06CR-AXLxxL06-M2 | 76x13           |            | 25°                    | V      |
|        | LL01NI-NExxL06-M2  | 21.4x15.8  | 10x45° 25x45°<br>25° 60° 80°              |                      | V      | Street Lighting | LL01CR-DL70130L02  | 26x12.7x8.65    |            | 70x130°<br>(Asymmetry) |        |
|        | LL01CR-SQxxL06     | 19.4x12.6  | 40° 60° 80°                               |                      |        |                 | LL01CR-DL90120L02  | 26x15.8x9.15    |            | 90x120°<br>(Asymmetry) |        |
|        | LL01CR-YJxxL02     | 19.4x12.7  | 40° 60° 80° 100°                          |                      |        |                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |            | 70x130°<br>(Asymmetry) |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 25° 40° 60° 80°                           |                      |        |                 | LL01CR-PB70140L02  | 22.4x11.4x6.9   |            | 70x140°<br>(Asymmetry) |        |
|        | LL01CR-QGxxL06-M2  | 21.1x12.4  | 15° 45°                                   |                      | V      |                 | LL01LU-AIK45135L02 | 18x12.5x7.05    |            | 45x135°<br>(Asymmetry) |        |
|        | LL01CR-BR1045L06   | 19.65x12.5 | 30° 40° 10x45°<br>15x50°<br>15x80° 40x90° |                      |        |                 | LL01OS-AU60140L02  | 16x8.8x5.3      |            | 60x140°<br>(Asymmetry) |        |
|        | LL01ED-ALxxL06     | 19.7x9.9   | 30x65°                                    |                      |        |                 | LL01LU-UQ70140L02  | 18x11x6.6       |            | 70x140°<br>(Asymmetry) |        |
|        | LL01CR-BSxxL06     | 19.8x12.5  | 60°                                       |                      |        |                 | LL01CR-APM80150L02 | 18x12.5x6.95    |            | 80x150°<br>(Asymmetry) |        |
|        | LL01ED-ASxxR06     | 19.9x10.55 | 38° 60°                                   |                      |        |                 | LL01CR-XW70140L02  | 32x17.6x9.8     |            | 70x140°<br>(Asymmetry) |        |
|        | LL01OS-AXxxL02     | 20x11.5    | 20° 40° 60°                               |                      |        |                 | LL01LU-AEV50150L02 | 18x12.5x6.3     |            | 50x150°<br>(Asymmetry) |        |
|        | LL01OS-BFVxxL06    | 20.8x12.35 |                                           | 15° 25° 10x40°       |        |                 | LL01LU-AGV80150L02 | 32x18.5x9.5     |            | 80x150°<br>(Asymmetry) |        |
|        | LL01CR-BExxL06-M2  | 22.4x9.13  |                                           | 40°                  | V      |                 | LL01OS-AU60130L02  | 30.1x14.3x8.5   |            | 60x130°<br>(Symmetry)  |        |
|        | LL01ZZ-EXxxL06-M2  | 22.4x9.63  | 40° 60° 30x65°                            |                      | V      |                 | LL04CR-BXJ80150L02 | 50x50x7.05      |            | 80x150°<br>(Asymmetry) |        |
|        | LL01ZZ-AFLxxL02    | 22.2x10.4  |                                           | 35°                  |        |                 | LL04CR-GM85135L02  | 50x50x6.9       |            | 85x135°<br>(Asymmetry) |        |
|        | LL01ZZ-AHZxxL02    | 22.2x10.6  |                                           | 24° 38°              |        |                 | LL04CR-CFN35155L02 | 50x50x6.5       |            | 35x155°<br>(Asymmetry) |        |
|        | LL01XP-FLxxL06-M2  | 24.3x11.6  | 10° 25° 40° 60°<br>30x65°                 |                      | V      |                 | LL04CR-CFN60155L02 | 50x50x7.3       |            | 60x155°<br>(Asymmetry) |        |
|        | LL01CR-XSxxL06     | 22.2x10.6  | 40°                                       |                      |        |                 | LL04CR-BXJxxL02    | 50x50x7.3       |            | 60° 90°<br>(Symmetry)  |        |
|        | LL01ED-AQxxL06     | 22.5x10.45 | 40°                                       |                      |        |                 | LL24CR-AU75135L02  | 120x100x10.2    |            | 75x135°<br>(Asymmetry) |        |
|        | LL01ED-ANxxL06     | 22.7x9.6   | 15x50°                                    |                      |        |                 | LL14CR-AOC65150L02 | 260x80.2x11.7   |            | 65x150°<br>(Asymmetry) |        |
|        | LL01ED-AFDxxL06    | 26x15.5    |                                           | 15° 20°              |        |                 | LL14LU-ALY90130L19 | 250x60x9.3      |            | 90x130°<br>(Asymmetry) |        |
|        | LL01ED-CYxxL06     | 26.8x20.6  | 10° 30° 45° 30x65°                        |                      |        |                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |            | 65x140°<br>(Asymmetry) |        |
|        | LL01CR-ACZxxL02    | 27.8x10.2  |                                           | 24° 38°              |        |                 |                    |                 |            |                        |        |
|        | LL01XP-DGxxL06-M2  | 32.8x18    | 20° 30° 40° 50° 60°                       |                      | V      |                 |                    |                 |            |                        |        |
|        | LL01CR-WLxxL02     | 28.8x17.4  | 25° 40°                                   |                      |        |                 |                    |                 |            |                        |        |
|        | LL01ED-AJxxL06     | 28.9x19.35 | 25° 40° 60°                               |                      |        |                 |                    |                 |            |                        |        |
|        | LL01ED-ACAxxL14    | 29.9x12.1  |                                           | 38°                  |        |                 |                    |                 |            |                        |        |
|        | LL01ED-CTxxL06     | 31x11.2    | 38° 80°                                   |                      |        |                 |                    |                 |            |                        |        |
|        | LL01ED-ACZxxL02    | 35x10.7    |                                           | 24° 38°              |        |                 |                    |                 |            |                        |        |
|        | LL01CR-AAxxL06-M2  | 21x11.4    | 20x65°                                    |                      | V      |                 |                    |                 |            |                        |        |
|        | LL01ED-FM38L06     | 19.9x10.55 | 38°                                       |                      |        |                 |                    |                 |            |                        |        |
|        | LL01LU-LHxxL06     | 21x9.15    | 15°                                       |                      |        |                 |                    |                 |            |                        |        |
|        | LL01OS-CBxxL06     | 25.6x10    | 15°                                       |                      |        |                 |                    |                 |            |                        |        |
|        | LL01CR-ADTxxL06    | 35x10.65   |                                           | 30°                  |        |                 |                    |                 |            |                        |        |
|        | LL01CR-AVCxxL06    | 28.8x15.95 |                                           | 30°                  |        |                 |                    |                 |            |                        |        |
|        | LL01NI-BYKxxL19    | 16x8       |                                           | 20°                  |        |                 |                    |                 |            |                        |        |
|        | LL01CR-CAXxxL06    | 20.5x20.5  |                                           | 10x90° 25x90°        |        |                 |                    |                 |            |                        |        |





MHB



MHD



XP-E



XP-E2



## MHB

| Type            | Part Number        | DxH(mm)       | Full Angle      | FWHM                   | Holder |
|-----------------|--------------------|---------------|-----------------|------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7       |                 | 24° 38°                |        |
|                 | LL01CR-BEXxxL06    | 9.2x6.8       |                 | 25°                    |        |
|                 | LL01CR-BGSxxL06    | 34x15.7       |                 | 24°                    |        |
|                 | LL01CR-DGxxL06     | 28.8x16.6     | 20° 30° 40° 50° |                        |        |
|                 | LL01CR-WlxxL02     | 28.8x17.4     | 25° 40°         |                        |        |
|                 | LL01CR-XSxxL06     | 22.2x10.6     | 25° 40°         |                        |        |
|                 | LL01CR-ZExxL02     | 35x20.4       | 20° 30° 45°     |                        |        |
|                 | LL01ED-AFDxxL06    | 26x15.5       |                 | 15° 20°                |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8     | 25° 40°         |                        |        |
|                 | LL01CR-BCQxxL06-M1 | 38.1x20.9     |                 | 15° 15x30°             | V      |
|                 | LL01ED-PMxxL06     | 34.5x18.6     | 25° 40°         |                        |        |
|                 | LL01ZZ-AFLxxL02    | 22.2x10.4     | 35° 50° 70°     |                        |        |
|                 | LL01ZZ-EXxxL06     | 20.9x9.2      | 25°             |                        |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6     | 25°             |                        |        |
|                 | LL01CR-PVxxL02-M2  | 47.2x25.65    | 45° 60° 80°     |                        | V      |
|                 | LL01ED-AYxxL06-M2  | 46x27.1       | 38°             | 10°                    | V      |
| Street Lighting | LL01ED-FGxxL06-M2  | 46x27.1       | 38°             | 10°                    | V      |
|                 | LL01ZZ-CPRxxL 46   | 47x8.5        |                 | 24° 38°                |        |
|                 | LL01OS-EL85135L02  | 20.3x12.7x7.4 |                 | 85x135°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32x18.5x9.5   |                 | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32x17.6x9.8   |                 | 70x140°<br>(Asymmetry) |        |
|                 | LL01CR-DL90120L02  | 26x15.8x9.15  |                 | 90x120°<br>(Asymmetry) |        |

## MHD

| Type      | Part Number        | DxH(mm)    | Full Angle  | FWHM        | Holder |
|-----------|--------------------|------------|-------------|-------------|--------|
| Single    | LL01CR-PVxxL02-M2  | 47.2x25.65 | 45° 60° 80° |             | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |             | 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |             | 12° 24° 38° |        |
|           | LL01ED-AYxxL06-M2  | 46x27.1    | 38°         | 10°         | V      |
|           | LL01ED-FGxxL06-M2  | 46x27.1    | 38°         | 10°         | V      |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |             | 24° 38°     | V      |
|           | LL01ED-ACAxL14     | 29.9x12    |             | 24° 38°     |        |
|           | LL01ZZ-CPQxxL 46   | 74.4x13    |             | 24° 38°     |        |
| Reflector | LL01ED-ALlxxR49    | 50x19      |             | 24° 38° 55° |        |

## XP-E / XP-E2

| Type   | Part Number         | DxH(mm)      | Full Angle                               | FWHM                             | Holder |
|--------|---------------------|--------------|------------------------------------------|----------------------------------|--------|
| Single | LL01CR-ABGxxL02     | 34 x 15.7    |                                          | 24°                              |        |
|        | LL01CR-ACZxxL02     | 27.8 x 10.2  |                                          | 24° 38°                          |        |
|        | LL01CR-CRxxL06-M2   | 13.55x7.25   | 40° 60°                                  |                                  | V      |
|        | LL01CR-BEXxxL06     | 20.9 x 9.2   | 40° 60°                                  |                                  |        |
|        | LL01CR-BNExxxL06    | 19.4 x 14.6  | 40° 35x70°                               |                                  |        |
|        | LL01CR-BRxxL06      | 19.65x12.5   | 40° 10x45° 15x50°<br>15x80° 40x90°       |                                  |        |
|        | LL01CR-DFxxL02-M2   | 13.5 x 7.35  | 25° 40° 80° 100°<br>30x65°               |                                  | V      |
|        | LL01XP-DGxxL06-M2   | 32.8x18      | 20° 30° 40° 50° 60°                      |                                  | V      |
|        | LL01CR-HQxxL06-M2   | 16 x 10.3    | 15° 25° 30° 40° 60° 80°<br>25x45°        |                                  | V      |
|        | LL01CR-NExxL06-M2   | 23.5 x 15.8  | 15° 17° 25° 40° 60° 80°<br>10x45° 25x45° |                                  | V      |
|        | LL01CR-OTxxL06-M2   | 16.6x 10.45  | 32° 40° 60° 80°                          |                                  | V      |
|        | LL01CR-SQxxL06      | 19.4 x 12.9  | 40° 60°                                  |                                  |        |
|        | LL01CR-WlxxL02      | 28.8 x 16.7  |                                          | 15° 25° 40°                      |        |
|        | LL01CR-YJxxL02      | 19.4 x 12.6  | 40° 60°                                  |                                  |        |
|        | LL01ED-ACZxxL02     | 35 x 10.7    |                                          | 24° 38°                          |        |
|        | LL01ED-AJxxL06      | 28.9 x 19.7  | 25° 40° 60°                              |                                  |        |
|        | LL01ED-ALxxL06      | 19.65 x 11.4 | 15° 30x65°                               |                                  |        |
|        | LL01ED-ANxxL06      | 22.7 x 9.6   | 15°x50°                                  |                                  |        |
|        | LL01ED-CTxxL06      | 31 x 11.2    | 38° 80°                                  |                                  |        |
|        | LL01CR-AFCxxL06-M2  | 21.3 x 12.4  |                                          | 10° 15° 25° 30°<br>10x35° 15x30° | V      |
|        | LL01CR-AAFxxL02-M2  | 13.5 x 7.35  |                                          | 25°                              | V      |
|        | LL01NI-ANExxxL02-M2 | 23.5 x 15.8  |                                          | 10° 20° 30°                      | V      |
|        | LL01NI-GRxxL06      | 19.45 x 13.5 | 25° 40° 60° 80°                          |                                  |        |
|        | LL01OS-AXxxL02      | 20 x 11.5    | 20° 40° 60°                              |                                  |        |
|        | LL01OS-MQxxL06      | 19.45 x 13.7 | 25° 40° 60°                              |                                  |        |
|        | LL01ZZ-EXxxL06-M2   | 22.4 x 9.7   | 10° 25° 40° 60° 30x65°                   |                                  | V      |
|        | LL01XP-FLxxL06-M2   | 24.3 x 11.5  | 10° 25° 40° 60° 30x65°                   |                                  | V      |
|        | LL01LU-AAxxL06      | 19.7 x 13.8  | 20°x65°                                  |                                  |        |
|        | LL01LU-LHxxL06      | 21 x 9.15    | 15°                                      |                                  |        |
|        | LL01ZZ-AHxxL06      | 50 x 25.4    |                                          | 5°                               |        |
|        | LL01CR-XSxxL06      | 22.2x10.6    | 40°                                      |                                  |        |
|        | LL01ED-AKxxL06      | 34.4x18.8    | 40°                                      |                                  |        |
|        | LL01OS-BWxxL06      | 37.2x15.35   | 30°                                      |                                  |        |
|        | LL01OS-BYxxL06      | 37.2x15.35   | 30°                                      |                                  |        |
|        | LL01ED-FMxxL06      | 19.9x10.55   | 38°                                      |                                  |        |
|        | LL01OS-CBxxL06      | 25.6x10      |                                          | 15°                              |        |
|        | LL01CR-AVC30L       | 28.8 x 15.95 |                                          | 30°                              | V      |
|        | LL01CR-ADI10L06     | 20 x 18.5    |                                          | 10°                              |        |
|        | LL01OS-BFVxxL06     | 20.8 x 12.35 |                                          | 15° 25° 30°<br>10x40°            |        |
|        | LL01CR-BLU03L06     | 35 x 20      |                                          | 3°                               |        |
|        | LL01CR-CAXxxL06     | 20.5x20.5    |                                          | 10x90° 25x90°                    |        |

# XP-E / XP-E2

| Type    | Part Number        | DxH(mm)      | Full Angle  | FWHM        | Holder |
|---------|--------------------|--------------|-------------|-------------|--------|
| 3 in 1  | LL03CR-AZxxL06     | 50 x 14.5    | 25° 45° 60° |             |        |
|         | LL03CR-RXxxL06     | 35 x 9.6     | 25° 40° 60° |             |        |
|         | LL03ED-AZxxL06     | 50.5 x 13    | 45°         |             |        |
|         | LL03ED-UYxxL06     | 33.2 x 10.3  | 40°         |             |        |
|         | LL03LU-DMxxL06     | 23.1 x 11    |             | 15° 25° 40° |        |
|         | LL03LU-DOxxL06     | 35 x 10.6    |             | 15° 25° 40° |        |
| 4 in 1  | LL03OS-GKxxL06     | 33.2 x 9.8   | 25° 40° 60° |             |        |
|         | LL04CR-ABDxxL06    | 22 x 6.7     |             | 24° 36°     |        |
|         | LL04CR-GPxxL06     | 22.2 x 6.7   | 25° 38° 45° |             |        |
|         | LL04CR-RXxxL06     | 35 x 9.7     | 25° 40° 60° |             |        |
|         | LL04CR-CECxxL06    | 50X8.5       |             | 25°         |        |
|         | LL04ED-UYxxL06     | 37 x 10.3    | 40°         |             |        |
|         | LL04LU-DNxxL06     | 25.4 x 10.5  |             | 15° 25° 40° |        |
|         | LL04LU-DOxxL06     | 35 x 10.4    |             | 15° 25° 40° |        |
|         | LL04LU-GPxxL06     | 22.2 x 6.8   | 45°         |             |        |
|         | LL04ED-EXxxL06     | 25.4 x 10.4  | 60°         |             |        |
| 5 in 1  | LL04ZZ-EXxxL06     | 25.4 x 10.4  | 30°         |             |        |
|         | LL05CR-FRxxL06     | 35.8 x 6.5   | 25° 40° 60° |             |        |
| 6 in 1  | LL06CR-AXNxxL06-M2 | 76 x 13      |             | 25°         | V      |
|         | LL06CR-RXxxL06     | 50 x 9.65    | 25° 40° 60° |             |        |
|         | LL06ED-ADxxL06     | 73.3 x 11.5  | 25° 40° 60° |             |        |
|         | LL06CR-AXMxxL06-M2 | 76 x 13      |             | 15° 25° 35° | V      |
|         | LL06CY-TTxxL06     | 73.3 x 16    | 45°         |             |        |
|         | LL06CR-AXLxxL06-M2 | 76 x 13      |             | 25°         | V      |
| 7 in 1  | LL07CR-FRxxL06     | 35.8 x 6.5   | 25° 40° 60° |             |        |
|         | LL07CR-RXxxL06     | 50 x 10.3    | 40° 60°     |             |        |
|         | LL07ED-UYxxL06     | 47 x10.3     | 40°         |             |        |
|         | LL07ZZ-FUxxL06     | 50.35 x 10.7 |             | 15° 25°     |        |
|         | LL07ZZ-FVxxL06     | 39.2 x 10.6  |             | 15° 25°     |        |
| 9 in 1  | LL09CR-FRxxL06     | 45 x 7       | 25° 40° 60° |             |        |
|         | LL09CR-RXxxL06     | 70 x 10.3    | 40° 60°     |             |        |
|         | LL09ED-UYxxL06     | 67 x 10.3    | 40°         |             |        |
|         | LL09CY-TTxxL06     | 90.6 x 18.8  | 45°         |             |        |
| 12 in 1 | LL12CR-FRxxL06     | 45 x 7       | 25° 40° 60° |             |        |
|         | LL12CR-RXxxL06     | 70 x 10.3    | 40° 60°     |             |        |
|         | LL12ED-UYxxL06     | 67 x 10.3    | 40°         |             |        |
|         | LL12OS-GKxxL06     | 67 x 9.8     | 40° 60°     |             |        |

| Type            | Part Number        | DxH(mm)         | Full Angle | FWHM                    | Holder |
|-----------------|--------------------|-----------------|------------|-------------------------|--------|
| 24 in 1         | LL24CR-PFxxL02     | 113.6x76 x 9    | 15°        |                         |        |
|                 | LL24CR-VExxL02     | 99x90x10.3      | 15°        |                         |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1     |            | 85x135°<br>(Asymmetry)  |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1     |            | 85x135°<br>(Asymmetry)  |        |
|                 | LL01CR-DL70130L02  | 26x12.7x8.65    |            | 70x130°<br>(Asymmetry)  |        |
|                 | LL01CR-DL90120L02  | 26x15.8x9.15    |            | 90x120°<br>(Asymmetry)  |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9      |            | 60x135°<br>(Symmetry)   |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6  |            | 60x90°<br>(Symmetry)    |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2     |            | 85x135°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |            | 70x130°<br>(Asymmetry)  |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9   |            | 70x140°<br>(Asymmetry)  |        |
|                 | LL01LU-NI75140L02  | 15.7 x 14 x 5.8 |            | 75x140°<br>(Asymmetry)  |        |
|                 | LL01LU-UQ70140L02  | 18 x 11 x 6.6   |            | 70x140°<br>(Asymmetry)  |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5   |            | 60x130°<br>(Symmetry)   |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3      |            | 60x140°<br>(Asymmetry)  |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7       |            | 45x155°<br>(Asymmetry)  |        |
|                 | LL04CR-CGM85135L02 | 50x50x6.9       |            | 85x135°<br>(Asymmetry)  |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95      |            | 45x155°<br>(Asymmetry)  |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05      |            | 80 x150°<br>(Asymmetry) |        |
|                 | LL04CR-BXJxxL02    | 50x50x7.3       |            | 60° 90°<br>(Symmetry)   |        |
|                 | LL20CR-VK60140L02  | 319.3x52.3x14.6 |            | 60x140°<br>(Asymmetry)  |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |            | 75x135°<br>(Asymmetry)  |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |            | 65x140°<br>(Asymmetry)  |        |
| Reflector       | LL30CR-PT60140L02  | 235x71x9.4      |            | 60x140°<br>(Asymmetry)  |        |
|                 | LL01CR-YNxxL08-P   | 19x15.3         |            | 10° 20°                 |        |





XP-G



XP-G2



# ■ XP-G/XP-G2

| Type   | Part Number        | DxH(mm)      | Full Angle                         | FWHM          | Holder | Type    | Part Number        | DxH(mm)    | Full Angle  | FWHM        | Holder |
|--------|--------------------|--------------|------------------------------------|---------------|--------|---------|--------------------|------------|-------------|-------------|--------|
| Single | LL01CR-BEXxxL06    | 20.9 x 9.2   | 25° 40° 60°                        |               |        | 3 in 1  | LL03CR-AZxxL06     | 50x14.5    | 25° 45° 60° |             |        |
|        | LL01CR-BRxxL06     | 19.65 x 12.5 | 40° 15°x80° 40°x90°                |               |        |         | LL03CR-RXxxL06     | 35x9.6     | 25° 40° 60° |             |        |
|        | LL01CR-DFxxL02-M2  | 13.5x7.35    | 25° 40° 60° 80° 100° 30x65°        |               | V      |         | LL03ED-UYxxL06     | 33.2x10.3  | 40°         |             |        |
|        | LL01XP-DGxxL06-M2  | 32.8x18      | 20° 30° 40° 50° 60°                |               | V      |         | LL03LU-DMxxL06     | 23.1x11    |             | 15° 25° 40° |        |
|        | LL01CR-HQxxL06-M2  | 16x10.3      | 15° 25° 30° 40° 60° 80° 25x45°     |               | V      |         | LL03LU-DOxxL06     | 35x10.6    |             | 15° 25° 40° |        |
|        | LL01CR-NExxL06-M2  | 23.5x15.8    | 15° 25° 40° 60° 80° 10 x45° 25x45° |               | V      | 4 in 1  | LL03OS-GKxxL06     | 33.2x9.8   | 25° 40° 60° |             |        |
|        | LL01CR-OTxxL06-M2  | 16.6x10.45   | 32° 40° 60° 80°                    |               | V      |         | LL04CR-RXxxL06     | 35x9.7     | 25° 40° 60° |             |        |
|        | LL01CR-SQxxL06     | 19.4x12.9    | 40° 60°                            |               |        |         | LL04CR-CECxxL06    | 50x8.5     |             | 25°         |        |
|        | LL01CR-YJxxL02     | 19.4x12.6    | 40° 60°                            |               |        |         | LL04ED-UYxxL06     | 37x10.3    | 40°         |             |        |
|        | LL01ED-AJxxL06     | 28.9x19.7    | 40° 60°                            |               |        |         | LL04LU-DNxxL06     | 25.4x10.5  |             | 15° 25° 40° |        |
|        | LL01ED-AKxxL06     | 34.4x18.8    | 25° 40°                            |               |        |         | LL04LU-DOxxL06     | 35x10.4    |             | 15° 25° 40° |        |
|        | LL01CR-AAFxxL02-M2 | 13.5x7.35    |                                    | 25°           | V      | 5 in 1  | LL05CR-FRxxL06     | 35.8x6.5   | 25° 40° 60° |             |        |
|        | LL01HS-AAFxxL02-M2 | 13.5x7.35    |                                    | 45°           | V      | 6 in 1  | LL06CR-RXxxL06     | 50x9.65    | 25° 40° 60° |             |        |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8    |                                    | 10° 20° 30°   | V      |         | LL06ED-ADxxL06     | 73.3x11.5  | 25° 40° 60° |             |        |
|        | LL01NI-GRxxL06     | 19.45x13.5   | 40° 60° 80°                        |               |        | 7 in 1  | LL06CR-AXMxxL06-M2 | 76x13      |             | 15° 25° 35° | V      |
|        | LL01OS-AXxxL02     | 20x11.5      | 40°                                |               |        |         | LL07CR-FRxxL06     | 35.8x6.5   | 25° 40° 60° |             |        |
|        | LL01OS-MQxxL06     | 19.45x13.7   | 25° 40° 60°                        |               |        |         | LL07CR-RXxxL06     | 50x10.3    | 40° 60°     |             |        |
|        | LL01ZZ-EXxxL06-M2  | 22.4x9.7     | 10° 25° 40° 60° 30x65°             |               | V      |         | LL07ED-UYxxL06     | 47x10.3    | 40°         |             |        |
|        | LL01XP-FLxxL06-M2  | 24.3x11.5    | 10° 25° 40° 60° 30x65°             |               | V      |         | LL07ZZ-FUxxL06     | 50.35x10.7 |             | 15° 25°     |        |
|        | LL01ZZ-AHAxxL06    | 50x25.4      |                                    | 5°            |        |         | LL07ZZ-FVxxL06     | 39.2x10.6  |             | 15° 25°     |        |
|        | LL01CR-CRxxL06-M2  | 13.55x7.25   | 40° 60°                            |               | V      | 9 in 1  | LL09CR-RXxxL06     | 70x10.3    | 40° 60°     |             |        |
|        | LL01CR-BMxxL06     | 35.8x15.85   | 40°                                |               |        |         | LL09ED-UYxxL06     | 67x10.3    | 40°         |             |        |
|        | LL01CR-BNExxL06    | 19.4x14.6    | 25° 40° 60°                        |               |        | 12 in 1 | LL12CR-FRxxL06     | 45x7       | 25° 40° 60° |             |        |
|        | LL01CR-WlxxL02     | 28.8x17.4    |                                    | 15° 25° 40°   |        |         | LL12CR-RXxxL06     | 70x10.3    | 40° 60°     |             |        |
|        | LL01CR-XSxxL06     | 22.2x10.6    | 40°                                |               |        |         | LL12ED-AGxxL06     | 112x13.4   | 45°         |             |        |
|        | LL01ED-ANxxL06     | 22.7x9.6     | 15x50°                             |               |        |         | LL12ED-BGxxL06     | 95x11.2    | 40°         |             |        |
|        | LL01ED-AOxxL06     | 19.4x13.5    | 60° 80°                            |               |        |         | LL12ED-UYxxL06     | 67x10.3    | 40°         |             |        |
|        | LL01ED-AQxxL06     | 22.5x10.45   | 40°                                |               |        | 24 in 1 | LL12OS-GKxxL06     | 67x9.8     | 40° 60°     |             |        |
|        | LL01ED-ASxxR06     | 19.9x10.55   | 38° 60°                            |               |        |         | LL24CR-PFxxL02     | 113.6x76x9 | 15°         |             |        |
|        | LL01OS-BWxxL06     | 37.2x15.35   | 30°                                |               |        |         | LL24CR-VExxL02     | 99x90x10.3 | 15°         |             |        |
|        | LL01OS-BYxxL06     | 37.2x15.35   | 30°                                |               |        |         |                    |            |             |             |        |
|        | LL01CR-CAXxxL06    | 20.5x20.5    |                                    | 10x90° 25x90° |        |         |                    |            |             |             |        |

## ■ XP-G/XP-G2

| Type            | Part Number        | DxH(mm)         | Full Angle | FWHM                 | Holder |
|-----------------|--------------------|-----------------|------------|----------------------|--------|
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95    |            | 80x150° (Asymmetry)  |        |
|                 | LL01CR-AU85135L02  | 18x10.2x6.1     |            | 85x135° (Asymmetry)  |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1     |            | 85x135° (Asymmetry)  |        |
|                 | LL01CR-DL70130L02  | 26x12.7x8.65    |            | 70x130° (Asymmetry)  |        |
|                 | LL01CR-DL90120L02  | 26x15.8x9.15    |            | 90x120° (Asymmetry)  |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9      |            | 60x135° (Symmetry)   |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6  |            | 60x90° (Symmetry)    |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2     |            | 85x150° (Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |            | 70x130° (Asymmetry)  |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9   |            | 70x140° (Asymmetry)  |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3     |            | 50x150° (Asymmetry)  |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05    |            | 45x135° (Asymmetry)  |        |
|                 | LL01LU-NI75140L02  | 15.7x14x5.8     |            | 75x140° (Asymmetry)  |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6       |            | 70x140° (Asymmetry)  |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5   |            | 60x130° (Symmetry)   |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3      |            | 60x140° (Asymmetry)  |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7       |            | 45x155° (Asymmetry)  |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95      |            | 45x155° (Asymmetry)  |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05      |            | 80 x150° (Asymmetry) |        |
|                 | LL04CR-CFN35155L02 | 50x50x6.2       |            | 35 x155° (Asymmetry) |        |
|                 | LL04CR-CFN60155L02 | 50x50x7.3       |            | 60 x155° (Asymmetry) |        |
|                 | LL20CR-VK60140L02  | 319.3x52.3x14.6 |            | 60x140° (Asymmetry)  |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |            | 75x135° (Asymmetry)  |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |            | 65x140° (Asymmetry)  |        |
|                 | LL30CR-PT60140L02  | 235x71x9.4      |            | 60x140° (Asymmetry)  |        |
| Reflector       | LL01CR-YNxxL08-P   | 19x15.3         |            | 10° 20°              |        |

## ■ MX-3/MX-6

| Type            | Part Number        | DxH(mm)       | Full Angle      | FWHM               | Holder |
|-----------------|--------------------|---------------|-----------------|--------------------|--------|
| Single          | LL01CR-BRxxL06     | 19.65x12.5    | 40°             |                    |        |
|                 | LL01CR-DGxxL06     | 28.8x16.65    | 30° 40° 60°     |                    |        |
|                 | LL01CR-WlxxL02     | 28.8x17.4     |                 | 25° 40°            |        |
|                 | LL01CR-ZExxL02     | 35x20.4       | 20° 45°         |                    |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7     | 25° 40° 60°     |                    |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8     | 25° 40°         |                    |        |
|                 | LL01ED-ASxxL06     | 19.9x10.15    | 60°             |                    |        |
|                 | LL01ED-BBxxL06     | 35.8x16.5     | 60°             |                    |        |
|                 | LL01ED-CTxxL06     | 31x11.2       | 38° 80°         |                    |        |
|                 | LL01ED-CVxxL06     | 19.6x12.3     | 45°             |                    |        |
|                 | LL01NI-AAFxxL02-M2 | 13.5x7.35     |                 | 45°                | V      |
|                 | LL01NI-GRxxL06-M2  | 23.5x14.9     | 40°             |                    | V      |
|                 | LL01OS-AXxxL02     | 20x11.5       | 40° 60°         |                    |        |
|                 | LL01OS-BWxxL06     | 37.2x15.35    | 30°             |                    |        |
|                 | LL01OS-BYxxL06     | 37.2x15.35    | 30°             |                    |        |
|                 | LL01ZZ-EXxxL06     | 21x9.3        | 25° 40°         |                    |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6     | 10° 25° 40° 60° |                    |        |
|                 | LL01ED-FMxxL06     | 19.9x10.55    | 38°             |                    |        |
|                 | LL01OS-CBxxL02     | 25.6x10       | 15°             |                    |        |
|                 | LL01CR-ABGxxL02    | 34x15.7       |                 | 24°                |        |
|                 | LL01CR-BSxxL06     | 19.8x12.5     | 60°             |                    |        |
|                 | LL01CR-SQxxL06     | 19.4x12.9     | 40° 60° 80°     |                    |        |
|                 | LL01CR-AAFxxL02-M2 | 13.5x7.35     |                 | 25°                | V      |
|                 | LL01ED-BVxxL06     | 19.9x10.7     | 60°             |                    |        |
|                 | LL03CR-EKxxL06     | 35x9          | 40° 60°         |                    |        |
|                 | LL03ED-AZxxL06     | 50.5x13       | 45°             |                    |        |
|                 | LL03ED-BAxxL06     | 50.5x13       | 45° 60°         |                    |        |
|                 | LL03ED-CTxxL06     | 31x11.2       | 38°             |                    |        |
|                 | LL03CR-CExxL06     | 34x9.9        | 38°             |                    |        |
|                 | LL03ED-AFxxL06     | 50.5x20       | 45° 60°         |                    |        |
|                 | LL03CR-HKxxL06     | 35x8.2        | 40°             |                    |        |
|                 | LL03ZZ-EUxxL06     | 33x6.9        | 38°             |                    |        |
| 6 in 1          | LL06CR-AXMxxL06-M2 | 76x13         |                 | 25°                | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13         |                 | 25°                | V      |
|                 | LL06CR-AXNxxL06-M2 | 76x13         |                 | 25°                | V      |
| 9 in 1          | LL09ED-ATxxL06     | 90.6x17.5     | 40°             |                    |        |
| 12 in 1         | LL12ED-AGxxL06     | 112x13.4      | 45°             |                    |        |
|                 | LL12ED-BGxxL06     | 95x11.2       | 40°             |                    |        |
| 15 in 1         | LL15ED-BHxxL06     | 95x11.1       | 40°             |                    |        |
| 18 in 1         | LL18ED-BlxxL06     | 110x13.1      | 40°             |                    |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7    | 45°             |                    |        |
| 36 in 1         | LL36ED-AAxxL06     | 140x12.6      | 45°             |                    |        |
| 60 in 1         | LL60ED-BOxxL06     | 180x13.1      | 25°             |                    |        |
| Street Lighting | LL01OS-AU60130L02  | 30.1x14.3x8.5 |                 | 60x130° (Symmetry) |        |





■ XT-E

| Type   | Part Number        | DxH(mm)     | Full Angle              | FWHM        | Holder |
|--------|--------------------|-------------|-------------------------|-------------|--------|
| Single | LL01CR-AAFxxL02-M2 | 13.5x7.35   |                         | 25°         | V      |
|        | LL01CR-BRxxL06     | 19.65x12.5  | 40°                     |             |        |
|        | LL01CR-DFxxL02-M2  | 13.5x7.35   | 80° 100°                |             | V      |
|        | LL01XP-DGxxL06-M2  | 32.8x18     | 30° 50° 60°             |             | V      |
|        | LL01CR-HQxxL06-M2  | 16x10.3     | 40° 60° 80°             |             | V      |
|        | LL01CR-NExxL06-M2  | 23.5x15.8   | 25° 40° 60° 80° 25 x45° |             | V      |
|        | LL01CR-OTxxL06-M2  | 16.6x10.45  | 80°                     |             | V      |
|        | LL01CR-SQxxL06     | 19.4x12.9   | 40° 60°                 |             |        |
|        | LL01CR-WlxxL02     | 28.8x17.4   |                         | 25° 40°     |        |
|        | LL01ED-AKxxL06     | 34.4x18.8   | 25°                     |             |        |
|        | LL01ED-AJxxL06     | 28.9 x 19.7 | 25° 40° 60°             |             |        |
|        | LL01ED-ASxxR06     | 19.9x10.55  | 38° 60°                 |             |        |
|        | LL01HS-AAFxxL02-M2 | 13.5x7.35   |                         | 45° 60°     | V      |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8   |                         | 10° 20° 30° | V      |
|        | LL01NI-GRxxL06     | 19.45x13.5  | 40° 80°                 |             |        |
|        | LL01OS-BYxxL06     | 37.2x15.35  | 30°                     |             |        |
|        | LL01OS-MQxxL06     | 19.45x13.7  | 25° 40° 60°             |             |        |
|        | LL01ZZ-EXxxL06-M2  | 22.4x9.7    | 40° 60°                 |             | V      |
|        | LL01XP-FLxxL06-M2  | 24.3x11.5   | 25° 40° 60° 30x65°      |             | V      |
|        | LL01CR-XSxxL06     | 22.2x10.6   | 40°                     |             |        |
| 3 in 1 | LL01OS-CBxxL06     | 25.6x10     |                         | 15°         |        |
|        | LL01NI-BYKxxL19    | 16x8        |                         | 20° 30° 40° |        |
|        | LL03CR-AZxxL06     | 50x14.5     | 25° 45°                 |             |        |
|        | LL03CR-RXxxL06     | 35x9.6      | 40° 60°                 |             |        |
|        | LL03ED-ASxxL06     | 37.7x10.5   | 38°                     |             |        |
|        | LL03ED-CTxxL06     | 31x11.2     | 38°                     |             |        |
|        | LL03ED-UYxxL06     | 33.2x10.3   | 40°                     |             |        |
|        | LL03LU-DOxxL06     | 35x10.6     |                         | 25° 40°     |        |
|        | LL03OS-GKxxL06     | 33.2x9.8    | 25° 40° 60°             |             |        |
|        | LL03CR-CExxL06     | 34x9.9      | 38°                     |             |        |

| Type            | Part Number        | DxH(mm)         | Full Angle | FWHM                 | Holder |
|-----------------|--------------------|-----------------|------------|----------------------|--------|
| 4 in 1          | LL04CR-RXxxL06     | 35x9.7          | 40° 60°    |                      |        |
|                 | LL04ED-UYxxL06     | 37x10.3         | 40°        |                      |        |
|                 | LL04LU-DNxxL06     | 25.4x10.5       |            | 25° 40°              |        |
|                 | LL04LU-DOxxL06     | 35x10.4         |            | 25° 40°              |        |
| 5 in 1          | LL05CR-BFRxxL06    | 35.8x6.3        |            | 25° 40° 60°          |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x9.65         | 40° 60°    |                      |        |
|                 | LL06CY-TTxxL06     | 73.3x16         | 45°        |                      |        |
| 7 in 1          | LL07CR-BFRxxL06    | 35.8x6.3        |            | 25° 40° 60°          |        |
|                 | LL07CR-RXxxL06     | 50x10.3         | 40° 60°    |                      |        |
|                 | LL07ED-UYxxL06     | 47x10.3         | 40°        |                      |        |
|                 | LL07ZZ-FVxxL06     | 39.2x10.6       | 30° 60°    | 25°                  |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3         | 40° 60°    |                      |        |
|                 | LL09ED-UYxxL06     | 67x10.3         | 40°        |                      |        |
|                 | LL09CY-TTxxL06     | 90.6x18.8       | 45°        |                      |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3         | 40° 60°    |                      |        |
|                 | LL12ED-UYxxL06     | 67x10.3         | 40°        |                      |        |
| 15 in 1         | LL15ED-BHxxL06     | 95x11.1         | 40°        |                      |        |
| 18 in 1         | LL18ED-BlxxL06     | 110x13.1        | 40°        |                      |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7      | 45°        |                      |        |
| 36 in 1         | LL36ED-AAxxL06     | 140x12.6        | 45°        |                      |        |
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95    |            | 80x150° (Asymmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |            | 70x130° (Asymmetry)  |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9   |            | 70x140° (Asymmetry)  |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6       |            | 70x140° (Asymmetry)  |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05      |            | 80 x150° (Asymmetry) |        |
|                 | LL04CR-CGM85135L02 | 50x50x6.9       |            | 85 x135° (Asymmetry) |        |
|                 | LL14CR-AOC65150L02 | 250x60x9.9      |            | 65x150° (Asymmetry)  |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |            | 75x135° (Asymmetry)  |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |            | 65x140° (Asymmetry)  |        |
|                 | LL30CR-PT60140L02  | 235x71x9.4      |            | 60x140° (Asymmetry)  |        |

| Type   | Part Number         | DxH(mm)     | Full Angle                       | FWHM                     | Holder |
|--------|---------------------|-------------|----------------------------------|--------------------------|--------|
| Single | LL01CR-BDFxxL06-M2  | 13.5x7.35   | 40° 60°                          |                          | V      |
|        | LL01CR-BEXxxL06-M2  | 22.4x9.7    | 25° 40° 60°                      |                          | V      |
|        | LL01CR-BNExxxL06-M2 | 23.5x15.8   | 25° 40° 60° 35x70°               |                          | V      |
|        | LL01CR-BRxxL06      | 19.65x12.5  | 40°                              |                          |        |
|        | LL01CR-DFxxL06      | 11.8x6.65   | 80° 100° 30x65°                  |                          |        |
|        | LL01CR-DGxxL06      | 28.8x16.75  | 20° 30° 40° 50° 60°              |                          |        |
|        | LL01CR-HQxxL06      | 14.8x9.6    | 30° 40° 60° 80°                  |                          |        |
|        | LL01CR-NExxL06      | 19.4x15     | 25° 40° 60° 80°<br>10x45° 25x45° |                          |        |
|        | LL01CR-OTxxL06      | 15x9.7      | 80°                              |                          |        |
|        | LL01CR-WlxxL02      | 28.8x17.4   |                                  | 25° 40°                  |        |
|        | LL01ED-AJxxL06      | 28.9x19.7   | 25° 40° 60°                      |                          |        |
|        | LL01ED-AKxxL06      | 34.4x18.8   | 40°                              |                          |        |
|        | LL01LU-AFCxxL06     | 19.4x11.8   | 15x60° 20x50°                    |                          |        |
|        | LL01XB-AAFxxL02-M2  | 13.5x7.35   |                                  | 60°                      | V      |
|        | LL01NI-ANExxxL02    | 19.4 x14.94 |                                  | 20° 30°                  |        |
|        | LL01NI-GRxxL06      | 19.45x13.5  | 40° 60° 80°                      |                          |        |
|        | LL01OS-HGxxL06      | 10x6        | 60°                              |                          |        |
|        | LL01OS-MQxxL06      | 19.45x13.7  | 25° 40° 60°                      |                          |        |
|        | LL01ZZ-AFLxxL02     | 22.2x10.4   |                                  | 35° 50°                  |        |
|        | LL01CR-OSxxL06-M2   | 22.4x9.13   | 40° 30x65°                       |                          | V      |
| 3 in 1 | LL01ZZ-FLxxL06      | 22.2x10.6   | 25° 40° 60°                      |                          |        |
|        | LL01NI-BYKxxL19     | 16x8        |                                  | 20° 30° 40°<br>60° 2545° |        |
|        | LL03CR-AZxxL06      | 50x14.5     | 25° 45°                          |                          |        |
|        | LL03CR-BDOxxL06     | 35x10.8     |                                  | 15° 25°                  |        |
|        | LL03CR-RXxxL06      | 35x9.6      | 40° 60°                          |                          |        |
|        | LL03ED-UYxxL06      | 33.2x10.3   | 40°                              |                          |        |
|        | LL03LU-DMxxL06      | 23.1x11     |                                  | 25° 40°                  |        |
|        | LL03LU-DOxxL06      | 35x10.6     |                                  | 25° 40°                  |        |
|        | LL03OS-GKxxL06      | 33.2x9.8    | 25° 40° 60°                      |                          |        |

| Type            | Part Number        | DxH(mm)        | Full Angle  | FWHM                | Holder |
|-----------------|--------------------|----------------|-------------|---------------------|--------|
| 4 in 1          | LL04CR-RXxxL06     | 35x9.7         | 25° 40° 60° |                     |        |
|                 | LL04ED-UYxxL06     | 37x10.3        | 40°         |                     |        |
|                 | LL04LU-DNxxL06     | 25.4x10.5      |             | 25° 40°             |        |
|                 | LL04LU-DOxxL06     | 35x10.4        |             | 25° 40°             |        |
|                 | LL04LU-GPxxL06     | 22.2x6.8       | 45°         |                     |        |
| 5 in 1          | LL04OS-GKxxL06     | 37x9.8         | 40° 60°     |                     |        |
|                 | LL05CR-BFRxxL06    | 35.8x6.3       |             | 40°                 |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x9.65        | 40° 60°     |                     |        |
|                 | LL06CR-AXLxxL06-M2 | 76x13          |             | 25°                 | V      |
| 7 in 1          | LL07CR-BFRxxL06    | 35.8x6.3       |             | 40°                 |        |
|                 | LL07CR-RXxxL06     | 50x10.3        | 40° 60°     |                     |        |
|                 | LL07ED-UYxxL06     | 47x10.3        | 40°         |                     |        |
|                 | LL07OS-GKxxL06     | 47x9.8         | 40° 60°     |                     |        |
|                 | LL07ZZ-FUxxL06     | 50.35x10.7     |             | 25°                 |        |
| 9 in 1          | LL07ZZ-FVxxL02     | 39.2x10.8      |             | 30°                 |        |
|                 | LL09CR-RXxxL06     | 70x10.3        | 40° 60°     |                     |        |
|                 | LL09ED-UYxxL06     | 67x10.3        | 40°         |                     |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 40° 60°     |                     |        |
| 12 in 1         | LL09ED-ATxxL06     | 90.6x17.5      | 40°         |                     |        |
|                 | LL12CR-RXxxL06     | 70x10.3        | 40° 60°     |                     |        |
|                 | LL12ED-UYxxL06     | 67x10.3        | 40°         |                     |        |
| 18 in 1         | LL12OS-GKxxL06     | 67x9.8         | 40° 60°     |                     |        |
|                 | LL18ED-BLxxL06     | 110x13.1       | 40°         |                     |        |
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95   |             | 80x150° (Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18x10.2x6.1    |             | 85x135° (Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1    |             | 85x135° (Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |             | 60x135° (Symmetry)  |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2    |             | 85x150° (Symmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |             | 70x130° (Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9  |             | 70x140° (Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |             | 70x140° (Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |             | 80x150° (Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2   |             | 75x135° (Asymmetry) |        |





XM-L



XM-L2



| ■ XM-L          |                    |              |                                    |                        |        |
|-----------------|--------------------|--------------|------------------------------------|------------------------|--------|
| Type            | Part Number        | DxH(mm)      | Full Angle                         | FWHM                   | Holder |
| Single          | LL01CR-ABGxxL02    | 34x15.7      |                                    | 24° 55°                |        |
|                 | LL01CR-ACZxxL02    | 27.8x10.2    |                                    | 24° 38°                |        |
|                 | LL01ED-ABYxxL02    | 44x14.1      |                                    | 24°                    |        |
|                 | LL01CR-BRxxL06     | 19.65x12.5   | 40° 10x45° 15x50°<br>15x80° 40x90° |                        |        |
|                 | LL01CR-ADGxxL06-M2 | 32.8x18      | 20° 30° 40° 50° 60°                |                        | V      |
|                 | LL01CR-PVxxL02     | 45x23.7      | 45° 60° 80°                        |                        |        |
|                 | LL01CR-SQxxL06-M2  | 19.4x12.9    | 40° 60° 80°                        |                        | V      |
|                 | LL01CR-WlxxL02-M2  | 28.8x17.4    |                                    | 15° 25° 40°            | V      |
|                 | LL01CR-XSxxL06     | 22.2x10.6    | 40°                                |                        |        |
|                 | LL01CR-YJxxL02-M2  | 19.4x12.7    | 40° 60° 80° 100°                   |                        | V      |
|                 | LL01ED-ACZxxL02    | 35x10.7      |                                    | 24° 38°                |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7    | 25° 40° 60°                        |                        |        |
|                 | LL01ED-CVxxL06     | 19.6x12.3    | 45°                                | 15° 25°                |        |
|                 | LL01NI-GRxxL06     | 19.45x13.5   | 25° 40° 60° 80°                    |                        |        |
|                 | LL01ZZ-AFLxxL02    | 22.2x10.4    |                                    | 35° 50°                |        |
|                 | LL01ZZ-EXxxL06     | 21x9.15      | 10° 40° 110° 30x65°                |                        |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6    | 10° 40° 30 x65°                    |                        |        |
|                 | LL01OS-CBxxL06     | 25.6x10      | 15°                                |                        |        |
|                 | LL01ZZ-AHA05L06-M2 | 50x25.4      |                                    | 5°                     | V      |
|                 | LL01CR-BJH10L06    | 45x26.3      |                                    | 10°                    |        |
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76x13        |                                    | 25°                    | V      |
|                 | LL06ED-ADxxL06     | 73.3x11.5    | 25° 40°                            |                        |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13        |                                    | 15° 25° 35°            | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13        |                                    | 25°                    | V      |
| 9 in 1          | LL09ED-BZxxL06     | 90.75x16.5   | 25°                                |                        |        |
|                 | LL09ED-ATxxL06     | 90.6x17.5    | 40°                                |                        |        |
|                 | LL09ED-BQxxL06     | 90.6x16.5    | 25° 60°                            |                        |        |
| Street Lighting | LL01CR-XW70140L02  | 32x17.6x9.8  |                                    | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32x18.5x9.5  |                                    | 80x150°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2 |                                    | 75x135°<br>(Asymmetry) |        |

| ■ XM-L 2 |                    |            |                                    |               |        |
|----------|--------------------|------------|------------------------------------|---------------|--------|
| Type     | Part Number        | DxH(mm)    | Full Angle                         | FWHM          | Holder |
| Single   | LL01CR-ABGxxL02    | 34x15.7    |                                    | 24° 38°       |        |
|          | LL01CR-ACZxxL02    | 27.8x10.2  |                                    | 24° 38°       |        |
|          | LL01CR-BMxxL06     | 35.8x15.85 | 40°                                |               |        |
|          | LL01CR-BRxxL06     | 19.65x12.5 | 40° 10x45° 15x50°<br>15x80° 40x90° |               |        |
|          | LL01CR-BSxxL06     | 19.8x12.5  | 60°                                |               |        |
|          | LL01CR-DGxxL06     | 28.8x16.75 | 20° 30° 40° 50° 60°                |               |        |
|          | LL01CR-NExxL06     | 19.4x14.9  | 15° 80° 10x45°                     |               |        |
|          | LL01CR-PVxxL02     | 45x23.7    | 45° 60° 80°                        |               |        |
|          | LL01CR-SQxxL06     | 19.4x12.9  | 40° 60° 80°                        |               |        |
|          | LL01CR-WlxxL02     | 28.8x17.4  |                                    | 15° 25° 40°   |        |
|          | LL01CR-XSxxL06     | 22.2x10.6  | 40°                                |               |        |
|          | LL01CR-ZExxL02     | 35x20.4    |                                    | 20°           |        |
|          | LL01ED-ACZxxL02    | 35x10.7    |                                    | 24° 38°       |        |
|          | LL01ED-AFDxxL06    | 26x15.3    |                                    | 20°           |        |
|          | LL01ED-AJxxL06     | 28.9x19.7  | 25° 40° 60°                        |               |        |
|          | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°                            |               |        |
|          | LL01ED-ALxxL06     | 19.7x9.9   | 30x65°                             |               |        |
|          | LL01ED-ANxxL06     | 22.7x9.6   | 15°x50°                            |               |        |
|          | LL01ED-AOxxL06     | 19.4x13.45 | 60°                                |               |        |
|          | LL01ED-AQxxL06     | 22.5x10.45 | 40° 60°                            |               |        |
|          | LL01ED-ASxxL06     | 19.9x10.15 | 60°                                |               |        |
|          | LL01ED-AYxxL06     | 43.8x24.5  | 38°                                | 10°           |        |
|          | LL01ED-CYxxL06     | 26.8x20.6  | 30° 45°                            |               |        |
|          | LL01LU-AFCxxL06    | 19.4x11.8  |                                    | 15x60° 20x50° |        |
|          | LL01NI-GRxxL06     | 19.45x13.5 | 25° 40° 60° 80°                    |               |        |
|          | LL01OS-AXxxL02     | 20x11.5    | 20° 40° 60°                        |               |        |
|          | LL01OS-BWxxL06     | 37.2x15.35 | 30°                                |               |        |
|          | LL01OS-BYxxL06     | 37.2x15.35 | 30°                                |               |        |
|          | LL01ZZ-AHZxxL02-M2 | 24.3x12.3  |                                    | 38°           | V      |
|          | LL01ZZ-EXxxL06     | 21x9.3     | 40° 30x65°                         |               |        |
|          | LL01ZZ-FLxxL06     | 22.2x10.6  | 10° 40° 30x65°                     |               |        |
|          | LL01CR-FoxxL06     | 35.8x15.75 | 40°                                |               |        |
|          | LL01LU-AAxxL06     | 19.7x13.8  | 20x65°                             |               |        |
|          | LL01LU-LHxxL06     | 21x9.15    | 15°                                |               |        |
|          | LL01NI-DZxxL06     | 22x15.7    | 20x40°                             |               |        |
|          | LL01OS-CBxxL06     | 25.6x10    | 15°                                |               |        |
|          | LL01ZZ-AHAxxL06    | 50x25.4    |                                    | 5°            |        |



XM-L  
EZW



XM-L  
Color



MC-E



MC-E  
Color



## ■ XM-L EZW

| Type            | Part Number        | DxH(mm)      | Full Angle      | FWHM                   | Holder |
|-----------------|--------------------|--------------|-----------------|------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7      |                 | 24°                    |        |
|                 | LL01CR-ACZxxL02    | 27.8x10.2    |                 | 24° 38°                |        |
|                 | LL01ED-ABYxxL02    | 44x14.1      |                 | 24°                    |        |
|                 | LL01CR-AQHxxL02    | 44x14.1      |                 | 38° 45°                |        |
|                 | LL01CR-BRxxL06     | 19.65x12.5   | 40°             |                        |        |
|                 | LL01CR-ADGxxL06-M2 | 32.8x18      | 20° 30° 40° 60° |                        | V      |
|                 | LL01CR-SQxxL06     | 19.4x12.9    | 60°             |                        |        |
|                 | LL01CR-WlxxL02     | 28.8x17.4    |                 | 25° 40°                |        |
|                 | LL01ED-ACZxxL02    | 35x10.7      |                 | 24° 38°                |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7    | 25° 40° 60°     |                        |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8    | 25° 40°         |                        |        |
|                 | LL01ED-AQxxL06     | 22.5x10.5    | 60°             |                        |        |
|                 | LL01ED-ASxxL06     | 19.9 x 10.15 | 60°             |                        |        |
|                 | LL01ED-BBxxL06     | 35.8x16.5    | 60°             |                        |        |
|                 | LL01ED-CVxxL06     | 19.6x12.3    | 45°             |                        |        |
|                 | LL01ED-CYxxL06     | 26.8x18.9    | 30° 45°         |                        |        |
|                 | LL01NI-GRxxL06     | 19.45x13.5   | 40° 60° 80°     |                        |        |
|                 | LL01OS-AXxxL02     | 20x11.5      | 40° 60°         |                        |        |
|                 | LL01OS-BWxxL06     | 37.2x15.35   | 30°             |                        |        |
|                 | LL01OS-BYxxL06     | 37.2x15.35   | 30°             |                        |        |
|                 | LL01ZZ-AFLxxL02    | 22.2x10.4    |                 | 35° 50°                |        |
|                 | LL01ZZ-AHZxxL02-M2 | 24.3x12.3    |                 | 24° 38°                | V      |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6    | 40°             |                        |        |
|                 | LL01OS-CBxxL06     | 25.6x10      | 15°             |                        |        |
| 6 in 1          | LL06ED-ADxxL06     | 73.3x11.5    | 25° 40° 60°     |                        |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13        |                 | 15° 25°                | V      |
| 9 in 1          | LL09ED-ATxxL06     | 90.6x17.5    | 40°             |                        |        |
| 12 in 1         | LL12ED-AGxxL06     | 112x13.4     | 45°             |                        |        |
| Street Lighting | LL01CR-XW70140L02  | 32x17.6x9.8  |                 | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32x18.5x9.5  |                 | 80x150°<br>(Asymmetry) |        |

## ■ XM-L Color

| Type   | Part Number        | DxH(mm)   | Full Angle | FWHM    | Holder |
|--------|--------------------|-----------|------------|---------|--------|
| Single | LL01CR-SQxxL06-M2  | 21x13.9   | 40°        |         | V      |
|        | LL01CR-YJxxL02-M2  | 21x13.9   | 40°        |         | V      |
|        | LL01ED-AFDxxL06    | 26x15.5   |            | 15°     |        |
|        | LL01CR-ACZxxL02    | 27.8x10.2 |            | 24°     |        |
|        | LL01CR-ADGxxL06-M2 | 32.8x18   | 40° 50°    |         | V      |
|        | LL01CR-WlxxL02-M2  | 32.8x18   | 40°        |         | V      |
|        | LL01ED-ABYxxL02    | 44x14.1   |            | 24°     |        |
|        | LL01CR-AQHxxL02    | 44x14.1   |            | 38° 45° |        |
|        | LL01CR-ADPxxL06    | 75.8x35.2 |            | 24°     |        |

## ■ MC-E

| Type    | Part Number        | DxH(mm)    | Full Angle          | FWHM    | Holder |
|---------|--------------------|------------|---------------------|---------|--------|
| Single  | LL01CR-BRxxL06     | 19.65x12.5 | 30° 40° 50°         |         |        |
|         | LL01ZZ-AFLxxL02-M2 | 24.3x12.3  |                     | 35° 50° | V      |
|         | LL01CR-FLxxL06-M2  | 24.3x12.15 | 25°                 |         | V      |
|         | LL01CR-XSxxL06-M2  | 24.3x12.3  | 40°                 |         | V      |
|         | LL01ED-AFDxxL06    | 26x15.5    |                     | 15°     |        |
|         | LL01CR-DGxxL06-M2  | 32.8x18    | 20° 30° 40° 50° 60° |         | V      |
|         | LL01ED-AJxxL06     | 28.9x19.7  | 25° 40° 60°         |         |        |
|         | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°             |         |        |
|         | LL01CR-ZExxL02     | 35x20.4    | 20° 45°             |         |        |
|         | LL01ED-AYxxL06     | 43.8x24.5  | 38°                 | 10°     |        |
|         | LL01CR-ADTxxL06    | 35x10.65   |                     | 30°     |        |
| 6 in 1  | LL06ED-DKxxL06     | 73.2x13.7  | 60°                 |         |        |
| 60 in 1 | LL60ED-BOxxL06     | 180x13.1   | 45°                 |         |        |

## ■ MC-E Color

| Type   | Part Number        | DxH(mm)   | Full Angle          | FWHM        | Holder |
|--------|--------------------|-----------|---------------------|-------------|--------|
| Single | LL01ZZ-AFLxxL02-M2 | 24.3x12.3 |                     | 35° 50°     | V      |
|        | LL01ED-AFDxxL06    | 26x15.5   |                     | 15°         |        |
|        | LL01CR-DGxxL06-M2  | 32.8x18   | 20° 30° 40° 50° 60° |             | V      |
|        | LL01ED-AJxxL06     | 28.9x19.7 | 25° 40° 60°         |             |        |
|        | LL01CR-BCQxxL06-M1 | 38.1x20.9 |                     | 15° 15x30°  | V      |
|        | LL01CR-ZExxL02     | 35x20.15  | 30°                 |             |        |
|        | LL01CR-ANWxxL06    | 45x26.3   |                     | 10° 20° 30° |        |
|        | LL01CR-PVxxL02     | 45x23.65  | 80°                 |             |        |
|        | LL01CR-ADTxxL06    | 35x10.65  |                     | 30°         |        |



XH-G



## ■ XH-G

| Type   | Part Number        | DxH(mm)     | Full Angle          | FWHM       | Holder |
|--------|--------------------|-------------|---------------------|------------|--------|
| Single | LL01OS-AAFxxL02-M2 | 13.5x7.35   |                     | 60°        | V      |
|        | LL01CR-NExxL06     | 19.4x14.9   | 80°                 |            |        |
|        | LL01CR-SQxxL06     | 19.4x12.9   | 40° 60° 80°         |            |        |
|        | LL01CR-YJxxL02     | 19.4x12.7   | 40° 60° 80° 100°    |            |        |
|        | LL01NI-GRxxL06     | 19.45x13.5  | 40° 60° 80°         |            |        |
|        | LL01ED-CVxxL06     | 19.6x12.3   | 15°                 |            |        |
|        | LL01CR-BRxxL06     | 19.65x12.5  | 40° 40x90°          |            |        |
|        | LL01CR-BSxxL06     | 19.8x12.5   | 60°                 |            |        |
|        | LL01ED-ASxxR06     | 19.9x10.55  | 38° 60°             |            |        |
|        | LL01OS-AXxxL02     | 20x11.5     | 20° 40° 60°         |            |        |
|        | LL01CR-BEXxxL06    | 20.9x9.2    |                     | 25° 40°    |        |
|        | LL01OS-EXxxL06-M2  | 22.4x9.63   | 25° 40° 60°         |            | V      |
|        | LL01ZZ-AFLxxL02    | 22.2x10.4   |                     | 35°        |        |
|        | LL01ZZ-FLxxL06     | 22.2x10.6   | 25° 40° 60°         |            |        |
|        | LL01CR-XSxxL06     | 22.2x10.6   | 40°                 |            |        |
|        | LL01ED-AQxxL06     | 22.5x10.45  | 40° 60°             |            |        |
|        | LL01ED-AFDxxL06    | 26x15.5     |                     | 15° 20°    |        |
|        | LL01ED-CYxxL06     | 26.8x20.6   | 30° 45°             |            |        |
|        | LL01CR-ACZxxL02    | 27.8x10.2   |                     | 24°        |        |
|        | LL01CR-DGxxL06     | 28.8x16.75  | 20° 30° 40° 50° 60° |            |        |
|        | LL01CR-WIxxL02     | 28.8x17.4   | 25° 40°             |            |        |
|        | LL01ED-AJxxL06     | 28.9x19.7   | 25° 40° 60°         |            |        |
|        | LL01ED-CTxxL06     | 31x11.2     | 38° 80°             |            |        |
|        | LL01CR-ABGxxL02    | 34x15.7     |                     | 24° 55°    |        |
|        | LL01ED-AKxxL06     | 34.4x18.8   | 25° 40°             |            |        |
|        | LL01ED-BCQxxL06    | 34.75x19.25 |                     | 15° 15x30° |        |
|        | LL01ED-ACZxxL02    | 35x10.7     |                     | 24° 38°    |        |
|        | LL01ED-BBxxL06     | 35.8x16.5   | 25° 60°             |            |        |
|        | LL01CR-BMxxL06     | 35.8x15.85  | 40°                 |            |        |
|        | LL01OS-BWxxL06     | 37.2x15.35  | 30°                 |            |        |

| Type   | Part Number    | DxH(mm)    | Full Angle  | FWHM | Holder |
|--------|----------------|------------|-------------|------|--------|
| Single | LL01OS-BYxxL06 | 37.2x15.35 | 30°         |      |        |
|        | LL01LU-AAxxL06 | 19.7x13.8  | 20x65°      |      |        |
|        | LL01ED-BVxxL06 | 19.9x10.7  | 60°         |      |        |
|        | LL01ED-FMxxL06 | 19.9x10.55 | 38°         |      |        |
|        | LL01NI-DZxxL06 | 22x15.7    | 20x40°      |      |        |
|        | LL01OS-CBxxL06 | 25.6x10    | 15°         |      |        |
| 3 in 1 | LL03LU-DMxxL06 | 23.1x11    | 25° 40°     |      |        |
|        | LL03ED-CTxxL06 | 31x11.2    | 38° 80°     |      |        |
|        | LL03ED-GKxxL06 | 33.2x10.2  | 40°         |      |        |
|        | LL03CR-RXxxL06 | 35x10.5    | 40° 60°     |      |        |
|        | LL03ED-BCxxL06 | 43.9x9.5   | 25°         |      |        |
|        | LL03CR-AZxxL06 | 50x14.5    | 25° 45°     |      |        |
|        | LL03ED-AZxxL06 | 50.5x13    | 25° 45° 60° |      |        |
| 4 in 1 | LL03ED-BAxxL06 | 50.5x13    | 45° 60°     |      |        |
|        | LL04LU-DNxxL06 | 25.4x10.5  | 25° 40°     |      |        |
|        | LL04LU-DOxxL06 | 35x10.4    | 25° 40°     |      |        |
|        | LL04CR-GPxxL06 | 22.2x6.7   | 25° 38° 45° |      |        |
|        | LL04LU-GPxxL06 | 22.2x6.8   | 15° 25° 45° |      |        |



MK-R



MK-R2



MT-G



MT-G2



## MK-R

| Type            | Part Number        | DxH(mm)     | Full Angle          | FWHM                   | Holder |
|-----------------|--------------------|-------------|---------------------|------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7     |                     | 22°                    |        |
|                 | LL01CR-ABHxxL02    | 50x10.4     |                     | 40° 60°                |        |
|                 | LL01CR-ADPxxL06    | 75.8x35.2   |                     | 15° 24° 38°            |        |
|                 | LL01ED-ABYxxL02    | 44x14.1     |                     | 24°                    |        |
|                 | LL01CR-AQHxxL02    | 44x14.1     |                     | 38°                    |        |
|                 | LL01CR-BRxxL06     | 19.65x12.5  | 40°                 |                        |        |
|                 | LL01CR-DGxxL06     | 28.8x16.75  | 20° 30° 40° 50° 60° |                        |        |
|                 | LL01CR-PVxxL02     | 45x23.7     | 45° 60° 80°         |                        |        |
|                 | LL01CR-WlxxL02     | 28.8x17.4   |                     | 25° 40°                |        |
|                 | LL01CR-ZExx0L02    | 35x20.4     |                     | 20° 30° 45°            |        |
|                 | LL01ED-AFDxxL06    | 26x15.3     |                     | 20°                    |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8   | 25° 40°             |                        |        |
|                 | LL01ED-CYxxL06     | 26.8x20.6   | 30°                 |                        |        |
|                 | LL01LU-AFLxxL02-M2 | 24.3x11.5   |                     | 35° 50° 70°            | V      |
| 6 in 1          | LL06ED-ADxxL06     | 73.3x11.5   |                     | 60°                    |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13       |                     | 25° 35°                | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13       |                     | 25°                    | V      |
| Street Lighting | LL01LU-AGV80150L02 | 32x18.5x9.5 |                     | 80x150°<br>(Asymmetry) |        |

## MK-R2

| Type            | Part Number        | DxH(mm)     | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|-------------|------------|------------------------|--------|
| Single          | LL01ZZ-AFLxxL02    | 22.2x10.4   |            | 35° 50° 70°            |        |
|                 | LL01CR-ABGxxL02    | 34x15.7     |            | 24° 38° 55°            |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8   | 25° 40°    |                        |        |
|                 | LL01CI-WNxxL02     | 72x12.9     |            | 40°                    |        |
|                 | LL01CI-WMxxL02     | 92.5x27.5   |            | 40°                    |        |
|                 | LL01ED-IHxxL02     | 87x44.25    | 60°        |                        |        |
| Street Lighting | LL01LU-AGV80150L02 | 32x18.5x9.5 |            | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32x17.6x9.8 |            | 70x140°<br>(Asymmetry) |        |

## MT-G/MT-G2

| Type   | Part Number        | DxH(mm)    | Full Angle  | FWHM        | Holder |
|--------|--------------------|------------|-------------|-------------|--------|
| Single | LL01CR-ABGxxL02    | 34x15.7    |             | 24° 38° 55° |        |
|        | LL01CR-ABHxxL02    | 50x10.4    |             | 40° 60°     |        |
|        | LL01CR-ADPxxL06    | 75.8x35.2  |             | 15° 24° 38° |        |
|        | LL01ED-ABYxxL02    | 44x14.1    |             | 24°         |        |
|        | LL01CR-PVxxL02-M2  | 47.2x25.65 | 45° 60° 80° |             | V      |
|        | LL01CR-ZExxL02-M2  | 37.1x20.7  |             | 20° 30° 45° | V      |
|        | LL01ED-ABXxxL06    | 75.8x24.35 |             | 24° 38°     |        |
|        | LL01ED-AFDxxL06    | 26x15.3    |             | 20°         |        |
|        | LL01ED-AYxxL06-M2  | 46x27.1    | 38°         | 10°         | V      |
|        | LL01CR-AFLxxL02-M2 | 24.3x11.5  |             | 35° 50° 70° | V      |
|        | LL01CR-AQHxxL06    | 44x14.1    |             | 38°         |        |



CXA  
13xx



CXA  
15xx



## ■ CXA13xx

| Type      | Part Number       | DxH(mm)    | Full Angle          | FWHM        | Holder |
|-----------|-------------------|------------|---------------------|-------------|--------|
| Single    | LL01CR-ABHxxL02   | 50x10.4    |                     | 40° 60°     |        |
|           | LL01ED-ABYxxL02   | 44x14.1    |                     | 24°         |        |
|           | LL01CR-AQHxxL02   | 44x14.1    |                     | 38° 45°     |        |
|           | LL01CR-DGxxL06    | 28.8x16.75 | 20° 30° 40° 50° 60° |             |        |
|           | LL01CR-PVxxL02    | 45x23.7    | 45° 60° 80°         |             |        |
|           | LL01ED-AFDxxL06   | 26x15.5    |                     | 15° 20°     |        |
|           | LL01ED-AKxxL06    | 34.4x18.8  | 25° 40°             |             |        |
|           | LL01ED-AYxxL06    | 43.8x24.5  | 10° 38°             |             |        |
|           | LL01ZZ-AFLxxL02   | 22.2x10.4  |                     | 35° 50°     |        |
|           | LL01CR-CHQxxL02   | 35x10.5    |                     | 24°         |        |
|           | LL01CR-BJLxxL02   | 35x12.55   |                     | 40°         |        |
|           | LL01CR-CEWxxL02   | 50x15      |                     | 12° 24° 38° |        |
|           | LL01WT-BSSxxL46   | 44x12.2    |                     | 24° 32°     |        |
|           | LL01ZZ-CPRxxL 46  | 47x8.5     |                     | 24° 38°     |        |
|           | LL01BR-TYRxxR34-P | 45x19.4    |                     | 24° 34° 50° |        |
| Reflector | LL01CT-AJZxxR49   | 50x19      |                     | 38° 55°     |        |
|           | LL01CT-AMXxxR49   | 44x11.8    |                     | 45°         |        |
|           | LL01ED-AJMxxR49   | 35.2x7.8   |                     | 24° 38°     |        |
|           | LL01ED-ALlxxR49   | 50x19      |                     | 24° 55°     |        |
|           |                   |            |                     |             |        |

## ■ CXA15xx

| Type      | Part Number        | DxH(mm)               | Full Angle  | FWHM                | Holder |
|-----------|--------------------|-----------------------|-------------|---------------------|--------|
| Single    | LL01CR-ABGxxL02    | 34x15.7               |             | 55°                 |        |
|           | LL01CR-ABHxxL06    | 50x10.4               |             | 40° 60°             |        |
|           | LL01CR-PVxxL02     | 45x23.7               | 45° 60° 80° |                     |        |
|           | LL01CR-AQHxxL02    | 44x14.1               |             | 38° 45°             |        |
|           | LL01ED-ABYxxL02    | 44x14.1               |             | 24°                 |        |
|           | LL01ED-ABXxxL06    | 75.8x24.35            |             | 38°                 |        |
|           | LL01ED-ASAxxL06-P  | 90.6x22               |             | 38°                 |        |
|           | LL01CR-BAYxxL06    | 75.8x22.5             |             | 24° 38°             |        |
|           | LL01ED-AYxxL06     | 43.8x24.5             | 38°         | 10°                 |        |
|           | LL01CT-AMYxxL06    | 75.8x23               |             | 38°                 |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7             |             | 24° 38°             | V      |
|           | LL01CT-APGxxL06-M2 | 90.8x22               |             | 24° 38°             | V      |
|           | LL01CR-BGSxxL06    | 34x15.7               |             | 24°                 |        |
|           | LL01CR-BJLxxL02    | 35x12.55              |             | 40°                 |        |
|           | LL01WT-BSSxxL46    | 44x12.2               |             | 24° 32°             |        |
| Reflector | LL01CR-CEWxxL02    | 50x15                 |             | 12° 24° 38°         |        |
|           | LL01CR-CEOxxL02    | 90x19.5               |             | 12° 24°             |        |
|           | LL01CR-CEN12L02    | 70x17.5               |             | 12° 24°             |        |
|           | Street Lighting    | LL01CR-BZT80140L83-Mx | 67x35x17.5  | 80x140° (Asymmetry) |        |
|           |                    | LL01BR-TYRxxR34-P     | 45x19.4     | 24° 34° 50°         |        |
|           |                    | LL01CIOTxxR2-P        | 50x30       | 20° 33° 45°         |        |
|           |                    | LL01CR-AYGxxR49       | 75x45       | 15° 24° 38°         |        |
|           |                    | LL01CT-AJZxxR49       | 50x19       | 38° 55°             |        |
|           |                    | LL01CT-ALNxxR49       | 75.8x20.1   | 38° 45°             |        |
|           |                    | LL01CT-ALOxxR49       | 90.5x23.2   | 24° 38° 45°         |        |
|           |                    | LL01CT-AMXxxR49       | 44x11.8     | 45°                 |        |
|           |                    | LL01ED-AJMxxR49       | 35.2x7.8    | 24° 38°             | V      |
|           |                    | LL01ED-AKVxxR49       | 50.5x29.5   | 36°                 |        |
|           |                    | LL01ED-AKYxxR49       | 50x30       | 24° 38° 45°         |        |
|           |                    | LL01ED-ALAxR49        | 75x20.1     | 24° 38°             |        |
|           |                    | LL01ED-ALlxxR49       | 50x19       | 24° 38° 55°         |        |
|           |                    | LL01SP-ATHxxR49       | 75x40       | 15° 24° 38°         |        |
|           |                    | LL01ZZ-AAAxL49        | 70x35       | 24° 38° 55°         |        |



CXA  
18xx



CXA  
25xx



CXA  
30xx



## ■ CXA1816 / 1820

| Type      | Part Number                    | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-AMYxxL06                | 75.8x23    |            | 24° 38°         |        |
|           | LL01ZZ-AOFxxL06-M2             | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2             | 90.8x22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06                | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAXxL06-P              | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01WT-BSSxxL46                | 44x12.2    |            | 24° 32°         |        |
|           | LL01CR-CEOxxL02                | 90x19.5    |            | 12° 24°         |        |
| Reflector | LL01BR-TYRxxR34-P              | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01CT-ALOxxR49                | 90.5x23.2  |            | 24° 38° 45°     |        |
|           | LL01ED-AKAXxR49                | 85x23.5    |            | 60°             | V      |
|           | LL01ED-ALIXxR49                | 50x19      |            | 24° 55°         |        |
|           | LL01ED-ALJxxR49                | 91.5x23.2  |            | 24° 38° 45°     | V      |
|           | LL01SP-ASOxxR49                | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49                | 75x40      |            | 15° 24° 38°     |        |
|           | LL01CR-BG CxxR49<br>-BK G15L02 | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CR-BDJ80R49                | 90x40      |            | 80°             |        |
|           | LL01CR-BIYxxR49<br>-BIZ120L02  | 100x57     |            | 13° 24°         |        |

## ■ CXA1830

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|-------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-AZWxxL02-P | 76.1x12.7  |            | 15° 24°         |        |
|           | LL01CT-AZNxxL02-P | 88.5x15    |            | 15° 24° 38°     |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |            | 24° 38°         |        |
| Reflector | LL01CR-AYGxxR49   | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P | 75x45      |            | 15° 24° 38°     |        |
|           | LL01ED-ALAXxR49   | 75x20.1    |            | 24° 38°         |        |
|           | LL01SP-ATHxxR49   | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01SP-ASOxxR49   | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01ED-AKXxxR49   | 116x32     |            | 24° 38°         |        |

## ■ CXA25xx

| Type            | Part Number        | DxH(mm)    | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|------------|-------------|------------------------|--------|
| Single          | LL01CT-AMYxxL06    | 75.8x23    |             | 24° 38°                |        |
|                 | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |             | 24° 38°                | V      |
|                 | LL01CT-APGxxL06-M2 | 90.8x22    |             | 24° 38°                | V      |
|                 | LL01ED-ABXxxL06    | 75.8x24.35 |             | 24° 38°                |        |
|                 | LL01ED-ASAXxL06-P  | 90.6x22    | 45° 60° 80° | 12° 24° 38°            |        |
|                 | LL01CIOTxxR2-P     | 50x30      |             | 20° 33° 45°            |        |
| Reflector       | LL01CR-AYMxxR35-P  | 90x50      |             | 15° 24° 38°            |        |
|                 | LL01ED-AKAXxR49    | 85x23.5    |             | 60°                    | V      |
|                 | LL01ED-AKXxxR49    | 116x32     |             | 24° 38°                | V      |
|                 | LL01ED-ALJxxR49    | 91.5x23.2  |             | 24° 38° 45°            | V      |
|                 | LL01SP-ASOxxR49    | 90x50      |             | 15° 24° 38° 55°        |        |
| Street Lighting | LL01ED-AU70120L02  | 94x42x28.4 |             | 70x120°<br>(Asymmetry) |        |

## ■ CXA30xx

| Type      | Part Number     | DxH(mm)   | Full Angle | FWHM        | Holder |
|-----------|-----------------|-----------|------------|-------------|--------|
| Single    | LL01CT-AMYxxL06 | 75.8x23   |            | 24° 38°     |        |
|           | LL01CT-APGxxL06 | 84.6x18   |            | 24° 38°     |        |
| Reflector | LL01ED-AKAXxR49 | 85x23.5   |            | 60°         |        |
|           | LL01ED-AKXxxR49 | 116x32    |            | 24° 38°     |        |
|           | LL01ED-ALJxxR49 | 91.5x23.2 |            | 24° 38° 45° |        |



1LA5



■ 1LA5

| Type   | Part Number       | DxH(mm)    | Full Angle             | FWHM | Holder |
|--------|-------------------|------------|------------------------|------|--------|
| Single | LL01CR-BRxxL06    | 19.65x12.5 | 30° 40° 50° 40x90°     |      |        |
|        | LL01CR-DGxxL06    | 28.8x16.75 | 30° 40° 50° 60°        |      |        |
|        | LL01ED-AHxxL06-M2 | 21.3x14    | 30° 45° 60°            |      | V      |
|        | LL01ED-AJxxL06-M2 | 31x19.3    | 10° 25° 40° 60°        |      | V      |
|        | LL01ED-AKxxL06    | 34.4x18.8  | 25° 40°                |      |        |
|        | LL01ED-ALxxL06-M2 | 21.3x14    | 15° 30x65°             |      | V      |
|        | LL01ED-ANxxL06-M2 | 25x13.5    | 15x50°                 |      | V      |
|        | LL01ED-AOxxL06-M2 | 23.5x17.5  | 30° 40° 60° 80° 25x45° |      | V      |
|        | LL01ED-BAxxL06-M2 | 26.6x12.8  | 15° 40° 60°            |      | V      |
|        | LL01ED-ASxxL06-M2 | 21.9x12.3  | 15° 38° 60°            |      | V      |
|        | LL01ED-BBxxL06    | 35.8x16.5  | 25° 40° 60°            |      |        |
|        | LL01ED-CTxxL06    | 31x11.2    | 38° 80°                |      |        |
|        | LL01ED-CVxxL06-M2 | 21.5x15.0  | 15° 25° 45°            |      | V      |
|        | LL01OS-AXxxL02    | 20x11.5    | 40° 60°                |      |        |
|        | LL01OS-BWxxL06    | 37.2x15.35 | 30°                    |      |        |
|        | LL01OS-BYxxL06    | 37.2x15.35 | 30°                    |      |        |
|        | LL01ZZ-EXxxL06    | 21x8.75    | 25°                    |      |        |
|        | LL01ZZ-FLxxL06    | 22.2x10.6  | 25° 40°                |      |        |
|        | LL01ED-BJxxL06    | 19.7x11.9  | 38°                    |      |        |
|        | LL01ED-BPxxL06-M2 | 21.3x14    | 45°                    |      | V      |
|        | LL01ED-BV60L06-M2 | 21.3x14    | 60°                    |      | V      |
|        | LL01ED-FMxxL06    | 19.9x10.55 | 38°                    |      |        |
|        | LL01ED-IHxxL06    | 87x44.25   | 60°                    |      |        |
|        | LL01ED-ZBxxL06    | 19.6x10.4  | 15°                    |      |        |
|        | LL01LU-AAxxL06    | 19.7x13.8  | 20°x65°                |      |        |
|        | LL01OS-CBxxL06    | 25.6x10    | 15°                    |      |        |
|        | LL01ZZ-AHAxxL06   | 50 x 25.4  |                        | 5°   |        |
| 3 in 1 | LL03ED-AFxxL06    | 50.5x20    | 30° 45° 60° 40x70°     |      |        |
|        | LL03ED-ASxxL06    | 37.7x10.5  | 38°                    |      |        |
|        | LL03ED-AZxxL06    | 50.5x13    | 25° 45° 60°            |      |        |
|        | LL03ED-BAxxL06    | 50.5x13    | 25° 45° 60°            |      |        |

| Type            | Part Number        | DxH(mm)         | Full Angle     | FWHM                   | Holder |
|-----------------|--------------------|-----------------|----------------|------------------------|--------|
| 3 in 1          | LL03ED-CTxxL06     | 31x11.2         | 38° 80°        |                        |        |
|                 | LL03ED-EKxxL06     | 35x9.2          | 25° 40° 60°    |                        |        |
|                 | LL03ED-AIHxxL06    | 37x8.7          | 30°            |                        |        |
|                 | LL03ED-AIIxxL06    | 34.9x10.4       | 30°            |                        |        |
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76x13           |                | 25°                    | V      |
|                 | LL06ED-ADxxL06     | 73.3x11.5       | 8° 25° 40° 60° |                        |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13           |                | 15° 25° 35°            | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13           |                | 25°                    | V      |
| 9 in 1          | LL09ED-ACxxL06     | 95.4x13.5       | 15° 25°        |                        |        |
|                 | LL09ED-BZxxL06     | 90.75x16.5      | 15° 25°        |                        |        |
|                 | LL09ED-ATxxL06-M2  | 90.6x17.5       | 40°            |                        | V      |
|                 | LL09ED-BQxxL06     | 90.6x16.5       | 25° 60°        |                        |        |
| 12 in 1         | LL12ED-AGxxL06     | 112x13.4        | 25° 45°        |                        |        |
|                 | LL12ED-BGxxL06     | 95x11.2         | 15° 25° 40°    |                        |        |
|                 | LL12ED-BQxxL06     | 90.6x16.6       | 25°            |                        |        |
| 15 in 1         | LL15ED-BHxxL06     | 95x11.1         | 15° 25° 40°    |                        |        |
| 18 in 1         | LL18ED-BIxxL06     | 110x13.1        | 15° 25° 40°    |                        |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7      | 15° 25° 40°    |                        |        |
| 36 in 1         | LL36ED-AAxxL06     | 140x12.6        | 15° 25° 45°    |                        |        |
| 60 in 1         | LL60ED-BOxxL06     | 180x13.1        | 25° 45°        |                        |        |
| Street Lighting | LL01ED-AU40130L02  | 18.95x14.8x8.25 |                | 40x130°<br>(Asymmetry) |        |
|                 | LL01ED-AU50130L02  | 30x11x11.4      |                | 50x130°<br>(Symmetry)  |        |
|                 | LL01ED-AU70135L02  | 24x12.3x9.2     |                | 70x135°<br>(Symmetry)  |        |
|                 | LL01ED-LP70130L02  | 20x11.7x6.9     |                | 70x130°<br>(Asymmetry) |        |
|                 | LL01ED-ZP55140L02  | 19.15x10.8x9.4  |                | 55x140°<br>(Asymmetry) |        |
|                 | LL01SH-AU75135L02  | 24x13.2x9.6     |                | 75x135°<br>(Symmetry)  |        |
|                 | LL04LZ-NO85140L02  | 160x 25x9.55    |                | 85x140°<br>(Asymmetry) |        |
|                 | LL12ED-VT85160L02  | 158x50x9.4      |                | 85x160°<br>(Asymmetry) |        |
|                 | LL24ED-AU75135L02  | 135x112x9.6     |                | 75x135°<br>(Asymmetry) |        |
|                 |                    |                 |                |                        |        |



EPGX-HR96



EPGX-HRB8



EPGX-HRBF



EPGX-HRBJ



EPGX-VF23



## ■ EPX-HR96

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM        | Holder |
|-----------|--------------------|------------|------------|-------------|--------|
| Single    | LL01CR-ABHxxL02    | 50x10.4    |            | 40° 60°     |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°     | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°     |        |
|           | LL01ED-IHxxL06     | 87x44.25   | 60°        |             |        |
|           | LL01CR-BAAXxxL02   | 74 x 3     |            | 24°         |        |
| Reflector | LL01BR-TYRxxR34-P  | 45x19.4    |            | 24° 34° 50° |        |
|           | LL01ED-AKY24R49    | 50.5x30    |            | 24° 38° 45° |        |
|           | LL01ED-ALJxxR49    | 50x19      |            | 24° 38° 55° |        |
|           | LL01ZZ-AAAXxxL49   | 70x35      |            | 24° 38° 55° |        |

## ■ EPX-HRB8

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM    | Holder |
|-----------|--------------------|------------|------------|---------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38° | V      |
|           | LL01CT-APGxxL06    | 84.6x18    |            | 24° 38° |        |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38° |        |
|           | LL01ED-ASAXxxL06-P | 90.6x22    |            | 24° 38° |        |
|           | LL01ED-IHxxL06     | 87x44.25   | 60°        |         |        |
| Reflector | LL01CT-ALOXxxR49   | 90.5x23.2  |            | 24° 45° |        |
|           | LL01ED-AKAXxxR49   | 85x23.5    |            | 60°     |        |
|           | LL01ED-AKVxxR49    | 50x29.5    |            | 36°     |        |
|           | LL01ED-ALAXxxR49   | 75x20.1    |            | 24° 38° |        |

## ■ EPSX-HRBF

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM    | Holder |
|-----------|--------------------|------------|------------|---------|--------|
| Single    | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38° | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38° |        |
|           | LL01ED-ASAXxx06-P  | 90.6x22    |            | 24° 38° |        |
|           | LL01ED-IHxxL06     | 87x44.25   | 60°        |         |        |
| Reflector | LL01ED-AKAXxxR49   | 85x23.5    |            | 60°     |        |
|           | LL01ED-AKXXxxR49   | 116x32     |            | 24° 38° |        |
|           | LL01ED-ALJxxR49    | 91.5x23.2  |            | 45°     |        |

## ■ EPSX-HRBJ

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM    | Holder |
|-----------|--------------------|------------|------------|---------|--------|
| Single    | LL01CT-APGxxL06-M2 | 84.6x18    |            | 24° 38° | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38° |        |
|           | LL01ED-ASAXxxL06-P | 90.6x22    |            | 24° 38° |        |
|           | LL01ED-IHxxL06     | 87x44.25   | 60°        |         |        |
| Reflector | LL01ED-AKAXxxR49   | 85x23.5    |            | 60°     |        |
|           | LL01ED-AKXXxxR49   | 116x32     |            | 24° 38° |        |

## ■ EPSX-VF23

| Type      | Part Number     | DxH(mm)  | Full Angle | FWHM    | Holder |
|-----------|-----------------|----------|------------|---------|--------|
| Reflector | LL01ED-AJMxxR49 | 35.2x7.8 |            | 24° 38° |        |



Federal  
5050



Federal  
3535



## ■ Federal 5050

| Type   | Part Number        | DxH(mm)    | Full Angle          | FWHM    | Holder |
|--------|--------------------|------------|---------------------|---------|--------|
| Single | LL01NI-ANExxL02    | 19.4x14.94 |                     | 20° 30° |        |
|        | LL01ED-AOxxL06     | 19.4x13.45 | 60°                 |         |        |
|        | LL01CR-NExxL06     | 19.4x14.9  | 80°                 |         |        |
|        | LL01CR-SQxxL06-M2  | 21x13.9    | 40° 60°             |         | V      |
|        | LL01CR-YJxxL02-M2  | 21x13.9    | 40° 80°             |         | V      |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 40° 60° 80°         |         |        |
|        | LL01ED-CVxxL02     | 19.6x12.3  | 15°                 |         |        |
|        | LL01CR-BRxxL06     | 19.65x12.5 | 40°                 |         |        |
|        | LL01OS-AXxxL02     | 20x11.5    | 40° 60°             |         |        |
|        | LL01ZZ-AFLxxL02    | 22.2x10.4  |                     | 35° 50° |        |
|        | LL01ZZ-FLxxL06     | 22.2x10.6  | 40°                 |         |        |
|        | LL01CR-XSxxL06     | 22.2x10.6  | 40°                 |         |        |
|        | LL01ED-AQxxL06     | 22.5x10.5  | 60°                 |         |        |
|        | LL01ED-AFDxxL06    | 26x15.3    |                     | 20°     |        |
|        | LL01ED-CYxxL06     | 26.8x20.6  | 30° 45°             |         |        |
|        | LL01CR-ACZxxL02    | 27.8x10.2  |                     | 24° 38° |        |
|        | LL01CR-ADGxxL06-M2 | 32.8x18    | 20° 30° 40° 50° 60° |         | V      |
|        | LL01CR-WlxxL02     | 28.8x17.4  | 25° 40°             |         |        |
|        | LL01ED-AJxxL06     | 28.9x19.7  | 25° 40° 60°         |         |        |
|        | LL01CR-ABGxxL02    | 34x15.7    |                     | 24°     |        |
|        | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°             |         |        |
|        | LL01ED-ACZxxL02    | 35x10.7    |                     | 24° 38° |        |
|        | LL01CR-ZExxL02     | 35x20.4    | 20°                 |         |        |
|        | LL01CR-BMxxL06     | 35.8x15.85 | 40°                 |         |        |
|        | LL01OS-BWxxL06     | 37.2x15.35 | 30°                 |         |        |
|        | LL01OS-BYxxL06     | 37.2x15.35 | 30°                 |         |        |
|        | LL01CR-PVxxL02     | 45x23.7    | 45° 60° 80°         |         |        |
|        | LL01CR-FYxxL06     | 19.4x13.45 | 80°                 |         |        |
|        | LL01OS-CBxxL06     | 25.6x10    | 15°                 |         |        |
|        | LL01CR-FOxxL06     | 35.8x15.75 | 40°                 |         |        |
| 3 in 1 | LL03CR-EKxxL06     | 35x9       | 60°                 |         |        |
|        | LL03ED-AFxxL06     | 50.5x20    | 45° 60°             |         |        |
|        | LL03CR-CExxL06     | 34x9.9     | 38°                 |         |        |
| 6 in 1 | LL06CR-CKxxL06     | 73.2x13.5  | 25°                 |         |        |
|        | LL06ED-ADxxL06     | 73.3x11.5  | 40° 60°             |         |        |
|        | LL06ED-AXMxxL06-M2 | 76x13      |                     | 25°     | V      |
|        | LL06ED-AXLxxL06-M2 | 76x13      |                     | 25°     | V      |

| Type    | Part Number    | DxH(mm)    | Full Angle | FWHM | Holder |
|---------|----------------|------------|------------|------|--------|
| 9 in 1  | LL09ED-BZxxL06 | 90.75x16.5 | 25°        |      |        |
|         | LL09ED-ATxxL06 | 90.6x17.5  | 40°        |      |        |
|         | LL09ED-BQxxL06 | 90.6x16.5  | 60°        |      |        |
| 15 in 1 | LL15ED-BHxxL06 | 95x11.1    | 40°        |      |        |
| 24 in 1 | LL24ED-ABxxL06 | 174.5x12.7 | 45°        |      |        |

## ■ Federal 3535

| Type    | Part Number        | DxH(mm)    | Full Angle                   | FWHM    | Holder |
|---------|--------------------|------------|------------------------------|---------|--------|
| Single  | LL01CR-BRxxL06     | 19.65x12.5 | 40°                          |         |        |
|         | LL01HS-DFxxL02-M2  | 13.5x7.35  | 100°                         |         | V      |
|         | LL01XP-DGxxL06-M2  | 32.8x18    | 30° 40° 50° 60°              |         | V      |
|         | LL01CR-HQxxL06     | 14.8x9.5   | 40° 60°                      |         |        |
|         | LL01CR-NExxL06     | 19.4x15    | 25° 40° 60°<br>10x45° 25x45° |         |        |
|         | LL01CR-OTxxL06     | 15x9.7     | 40° 60° 80°                  |         |        |
|         | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°                      |         |        |
|         | LL01NI-GRxxL06     | 19.45x13.5 | 60°                          |         |        |
|         | LL01OS-BYxxL06     | 37.2x15.35 | 30°                          |         |        |
|         | LL01OS-MQxxL06     | 19.45x13.7 | 40°                          |         |        |
|         | LL01CR-EXxxL06-M2  | 22.4x9.7   | 40° 60°                      |         | V      |
|         | LL01ED-FMxxL06     | 19.9x10.55 | 38°                          |         |        |
| 3 in 1  | LL03CR-AZxxL06     | 50x14.5    | 25° 45°                      |         |        |
|         | LL03CR-RXxxL06     | 35x9.6     | 40° 60°                      |         |        |
|         | LL03LU-DMxxL06     | 23.1x11    | 25° 40°                      |         |        |
|         | LL03LU-DOxxL06     | 35x10.6    | 25° 40°                      |         |        |
| 4 in 1  | LL04CR-RXxxL06     | 35x9.7     | 40° 60°                      |         |        |
|         | LL04LU-DNxxL06     | 25.4x10.5  |                              | 25° 40° |        |
|         | LL04LU-DOxxL06     | 35x10.4    |                              | 25° 40° |        |
|         | LL04LU-GPxxL06     | 22.2x6.8   | 45°                          |         |        |
| 6 in 1  | LL06CR-RXxxL06     | 50x9.65    | 40° 60°                      |         |        |
|         | LL06CR-AXLxxL06-M2 | 76x13      |                              | 25°     | V      |
| 7 in 1  | LL07CR-RXxxL06     | 50x10.3    | 40° 60°                      |         |        |
|         | LL07ZZ-FUxxL06     | 50.35x10.7 | 25°                          |         |        |
|         | LL07ZZ-FVxxL06     | 39.2x10.8  | 25° 30°                      |         |        |
| 9 in 1  | LL09CR-RXxxL06     | 70x10.3    | 40° 60°                      |         |        |
| 12 in 1 | LL12CR-RXxxL06     | 70x10.3    | 40° 60°                      |         |        |
| 18 in 1 | LL18ED-BIxxL06     | 110x13.1   | 40°                          |         |        |



Federal 3045



Federal 5050 color



## Federal 3045

| Type   | Part Number        | DxH(mm)    | Full Angle           | FWHM    | Holder |
|--------|--------------------|------------|----------------------|---------|--------|
| Single | LL01LU-DFxxL06-M2  | 13.5x7.35  | 25° 40° 60° 80° 100° |         | V      |
|        | LL01CR-HQxxL06     | 14.8x9.6   | 30° 40° 60°          |         |        |
|        | LL01CR-NExxL06     | 19.4x15    | 40° 60°              |         |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 40°                  |         |        |
|        | LL01ED-CVxxL02     | 19.6x12.3  | 25° 45°              |         |        |
|        | LL01CR-BRxxL06     | 19.65x12.5 | 40°                  |         |        |
|        | LL01ED-ASxxL06     | 19.9x10.15 | 60°                  |         |        |
|        | LL01OS-AXxxL02     | 20x11.5    | 40° 60°              |         |        |
|        | LL01LU-EXxxL06-M2  | 22.4x9.63  | 25° 40° 60° 30x65°   |         | V      |
|        | LL01LU-FLxxL06-M2  | 24.3x11.6  | 25° 40° 60° 30x65°   |         | V      |
|        | LL01CR-DGxxL06     | 28.8x16.65 | 30° 40° 60°          |         |        |
|        | LL01ED-AJxxL06     | 28.9x19.7  | 25° 40° 60°          |         |        |
|        | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°              |         |        |
|        | LL01ED-BBxxL06     | 35.8x16.5  | 60°                  |         |        |
|        | LL01OS-BWxxL06     | 37.2x15.35 | 30°                  |         |        |
|        | LL01OS-BYxxL06     | 37.2x15.35 | 30°                  |         |        |
| 3 in 1 | LL01LU-AAxxL06     | 19.7x13.8  | 20x65°               |         |        |
|        | LL01ED-FMxxL06     | 19.9x10.55 | 38°                  |         |        |
|        | LL03LU-DMxxL06     | 23.1x11    | 15° 25° 40°          |         |        |
|        | LL03ED-CTxxL06     | 31x11.2    | 38°                  |         |        |
|        | LL03ED-GKxxL06     | 33.2x10.2  | 25° 40° 60°          |         |        |
|        | LL03CR-RXxxL06     | 35x10.5    | 40° 60°              |         |        |
| 4 in 1 | LL03LU-DOxxL06     | 35x10.6    | 15° 25° 40°          |         |        |
|        | LL03ED-AZxxL06     | 50.5x13    | 45° 60°              |         |        |
|        | LL03ED-BAxxL06     | 50.5x13    | 45° 60°              |         |        |
|        | LL04CR-RXxxL06     | 35x10.5    | 40° 60°              |         |        |
| 6 in 1 | LL04ED-GKxxL06     | 37x10.3    | 25° 40° 60°          |         |        |
|        | LL04ED-EXxxL06     | 25.4x10.4  | 60°                  |         |        |
|        | LL04ZZ-EXxxL06     | 25.4x10.4  | 30°                  |         |        |
| 7 in 1 | LL06CR-RXxxL06     | 50x10.5    | 40° 60°              |         |        |
|        | LL06CR-CKxxL06     | 73.2x13.5  | 25°                  |         |        |
|        | LL06ED-ADxxL06     | 73.3x11.5  | 25° 40° 60°          |         |        |
| 7 in 1 | LL06ED-AXMxxL06-M2 | 76x13      |                      | 15° 25° | V      |
|        | LL06ED-ATxxL06     | 73.2x13.5  | 40°                  |         |        |
|        | LL07ZZ-FVxxL06     | 39.2x10.6  | 15° 25°              |         |        |
|        | LL07ED-GKxxL06     | 47x10.5    | 25° 40° 60°          |         |        |
| 7 in 1 | LL07CR-RXxxL06     | 50x10.3    | 40° 60°              |         |        |
|        | LL07ZZ-FUxxL06     | 50.35x10.7 | 15° 25°              |         |        |

| Type            | Part Number       | DxH(mm)        | Full Angle  | FWHM                   | Holder |
|-----------------|-------------------|----------------|-------------|------------------------|--------|
| 9 in 1          | LL09ED-GKxxL06    | 67x10.8        | 25° 40° 60° |                        |        |
|                 | LL09CR-RXxxL06    | 70x10.3        | 40° 60°     |                        |        |
|                 | LL09ED-ATxxL06    | 90.6x17.5      | 40°         |                        |        |
| 12 in 1         | LL12ED-GKxxL06    | 67x10.8        | 25° 40° 60° |                        |        |
|                 | LL12CR-RXxxL06    | 70x10.3        | 40° 60°     |                        |        |
|                 | LL12ED-BGxxL06    | 95x11.2        | 40°         |                        |        |
| 15 in 1         | LL15ED-BHxxL06    | 95x11.1        | 40°         |                        |        |
| 18 in 1         | LL18ED-BIxxL06    | 110x13.1       | 40°         |                        |        |
| 24 in 1         | LL24ED-ABxxL06    | 174.5x12.7     | 45°         |                        |        |
| 36 in 1         | LL36ED-AAxxL06    | 140x12.6       | 45°         |                        |        |
| Street Lighting | LL01CR-AU85135L02 | 18x10.2x6.1    |             | 80x135°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02 | 17.4x12.75x7.2 |             | 70x130°<br>(Asymmetry) |        |
|                 | LL01CR-KM6090L02  | 17.55x11.6x8.6 |             | 60x90°<br>(Symmetry)   |        |
|                 | LL24CR-AU75135L02 | 120x100x10.2   |             | 75x135°<br>(Asymmetry) |        |

## Federal 5050 color

| Type   | Part Number        | DxH(mm)   | Full Angle | FWHM       | Holder |
|--------|--------------------|-----------|------------|------------|--------|
| Single | LL01ED-AFDxxL06    | 26x15.5   |            | 15° 20°    |        |
|        | LL01ED-BCQxxL06-M1 | 38.1x21.2 |            | 15° 15x30° | V      |

JU1215 COB(4W)



JU1215 COB(7W)



JU1215 COB(10W)



JU2024 COB(15W)



■ JU1215 COB(4W)

| Type      | Part Number       | DxH(mm)   | Full Angle | FWHM        | Holder |
|-----------|-------------------|-----------|------------|-------------|--------|
| Single    | LL01ED-AYxxL06    | 43.8x24.5 | 38°        | 10°         |        |
|           | LL01ED-FGxxL06    | 43.8x24.5 | 38°        | 10°         |        |
| Reflector | LL01ED-AJMxxR49   | 35.2x7.8  |            | 24° 38°     |        |
|           | LL01CT-AMXxxR49   | 44x11.8   |            | 45°         |        |
|           | LL01BR-TYRxxR34-P | 45x19.4   |            | 24° 34° 50° |        |
|           | LL01CIOTxxR2-P    | 50x30     |            | 20° 33° 45° |        |
|           | LL01CT-AJZxxR49   | 50x19     |            | 36° 50°     |        |
|           | LL01ED-AKYxxR49   | 50x30     |            | 24° 38° 45° |        |
|           | LL01ED-ALixxR49   | 50x19     |            | 24° 38° 55° |        |
|           | LL01ED-AKVxxR49   | 50.5x29.5 |            | 36°         |        |

■ JU1215 COB(10W)

| Type      | Part Number        | DxH(mm)    | Full Angle  | FWHM            | Holder |
|-----------|--------------------|------------|-------------|-----------------|--------|
| Single    | LL01CR-PVxxL02     | 45x23.7    | 45° 60° 80° |                 |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |             | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |             | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |             | 24° 38°         |        |
| Reflector | LL01CT-APGxxL06-M2 | 90.8x22    |             | 24° 38°         | V      |
|           | LL01CT-AMXxxR49    | 44x11.8    |             | 45°             |        |
|           | LL01BR-TYRxxR34-P  | 45x19.4    |             | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P     | 50x30      |             | 20° 33° 45°     |        |
|           | LL01CT-AJZxxR49    | 50x19      |             | 36° 50°         |        |
|           | LL01ED-AKYxxR49    | 50x30      |             | 24° 38° 45°     |        |
|           | LL01ED-ALixxR49    | 50x19      |             | 24° 38° 55°     |        |
|           | LL01ED-AKVxxR49    | 50.5x29.5  |             | 36°             |        |
|           | LL01ZZ-AAAxL49     | 70x35      |             | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |             | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |             | 15° 24° 38°     |        |
|           | LL01ED-ALAxR49     | 75x20.1    |             | 24° 38°         |        |
|           | LL01SP-ATHxxR49    | 75x40      |             | 15° 24° 30°     |        |
|           | LL01CT-ALNxxR49    | 75.8x20.1  |             | 30° 42°         |        |
|           | LL01ED-AKAXR49     | 85x23.5    |             | 60°             |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |             | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |             | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |             | 15° 24° 38° 55° |        |
|           | LL01CT-ALOxxR49    | 90.5x23.2  |             | 24° 38° 45°     |        |
|           | LL01ED-ALJxxR49    | 91.5x23.2  |             | 24° 38° 45°     |        |

■ JU1215 COB(7W)

| Type      | Part Number       | DxH(mm)   | Full Angle  | FWHM        | Holder |
|-----------|-------------------|-----------|-------------|-------------|--------|
| Single    | LL01ED-AYxxL06    | 43.8x24.5 | 38°         | 10°         |        |
|           | LL01ED-FGxxL06    | 43.8x24.5 | 38°         | 10°         |        |
| Reflector | LL01CR-PVxxL02    | 45x23.7   | 45° 60° 80° |             |        |
|           | LL01CT-AMXxxR49   | 44x11.8   |             | 45°         |        |
|           | LL01BR-TYRxxR34-P | 45x19.4   |             | 24° 34° 50° |        |
|           | LL01CIOTxxR2-P    | 50x30     |             | 20° 33° 45° |        |
|           | LL01CT-AJZxxR49   | 50x19     |             | 36° 50°     |        |
|           | LL01ED-AKYxxR49   | 50x30     |             | 24° 38° 45° |        |
|           | LL01ED-ALixxR49   | 50x19     |             | 24° 38° 55° |        |
|           | LL01ED-AKVxxR49   | 50.5x29.5 |             | 36°         |        |
|           | LL01ZZ-AAAxL49    | 70x35     |             | 24° 38° 55° |        |
|           | LL01CR-AYGxxR49   | 75x45     |             | 15° 24° 38° |        |
|           | LL01CT-AYTxxR35-P | 75x45     |             | 15° 24° 38° |        |
|           | LL01ED-ALAxR49    | 75x20.1   |             | 24° 38°     |        |
|           | LL01CT-ALNxxR49   | 75.8x20.1 |             | 30° 42°     |        |

■ JU2024 COB(15W)

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
| Reflector | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01BR-TYRxxR34-P  | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45°     |        |
|           | LL01ED-AKVxxR49    | 50.5x29.5  |            | 36°             |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01ED-ALAxR49     | 75x20.1    |            | 24° 38°         |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30°     |        |
|           | LL01ED-AKAXR49     | 85x23.5    |            | 60°             |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01CT-ALOxxR49    | 90.5x23.2  |            | 24° 38° 45°     |        |
|           | LL01ED-ALJxxR49    | 91.5x23.2  |            | 24° 38° 45°     |        |
|           | LL01ED-AKXxxR49    | 116x32     |            | 24° 38°         |        |



## PB04

| Type      | Part Number     | DxH(mm)   | Full Angle  | FWHM        | Holder |
|-----------|-----------------|-----------|-------------|-------------|--------|
| Single    | LL01ED-AYxxL06  | 43.8x24.5 | 38°         | 10°         |        |
|           | LL01ED-FGxxL06  | 43.8x24.5 | 38°         | 10°         |        |
|           | LL01ED-ABYxxL02 | 44x14.1   |             | 24°         |        |
|           | LL01CR-AQHxxL02 | 44x14.1   |             | 38° 45°     |        |
|           | LL01CR-PVxxL02  | 45x23.7   | 45° 60° 80° |             |        |
| Reflector | LL01ED-AKYxxR49 | 50x30     |             | 24° 38° 45° |        |
|           | LL01ED-ALixxR49 | 50x19     |             | 24° 38° 55° |        |

## PB07/10

| Type      | Part Number        | DxH(mm)    | Full Angle  | FWHM        | Holder |
|-----------|--------------------|------------|-------------|-------------|--------|
| Single    | LL01ED-AYxxL06     | 43.8x24.5  | 38°         | 10°         |        |
|           | LL01ED-FGxxL06     | 43.8x24.5  | 38°         | 10°         |        |
|           | LL01ED-ABYxxL02    | 44x14.1    |             | 24°         |        |
|           | LL01CR-AQHxxL02    | 44x14.1    |             | 38° 45°     |        |
|           | LL01CR-PVxxL02     | 45x23.7    | 45° 60° 80° |             |        |
|           | LL01CR-ABHxxL02    | 50x10.4    |             | 40° 60°     |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |             | 24° 38°     | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |             | 24° 38°     |        |
|           | LL01CT-AMYxxL06    | 76x23      |             | 24° 38°     |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |             | 24° 38°     |        |
| Reflector | LL01CIOTxxR2-P     | 50x30      |             | 20° 33° 45° |        |
|           | LL01ED-AKYxxR49    | 50x30      |             | 24° 38° 45° |        |
|           | LL01ED-ALixxR49    | 50x19      |             | 24° 38° 55° |        |

## PB15

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM        | Holder |
|-----------|--------------------|------------|------------|-------------|--------|
| Single    | LL01CR-ABHxxL02    | 50x10.4    |            | 40° 60°     |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°     | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°     |        |
|           | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°     |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°     |        |
| Reflector | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45° |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55° |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38° |        |

## PB20/30

| Type            | Part Number        | DxH(mm)    | Full Angle | FWHM                | Holder |
|-----------------|--------------------|------------|------------|---------------------|--------|
| Single          | LL01CT-AOFxxL06    | 74.4x13    |            | 24° 38°             |        |
|                 | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°             |        |
|                 | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°             |        |
|                 | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°             |        |
|                 | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°             |        |
|                 | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°         |        |
|                 | LL01ED-ASAxL02-P   | 90.6x22    |            | 24° 38°             |        |
| Reflector       | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45°         |        |
|                 | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°         |        |
|                 | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°         |        |
|                 | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38°     |        |
|                 | LL01ED-AKAxxR49    | 85x23.5    |            | 60°                 |        |
|                 | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°         |        |
|                 | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°         |        |
| Street Lighting | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55°     |        |
|                 | LL01ED-AKXxxR49    | 116x32     |            | 24° 38°             |        |
|                 | LL01ED-AU70120L02  | 94x42x28.4 |            | 70x120° (Asymmetry) |        |

## PB40

| Type            | Part Number        | DxH(mm)    | Full Angle | FWHM                | Holder |
|-----------------|--------------------|------------|------------|---------------------|--------|
| Single          | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°             |        |
|                 | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°             |        |
|                 | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°             |        |
|                 | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°         |        |
|                 | LL01ED-ASAxL02-P   | 90.6x22    |            | 24° 38°             |        |
| Reflector       | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38°     |        |
|                 | LL01ED-AKAxxR49    | 85x23.5    |            | 60°                 |        |
|                 | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°         |        |
|                 | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°         |        |
|                 | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55°     |        |
|                 | LL01ED-AKXxxR49    | 116x32     |            | 24° 38°             |        |
| Street Lighting | LL01ED-AU70120L02  | 94x42x28.4 |            | 70x120° (Asymmetry) |        |



COB  
10W/13W  
17W/24W



5152



H35A



## ■ COB 10W/13W/17W/24W

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|-------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-AOFxxL06   | 74.4x13    |            | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06   | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7  |            | 12° 15° 24°     |        |
|           | LL01CT-APGxxL06   | 84.6x18    |            | 24° 38°         |        |
|           | LL01CT-AZNxxL02-P | 88.5x15    |            | 15° 24° 38°     |        |
|           | LL01ED-ASAxxL02-P | 90.6x22    |            | 12° 24°         |        |
|           | LL01ED-ASAxxL06-P | 90.6x22    |            | 12° 24° 38°     |        |
| Reflector | LL01BR-TYRxxR34-P | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01ZZ-AAAxxL49   | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49   | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40      |            | 15° 24° 30°     |        |
|           | LL01CR-AYMxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50      |            | 15° 24° 38° 55° |        |

## ■ 5152

| Type   | Part Number     | DxH(mm)   | Full Angle       | FWHM    | Holder |
|--------|-----------------|-----------|------------------|---------|--------|
| Single | LL01CR-YJxxL02  | 19.4x12.7 | 40° 60° 80° 100° |         |        |
|        | LL01ZZ-AFLxxL02 | 22.2x10.4 |                  | 35° 50° |        |
|        | LL01ZZ-FLxxL06  | 22.2x10.6 | 25° 40° 60°      |         |        |
|        | LL01CR-XSxxL06  | 22.2x10.6 | 40°              |         |        |

## ■ H35A

| Type            | Part Number        | DxH(mm)    | Full Angle          | FWHM                   | Holder |
|-----------------|--------------------|------------|---------------------|------------------------|--------|
| Single          | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                     | 25°                    | V      |
|                 | LL01RP-AAFxxL02-M2 | 13.5x7.35  |                     | 45° 60°                | V      |
|                 | LL01HS-DFxxL02-M2  | 13.5x7.35  | 100°                |                        | V      |
|                 | LL01CR-HQxxL06     | 14.8x9.5   | 60° 80°             |                        |        |
|                 | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                     | 15x30°                 | V      |
|                 | LL01NI-NExxL06-M2  | 21.4x15.8  | 25° 40° 60° 80°     |                        | V      |
|                 | LL01OS-MQxxL06     | 19.45x13.7 | 25° 40° 60°         |                        |        |
|                 | LL01CR-EXxxL06-M2  | 23x10.63   | 40° 60°             |                        | V      |
|                 | LL01XP-FLxxL06-M2  | 24.3x11.6  | 10° 40° 60°         |                        | V      |
|                 | LL01CR-XSxxL06     | 22.2x10.6  | 40°                 |                        |        |
|                 | LL01XP-DGxxL06-M2  | 32.8x18    | 20° 30° 40° 50° 60° |                        | V      |
|                 | LL01ED-CTxxL06     | 31x11.2    | 38°                 |                        |        |
|                 | LL01ED-BBxxL06     | 35.8x16.5  | 60°                 |                        |        |
|                 | LL01OS-BWxxL06     | 37.2x15.35 | 30°                 |                        |        |
|                 | LL01OS-BYxxL06     | 37.2x15.35 | 30°                 |                        |        |
|                 | LL01ED-FMxxL06     | 19.9x10.55 | 38°                 |                        |        |
|                 | LL01OS-CBxxL06     | 25.6x10    | 15°                 |                        |        |
| Street Lighting | LL01ZZ-AGX45155L02 | 18x12.5x7  |                     | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95 |                     | 45x155°<br>(Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235x71x9.4 |                     | 60x140°<br>(Asymmetry) |        |

## H35C1

| Type    | Part Number        | DxH(mm)    | Full Angle                               | FWHM              | Holder |
|---------|--------------------|------------|------------------------------------------|-------------------|--------|
| Single  | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                                          | 25°               | V      |
|         | LL01RP-AAFxxL02-M2 | 13.5x7.35  |                                          | 45° 60°           | V      |
|         | LL01CR-BDFxxL06    | 11.8x6.45  |                                          | 40° 60°<br>30x70° |        |
|         | LL01HS-DFxxL02-M2  | 13.5x7.35  | 80° 100°                                 |                   | V      |
|         | LL01CR-HQxxL06     | 14.8x9.5   | 30° 40° 60° 80°                          |                   |        |
|         | LL01CR-OTxxL06     | 15x9.65    | 40° 60°                                  |                   |        |
|         | LL01NI-ANExxL02-M2 | 23.5x15.8  |                                          | 10° 20° 30°       | V      |
|         | LL01NI-BNExxL06-M2 | 23.5x15.8  |                                          | 25° 40°           | V      |
|         | LL01NI-NExxL06-M2  | 21.4x15.8  | 15° 17° 25° 40° 60°<br>80° 10x45° 25x45° |                   | V      |
| 3 in 1  | LL03ED-UYxxL06     | 33.2x10.3  | 40°                                      |                   |        |
|         | LL03OS-GKxxL06     | 33.2x9.8   | 40° 60°                                  |                   |        |
|         | LL03CR-RXxxL06     | 35x10.5    | 40° 60°                                  |                   |        |
| 4 in 1  | LL04CR-RXxxL06     | 35x10.5    | 40° 60°                                  |                   |        |
|         | LL04ED-UYxxL06     | 37x10.3    | 40°                                      |                   |        |
|         | LL04OS-GKxxL06     | 37x9.8     | 40° 60°                                  |                   |        |
| 6 in 1  | LL06CR-RXxxL06     | 50x10.5    | 40° 60°                                  |                   |        |
| 7 in 1  | LL07ZZ-FVxxL06     | 39.2x10.6  | 15° 25° 30° 60°                          |                   |        |
|         | LL07ED-UYxxL06     | 47x10.3    | 40°                                      |                   |        |
|         | LL07OS-GKxxL06     | 47x9.8     | 40° 60°                                  |                   |        |
|         | LL07CR-RXxxL06     | 50x10.3    | 40° 60°                                  |                   |        |
|         | LL07ZZ-FUxxL06     | 50.35x10.7 | 25°                                      |                   |        |
| 9 in 1  | LL09ED-UYxxL06     | 67x10.3    | 40°                                      |                   |        |
|         | LL09OS-GKxxL06     | 67x9.8     | 40° 60°                                  |                   |        |
|         | LL09CR-RXxxL06     | 70x10.3    | 40° 60°                                  |                   |        |
|         | LL09ED-ATxxL06     | 90.6x17.5  | 40°                                      |                   |        |
| 12 in 1 | LL12ED-UYxxL06     | 67x10.3    | 40°                                      |                   |        |
|         | LL12OS-GKxxL06     | 67x9.8     | 40° 60°                                  |                   |        |
|         | LL12CR-RXxxL06     | 70x10.3    | 40° 60°                                  |                   |        |
| 18 in 1 | LL18ED-BIxxL06     | 110x13.1   | 40°                                      |                   |        |
| 24 in 1 | LL24ED-ABxxL06     | 174.5x12.7 | 45°                                      |                   |        |

| Type            | Part Number        | DxH(mm)        | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|----------------|------------|------------------------|--------|
| Street Lighting | LL01LU-AIK45135L02 | 18x12.5x7.05   |            | 45x135°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |            | 70x130°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 100X120X10.2   |            | 75x135°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |            | 70x140°<br>(Asymmetry) |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |            | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32x17.6x9.8    |            | 70x140°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |            | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |            | 45x155°<br>(Asymmetry) |        |





## ■ L2C1-1202

| Type   | Part Number     | DxH(mm)   | Full Angle | FWHM        | Holder |
|--------|-----------------|-----------|------------|-------------|--------|
| Single | LL01ED-AFDxxL06 | 26x15.3   |            | 20°         |        |
|        | LL01ED-ACAxL14  | 29.9x12   |            | 24°         |        |
|        | LL01CR-ZExxL02  | 35 x 20.4 |            | 20° 30° 45° |        |
|        | LL01ED-AYxxL06  | 43.8x24.5 | 38°        | 10°         |        |
|        | LL01ED-FGxxL06  | 43.8x24.5 | 38°        | 10°         |        |
|        | LL01ED-ABY24L02 | 44x14.1   |            | 24°         |        |
|        | LL01CR-AQHxxL02 | 44x14.1   |            | 38° 45°     |        |
|        | LL01WT-BSSxxL46 | 44x12.2   |            | 24° 32°     |        |
|        | LL01CR-PVxxL02  | 45x23.7   |            | 45° 60° 80° |        |
|        | LL01CR-ABH40L02 | 50x10.4   |            | 40°         |        |
|        | LL01CT-AOFxxL02 | 74.4x13   |            | 24° 38°     |        |
|        | LL01SP-AVAxxL06 | 42x9.65   |            | 40°         |        |
|        | LL01CR-BJLxxL02 | 35x12.55  |            | 40°         |        |
|        | LL01NI-BNXxxL02 | 44x14.6   |            | 38°         |        |
|        | LL01CI-WNxxL02  | 72x12.9   |            | 40°         |        |
|        | LL01CI-WMxxL02  | 92.5x27.5 |            | 40°         |        |

## ■ LHC1-1202/1203

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01WT-BSSxxL46    | 44x12.2    |            | 24° 32°         |        |
|           | LL01CR-PVxxL02     | 45x23.7    |            | 45° 60° 80°     |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 38°             |        |
|           | LL01CR-BAY24L06    | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P  | 76.1x12.7  |            | 12° 24°         |        |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
|           | LL01NI-QIxxL06     | 30x17      |            | 25°             |        |
|           | LL01CR-BJLxxL02    | 35x12.55   |            | 40°             |        |
|           | LL01SP-AVAxxL06    | 42x9.65    |            | 40°             |        |
|           | LL01NI-BNXxxL02    | 44x14.6    |            | 38°             |        |
|           | LL01CI-WNxxL02     | 72x12.9    |            | 40°             |        |
|           | LL01CI-WMxxL02     | 92.5x27.5  |            | 40°             |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 38°     |        |
| Reflector | LL01ZZ-AAAxL49     | 70x35      |            | 38° 55°         |        |
|           | LL01CT-AJZxxR49    | 50x19      |            | 36° 50°         |        |
|           | LL01ED-AKYxxR49    | 50x30      |            | 24° 38° 45°     |        |
|           | LL01ED-ALixxR49    | 50 x 19    |            | 24° 38° 55°     |        |
|           | LL01ZZ-AAAxL49     | 70 x 35    |            | 38° 55°         |        |
|           | LL01SP-ATHxxR49    | 75 x 40    |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90 x 50    |            | 15° 24° 38° 55° |        |

## ■ LHC1-1204

| Type   | Part Number        | DxH(mm)   | Full Angle | FWHM    | Holder |
|--------|--------------------|-----------|------------|---------|--------|
| Single | LL01CR-BAYxxL06    | 75.8x22.5 |            | 24° 38° |        |
|        | LL01CT-AMYxxL06    | 75.8x23   |            | 24° 38° |        |
|        | LL01ZZ-AOFxxL06-M2 | 76.4x16.7 |            | 24° 38° | V      |

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01SP-AVAxxL06    | 42x9.65    |            | 40°             |        |
|           | LL01CI-WNxxL02     | 72x12.9    |            | 40°             |        |
|           | LL01CI-WMxxL02     | 92.5x27.5  |            | 40°             |        |
| Reflector | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 38°     |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |

## ■ LHC1-1205

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06    | 75.8x22.5  |            | 24° 38°         |        |
|           | LL01CR-ABHxxL02    | 50x10.4    |            | 40°             |        |
|           | LL01CT-AMYxxL06    | 75.8x23    |            | 24° 38°         |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01SP-AVAxxL06    | 42x9.65    |            | 40°             |        |
|           | LL01CI-WNxxL02     | 72x12.9    |            | 40°             |        |
|           | LL01CI-WMxxL02     | 92.5x27.5  |            | 40°             |        |
| Reflector | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01CR-AYM15R35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYX15R35-P  | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38° |        |

## ■ LHC1-1208

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06    | 75.8x22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 75.8x23    |            | 24°             |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01SP-AVAxxL06    | 42x9.65    |            | 40°             |        |
|           | LL01CI-WNxxL02     | 72x12.9    |            | 40°             |        |
|           | LL01CI-WMxxL02     | 92.5x27.5  |            | 40°             |        |
|           | LL01ED-IHxxL02     | 87x44.25   | 60°        |                 |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01CR-AYM15R35-P  | 90x50      |            | 15° 24° 38°     |        |
| Reflector | LL01CT-AYX15R35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38° |        |

# Rebel

| Type   | Part Number        | DxH(mm)    | Full Angle                         | FWHM                             | Holder |
|--------|--------------------|------------|------------------------------------|----------------------------------|--------|
| Single | LL01CR-BRxxL06     | 19.65x12.5 | 10x45° 15x50° 15x80°<br>40x90° 40° |                                  |        |
|        | LL01LU-DFxxL06-M2  | 13.5x7.35  | 80° 100° 30x65°                    |                                  | V      |
|        | LL01CR-DGxxL06     | 28.8x16.75 | 30° 40° 50° 60°                    |                                  |        |
|        | LL01CR-HQxxL06     | 14.8x9.5   | 40° 60° 80°                        |                                  |        |
|        | LL01CR-NExxL06     | 19.4x15    | 25° 40° 60° 80°<br>10x45° 25x45°   |                                  |        |
|        | LL01ED-AJxxL06     | 28.9x19.7  | 45° 60°                            |                                  |        |
|        | LL01ED-AKxxL06     | 34.4x18.8  | 40°                                |                                  |        |
|        | LL01ED-CTxxL06     | 31x11.2    | 38° 80°                            |                                  |        |
|        | LL01OS-AFC15L06    | 19.4x11.43 |                                    | 10° 15° 25° 30°                  |        |
|        | LL01LU-AFCxxL06-M2 | 21.3x12.4  |                                    | 10° 15° 25° 30°<br>10x35° 15x30° | V      |
|        | LL01NI-AAFxxL02    | 11.8x6.5   |                                    | 45° 60°                          |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 40° 60° 80°                        |                                  |        |
|        | LL01OS-AXxxL02     | 20x11.5    | 20° 40° 60°                        |                                  |        |
|        | LL01OS-BWxxL06     | 37.2x15.35 | 30°                                |                                  |        |
|        | LL01OS-BYxxL06     | 37.2x15.35 | 30°                                |                                  |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 40° 60°                            |                                  |        |
|        | LL01LU-QDxxL06-M2  | 23x9.63    | 25° 40° 60° 30x65°                 |                                  | V      |
|        | LL01LU-FLxxL06-M2  | 24.3x11.5  | 10° 25° 40° 60° 30x65°             |                                  | V      |
|        | LL01ED-FMxxL06     | 19.9x10.55 | 38°                                |                                  |        |
|        | LL01LU-AAxxL06     | 19.7x13.8  | 20x65°                             |                                  |        |
|        | LL01LU-LHxxL06-M2  | 22.4x9.63  | 15°                                |                                  | V      |
|        | LL01ZZ-AHAxxL06    | 50x25.4    |                                    | 5°                               |        |
| 3 in 1 | LL03CR-AZxxL06     | 50x14.5    | 25° 45°                            |                                  |        |
|        | LL03CR-RXxxL06     | 35x9.6     | 40° 60°                            |                                  |        |
|        | LL03ED-UYxxL06     | 33.2x10.3  | 40°                                |                                  |        |
|        | LL03LU-DMxxL06     | 23.1x11    | 15° 25° 40°                        |                                  |        |
|        | LL03LU-DOxxL06     | 35x10.6    | 15° 25° 40°                        |                                  |        |
|        | LL03OS-GKxxL06     | 33.2x9.8   | 25° 40° 60°                        |                                  |        |
| 4 in 1 | LL04CR-RXxxL06     | 35x9.7     | 40° 60°                            |                                  |        |
|        | LL04ED-UYxxL06     | 37x10.3    | 40°                                |                                  |        |
|        | LL04LU-DNxxL06     | 25.4x10.5  | 15° 25° 40°                        |                                  |        |
|        | LL04LU-DOxxL06     | 35x10.4    | 15° 25° 40°                        |                                  |        |
|        | LL04LU-GPxxL06     | 22.2x6.8   | 15° 25° 45°                        |                                  |        |
|        | LL04OS-GKxxL06     | 37x 9.8    | 40° 60°                            |                                  |        |
|        | LL04ZZ-EXxxL06     | 25.4x10.4  | 30°                                |                                  |        |

| Type            | Part Number        | DxH(mm)        | Full Angle  | FWHM                | Holder |
|-----------------|--------------------|----------------|-------------|---------------------|--------|
| 6 in 1          | LL06CR-CKxxL06     | 73.2x13.5      | 25°         |                     |        |
|                 | LL06CR-RXxxL06     | 50x9.65        | 40° 60°     |                     |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5      | 25° 40° 60° |                     |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13          |             | 15° 25°             | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13          |             | 25°                 | V      |
| 7 in 1          | LL07CR-RXxxL06     | 50x10.3        | 40° 60°     |                     |        |
|                 | LL07ED-UYxxL06     | 47x10.3        | 40°         |                     |        |
|                 | LL07OS-GKxxL06     | 47x9.8         | 40° 60°     |                     |        |
|                 | LL07ZZ-FUxxL06     | 50.35x10.7     |             | 15° 25°             |        |
|                 | LL07ZZ-FVxxL06     | 39.2x10.6      |             | 15° 25°             |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3        | 40° 60°     |                     |        |
|                 | LL09ED-UYxxL06     | 67x10.3        | 40°         |                     |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 40° 60°     |                     |        |
|                 | LL09ED-ATxxL06     | 90.6x17.5      | 40°         |                     |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3        | 40° 60°     |                     |        |
|                 | LL12ED-AGxxL06     | 112x13.4       | 45°         |                     |        |
|                 | LL12ED-UYxxL06     | 67x10.3        | 40°         |                     |        |
|                 | LL12OS-GKxxL06     | 67x9.8         | 40° 60°     |                     |        |
| 15 in 1         | LL15ED-BHxxL06     | 95x11.1        | 40°         |                     |        |
| 18 in 1         | LL18ED-BLxxL06     | 110x13.1       | 25° 40°     |                     |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7     | 45°         |                     |        |
| 36 in 1         | LL36ED-AAxxL06     | 140x12.6       | 45°         |                     |        |
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95   |             | 80x150° (Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18x10.2x6.1    |             | 85x135° (Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |             | 60x135° (Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |             | 60x90° (Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2    |             | 85x150° (Symmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |             | 70x130° (Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |             | 45x135° (Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |             | 70x140° (Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |             | 45x155° (Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2   |             | 75x135° (Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |             | 45x155° (Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |             | 80x150° (Asymmetry) |        |





## ■ Rebel ES

| Type   | Part Number        | DxH(mm)    | Full Angle                         | FWHM | Holder |
|--------|--------------------|------------|------------------------------------|------|--------|
| Single | LL01CR-BRxxL06     | 19.65x12.5 | 40° 10x45° 15x50°<br>15x80° 40x90° |      |        |
|        | LL01LU-DFxxL06-M2  | 13.5x7.35  | 80° 100° 30x65°                    |      | V      |
|        | LL01CR-DGxxL06     | 28.8x16.75 | 30° 40° 50° 60°                    |      |        |
|        | LL01CR-HQxxL06     | 14.8x9.5   | 40° 60° 80°                        |      |        |
|        | LL01CR-NExxL06     | 19.4x15    | 25° 40° 60° 80° 10x45°<br>25x45°   |      |        |
|        | LL01ED-AJxxL06     | 28.9x18.55 | 60°                                |      |        |
|        | LL01LU-AFCxxL06-M2 | 21.3x12.4  | 15x60° 20x50°                      |      | V      |
|        | LL01NI-AAFxxL02    | 11.8x6.5   |                                    | 60°  |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 40° 60° 80°                        |      |        |
|        | LL01OS-AXxxL02     | 20x11.4    | 60°                                |      |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 40° 60°                            |      |        |
|        | LL01LU-EXxxL06-M2  | 22.4x9.7   | 25° 40° 60° 30x65°                 |      | V      |
|        | LL01LU-FLxxL06-M2  | 24.3x11.5  | 10° 25° 40° 60° 30x65°             |      | V      |
|        | LL01LU-LHxxL06-M2  | 22.4x9.63  | 15°                                |      | V      |
| 3 in 1 | LL01ZZ-AHAxxL06    | 50x25.4    |                                    | 5°   |        |
|        | LL03CR-AZxxL06     | 50x14.5    | 45° 60°                            |      |        |
|        | LL03CR-RXxxL06     | 35x9.6     | 40° 60°                            |      |        |
| 4 in 1 | LL03ED-UYxxL06     | 33.2x10.3  | 40°                                |      |        |
|        | LL04CR-RXxxL06     | 35x9.7     | 40° 60°                            |      |        |
|        | LL04ED-UYxxL06     | 37x10.3    | 40°                                |      |        |
|        | LL04LU-GPxxL06     | 22.2x6.8   | 15° 25° 45°                        |      |        |
| 6 in 1 | LL04DD-AMGxxL06    | 35x7       |                                    | 38°  |        |
|        | LL06CR-RXxxL06     | 50x9.65    | 40° 60°                            |      |        |
| 7 in 1 | LL06ED-ADxxL06     | 73.3x11.5  | 8° 25° 40° 60°                     |      |        |
|        | LL07CR-RXxxL06     | 50x10.3    | 40° 60°                            |      |        |
|        | LL07ED-8FxxL06     | 43.9x8.55  | 25°                                |      |        |
|        | LL07ED-GKxxL06     | 47x10.2    | 25° 40°                            |      |        |
|        | LL07ED-UYxxL06     | 47x10.3    | 40°                                |      |        |

| Type            | Part Number        | DxH(mm)         | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|-----------------|------------|------------------------|--------|
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3         | 40° 60°    |                        |        |
|                 | LL09ED-BZxxL06     | 90.75x16.5      | 15° 25°    |                        |        |
|                 | LL09ED-UYxxL06     | 67x10.3         | 40°        |                        |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3         | 40° 60°    |                        |        |
|                 | LL12ED-UYxxL06     | 67x10.3         | 40°        |                        |        |
| 15 in 1         | LL15ED-BHxxL06     | 95x11.1         | 40°        |                        |        |
| 18 in 1         | LL18ED-BIxxL06     | 110x13.1        | 40°        |                        |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7      | 25° 45°    |                        |        |
| 36 in 1         | LL36ED-AAxxL06     | 140x12.6        | 45°        |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1     |            | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9      |            | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6  |            | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2     |            | 85x150°<br>(Symmetry)  |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3     |            | 50x150°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05    |            | 45x135°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6       |            | 70x140°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7       |            | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95      |            | 45x155°<br>(Asymmetry) |        |
|                 | LL14LU-ALY90130L19 | 250x60x9.3      |            | 90x130°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |            | 75x135°<br>(Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |            | 65x140°<br>(Asymmetry) |        |

## Luxeon A

| Type   | Part Number       | DxH(mm)    | Full Angle        | FWHM | Holder |
|--------|-------------------|------------|-------------------|------|--------|
| Single | LL01OS-HGxxL06    | 10x6       | 60°               |      |        |
|        | LL01NI-AAFxxL02   | 11.8x6.5   |                   | 60°  |        |
|        | LL01LU-DFxxL06-M2 | 13.5x7.35  | 60° 80° 30x65°    |      | V      |
|        | LL01CR-HQxxL06    | 14.8x9.5   | 40° 60°           |      |        |
|        | LL01CR-OTxxL06    | 15x9.7     | 40° 60° 80°       |      |        |
|        | LL01CR-NExxL06    | 19.4x15    | 40° 60° 80°       |      |        |
|        | LL01CR-SQxxL06    | 19.4x12.9  | 40° 60°           |      |        |
|        | LL01CR-YJxxL02    | 19.4x12.6  | 40° 60°           |      |        |
|        | LL01NI-GRxxL06    | 19.45x13.5 | 40° 60° 80°       |      |        |
|        | LL01OS-MQxxL06    | 19.45x13.7 | 40° 60°           |      |        |
|        | LL01CR-BRxxL06    | 19.65x12.5 | 40° 15x50° 15x80° |      |        |
|        | LL01ED-ASxxR06    | 19.9x10.55 | 38°               |      |        |
|        | LL01OS-AXxxL02    | 20x11.5    | 40° 60°           |      |        |
|        | LL01LU-QDxxL06-M2 | 22.4x9.63  | 25° 40°           |      | V      |
|        | LL01LU-FLxxL06-M2 | 24.3x11.6  | 40° 60°           |      | V      |
|        | LL01ED-ANxxL06    | 22.7x9.6   | 15x50°            |      |        |
|        | LL01ED-CYxxL06    | 26.8x20.6  | 45°               |      |        |
|        | LL01CR-DGxxL06    | 28.8x16.6  | 30° 40° 60°       |      |        |
|        | LL01ED-AJxxL06    | 28.9x19.7  | 40°               |      |        |
|        | LL01ED-AKxxL06    | 34.4x18.8  | 25° 40°           |      |        |
|        | LL01ED-BBxxL06    | 35.8x16.5  | 60°               |      |        |
|        | LL01OS-BWxxL06    | 37.2x15.35 | 30°               |      |        |
|        | LL01OS-BYxxL06    | 37.2x15.35 | 30°               |      |        |
|        | LL01LU-AAxxL06    | 19.7x13.8  | 20x65°            |      |        |
|        | LL01ED-BVxxL06    | 19.9x10.7  | 60°               |      |        |
|        | LL01ED-FMxxL06    | 19.9x10.55 | 38°               |      |        |
|        | LL01OS-CBxxL06    | 25.6x10    | 15°               |      |        |
|        | LL01ZZ-AHAxxL06   | 50x25.4    |                   | 5°   |        |
| 3 in 1 | LL03LU-DMxxL06    | 23.1x11    | 25° 40°           |      |        |
|        | LL03CR-RXxxL06    | 35x10.5    | 40° 60°           |      |        |
|        | LL03LU-DOxxL06    | 35x10.6    | 25° 40°           |      |        |
|        | LL03CR-AZxxL06    | 50x14.5    | 45°               |      |        |
|        | LL03CR-HKxxL06    | 35x8.2     | 40°               |      |        |

| Type            | Part Number        | DxH(mm)        | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|----------------|------------|------------------------|--------|
| 4 in 1          | LL04LU-DNxxL06     | 25.4x10.5      | 40°        |                        |        |
|                 | LL04CR-ABDxxL06    | 22x6.7         |            | 24°                    |        |
|                 | LL04CR-GPxxL06     | 22.2x6.8       | 38° 45°    |                        |        |
|                 | LL04CR-RXxxL06     | 35x10.5        | 40° 60°    |                        |        |
|                 | LL04LU-DOxxL06     | 35x10.4        | 25° 40°    |                        |        |
|                 | LL04ED-EXxxL06     | 25.4x10.4      | 60°        |                        |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x10.5        | 40° 60°    |                        |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5      | 60°        |                        |        |
| 7 in 1          | LL07ZZ-FVxxL06     | 39.2x10.8      | 25° 30°    |                        |        |
|                 | LL07CR-RXxxL06     | 50x10.3        | 40° 60°    |                        |        |
|                 | LL07ZZ-FUxxL06     | 50.35x10.7     | 25°        |                        |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3        | 40° 60°    |                        |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3        | 40° 60°    |                        |        |
| 18 in 1         | LL18ED-BLxxL06     | 110x13.1       | 40°        |                        |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7     | 45°        |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |            | 85x135°<br>(Asymmetry) |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3     |            | 60x140°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2   |            | 75x135°<br>(Asymmetry) |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3    |            | 15x150°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |            | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |            | 45x155°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |            | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |            | 60x90°<br>(Symmetry)   |        |
|                 |                    |                |            |                        |        |





## Luxeon M

| Type            | Part Number        | DxH(mm)     | Full Angle  | FWHM                    | Holder |
|-----------------|--------------------|-------------|-------------|-------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7     |             | 24° 38° 55°             |        |
|                 | LL01CR-ABHxxL02    | 50x10.4     |             | 40° 60°                 |        |
|                 | LL01CR-ADPxxL06    | 75.8x35.2   |             | 15° 24° 38°             |        |
|                 | LL01ED-ABYxxL02    | 44x14.1     |             | 24°                     |        |
|                 | LL01CR-BRxxL06     | 19.65x12.5  | 40°         |                         |        |
|                 | LL01LU-DGxxL06-M2  | 32.8x18     |             | 30° 40° 50° 60°         | V      |
|                 | LL01CR-PVxxL02     | 45x23.7     | 45° 60° 80° |                         |        |
|                 | LL01CR-WlxxL02     | 28.8x17.4   |             | 25° 40°                 |        |
|                 | LL01CR-ZExxL02     | 35x20.4     |             | 20° 30° 45°             |        |
|                 | LL01ED-AFDxxL06    | 26x15.3     |             | 20°                     |        |
|                 | LL01ED-AJxxL06     | 28.9x18.55  | 60°         |                         |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8   | 40°         |                         |        |
|                 | LL01ED-AYxxL06     | 43.8x24.5   | 38°         | 10°                     |        |
|                 | LL01ED-CYxxL06     | 26.8x20.6   | 30° 45°     |                         |        |
|                 | LL01LU-AFLxxL02-M2 | 24.3x11.5   |             | 35° 50° 70°             | V      |
| 6 in 1          | LL01ED-BVxxL06     | 19.9x10.7   | 60°         |                         |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5   | 40° 60°     |                         |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13       |             | 15° 25° 35°             | V      |
| Street Lighting | LL06CR-AXLxxL06-M2 | 76x13       |             | 25°                     | V      |
|                 | LL01CR-XW70140L02  | 32x17.6x9.8 |             | 70°x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32x18.5x9.5 |             | 80°x150°<br>(Asymmetry) |        |

## Luxeon M2

| Type            | Part Number        | DxH(mm)     | Full Angle        | FWHM                    | Holder |
|-----------------|--------------------|-------------|-------------------|-------------------------|--------|
| Single          | LL01ED-CVxxL02     | 19.6x12.3   |                   | 15°                     |        |
|                 | LL01OS-BFVxxL06    | 20.8x12.35  |                   | 15°                     |        |
|                 | LL01ED-CYxxL06     | 26.8x20.6   | 30° 45°<br>30x65° |                         |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7   | 30° 40° 60°       |                         |        |
|                 | LL01CR-ABGxxL02    | 34x15.7     |                   | 24° 38° 55°             |        |
|                 | LL01ED-BCQxxL06    | 34.75x19.25 |                   | 15°                     |        |
| Street Lighting | LL01LU-AGV80150L02 | 32x18.5x9.5 |                   | 80°x150°<br>(Asymmetry) |        |

## Luxeon R

| Type   | Part Number        | DxH(mm)    | Full Angle         | FWHM    | Holder |
|--------|--------------------|------------|--------------------|---------|--------|
| Single | LL01NI-AAFxxL02    | 11.8x6.5   |                    | 60°     |        |
|        | LL01LU-BDFxxL06-M2 | 13.5x7.35  |                    | 40° 60° | V      |
|        | LL01LU-DFxxL06-M2  | 13.5x7.35  | 80° 100°           |         | V      |
|        | LL01CR-HQxxL06     | 14.8x9.5   | 40° 60°            |         |        |
|        | LL01CR-OTxxL06     | 15x9.7     | 40° 60° 80°        |         |        |
|        | LL01LU-AFCxxL06    | 19.4x11.8  |                    | 15X30°  |        |
|        | LL01NI-ANExxL02    | 19.4x14.94 |                    | 20° 30° |        |
|        | LL01CR-BNExxL06    | 19.4x14.6  |                    | 40° 60° |        |
|        | LL01CR-NExxL06     | 19.4x15    | 40° 60° 80° 25X45° |         |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 80°                |         |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 25° 40° 60°        |         |        |
|        | LL01OS-AXxxL02     | 20x11.4    | 60°                |         |        |
|        | LL01CR-BExxL06     | 20.9x9.2   |                    | 40° 60° |        |
|        | LL01LU-QDxxL06-M2  | 22.4x9.63  | 25° 60°            |         | V      |
|        | LL01LU-FLxxL06-M2  | 24.3x11.6  | 25° 30X65°         |         | V      |
|        | LL01ED-CYxxL06     | 26.8x20.6  | 30° 45°            |         |        |
|        | LL01CR-DGxxL06     | 28.8x16.65 | 30° 40° 60°        |         |        |
|        | LL01ED-BBxxL06     | 35.8x16.5  | 60°                |         |        |
|        | LL01OS-BWxxL06     | 37.2x15.35 | 30°                |         |        |
|        | LL01OS-BYxxL06     | 37.2x15.35 | 30°                |         |        |
|        | LL01LU-AAxxL06     | 19.7x13.8  | 20X65°             |         |        |
|        | LL01OS-CBxxL06     | 25.6x10    | 15°                |         |        |

## Luxeon S

| Type   | Part Number        | DxH(mm)   | Full Angle  | FWHM        | Holder |
|--------|--------------------|-----------|-------------|-------------|--------|
| Single | LL01CR-ABGxxL02    | 34x15.7   |             | 24° 38° 55° |        |
|        | LL01CR-ADPxxL06    | 75.8x35.2 |             | 15° 24° 38° |        |
|        | LL01ED-ABYxxL02    | 44x14.1   |             | 24°         |        |
|        | LL01CR-PVxxL02     | 45x23.7   | 45° 60° 80° |             |        |
|        | LL01CR-ZExxL02     | 35x20.4   |             | 20° 30° 45° |        |
|        | LL01ED-AYxxL06     | 43.8x24.5 | 38°         | 10°         |        |
|        | LL01LU-AFLxxL02-M2 | 24.3x11.5 |             | 35° 50°     | V      |

## Luxeon T/Tx

| Type   | Part Number     | DxH(mm)    | Full Angle                               | FWHM            | Holder |
|--------|-----------------|------------|------------------------------------------|-----------------|--------|
| Single | LL01CR-BExxL06  | 20.9x9.2   | 60°                                      |                 |        |
|        | LL01CR-BMxxL06  | 35.8x15.85 | 40°                                      |                 |        |
|        | LL01CR-BNExxL06 | 19.4x14.6  | 40° 35x70°                               |                 |        |
|        | LL01CR-BRxxL06  | 19.65x12.5 | 10x45° 15x50°<br>15x80° 40x90°           |                 |        |
|        | LL01CR-DFxxL06  | 11.8x6.65  | 80° 100° 30x65°                          |                 |        |
|        | LL01CR-DGxxL06  | 28.8x16.75 | 20° 30° 40° 50° 60°                      |                 |        |
|        | LL01CR-HQxxL06  | 14.8x9.4   | 60°                                      |                 |        |
|        | LL01CR-NExxL06  | 19.4x15    | 15° 17° 25° 40° 60° 80°<br>10x45° 25x45° |                 |        |
|        | LL01CR-PVxxL02  | 45x23.7    | 45° 60° 80°                              |                 |        |
|        | LL01CR-SQxxL06  | 19.4x12.9  | 40° 60° 80°                              |                 |        |
|        | LL01CR-WlxxL02  | 28.8x17.4  |                                          | 25° 40°         |        |
|        | LL01CR-XSxxL06  | 22.2x10.6  | 40°                                      |                 |        |
|        | LL01CR-YJxxL02  | 19.4x12.7  | 40° 60° 80° 100°                         |                 |        |
|        | LL01CR-ZExxL02  | 35x20.4    |                                          | 20°             |        |
|        | LL01ED-AFDxxL06 | 26x15.3    |                                          | 20°             |        |
|        | LL01ED-AJxxL06  | 28.9x19.7  | 25° 40° 60°                              |                 |        |
|        | LL01ED-AKxxL06  | 34.4x18.8  | 40°                                      |                 |        |
|        | LL01ED-ALxxL06  | 19.7x9.9   | 30x65°                                   |                 |        |
|        | LL01ED-ANxxL06  | 22.7x9.6   | 15x50°                                   |                 |        |
|        | LL01ED-AOxxL06  | 19.4x13.45 | 60°                                      |                 |        |
|        | LL01ED-ASxxR06  | 19.9x10.55 | 38°                                      |                 |        |
|        | LL01ED-CTxxL06  | 31x11.2    | 80°                                      |                 |        |
|        | LL01ED-CYxxL06  | 26.8x20.6  | 30°                                      |                 |        |
|        | LL01LU-AFCxxL06 | 19.4x11.8  | 20x50°                                   |                 |        |
|        | LL01CR-AAFxxL02 | 11.8x6.65  |                                          | 25°             |        |
|        | LL01NI-AAFxxL02 | 11.8x6.65  |                                          | 45° 60°         |        |
|        | LL01NI-ANExxL02 | 19.4x14.94 |                                          | 10° 20° 30°     |        |
|        | LL01NI-GRxxL06  | 19.45x13.5 | 40° 60° 80°                              |                 |        |
|        | LL01OS-AXxxL02  | 20x11.5    | 20° 40° 60°                              |                 |        |
|        | LL01OS-BWxxL06  | 37.2x15.35 | 30°                                      |                 |        |
|        | LL01OS-BYxxL06  | 37.2x15.35 | 10° 30°                                  |                 |        |
|        | LL01OS-MQxxL06  | 19.45x13.7 | 15° 25° 40° 60°                          |                 |        |
|        | LL01ZZ-AFLxxL02 | 22.2x10.4  |                                          | 35°             |        |
|        | LL01ZZ-AHZxxL02 | 22.2x10.6  |                                          | 24° 38°         |        |
|        | LL01ZZ-EXxxL06  | 21x9.3     | 40° 30x65°                               |                 |        |
|        | LL01NI-BYKxxL19 | 16x8       |                                          | 20° 30° 40° 60° |        |

| Type            | Part Number        | DxH(mm)        | Full Angle      | FWHM                | Holder |
|-----------------|--------------------|----------------|-----------------|---------------------|--------|
| Single          | LL01ZZ-FLxxL06     | 22.2x10.6      | 10° 25° 40° 60° |                     |        |
|                 | LL01CR-ADTxL06     | 35x10.65       | 40°             |                     |        |
|                 | LL01CR-FOxxL06     | 35.8x15.75     | 40°             |                     |        |
|                 | LL01ED-FMxxL06     | 19.9x10.55     | 38°             |                     |        |
|                 | LL01LU-AAxxL06     | 19.7x13.8      | 20°x65°         |                     |        |
|                 | LL01LU-LHxxL06     | 21x9.15        | 15°             |                     |        |
|                 | LL01NI-DZxxL06     | 22x15.7        | 20°x40°         |                     |        |
|                 | LL01OS-CBxxL06     | 25.6x10        | 15°             |                     |        |
|                 | LL03CR-AZxxL06     | 50x14.5        | 25° 45°         |                     |        |
|                 | LL03CR-RXxxL06     | 35x9.6         | 25° 40° 60°     |                     |        |
| 3 in 1          | LL03ED-BCxxL06     | 43.9x9.5       |                 | 15° 25°             |        |
|                 | LL03ED-CTxxL06     | 31x11.2        | 38° 80°         |                     |        |
|                 | LL03ED-UYxxL06     | 33.2x10.3      | 40° 60°         |                     |        |
|                 | LL03LU-DMxxL06     | 23.1x11        | 15° 25°         |                     |        |
|                 | LL03LU-DOxxL06     | 35x10.6        | 15° 25°         |                     |        |
|                 | LL03OS-GKxxL06     | 33.2x9.8       | 40° 60° 80°     |                     |        |
|                 | LL04CR-RXxxL06     | 35x9.7         | 40° 60°         |                     |        |
| 4 in 1          | LL04ED-BDxxL06     | 43.9x9.5       |                 | 15°                 |        |
|                 | LL04LU-DNxxL06     | 25.4x10.5      |                 | 15° 25°             |        |
|                 | LL04LU-DOxxL06     | 35x10.4        |                 | 15° 25°             |        |
|                 | LL04LU-GPxxL06     | 22.2x6.8       |                 | 15°                 |        |
|                 | LL04OS-GKxxL06     | 37x9.8         | 40° 60° 80°     |                     |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x9.65        | 40° 60°         |                     |        |
| 7 in 1          | LL07CR-RXxxL06     | 50x10.3        | 40° 60°         |                     |        |
|                 | LL07OS-GKxxL06     | 47x9.8         | 40° 60° 80°     |                     |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3        | 40° 60°         |                     |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 40° 60° 80°     |                     |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3        | 40° 60°         |                     |        |
|                 | LL12OS-GKxxL06     | 67x9.8         | 40° 60° 80°     |                     |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |                 | 60x135° (Symmetry)  |        |
| Street Lighting | LL01CR-OW70130L02  | 17.4x12.75x7.2 |                 | 70x130° (Asymmetry) |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5  |                 | 60x130° (Symmetry)  |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.33    |                 | 60x140° (Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |                 | 45x155° (Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |                 | 80x150° (Asymmetry) |        |
|                 | LL04CR-CFN35155L02 | 50x50x6.5      |                 | 35x155° (Asymmetry) |        |
|                 | LL04CR-CFN60155L02 | 50x50x7.3      |                 | 60x155° (Asymmetry) |        |
|                 | LL04CR-BXJ60L02    | 50x50x7.3      |                 | 60° (Symmetry)      |        |
|                 | LL04CR-BXJ90L02    | 50x50x7.3      |                 | 90° (Symmetry)      |        |
|                 |                    |                |                 |                     |        |





## ■ Luxeon Z / ES

| Type    | Part Number     | DxH(mm)    | Full Angle     | FWHM            | Holder |
|---------|-----------------|------------|----------------|-----------------|--------|
| Single  | LL01CR-BDFxxL06 | 11.8x6.45  |                | 40° 60°         |        |
|         | LL01CR-BNExxL06 | 19.4x14.6  |                | 40° 60° 35x70°  |        |
|         | LL01OS-BFVxxL06 | 20.8x12.35 |                | 15° 25° 30°     |        |
|         | LL01CR-BEXxxL06 | 20.9x9.2   |                | 25° 60°         |        |
|         | LL01ED-AFDxxL06 | 26x15.5    |                | 15°             |        |
|         | LL01ED-CYxxL06  | 26.8x20.6  | 30° 45° 30x65° |                 |        |
|         | LL01CR-DGxxL06  | 28.8x16.75 | 30° 40° 50°    |                 |        |
| 3 in 1  | LL01NI-BYKxxL19 | 16x8       |                | 20° 30° 40° 60° |        |
|         | LL03LU-DMxxL06  | 23.1x11    | 25°            |                 |        |
|         | LL03ED-GKxxL06  | 33.2x10.2  | 25° 40°        |                 |        |
|         | LL03OS-GKxxL06  | 33.2x9.8   | 40° 60° 80°    |                 |        |
|         | LL03CR-RXxxL06  | 35x10.5    | 40° 60°        |                 |        |
| 4 in 1  | LL03LU-DOxxL06  | 35x10.6    | 25°            |                 |        |
|         | LL04CR-GPxxL06  | 22.2x6.7   | 38° 45°        |                 |        |
|         | LL04LU-GPxxL06  | 22.2x6.8   | 25° 45°        |                 |        |
|         | LL04LU-DNxxL06  | 25.4x10.5  | 25°            |                 |        |
|         | LL04CR-RXxxL06  | 35x10.5    | 40° 60°        |                 |        |
|         | LL04LU-DOxxL06  | 35x10.4    | 25°            |                 |        |
|         | LL04ED-GKxxL06  | 37x10.3    | 25° 40°        |                 |        |
| 5 in 1  | LL04OS-GKxxL06  | 37x9.8     | 40° 60° 80°    |                 |        |
|         | LL05CR-BFRxxL06 | 35.8x6.3   |                | 25° 40° 60°     |        |
| 6 in 1  | LL06CR-RXxxL06  | 50x10.5    | 40° 60°        |                 |        |
| 7 in 1  | LL07CR-BFRxxL06 | 35.8x6.3   |                | 25° 40° 60°     |        |
|         | LL07ED-GKxxL06  | 47x10.5    | 25° 40°        |                 |        |
|         | LL07OS-GKxxL06  | 47x9.8     | 40° 60° 80°    |                 |        |
|         | LL07CR-RXxxL06  | 50x10.3    | 40° 60°        |                 |        |
| 9 in 1  | LL09ED-GKxxL06  | 67x10.8    | 25° 40°        |                 |        |
|         | LL09OS-GKxxL06  | 67x9.8     | 40° 60° 80°    |                 |        |
|         | LL09CR-RXxxL06  | 70x10.3    | 40° 60°        |                 |        |
| 12 in 1 | LL12ED-GKxxL06  | 67x10.8    | 25° 40°        |                 |        |
|         | LL12OS-GKxxL06  | 67x9.8     | 40° 60° 80°    |                 |        |
|         | LL12CR-RXxxL06  | 70x10.3    | 40° 60°        |                 |        |

**CXM 6/7**



**CXM 9**



**CXM 11**



**CXM 14**



**■ CXM 6 / 7**

| Type      | Part Number     | DxH(mm)   | Full Angle  | FWHM        | Holder |
|-----------|-----------------|-----------|-------------|-------------|--------|
| Single    | LL01CR-ABGxxL02 | 34x15.7   |             | 24° 38° 55° |        |
|           | LL01CR-ZExxL02  | 35x20.4   | 20° 30° 45° |             |        |
|           | LL01ED-AYxxL06  | 43.8x24.5 | 38°         | 10°         |        |
|           | LL01ED-FGxxL06  | 43.8x24.5 | 38°         | 10°         |        |
|           | LL01ED-ABYxxL02 | 44x14.1   |             | 24°         |        |
|           | LL01CR-AQHxxL02 | 44x14.1   |             | 38° 45°     |        |
|           | LL01CR-PVxxL02  | 45x23.7   | 45° 60° 80° |             |        |
| Reflector | LL01CR-ABHxxL02 | 50x10.4   |             | 40° 60°     |        |
|           | LL01CT-AJZxxR49 | 50x19     |             | 36° 50°     |        |
|           | LL01ED-AKYxxR49 | 50x30     |             | 24° 38° 45° |        |
|           | LL01ED-ALlxxR49 | 50x19     |             | 24° 38° 55° |        |
|           | LL01ED-AKVxxR49 | 50.5x29.5 |             | 36°         |        |

**■ CXM 11**

| Type      | Part Number       | DxH(mm)    | Full Angle  | FWHM            | Holder |
|-----------|-------------------|------------|-------------|-----------------|--------|
| Single    | LL01ED-AYxxL06    | 43.8x24.5  | 38°         | 10°             |        |
|           | LL01ED-FGxxL06    | 43.8x24.5  | 38°         | 10°             |        |
|           | LL01CR-PVxxL02    | 45x23.7    | 45° 60° 80° |                 |        |
|           | LL01CR-ABHxxL02   | 50x10.4    |             | 40° 60°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13    |             | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |             | 24° 38°         |        |
|           | LL01CR-BAYxxL06   | 76x22.5    |             | 24° 38°         |        |
| Reflector | LL01CT-AZWxxL02-P | 76.1x12.7  |             | 12° 15° 24° 38° |        |
|           | LL01ED-AKVxxR49   | 50.5x29.5  |             | 36°             |        |
|           | LL01ZZ-AAAxL49    | 70x35      |             | 24° 38°         |        |
|           | LL01CR-AYGxxR49   | 75x45      |             | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P | 75x45      |             | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40      |             | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50      |             | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50      |             | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50      |             | 15° 24° 38° 55° |        |

**■ CXM 9**

| Type      | Part Number       | DxH(mm)    | Full Angle  | FWHM            | Holder |
|-----------|-------------------|------------|-------------|-----------------|--------|
| Single    | LL01ED-AYxxL06    | 43.8x24.5  | 38°         | 10°             |        |
|           | LL01ED-FGxxL06    | 43.8x24.5  | 38°         | 10°             |        |
|           | LL01ED-ABYxxL02   | 44x14.1    |             | 24°             |        |
|           | LL01CR-AQHxxL02   | 44x14.1    |             | 38° 45°         |        |
|           | LL01CR-PVxxL02    | 45x23.7    | 45° 60° 80° |                 |        |
|           | LL01CR-ABHxxL02   | 50x10.4    |             | 40° 60°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13    |             | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |             | 24° 38°         |        |
|           | LL01CR-BAYxxL06   | 76x22.5    |             | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7  |             | 12° 15° 24° 38° |        |
| Reflector | LL01CT-AJZxxR49   | 50x19      |             | 36° 50°         |        |
|           | LL01ED-ALlxxR49   | 50x19      |             | 24° 38° 55°     |        |
|           | LL01ED-AKVxxR49   | 50.5x29.5  |             | 36°             |        |

**■ CXM 14**

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|-------------------|------------|------------|-----------------|--------|
| Single    | LL01CR-ABHxxL02   | 50x10.4    |            | 40° 60°         |        |
|           | LL01CI-ZOxxL06    | 60x15.2    | 25° 40°    |                 |        |
|           | LL01CT-BBxxL06    | 69x22.7    |            | 24° 38°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13    |            | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06   | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7  |            | 12° 15° 24° 38° |        |
| Reflector | LL01ED-AKVxxR49   | 50.5x29.5  |            | 36°             |        |
|           | LL01ZZ-AAAxL49    | 70x35      |            | 24° 38°         |        |
|           | LL01CR-AYGxxR49   | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50      |            | 15° 24° 38° 55° |        |



CXM 18



CXM 27



SBM 40  
(RGBW)



■ CXM 18

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|-------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-AOFxxL06   | 74.4x13    |            | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7  |            | 12° 15° 24° 38° |        |
|           | LL01ED-ASAxL06-P  | 90.6x22    |            | 12° 24° 38°     |        |
| Reflector | LL01CT-AYTxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50      |            | 15° 24° 38° 55° |        |

■ CXM 27

| Type      | Part Number       | DxH(mm) | Full Angle | FWHM        | Holder |
|-----------|-------------------|---------|------------|-------------|--------|
| Single    | LL01CT-APGxxL06   | 84.6x18 |            | 24° 38°     |        |
|           | LL01ED-ASAxL06-P  | 90.6x22 |            | 12° 24° 38° |        |
| Reflector | LL01CT-AYXxxR35-P | 90x50   |            | 15° 24° 38° |        |

■ SBM 40(RGBW)

| Type   | Part Number     | DxH(mm)     | Full Angle | FWHM       | Holder |
|--------|-----------------|-------------|------------|------------|--------|
| Single | LL01ED-AFDxxL06 | 26x15.5     |            | 15°        |        |
|        | LL01ED-BCQxxL06 | 34.75x19.25 |            | 15° 15x30° |        |



## 066A / 036B

| Type      | Part Number       | DxH(mm)    | Full Angle  | FWHM            | Holder |
|-----------|-------------------|------------|-------------|-----------------|--------|
| Single    | LL01CR-ABGxxL02   | 34x15.7    |             | 24° 38° 55°     |        |
|           | LL01ED-ABYxxL02   | 44x14.1    |             | 24°             |        |
|           | LL01CR-AQHxxL02   | 44x14.1    |             | 38° 45°         |        |
|           | LL01CR-PVxxL02    | 45x23.7    | 45° 60° 80° |                 |        |
|           | LL01CR-ABHxxL02   | 50x10.4    |             | 40° 60°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13    |             | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |             | 24°             |        |
|           | LL01CT-AMYxxL06   | 76x23      |             | 24°             |        |
|           | LL01CR-BAYxxL06   | 76x22.5    |             | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7  |             | 12° 15°         |        |
|           | LL01ED-ASAxxL02-P | 90.6x22    |             | 12° 24° 38°     |        |
|           | LL01ED-ASAxxL06-P | 90.6x22    |             | 12° 24° 38°     |        |
|           | LL01CR-BJLxxL02   | 35x12.55   |             | 40°             |        |
|           | LL01WT-BSSxxL46   | 44x12.2    |             | 24° 32°         |        |
|           | LL01SP-AVAxxL06   | 42x9.65    |             | 40°             |        |
| Reflector | LL01CR-AYGxxR49   | 75x45      |             | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P | 75x45      |             | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40      |             | 15° 24° 30° 38° |        |

## 121A / 060B

| Type      | Part Number       | DxH(mm)   | Full Angle | FWHM            | Holder |
|-----------|-------------------|-----------|------------|-----------------|--------|
| Single    | LL01CT-BBXxxL06   | 69x22.7   |            | 24° 38°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13   |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06   | 76x23     |            | 24°             |        |
|           | LL01CR-BAYxxL06   | 76x22.5   |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7 |            | 12° 15° 24°     |        |
|           | LL01CT-APGxxL06   | 84.6x18   |            | 24° 38°         |        |
|           | LL01CT-AZNxxL02-P | 88.5x15   |            | 15° 24° 38°     |        |
|           | LL01ED-ASAxxL02-P | 90.6x22   |            | 12° 24° 38°     |        |
|           | LL01ED-ASAxxL06-P | 90.6x22   |            | 12° 24° 38°     |        |
|           | LL01SP-AVAxxL06   | 42x9.65   |            | 40°             |        |
|           | LL01CR-AYGxxR49   | 75x45     |            | 15° 24° 38°     |        |
| Reflector | LL01CT-AYTxxR35-P | 75x45     |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40     |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50     |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50     |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50     |            | 15° 24° 38° 55° |        |

## 036A / 024B

| Type      | Part Number     | DxH(mm)    | Full Angle          | FWHM        | Holder |
|-----------|-----------------|------------|---------------------|-------------|--------|
| Single    | LL01CR-DGxxL06  | 28.8x16.75 | 20° 30° 40° 50° 60° |             |        |
|           | LL01CR-ABGxxL02 | 34x15.7    |                     | 24° 38° 55° |        |
|           | LL01ED-ABYxxL02 | 44x14.1    |                     | 24°         |        |
|           | LL01CR-AQHxxL02 | 44x14.1    |                     | 38° 45°     |        |
|           | LL01CR-ABHxxL02 | 50x10.4    |                     | 40° 60°     |        |
|           | LL01CR-BJLxxL02 | 35x12.55   |                     | 40°         |        |
|           | LL01WT-BSSxxL46 | 44x12.2    |                     | 24° 32°     |        |
| Reflector | LL01SP-AVAxxL06 | 42x9.65    |                     | 40°         |        |
|           | LL01CT-AJZxxR49 | 50x19      |                     | 36° 50°     |        |
|           | LL01ED-AKYxxR49 | 50x30      |                     | 24° 38° 45° |        |
|           | LL01ED-ALlxxR49 | 50x19      |                     | 24° 38° 55° |        |
|           | LL01ED-AKVxxR49 | 50.5x29.5  |                     | 36°         |        |

## 216A / 108B / 130B

| Type      | Part Number       | DxH(mm)   | Full Angle | FWHM            | Holder |
|-----------|-------------------|-----------|------------|-----------------|--------|
| Single    | LL01CT-BBXxxL06   | 69x22.7   |            | 24° 38°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13   |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06   | 76x23     |            | 24°             |        |
|           | LL01CR-BAYxxL06   | 76x22.5   |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7 |            | 12° 15° 24°     |        |
|           | LL01CT-APGxxL06   | 84.6x18   |            | 24° 38°         |        |
|           | LL01CT-AZNxxL02-P | 88.5x15   |            | 15° 24° 38°     |        |
|           | LL01ED-ASAxxL02-P | 90.6x22   |            | 12° 24° 38°     |        |
|           | LL01ED-ASAxxL06-P | 90.6x22   |            | 12° 24° 38°     |        |
| Reflector | LL01CR-AYGxxR49   | 75x45     |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P | 75x45     |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49   | 75x40     |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50     |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50     |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50     |            | 15° 24° 38° 55° |        |



■ NVSxx19A

| Type   | Part Number        | DxH(mm)    | Full Angle                        | FWHM        | Holder |
|--------|--------------------|------------|-----------------------------------|-------------|--------|
| Single | LL01CR-BRxxL06     | 19.65x12.5 | 10x45° 15x50° 15x80° 40x90°       |             |        |
|        | LL01CR-BSxxL06     | 19.8x12.5  | 60°                               |             |        |
|        | LL01HS-DFxxL02-M2  | 13.5x7.35  | 80° 100° 30x65°                   |             | V      |
|        | LL01XP-DGxxL06-M2  | 32.8x18    | 20° 30° 40° 50° 60°               |             | V      |
|        | LL01CR-HQxxL06     | 14.8x9.5   | 15° 40° 60° 80°                   |             |        |
|        | LL01CR-CNExxL06-M2 | 23.5x15.8  | 17° 25° 40° 60° 80° 10x45° 25x45° |             | V      |
|        | LL01CR-SQxxL06     | 19.4x12.9  | 40° 60°                           |             |        |
|        | LL01ED-AJxxL06     | 28.9x19.7  | 40° 60°                           |             |        |
|        | LL01ED-AKxxL06     | 34.4x18.8  | 25° 40°                           |             |        |
|        | LL01ED-AQxxL06     | 22.5x10.45 | 40°                               |             |        |
|        | LL01ED-ASxxL06     | 19.9x10.15 | 60°                               |             |        |
|        | LL01ED-BBxxL06     | 35.8x16.5  | 60°                               |             |        |
|        | LL01ED-CTxxL06     | 31x11.2    | 38°                               |             |        |
|        | LL01ED-CYxxL06     | 26.8x20.6  | 30° 45°                           |             |        |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.4  | 15x60° 20x50°                     |             | V      |
|        | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                                   | 25° 45° 60° | V      |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8  |                                   | 10° 20° 30° | V      |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 40° 60° 80°                       |             |        |
|        | LL01OS-AXxxL02     | 20x11.5    | 40° 60°                           |             |        |
|        | LL01OS-BWxxL06     | 37.2x15.35 | 30°                               |             |        |
|        | LL01OS-BYxxL06     | 37.2x15.35 | 30°                               |             |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 40°                               |             |        |
|        | LL01CR-EXxxL06-M2  | 22.4x9.7   | 10° 25° 40° 60° 30x65°            |             | V      |
|        | LL01XP-FLxxL06-M2  | 24.3x11.5  | 25° 40° 30x65°                    |             | V      |
|        | LL01ED-FMxxL06     | 19.9x10.55 | 38°                               |             |        |
|        | LL01LU-AAxxL06     | 19.7x13.8  | 20°x65°                           |             |        |
|        | LL01OS-CBxxL06     | 25.6x10    | 15°                               |             |        |
|        | LL01ZZ-AHAxxL06    | 50x25.4    |                                   | 5°          |        |
| 3 in 1 | LL03ED-BAxxL06     | 50.5x13    | 45°                               |             |        |
|        | LL03ED-GKxxL06     | 33.2x10.2  | 40°                               |             |        |
|        | LL03LU-DMxxL06     | 23.1x11    |                                   | 15° 25°     |        |
|        | LL03LU-DOxxL06     | 35x10.6    |                                   | 15° 25°     |        |
|        | LL03LU-MKxxL06     | 23.1x11    | 15° 25°                           |             |        |
|        | LL03NI-QQxxL06     | 35x10.5    | 25°                               |             |        |
|        | LL03OS-GKxxL06     | 33.2x9.8   | 25° 60° 80°                       |             |        |
| 4 in 1 | LL04CR-GPxxL06     | 22.2x6.7   | 38°                               |             |        |
|        | LL04ED-GKxxL06     | 37x10.3    | 40°                               |             |        |
|        | LL04LU-DNxxL06     | 25.4x10.5  |                                   | 15° 25°     |        |

| Type            | Part Number        | DxH(mm)        | Full Angle  | FWHM                | Holder |
|-----------------|--------------------|----------------|-------------|---------------------|--------|
| 4 in 1          | LL04LU-DOxxL06     | 35x10.4        |             | 15° 25°             |        |
|                 | LL04LU-GPxxL06     | 22.2x6.8       | 45°         |                     |        |
|                 | LL04OS-GKxxL06     | 37x9.8         | 40° 60° 80° |                     |        |
| 6 in 1          | LL06CR-AXNxL06-M2  | 76x13          |             | 25°                 | V      |
|                 | LL06ED-ADxxL06     | 73.3x11.5      | 25° 40° 60° |                     |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13          |             | 25°                 | V      |
| 7 in 1          | LL06CR-AXLxxL06-M2 | 76x13          |             | 25°                 | V      |
|                 | LL07ED-GKxxL06     | 47x10.5        | 40°         |                     |        |
|                 | LL07OS-GKxxL06     | 47x9.8         | 40° 60° 80° |                     |        |
| 9 in 1          | LL07ZZ-FUxxL06     | 50.35x10.7     | 25°         |                     |        |
|                 | LL07ZZ-FVxxL06     | 39.2x10.6      | 25° 30° 60° |                     |        |
|                 | LL09ED-BZxxL06     | 90.75x16.5     | 25°         |                     |        |
| 12 in 1         | LL09ED-GKxxL06     | 67x10.8        | 40°         |                     |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 40° 60° 80° |                     |        |
|                 | LL09ED-ATxxL06     | 90.6x17.5      | 40°         |                     |        |
| 15 in 1         | LL12ED-AGxxL06     | 112x13.4       | 45°         |                     |        |
|                 | LL12ED-GKxxL06     | 67x10.8        | 40°         |                     |        |
|                 | LL12OS-GKxxL06     | 67x9.8         | 40° 60° 80° |                     |        |
| 18 in 1         | LL15ED-BHxxL06     | 95x11.1        | 40°         |                     |        |
| 24 in 1         | LL18ED-BLxxL06     | 110x13.1       | 40°         |                     |        |
| 36 in 1         | LL24ED-ABxxL06     | 174.5x12.7     | 45°         |                     |        |
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95   |             | 80x150° (Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18x10.2x6.1    |             | 85x135° (Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |             | 60x135° (Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |             | 60x90° (Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |             | 70x130° (Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |             | 45x135° (Asymmetry) |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5  |             | 60x130° (Symmetry)  |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |             | 45x155° (Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |             | 45x155° (Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x6.95     |             | 80x150° (Asymmetry) |        |
|                 | LL12ED-VT85160L02  | 158x50x9.4     |             | 85x160° (Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2   |             | 75x135° (Asymmetry) |        |

# ■ NCSxx19A

| Type   | Part Number        | DxH(mm)    | Full Angle                             | FWHM        | Holder |
|--------|--------------------|------------|----------------------------------------|-------------|--------|
| Single | LL01CR-BRxxL06     | 19.65x12.5 | 40° 10°x45° 15°x50°<br>15°x80° 40°x90° |             |        |
|        | LL01HS-DFxxL02-M2  | 13.5x7.35  | 80° 100° 30°x65°                       |             | V      |
|        | LL01CR-DGxxL06     | 28.8x16.75 | 20° 30° 40° 50° 60°                    |             |        |
|        | LL01CR-HQxxL06     | 14.8x9.6   | 15° 25° 30° 40° 60° 80°                |             |        |
|        | LL01CR-CNExxL06-M2 | 23.5x15.8  | 17° 25° 40° 60° 80°<br>25°x45°         |             | V      |
|        | LL01CR-SQxxL06     | 19.4x12.9  | 40° 60°                                |             |        |
|        | LL01CR-YJxxL02     | 19.4x12.6  | 40° 60° 80°                            |             |        |
|        | LL01ED-AJxxL06     | 28.9x19.7  | 40° 60°                                |             |        |
|        | LL01ED-AKxxL06     | 34.4x18.8  | 40°                                    |             |        |
|        | LL01ED-ASxxL06     | 19.9x10.15 | 60°                                    |             |        |
|        | LL01ED-BBxxL06     | 35.8x16.5  | 60°                                    |             |        |
|        | LL01ED-CTxxL06     | 31x11.2    | 38°                                    |             |        |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.4  | 15°x60°                                |             | V      |
|        | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                                        | 25°         | V      |
|        | LL01RP-AAFxxL02-M2 | 13.5x7.35  |                                        | 45° 60°     | V      |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8  |                                        | 10° 20° 30° | V      |
|        | LL01OS-AXxxL02     | 20x11.5    | 40° 60°                                |             |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 40° 60°                                |             |        |
|        | LL01ZZ-EXxxL06     | 21x9.15    | 10° 25° 40° 60° 30°x65°                |             |        |
|        | LL01ZZ-FLxxL06     | 22.2x10.6  | 25° 40° 60°                            |             |        |
| 3 in 1 | LL01ED-FMxxL06     | 19.9x10.55 | 35°                                    |             |        |
|        | LL01ZZ-AHxxL06     | 50x25.4    |                                        | 5°          |        |
|        | LL03CR-RXxxL06     | 35x9.6     | 40° 60°                                |             |        |
|        | LL03ED-BAxxL06     | 50.5x13    | 45°                                    |             |        |
|        | LL03ED-GKxxL06     | 33.2x10.2  | 40°                                    |             |        |
|        | LL03ED-UYxxL06     | 33.2x10.3  | 40°                                    |             |        |
|        | LL03LU-DMxxL06     | 23.1x11    |                                        | 15° 25°     |        |
|        | LL03LU-DOxxL06     | 35x10.6    |                                        | 15° 25°     |        |
| 4 in 1 | LL03LU-MKxxL06     | 23.1x11    |                                        | 15° 25°     |        |
|        | LL03NI-QQxxL06     | 35x10.5    |                                        | 25°         |        |
|        | LL03OS-GKxxL06     | 33.2x9.8   |                                        | 25° 60° 80° |        |
|        | LL04CR-RXxxL06     | 35x9.7     |                                        | 40° 60°     |        |
|        | LL04ED-GKxxL06     | 37x10.3    |                                        | 40°         |        |
|        | LL04ED-UYxxL06     | 37x10.3    |                                        | 40°         |        |
|        | LL04LU-DNxxL06     | 25.4x10.5  |                                        | 15° 25°     |        |
|        | LL04LU-DOxxL06     | 35x10.4    |                                        | 15° 25°     |        |
|        | LL04OS-GKxxL06     | 37x9.8     | 40° 60° 80°                            |             |        |

| Type            | Part Number        | DxH(mm)        | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|----------------|-------------|------------------------|--------|
| 6 in 1          | LL06CR-RXxxL06     | 50x9.65        | 40° 60°     |                        |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5      | 25° 40° 60° |                        |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13          |             | 15° 25°                | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13          |             | 25°                    | V      |
| 7 in 1          | LL07CR-RXxxL06     | 50x10.3        | 40° 60°     |                        |        |
|                 | LL07ED-GKxxL06     | 47x10.5        | 40°         |                        |        |
|                 | LL07ED-UYxxL06     | 47x10.3        | 40°         |                        |        |
|                 | LL07OS-GKxxL06     | 47x9.8         | 40° 60° 80° |                        |        |
|                 | LL07ZZ-FUxxL06     | 50.35x10.7     |             | 25°                    |        |
|                 | LL07ZZ-FVxxL06     | 39.2x10.8      | 30° 60°     | 25°                    |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3        | 40° 60°     |                        |        |
|                 | LL09ED-GKxxL06     | 67x10.8        | 40°         |                        |        |
|                 | LL09ED-UYxxL06     | 67x10.3        | 40°         |                        |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 40° 60° 80° |                        |        |
|                 | LL09ED-ATxxL06     | 90.6x17.5      | 40°         |                        |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3        | 40° 60°     |                        |        |
|                 | LL12ED-AGxxL06     | 112x13.4       | 25°         |                        |        |
|                 | LL12ED-GKxxL06     | 67x10.8        | 40°         |                        |        |
|                 | LL12ED-UYxxL06     | 67x10.3        | 40°         |                        |        |
|                 | LL12OS-GKxxL06     | 67x9.8         | 40° 60° 80° |                        |        |
| 15 in 1         | LL15ED-BHxxL06     | 95x11.1        | 40°         |                        |        |
| 18 in 1         | LL18ED-BIxxL06     | 110x13.1       | 25° 40°     |                        |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7     | 45°         |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2 x 6.1  |             | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |             | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |             | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |             | 70x130°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |             | 45x135°<br>(Asymmetry) |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5  |             | 60x130°<br>(Symmetry)  |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |             | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |             | 45x155°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2   |             | 75x135°<br>(Asymmetry) |        |





# ■ NVSxx19B

| Type   | Part Number        | DxH(mm)    | Full Angle                           | FWHM        | Holder |
|--------|--------------------|------------|--------------------------------------|-------------|--------|
| Single | LL01CR-CRxxL06-M2  | 13.5x7.25  | 40° 60°                              |             | V      |
|        | LL01CR-BMxxL06     | 35.8x15.85 | 40°                                  |             |        |
|        | LL01CR-BRxxL06     | 19.65x12.5 | 40° 10x45° 15x50°<br>15x80° 40x90°   |             |        |
|        | LL01HS-DFxxL02-M2  | 13.5x7.35  | 80° 100° 30x65°                      |             | V      |
|        | LL01CR-DGxxL06     | 28.8x16.75 | 20° 30° 40° 50° 60°                  |             |        |
|        | LL01CR-HQxxL06     | 14.8x9.6   | 15° 30° 40° 60° 80°                  |             |        |
|        | LL01CR-CNExxL06-M2 | 23.5x15.8  | 17° 25° 40° 60° 80°<br>10x45° 25x45° |             | V      |
|        | LL01CR-SQxxL06     | 19.4x12.9  | 40° 60°                              |             |        |
|        | LL01CR-WIxxL02     | 28.8x17.4  | 15° 25° 40°                          |             |        |
|        | LL01CR-XSxxL06     | 22.2x10.6  | 40°                                  |             |        |
|        | LL01CR-YJxxL02     | 19.4x12.7  | 80° 100°                             |             |        |
|        | LL01ED-AFDxxL06    | 26x15.3    |                                      | 20°         |        |
|        | LL01ED-AJxxL06     | 28.9x19.8  | 10° 25° 40° 60°                      |             |        |
|        | LL01ED-ALxxL06     | 19.7x9.9   | 30x65°                               |             |        |
|        | LL01ED-ANxxL06     | 22.6x9.9   | 25°                                  |             |        |
|        | LL01ED-ASxxR06     | 19.9x10.55 | 38°                                  |             |        |
|        | LL01ED-ASxxL06     | 19.9x10.15 | 60°                                  |             |        |
|        | LL01ED-BBxxL06     | 35.8x16.5  | 60°                                  |             |        |
|        | LL01ED-CTxxL06     | 31x11.2    | 38°                                  |             |        |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.4  | 15x60° 20x50°                        |             | V      |
|        | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                                      | 25°         | V      |
|        | LL01RP-AAFxxL02-M2 | 13.5x7.35  |                                      | 45° 60°     | V      |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8  |                                      | 10° 20° 30° | V      |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 25° 40° 60° 80°                      |             |        |
|        | LL01OS-BWxxL06     | 37.2x15.35 | 30°                                  |             |        |
|        | LL01OS-BYxxL06     | 37.2x15.35 | 30°                                  |             |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 15° 25° 40° 60°                      |             |        |
|        | LL01ZZ-AFLxxL02    | 22.2x10.4  |                                      | 50°         |        |
|        | LL01CR-EXxxL06-M2  | 22.4x9.7   | 10° 25° 40° 60° 30x65°               |             | V      |
|        | LL01XP-FLxxL06-M2  | 24.3x11.5  | 10° 25° 40° 60° 30x65°               |             | V      |
|        | LL01ED-FMxxL06     | 19.9x10.55 | 38°                                  |             |        |
|        | LL01ED-ZBxxL06     | 19.6x10.4  | 15°                                  |             |        |
|        | LL01LU-LHxxL06     | 21x9.15    | 15°                                  |             |        |
|        | LL01OS-CBxxL06     | 25.6x10    | 15°                                  |             |        |
|        | LL01ZZ-AHAxxL06    | 50x25.4    |                                      | 5°          |        |
| 3 in 1 | LL03CR-RXxxL06     | 35x9.6     | 40° 60°                              |             |        |
|        | LL03ED-GKxxL06     | 33.2x10.2  | 40°                                  |             |        |
|        | LL03LU-DMxxL06     | 23.1x11    | 15° 25°                              |             |        |
|        | LL03LU-DOxxL06     | 35x10.6    | 15° 25°                              |             |        |
|        | LL03OS-GKxxL06     | 33.2x9.8   | 25° 40° 60°                          |             |        |

| Type            | Part Number        | DxH(mm)         | Full Angle  | FWHM                 | Holder |
|-----------------|--------------------|-----------------|-------------|----------------------|--------|
| 4 in 1          | LL04CR-RXxxL06     | 35x9.7          | 40° 60°     |                      |        |
|                 | LL04ED-GKxxL06     | 37x10.3         | 40°         |                      |        |
|                 | LL04LU-DNxxL06     | 25.4x10.5       |             | 15° 25°              |        |
|                 | LL04LU-DOxxL06     | 35x10.4         |             | 15° 25°              |        |
|                 | LL04OS-GKxxL06     | 37x9.8          | 40° 60°     |                      |        |
| 5 in 1          | LL05CR-BFRxxL06    | 35.8x6.3        | 25° 40° 60° |                      |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x9.65         | 40° 60°     |                      |        |
| 7 in 1          | LL07CR-BFRxxL06    | 35.8x6.3        |             | 25° 40° 60°          |        |
|                 | LL07CR-RXxxL06     | 50x10.3         | 40° 60°     |                      |        |
|                 | LL07ED-GKxxL06     | 47x10.5         | 40°         |                      |        |
|                 | LL07OS-GKxxL06     | 47x9.8          | 40° 60°     |                      |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3         | 40° 60°     |                      |        |
|                 | LL09ED-GKxxL06     | 67x10.8         | 40°         |                      |        |
|                 | LL09OS-GKxxL06     | 67x10.8         | 40° 60°     |                      |        |
|                 | LL12CR-RXxxL06     | 70x10.3         | 40° 60°     |                      |        |
| 12 in 1         | LL12ED-GKxxL06     | 67x10.8         | 40°         |                      |        |
|                 | LL12OS-GKxxL06     | 67x9.8          | 40° 60°     |                      |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7      | 45°         |                      |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1     |             | 85x135° (Asymmetry)  |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9      |             | 60x135° (Symmetry)   |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6  |             | 60x90° (Symmetry)    |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2     |             | 85x150° (Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |             | 70x130° (Asymmetry)  |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9   |             | 70x140° (Asymmetry)  |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3     |             | 50x150° (Asymmetry)  |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05    |             | 45x135° (Asymmetry)  |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6       |             | 70x140° (Asymmetry)  |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5   |             | 60x130° (Symmetry)   |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3      |             | 60x140° (Asymmetry)  |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95      |             | 45x155° (Asymmetry)  |        |
|                 | LL04CR-BXJ80150L02 | 50x50x6.95      |             | 80x150° (Asymmetry)  |        |
|                 | LL14LU-ALY90130L19 | 250x60x9.3      |             | 90x130° (Asymmetry)  |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |             | 75x135° (Asymmetry)  |        |
|                 | LL24LU-JT60120L02  | 126x110x10.5    |             | 60x120° (Asymmetry)  |        |
|                 | LL24OS-JT110150L02 | 126x110x9       |             | 110x150° (Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |             | 65x140° (Asymmetry)  |        |
|                 | LL30CR-PT60140L02  | 235x71x 9.4     |             | 60x140° (Asymmetry)  |        |

# ■ NCSxx19B

| Type   | Part Number        | DxH(mm)    | Full Angle             | FWHM              | Holder |
|--------|--------------------|------------|------------------------|-------------------|--------|
| Single | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                        | 25° 45° 60°       | V      |
|        | LL01CR-BDFxxL06    | 11.8x6.45  |                        | 40° 60°<br>30x70° |        |
|        | LL01HS-DFxxL02-M2  | 13.5x7.35  | 80° 100° 30x65°        |                   | V      |
|        | LL01CR-HQxxL06     | 14.8x9.5   | 40° 60° 80°            |                   |        |
|        | LL01LU-AFCxxL06    | 19.4x11.8  |                        | 10x35°<br>15x30°  |        |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8  |                        | 10° 20° 30°       | V      |
|        | LL01CR-SQxxL06     | 19.4x12.9  | 40° 60°                |                   |        |
|        | LL01CR-YJxxL02     | 19.4x12.7  | 80° 100°               |                   |        |
|        | LL01NI-GRxxL06     | 19.45x13.5 | 40° 60° 80°            |                   |        |
|        | LL01OS-MQxxL06     | 19.45x13.7 | 25° 40° 60°            |                   |        |
|        | LL01CR-EXxxL06-M2  | 23x10.63   | 10° 25° 40° 60° 30x65° |                   | V      |
|        | LL01XP-FLxxL06-M2  | 24.3x11.6  | 10° 25° 40° 60° 30x65° |                   | V      |
|        | LL01CR-DGxxL06     | 28.8x16.75 | 20° 30° 40° 50° 60°    |                   |        |
|        | LL01CR-WIxxL02     | 28.8x17.4  | 15° 25° 40°            |                   |        |
|        | LL01ED-AJxxL06     | 28.9x19.8  | 10° 25° 40° 60°        |                   |        |
| 3 in 1 | LL01ZZ-AHAxxL06    | 50x25.4    |                        | 5°                |        |
|        | LL03LU-DMxxL06     | 23.1x11    | 15° 25°                |                   |        |
|        | LL03ED-GKxxL06     | 33.2x10.2  | 40°                    |                   |        |
|        | LL03OS-GKxxL06     | 33.2x9.8   | 25° 40° 60°            |                   |        |
| 4 in 1 | LL03CR-RXxxL06     | 35x10.5    | 40° 60°                |                   |        |
|        | LL04LU-DNxxL06     | 25.4x10.5  | 15° 25°                |                   |        |
|        | LL04CR-RXxxL06     | 35x10.5    | 40° 60°                |                   |        |
|        | LL04LU-DOxxL06     | 35x10.4    | 25°                    |                   |        |
|        | LL04NI-DOxxL02     | 35x10.5    | 25° 40°                |                   |        |
|        | LL04ED-GKxxL06     | 37x10.3    | 40°                    |                   |        |
| 6 in 1 | LL04OS-GKxxL06     | 37x9.8     | 40° 60°                |                   |        |
|        | LL06CR-RXxxL06     | 50x10.5    | 40° 60°                |                   |        |
|        | LL07ED-GKxxL06     | 47x10.5    | 40°                    |                   |        |
|        | LL07OS-GKxxL06     | 47x9.8     | 40° 60°                |                   |        |
|        | LL07CR-RXxxL06     | 50x10.3    | 40° 60°                |                   |        |
| 7 in 1 | LL07ZZ-FUxxL06     | 50.35x10.7 | 25°                    |                   |        |
|        | LL09ED-GKxxL06     | 67x10.8    | 40°                    |                   |        |
|        | LL09OS-GKxxL06     | 67x9.8     | 40° 60°                |                   |        |
|        | LL09CR-RXxxL06     | 70x10.3    | 40° 60°                |                   |        |
| 9 in 1 | LL12ED-GKxxL06     | 67x10.8    | 40°                    |                   |        |
|        | LL12OS-GKxxL06     | 67x9.8     | 40° 60°                |                   |        |
|        | LL12CR-RXxxL06     | 70x10.3    | 40° 60°                |                   |        |





■ NF2x757A/D

| Type   | Part Number        | DxH(mm)     | Full Angle                 | FWHM                      | Holder |
|--------|--------------------|-------------|----------------------------|---------------------------|--------|
| Single | LL01CR-ABGxxL02    | 34x15.7     |                            | 24°                       |        |
|        | LL01OS-BDFxxL06-M2 | 13.5x7.35   | 40° 60° 80° 100°<br>30x65° |                           | V      |
|        | LL01CR-DGxxL06     | 28.8x16.75  | 20° 30° 40° 50°            |                           |        |
|        | LL01CR-NExxL06     | 19.4x15     | 17° 40° 60° 80°<br>10x45°  |                           |        |
|        | LL01CR-WIxxL02     | 28.8x17.4   |                            | 25° 40°                   |        |
|        | LL01ED-AJxxL06     | 28.9x19.7   | 25° 40° 60°                |                           |        |
|        | LL01ED-AKxxL06     | 34.4x18.8   | 40°                        |                           |        |
|        | LL01ED-ALxxL06     | 19.7x9.9    | 30x65°                     |                           |        |
|        | LL01ED-AOxxL06     | 19.4x13.5   | 40° 60° 80°                |                           |        |
|        | LL01OS-AFCxxL06-M2 | 21.3x12.4   | 15x60° 20x50°              |                           | V      |
|        | LL01OS-AAFxxL02-M2 | 11.8x6.65   |                            | 25° 45° 60°               |        |
|        | LL01NI-GRxxL06     | 19.45x13.5  | 40° 60° 80°                |                           |        |
|        | LL01OS-MQxxL06-M2  | 21.05x14.75 | 25° 40° 60°                |                           | V      |
|        | LL01OS-EXxxL06-M2  | 22.4x9.7    | 25° 40°                    |                           | V      |
|        | LL01ZZ-FLxxL06     | 22.2x10.6   | 25° 40° 60°                |                           |        |
|        | LL01LU-AAxxL06     | 19.7x13.8   | 20x65°                     |                           |        |
|        | LL01NI-DZxxL06     | 22x15.7     | 20x40°                     |                           |        |
|        | LL01NI-BYKxxL19    | 16x8        |                            | 20° 30° 40°<br>60° 25x45° |        |
| 3 in 1 | LL03CR-RXxxL06     | 35x9.6      | 60°                        |                           |        |
|        | LL03ED-BCxxL06     | 43.9x9.5    | 25°                        |                           |        |
|        | LL03ED-CTxxL06     | 31x11.2     | 38° 80°                    |                           |        |
|        | LL03ED-GKxxL06     | 33.2x10.2   | 40° 60° 80°                |                           |        |
|        | LL03CR-HKxxL06     | 35x8.2      | 40°                        |                           |        |
|        | LL03ZZ-EUxxL06     | 33x6.9      | 38°                        |                           |        |
|        | LL03LU-DOxxL06     | 35x10.6     | 15° 25° 40°                |                           |        |
| 4 in 1 | LL03LU-DMxxL06     | 23.1x11     | 15° 25° 40°                |                           |        |
|        | LL04CR-GPxxL06     | 22.2x6.7    | 38°                        |                           |        |
|        | LL04CR-RXxxL06     | 35x9.7      | 60°                        |                           |        |
|        | LL04ED-GKxxL06     | 37x10.3     | 40°                        |                           |        |
|        | LL04LU-DNxxL06     | 25.4x10.5   | 25°                        |                           |        |
|        | LL04LU-GPxxL06     | 22.2x6.8    | 15°                        |                           |        |
|        | LL04NI-DOxxL02     | 35x10.5     | 25° 40°                    |                           |        |
|        | LL04OS-GKxxL06     | 37x9.8      | 60° 80°                    |                           |        |
|        | LL04CR-CECxxL06    | 50x8.5      |                            | 25°                       |        |

| Type            | Part Number        | DxH(mm)        | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|----------------|------------|------------------------|--------|
| 5 in 1          | LL05CR-BFRxxL06    | 35.8x6.3       |            | 25° 40° 60°            |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x9.65        | 60°        |                        |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5      | 25° 40°    |                        |        |
| 7 in 1          | LL06CR-AXMxxL06-M2 | 76x13          |            | 15° 25°                | V      |
|                 | LL07CR-BFRxxL06    | 35.8x6.3       |            | 25° 40° 60°            |        |
|                 | LL07CR-RXxxL06     | 50x10.3        | 60°        |                        |        |
| 9 in 1          | LL07ED-GKxxL06     | 47x10.5        | 40°        |                        |        |
|                 | LL07OS-GKxxL06     | 67x9.8         | 60° 80°    |                        |        |
|                 | LL09CR-RXxxL06     | 70x10.3        | 60°        |                        |        |
| 12 in 1         | LL09ED-GKxxL06     | 67x10.8        | 40°        |                        |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 60° 80°    |                        |        |
| 15 in 1         | LL12CR-RXxxL06     | 70x10.3        | 60°        |                        |        |
|                 | LL12ED-GKxxL06     | 67x10.8        | 40°        |                        |        |
| 18 in 1         | LL12OS-GKxxL06     | 67x9.8         | 60° 80°    |                        |        |
|                 | LL15ED-BHxxL06     | 95x11.1        | 40°        |                        |        |
| 24 in 1         | LL18ED-BIxxL06     | 110x13.1       | 40°        |                        |        |
|                 | LL24ED-ABxxL06     | 174.5x12.7     | 45°        |                        |        |
| Street Lighting | LL01CR-KM6090L02   | 17.55x11.6x8.6 |            | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |            | 70x130°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ90L02    | 50x50x7.05     |            | 90°<br>(Symmetry)      |        |



## ■ Osilon Square

| Type   | Part Number        | DxH(mm)     | Full Angle                           | FWHM        | Holder |
|--------|--------------------|-------------|--------------------------------------|-------------|--------|
| Single | LL01CR-ACZxxL02    | 27.8x10.2   |                                      | 24° 38°     |        |
|        | LL01OS-BDFxxL06-M2 | 13.5x7.35   | 40° 60°                              |             | V      |
|        | LL01CR-BEXxxL06    | 20.9x9.2    | 40° 60°                              |             |        |
|        | LL01CR-BMxxL06     | 35.8x15.85  | 40°                                  |             |        |
|        | LL01CR-BNExxxL06   | 19.4x14.6   | 25° 40° 60° 35x70°                   |             |        |
|        | LL01CR-BRxxL06     | 19.65x12.5  | 40° 10x45° 15x50°<br>15x80° 40x90°   |             | V      |
|        | LL01OS-BDFxxL06-M2 | 11.8x6.65   | 40° 60° 80° 100° 30x65°              |             |        |
|        | LL01CR-DGxxL06     | 28.8x16.75  | 20° 30° 40° 50° 60°                  |             |        |
|        | LL01CR-HQxxL06     | 14.8x9.6    | 30° 40° 60° 80°                      |             |        |
|        | LL01CR-NExxxL06    | 19.4x15     | 15° 25° 40° 60° 80°<br>10x45° 25x45° |             |        |
|        | LL01CR-OTxxL06     | 15x9.7      | 80°                                  |             |        |
|        | LL01CR-SQxxL06     | 19.4x12.9   | 40° 60°                              |             |        |
|        | LL01CR-WIxxL02     | 28.8x17.4   |                                      | 25° 40°     |        |
|        | LL01CR-XSxxL06     | 22.2x10.6   | 40°                                  |             |        |
|        | LL01CR-YJxxL02     | 19.4x12.6   | 40° 60°                              |             |        |
|        | LL01CR-ZExxxL02    | 35x20.4     |                                      | 20° 45°     |        |
|        | LL01ED-ACZxxL02    | 35x10.7     |                                      | 24° 38°     |        |
|        | LL01ED-AFDxxL06    | 26x15.3     |                                      | 20°         |        |
|        | LL01ED-AJxxL06     | 28.9x19.7   | 40° 60°                              |             |        |
|        | LL01ED-AKxxL06     | 34.4x18.8   | 25° 40°                              |             |        |
|        | LL01ED-ALxxL06     | 19.65x11.4  | 15° 30x65°                           |             |        |
|        | LL01ED-ANxxL06     | 22.7x9.6    | 15x50°                               |             |        |
|        | LL01ED-AOxxL06     | 19.4x13.45  | 60°                                  |             |        |
|        | LL01ED-ASxxR06     | 19.9x10.55  | 38°                                  |             |        |
|        | LL01ED-ASxxL06     | 19.9x10.15  | 60°                                  |             |        |
|        | LL01ED-CTxxL06     | 31x11.2     | 38°                                  |             |        |
|        | LL01ED-CYxxL06     | 26.8x20.6   | 30° 45° 30x65°                       |             |        |
|        | LL01OS-AFCxxL06-M2 | 19.4x11.8   | 15x60° 20x50°                        |             | V      |
|        | LL01OS-AAFxxL06-M2 | 13.5x7.35   |                                      | 25° 45° 60° | V      |
|        | LL01NI-ANExxxL02   | 19.4x14.94  |                                      | 10° 20° 30° |        |
|        | LL01NI-GRxxL06     | 19.45x13.5  | 40° 60° 80°                          |             |        |
|        | LL01OS-AXxxL02     | 20x11.5     | 20° 40° 60°                          |             |        |
|        | LL01OS-BWxxL06     | 37.2 x15.35 | 30°                                  |             |        |
|        | LL01OS-BYxxL06     | 37.2x15.35  | 30°                                  |             |        |
|        | LL01OS-HGxxL06     | 10x6        | 40°                                  |             |        |
|        | LL01OS-MQxxL06-M2  | 21.05x14.75 | 15° 25° 40° 60°                      |             | V      |
|        | LL01OS-EXxxL06-M2  | 22.4x9.7    | 10° 25° 40° 60° 30x65°               |             | V      |
|        | LL01ZZ-FLxxL06     | 24.3x11.5   | 10° 40° 60°                          |             | V      |
|        | LL01CR-ADTxxL06    | 35x10.65    | 40°                                  |             |        |
|        | LL01CR-FOxxL06     | 35.8x15.75  | 40°                                  |             |        |
|        | LL01ED-FMxxL06     | 19.9x10.55  | 38°                                  |             |        |
|        | LL01OS-CBxxL06     | 25.6x10     | 15°                                  |             |        |

| Type            | Part Number        | DxH(mm)         | Full Angle  | FWHM                | Holder |
|-----------------|--------------------|-----------------|-------------|---------------------|--------|
| 3 in 1          | LL03CR-RXxxL06     | 35x9.6          | 40° 60°     |                     |        |
|                 | LL03ED-CTxxL06     | 31x11.2         | 38°         |                     |        |
|                 | LL03ED-UYxxL06     | 33.2x10.3       | 40°         |                     |        |
|                 | LL03LU-DOxxL06     | 35x10.6         |             | 15° 25° 40°         |        |
|                 | LL03OS-GKxxL06     | 33.2x9.8        | 25° 40° 60° |                     |        |
|                 | LL03CR-CExxL06     | 34x9.9          | 38°         |                     |        |
| 4 in 1          | LL03CR-HKxxL06     | 35x8.2          | 40°         |                     |        |
|                 | LL04CR-RXxxL06     | 35x9.7          | 40° 60°     |                     |        |
|                 | LL04ED-UYxxL06     | 37x10.3         | 40°         |                     |        |
|                 | LL04LU-DOxxL06     | 35x10.4         |             | 15° 25° 40°         |        |
|                 | LL04OS-GKxxL06     | 37x9.8          | 40° 60°     |                     |        |
|                 | LL04CR-CECxxL06    | 50x8.5          |             | 25°                 |        |
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76x13           |             | 25°                 | V      |
|                 | LL06CR-RXxxL06     | 50x9.65         | 40° 60°     |                     |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5       | 25° 40° 60° |                     |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13           |             | 25°                 | V      |
|                 | LL06ED-BExxxL06    | 43.9x8.6        | 25°         |                     |        |
|                 | LL06CR-AXLxxL06-M2 | 76x13           |             | 25°                 | V      |
| 7 in 1          | LL07CR-RXxxL06     | 50x10.3         | 40° 60°     |                     |        |
|                 | LL07ED-UYxxL06     | 47x10.3         | 40°         |                     |        |
|                 | LL07OS-GKxxL06     | 47x9.8          | 40° 60°     |                     |        |
|                 | LL07ZZ-FUxxL06     | 50.35x10.7      | 15° 25°     |                     |        |
| 9 in 1          | LL09CR-RXxxL06     | 70x10.3         | 40° 60°     |                     |        |
|                 | LL09ED-BZxxL06     | 90.75x16.5      | 25°         |                     |        |
|                 | LL09ED-UYxxL06     | 67x10.3         | 40°         |                     |        |
|                 | LL09OS-GKxxL06     | 67x9.8          | 40° 60°     |                     |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3         | 40° 60°     |                     |        |
|                 | LL12ED-UYxxL06     | 67x10.3         | 40°         |                     |        |
|                 | LL12OS-GKxxL06     | 67x9.8          | 40° 60°     |                     |        |
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95    |             | 80x150° (Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18x10.2x6.1     |             | 85x135° (Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9      |             | 60x135° (Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6  |             | 60x90° (Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2     |             | 85x150° (Symmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |             | 70x130° (Asymmetry) |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3     |             | 50x150° (Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05      |             | 80x150° (Asymmetry) |        |
|                 | LL04CR-BXJ60L02    | 50x50x7.05      |             | 60° (Symmetry)      |        |
|                 | LL04CR-BXJ90L02    | 50x50x7.05      |             | 90° (Symmetry)      |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |             | 75x135° (Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |             | 65x140° (Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235x71x9.4      |             | 60x140° (Asymmetry) |        |



Osram  
SSL80



# ■ Osram SSL80

| Type   | Part Number        | DxH(mm)     | Full Angle             | FWHM                             | Holder |
|--------|--------------------|-------------|------------------------|----------------------------------|--------|
| Single | LL01OS-BDFxxL06-M2 | 13.5x7.35   | 40° 60° 100°           |                                  | V      |
|        | LL01CR-BRxxL06     | 19.65x12.5  | 40°                    |                                  |        |
|        | LL01CR-DGxxL06     | 28.8x16.65  | 30° 40° 60°            |                                  |        |
|        | LL01CR-HQxxL06     | 14.8x9.6    | 15° 30° 40° 60° 80°    |                                  |        |
|        | LL01CR-NExxL06     | 19.4x15     | 40° 60° 80° 25x45°     |                                  |        |
|        | LL01ED-AJxxL06     | 28.9x19.7   | 40° 60°                |                                  |        |
|        | LL01ED-AKxxL06     | 34.4x18.8   | 40°                    |                                  |        |
|        | LL01ED-BBxxL06     | 35.8x16.5   | 60°                    |                                  |        |
|        | LL01ED-CTxxL06     | 31x11.2     | 38°                    |                                  |        |
|        | LL01OS-AFCxxL06-M2 | 21.3x12.4   |                        | 10° 15° 25° 30°<br>10x35° 15x30° | V      |
|        | LL01OS-AAFxxL06-M2 | 13.5x7.35   |                        | 25°                              | V      |
|        | LL01NI-GRxxL06     | 19.45x13.5  | 40° 60° 80°            |                                  |        |
|        | LL01OS-AXxxL02     | 20x11.5     | 40° 60°                |                                  |        |
|        | LL01OS-BWxxL06     | 37.2x15.35  | 30°                    |                                  |        |
|        | LL01OS-BYxxL06     | 37.2x15.35  | 30°                    |                                  |        |
|        | LL01OS-HGxxL06     | 10x6        | 40° 60°                |                                  |        |
|        | LL01OS-MQxxL06-M2  | 21.05x14.75 | 15° 25° 40° 60°        |                                  | V      |
|        | LL01OS-EXxxL06-M2  | 22.4x9.7    | 10° 25° 40° 60° 30x65° |                                  | V      |
|        | LL01ZZ-FLxxL06     | 22.2x10.6   | 25° 40° 60°            |                                  |        |
|        | LL01ED-FMxxL06     | 19.9x10.55  | 38°                    |                                  |        |
| 3 in 1 | LL01OS-CBxxL06     | 25.6x10     | 15°                    |                                  |        |
|        | LL01ZZ-AHAxxL06    | 50x25.4     |                        | 5°                               |        |
|        | LL01OS-BFVxxL06    | 20.8x12.35  |                        | 15° 25° 30°<br>15x40°            |        |
|        | LL03CR-RXxxL06     | 35x9.6      | 40° 60°                |                                  |        |
|        | LL03ED-UYxxL06     | 33.2x10.3   | 40°                    |                                  |        |
| 4 in 1 | LL03LU-DMxxL06     | 23.1x11     | 15° 25° 40°            |                                  |        |
|        | LL03LU-DOxxL06     | 35x10.6     | 15° 25° 40°            |                                  |        |
|        | LL03OS-GKxxL06     | 33.2x9.8    | 25° 40° 60° 80°        |                                  |        |
|        | LL04CR-GPxxL06     | 22.2x6.7    | 25° 38° 45°            |                                  |        |
|        | LL04CR-RXxxL06     | 35x9.7      | 40° 60°                |                                  |        |
|        | LL04ED-UYxxL06     | 37x10.3     | 40°                    |                                  |        |
|        | LL04LU-DNxxL06     | 25.4x10.5   |                        | 15° 25° 40°                      |        |
|        | LL04LU-DOxxL06     | 35x10.4     |                        | 15° 25° 40°                      |        |
|        | LL04OS-GKxxL06     | 37x9.8      | 40° 60° 80°            |                                  |        |

| Type            | Part Number        | DxH(mm)         | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|-----------------|-------------|------------------------|--------|
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76x13           |             | 25°                    | V      |
|                 | LL06CR-RXxxL06     | 50x9.65         | 40° 60°     |                        |        |
|                 | LL06ED-ADxxL06     | 73.3x11.5       | 25° 40° 60° |                        |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13           |             | 15° 25° 35°            | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13           |             | 25°                    | V      |
| 7 in 1          | LL07CR-RXxxL06     | 50x10.3         | 40° 60°     |                        |        |
|                 | LL07ED-UYxxL06     | 47x10.3         | 40°         |                        |        |
|                 | LL07OS-GKxxL06     | 47x9.8          | 40° 60° 80° |                        |        |
|                 | LL07ZZ-FUxxL06     | 50.35x10.7      | 15° 25°     |                        |        |
| 9 in 1          | LL07ZZ-FVxxL06     | 39.2x10.6       | 15° 25°     |                        |        |
|                 | LL09CR-RXxxL06     | 70x10.3         | 40° 60°     |                        |        |
|                 | LL09ED-UYxxL06     | 67x10.3         | 40°         |                        |        |
|                 | LL09OS-GKxxL06     | 67x9.8          | 40° 60° 80° |                        |        |
| 12 in 1         | LL12CR-RXxxL06     | 70x10.3         | 40° 60°     |                        |        |
|                 | LL12ED-AGxxL06     | 112x13.4        | 45°         |                        |        |
|                 | LL12ED-UYxxL06     | 67x10.3         | 40°         |                        |        |
|                 | LL12OS-GKxxL06     | 67x9.8          | 40° 60° 80° |                        |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5x12.7      | 45°         |                        |        |
| 36 in 1         | LL36ED-AAxxL06     | 140x12.6        | 45°         |                        |        |
| 60 in 1         | LL60ED-BOxxL06     | 180x13.1        | 45°         |                        |        |
| Street Lighting | LL01CR-APM80150L02 | 18x12.5x6.95    |             | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18x10.2x6.1     |             | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9      |             | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6  |             | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2  |             | 70x130°<br>(Asymmetry) |        |
|                 | LL01OS-AU60140L02  | 16x5.3          |             | 60x140°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05      |             | 80x150°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2    |             | 75x135°<br>(Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2x79.7x12.2 |             | 65x140°<br>(Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235x71x9.4      |             | 60x140°<br>(Asymmetry) |        |

## ■ Oslon SSL150

| Type            | Part Number        | DxH(mm)        | Full Angle         | FWHM                | Holder |
|-----------------|--------------------|----------------|--------------------|---------------------|--------|
| Single          | LL01CR-BExxL06     | 20.9x9.2       |                    | 25° 40° 60°         |        |
|                 | LL01CR-BRxxL06     | 19.65x12.5     | 40° 15x50°         |                     |        |
|                 | LL01OS-BDFxxL06-M2 | 13.5x7.35      | 25° 60° 80° 30x65° |                     | V      |
|                 | LL01CR-DGxxL06     | 28.8x16.65     | 30° 40° 60°        |                     |        |
|                 | LL01CR-HQxxL06     | 14.8x9.5       | 40° 60°            |                     |        |
|                 | LL01CR-NExxL06     | 19.4x15        | 25° 40° 60°        |                     |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7      | 25° 40° 60°        |                     |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8      | 25° 40°            |                     |        |
|                 | LL01ED-ASxxR06     | 19.9x10.55     | 38° 60°            |                     |        |
|                 | LL01ED-BBxxL06     | 35.8x16.5      | 60°                |                     |        |
|                 | LL01ED-CTxxL06     | 31x11.2        | 38°                |                     |        |
|                 | LL01ED-CVxxL06     | 19.6x12.3      | 25°                |                     |        |
|                 | LL01NI-ANExxL02    | 19.4x14.94     |                    | 10° 20° 30°         |        |
|                 | LL01NI-GRxxL06     | 19.45x13.5     | 40°                |                     |        |
|                 | LL01OS-AXxxL02     | 20x11.5        | 40°                |                     |        |
|                 | LL01OS-BWxxL06     | 37.2x15.35     | 30°                |                     |        |
|                 | LL01OS-BYxxL06     | 37.2x15.35     | 30°                |                     |        |
|                 | LL01OS-EXxxL06-M2  | 22.4x9.7       | 25° 40° 30x65°     |                     | V      |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6      | 25° 40° 60° 30x65° |                     |        |
|                 | LL01ED-FMxxL06     | 19.9x10.55     | 38°                |                     |        |
| 3 in 1          | LL01OS-CBxxL06     | 25.6x10        | 15°                |                     |        |
|                 | LL01ZZ-AHAxxL06    | 50x25.4        |                    | 5°                  |        |
|                 | LL03ED-CTxxL06     | 31x11.2        |                    |                     |        |
|                 | LL03ED-UYxxL06     | 33.2x10.3      | 38°                |                     |        |
| 4 in 1          | LL03LU-DMxxL06     | 23.1x11        |                    | 40°                 |        |
|                 | LL03LU-DOxxL06     | 35x10.6        |                    | 25° 40°             |        |
|                 | LL04ED-UYxxL06     | 37x10.3        | 25° 40°            |                     |        |
| 6 in 1          | LL04LU-DNxxL06     | 25.4x10.5      | 40°                |                     |        |
|                 | LL04LU-DOxxL06     | 35x10.4        | 25° 40°            |                     |        |
|                 | LL06CR-AXNxL06-M2  | 76x13          |                    | 25°                 | V      |
|                 | LL06ED-ADxxL06     | 73.3x11.5      | 25°                |                     |        |
| 7 in 1          | LL06CR-AXMxxL06-M2 | 76x13          |                    | 25°                 | V      |
|                 | LL06CR-AXLxxL06-M2 | 76x13          |                    | 25°                 | V      |
| 9 in 1          | LL07ED-UYxxL06     | 47x10.3        | 40°                |                     |        |
| 12 in 1         | LL09ED-UYxxL06     | 67x10.3        | 40°                |                     |        |
|                 | LL12ED-AGxxL06     | 112x13.4       | 40°                |                     |        |
|                 | LL12ED-BGxxL06     | 95x11.2        | 45°                |                     |        |
| 18 in 1         | LL12ED-UYxxL06     | 67x10.3        | 40°                |                     |        |
|                 | LL18ED-BIxxL06     | 110x13.1       | 40°                |                     |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |                    | 85x135° (Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |                    | 70x130° (Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120x100x10.2   |                    | 75x135° (Asymmetry) |        |

## ■ OSTAR

| Type            | Part Number        | DxH(mm)        | Full Angle      | FWHM                | Holder |
|-----------------|--------------------|----------------|-----------------|---------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34x15.7        |                 | 24° 55°             |        |
|                 | LL01CR-ACZxxL02    | 27.8x10.2      |                 | 24°                 |        |
|                 | LL01CR-DGxxL06     | 28.8x16.75     | 30° 40° 50° 60° |                     |        |
|                 | LL01CR-NExxL06     | 19.4x4.9       | 80°             |                     |        |
|                 | LL01CR-PVxxL02     | 45x23.7        | 45° 60° 80°     |                     |        |
|                 | LL01CR-SQxxL06     | 19.4x12.9      | 40° 60°         |                     |        |
|                 | LL01CR-WIxxL02     | 28.8x17.4      |                 | 25° 40°             |        |
|                 | LL01CR-XSxxL06     | 22.2x10.6      | 40°             |                     |        |
|                 | LL01CR-YJxxL02     | 19.4x12.7      | 40° 100°        |                     |        |
|                 | LL01CR-ZExxL02     | 35x20.4        |                 | 20° 45°             |        |
|                 | LL01ED-ACZxxL02    | 35x10.7        |                 | 24° 38°             |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7      | 25° 40° 60°     |                     |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8      | 25° 40°         |                     |        |
|                 | LL01ED-AOxxL06     | 19.4x13.45     | 60°             |                     |        |
|                 | LL01ED-AQxxL06     | 22.5x10.5      | 60°             |                     |        |
|                 | LL01ED-ASxxR06     | 19.9x10.55     | 38° 60°         |                     |        |
|                 | LL01ED-BBxxL06     | 35.8x16.5      | 60°             |                     |        |
|                 | LL01ED-CYxxL06     | 26.8x20.6      | 30° 45°         |                     |        |
|                 | LL01NI-GRxxL06     | 19.45x13.5     | 40° 60° 80°     |                     |        |
|                 | LL01OS-AXxxL02     | 20x11.5        | 40° 60°         |                     |        |
| 3 in 1          | LL01OS-BWxxL06     | 37.2x15.35     | 30°             |                     |        |
|                 | LL01OS-BYxxL06     | 37.2x15.35     | 30°             |                     |        |
|                 | LL01ZZ-AFLxxL02    | 22.2x10.4      |                 | 35°                 |        |
|                 | LL01ZZ-AHZxxL02    | 22.2x10.6      |                 | 38°                 |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6      | 25° 40° 60°     |                     |        |
|                 | LL01CR-ADTxxL06    | 35x10.65       | 40°             |                     |        |
|                 | LL01OS-CBxxL06     | 25.6x10        | 15°             |                     |        |
|                 | LL03CR-AZxxL06     | 50x14.5        | 45°             |                     |        |
|                 | LL01CR-DL90120L02  | 26x15.8x9.15   |                 | 90x120° (Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |                 | 70x130° (Asymmetry) |        |
| Street Lighting | LL01CR-XW70140L02  | 32x17.6x9.8    |                 | 70x140° (Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32x18.5x9.5    |                 | 80x150° (Asymmetry) |        |





Duris  
S5



Duris  
S8



SOLER  
IQ S13



SOLER  
IQ S19



OSTAR  
RGBW



## ■ Duris S5

| Type   | Part Number        | DxH(mm)    | Full Angle      | FWHM    | Holder |
|--------|--------------------|------------|-----------------|---------|--------|
| Single | LL01OS-AAFxxL02-M2 | 13.5x7.35  |                 | 25°     | V      |
|        | LL01NI-AAFxxL02    | 11.8x6.5   |                 | 45° 60° |        |
|        | LL01CR-BDFxxL06    | 11.8x6.45  |                 | 40° 60° |        |
|        | LL01CR-DFxxL06     | 11.8x6.65  | 80° 100°        |         |        |
|        | LL01CR-NExxL06     | 19.4x15    | 25° 40° 60° 80° |         |        |
|        | LL01OS-MQxxL06-M2  | 21.05x14.3 | 25° 40° 60°     |         | V      |
|        | LL01ZZ-FLxxL06     | 22.2x10.6  | 25° 40° 60°     |         |        |

## ■ Duris S8

| Type            | Part Number        | DxH(mm)     | Full Angle             | FWHM                   | Holder |
|-----------------|--------------------|-------------|------------------------|------------------------|--------|
| Single          | LL01ZZ-AFLxxL02    | 22.2x10.4   |                        | 35°                    |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6   | 25° 40°                |                        |        |
|                 | LL01CR-XSxxL06     | 22.2x10.6   | 40°                    |                        |        |
|                 | LL01ED-AFDxxL06    | 26x15.5     |                        | 15°                    |        |
|                 | LL01CR-DGxxL06     | 28.8x16.6   | 20° 30°<br>40° 50° 60° |                        |        |
|                 | LL01ED-AJxxL06     | 28.9x19.7   | 40° 60°                |                        |        |
|                 | LL01ED-ACAxL14     | 29.9x12.1   |                        | 38°                    |        |
|                 | LL01CR-ABGxxL02    | 34x15.7     |                        | 24°                    |        |
|                 | LL01ED-AKxxL06     | 34.4x18.8   | 25°                    |                        |        |
|                 | LL01ED-BCQxxL06    | 34.75x19.25 |                        | 15° 15x30°             |        |
|                 | LL01CR-ZExxL02     | 35x20.4     | 20°                    |                        |        |
|                 | LL01OS-CBxxL06     | 25.6x10     | 15°                    |                        |        |
|                 | LL01CR-BGSxxL06    | 34x15.7     |                        | 24°                    |        |
|                 | LL01CR-ADTxxL06    | 35x10.65    |                        | 30°                    |        |
| Street Lighting | LL04CR-BXJ80150L02 | 50x50x7.05  |                        | 80x150°<br>(Asymmetry) |        |

## ■ SOLER IQ S13

| Type   | Part Number       | DxH(mm)   | Full Angle | FWHM        | Holder |
|--------|-------------------|-----------|------------|-------------|--------|
| Single | LL01CT-AZWxxL02-P | 76.1x12.7 |            | 12° 15° 24° |        |
|        | LL01CT-AZNxxL02-P | 88.5x15   |            | 15° 24° 38° |        |
|        | LL01ED-ASAxL02-P  | 90.6x22   |            | 12° 24°     |        |
|        | LL01ED-ASAxL06-P  | 90.6x22   |            | 12° 24° 38° |        |
|        | LL01CR-BGCxxR49   | 75x45     |            | 24° 38°     |        |

## ■ SOLER IQ S19

| Type      | Part Number        | DxH(mm)   | Full Angle | FWHM            | Holder |
|-----------|--------------------|-----------|------------|-----------------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4x16.7 |            | 24° 38°         | V      |
|           | LL01CT-AMYxxL06    | 76x23     |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5   |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P  | 76.1x12.7 |            | 12° 15° 24°     |        |
|           | LL01CT-APGxxL06-M2 | 84.6x18   |            | 24° 38°         | V      |
|           | LL01ED-ASAxL02-P   | 90.6x22   |            | 12° 24°         |        |
| Reflector | LL01ED-ASAxL06-P   | 90.6x22   |            | 12° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45     |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40     |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P  | 90x50     |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50     |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50     |            | 15° 24° 38° 55° |        |

## ■ OSTAR RGBW

| Type   | Part Number        | DxH(mm)   | Full Angle | FWHM       | Holder |
|--------|--------------------|-----------|------------|------------|--------|
| Single | LL01ED-AFDxxL06    | 26x15.5   |            | 15°        |        |
|        | LL01ED-AKxxL06     | 34.4x18.8 | 25° 40°    |            |        |
|        | LL01ED-BCQxxL06-M2 | 38.1x21.2 |            | 15° 15x30° | V      |



CI series



BI series



N series



S series



HORNET



HORNET color



## CI series

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°         |        |
| Reflector | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45°     |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |

## BI / N series

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01CT-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
| Reflector | LL01BR-TYRxxR34-P  | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45°     |        |
|           | LL01ZZ-AAAxxL49    | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |

## S series

| Type      | Part Number       | DxH(mm)    | Full Angle             | FWHM        | Holder |
|-----------|-------------------|------------|------------------------|-------------|--------|
| Single    | LL01ED-CVxxL02    | 19.6x12.3  | 25° 45°                |             |        |
|           | LL01CR-BEXxxL06   | 20.9x9.2   |                        | 25°         |        |
|           | LL01ZZ-EXxxL06    | 21x9.3     | 40° 30x65°             |             |        |
|           | LL01ZZ-AFLxxL02   | 22.2x10.4  |                        | 35° 50°     |        |
|           | LL01ZZ-FLxxL06    | 22.2x10.6  | 25° 40° 60°            |             |        |
|           | LL01ED-AFDxxL06   | 26x15.5    |                        | 15° 20°     |        |
|           | LL01CR-DGxxL06    | 28.8x16.75 | 20° 30°<br>40° 50° 60° |             |        |
|           | LL01ED-ABYxxL02   | 44x14.1    |                        | 24°         |        |
|           | LL01CR-AQHxxL02   | 44x14.1    |                        | 38° 45°     |        |
| Reflector | LL01BR-TYRxxR34-P | 45x19.4    |                        | 24° 34° 50° |        |
|           | LL01ED-AKYxxR49   | 50x30      |                        | 24° 38° 45° |        |
|           | LL01ED-ALxxR49    | 50x19      |                        | 24° 38° 55° |        |

## HORNET

| Type   | Part Number     | DxH(mm)    | Full Angle             | FWHM | Holder |
|--------|-----------------|------------|------------------------|------|--------|
| Single | LL01ZZ-AFLxxL02 | 22.2x10.4  | 35° 50° 70°            |      |        |
|        | LL01ZZ-AHZxxL02 | 22.2x10.6  | 24° 38°                |      |        |
|        | LL01ZZ-FLxxL06  | 22.2x10.6  | 10° 25°                |      |        |
|        | LL01CR-DGxxL06  | 28.8x16.75 | 20° 30°<br>40° 50° 60° |      |        |
|        | LL01CR-WlxxL02  | 28.8x17.4  | 15° 25°                |      |        |

## HORNET color

| Type   | Part Number     | DxH(mm)     | Full Angle | FWHM       | Holder |
|--------|-----------------|-------------|------------|------------|--------|
| Single | LL01ED-AFDxxL06 | 26x15.5     |            | 15°        |        |
|        | LL01ED-BCQxxL06 | 34.75x19.25 |            | 15° 15x30° |        |



PHENIX  
3020



PHENIX  
3045



PHENIX  
3535



PROEON



PROEON  
color



## ■ PHENIX 3020

| Type   | Part Number     | DxH(mm)   | Full Angle | FWHM                  | Holder |
|--------|-----------------|-----------|------------|-----------------------|--------|
| Single | LL01CR-AAFxxL02 | 11.8x6.65 |            | 25° 45° 60°           |        |
|        | LL01CR-BDFxxL06 | 11.8x6.45 |            | 25° 40° 60°<br>30x70° |        |
|        | LL01CR-DFxxL06  | 11.8x6.5  | 80°        |                       |        |

## ■ PHENIX 3045

| Type   | Part Number        | DxH(mm)    | Full Angle                        | FWHM                             | Holder |
|--------|--------------------|------------|-----------------------------------|----------------------------------|--------|
| Single | LL01CR-AAFxxL02    | 11.8x6.65  |                                   | 25°                              |        |
|        | LL01NI-AAFxxL02    | 11.8x6.65  |                                   | 45° 60°                          |        |
|        | LL01LU-BDFxxL06-M2 | 13.5x7.35  |                                   | 25° 40° 60°<br>30x70°            | V      |
|        | LL01LU-DFxxL06-M2  | 13.5x7.35  | 25° 40° 60° 80° 100°<br>30x65°    |                                  | V      |
|        | LL01CR-HQxxL06     | 14.8x9.6   | 15° 25° 30° 40° 60°<br>80° 25x45° |                                  |        |
|        | LL01CR-OTxxL06     | 15x9.7     | 40° 60° 80°                       |                                  |        |
|        | LL01LU-AFCxxL06-M2 | 21.3x12.35 |                                   | 10° 15° 25° 30°<br>10x35° 15x30° | V      |
|        | LL01NI-ANExxL02    | 19.4x14.94 |                                   | 10° 20° 30°                      |        |
|        | LL01CR-NExxL06     | 19.4x15    | 25° 40° 60° 80°<br>10x45° 25x45°  |                                  |        |
|        | LL01OS-BFVxxL06    | 20.8x12.35 |                                   | 15° 25° 30°<br>10x40°            |        |
|        | LL01LU-FLxxL06-M2  | 24.3x11.6  | 10° 25° 40° 60°<br>30x65°         |                                  | V      |

## ■ PHENIX 3535

| Type   | Part Number        | DxH(mm)    | Full Angle                       | FWHM                         | Holder |
|--------|--------------------|------------|----------------------------------|------------------------------|--------|
| Single | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                                  | 25° 45° 60°                  | V      |
|        | LL01HS-DFxxL02-M2  | 13.5x7.35  | 60° 80° 100°<br>30x65°           |                              | V      |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                                  | 15° 25° 30°<br>10x35° 15x30° | V      |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8  |                                  | 10° 20° 30°                  | V      |
|        | LL01NI-NExxL06-M2  | 21.4x15.8  | 25° 40° 60° 80°<br>10x45° 25x45° |                              | V      |
|        | LL01OS-BFVxxL06    | 20.8x12.35 |                                  | 15° 25° 30°<br>10x40°        |        |
|        | LL01XP-FLxxL06-M2  | 24.3x11.6  | 10° 25° 40° 60°<br>30x65°        |                              | V      |

## ■ PROEON

| Type   | Part Number    | DxH(mm)   | Full Angle                | FWHM | Holder |
|--------|----------------|-----------|---------------------------|------|--------|
| Single | LL01CR-AOxxL06 | 19.4x13.5 | 30° 40° 60° 80°<br>25x45° |      |        |
|        | LL01ED-CVxxL02 | 19.6x12.3 | 15° 25° 45°               |      |        |

## ■ PROEON Color

| Type   | Part Number     | DxH(mm)     | Full Angle | FWHM       | Holder |
|--------|-----------------|-------------|------------|------------|--------|
| Single | LL01ED-AFDxxL06 | 26x15.5     |            | 15° 20°    |        |
|        | LL01ED-CYxxL06  | 26.8x20.6   | 10°        |            |        |
|        | LL01ED-BCQxxL06 | 34.75x19.25 |            | 15° 15x30° |        |

## ■ LC026B / 033B / 040B

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01ED-ABxxL06     | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AMyxxL06    | 76x23      |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P  | 76.1x12.7  |            | 15° 24° 38°     |        |
|           | LL01CT-APGxxL06-M2 | 90.8x22    |            | 24° 38°         | V      |
|           | LL01CT-AZNxxL02-P  | 88.5x15    |            | 15° 24° 38°     |        |
|           | LL01ED-ASAxL02-P   | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°     |        |
| Reflector | LL01SP-AVAXxL06    | 42x9.65    |            | 40°             |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |

## ■ LH351Z

| Type            | Part Number        | DxH(mm)    | Full Angle             | FWHM                | Holder |
|-----------------|--------------------|------------|------------------------|---------------------|--------|
| Single          | LL01CR-AAFxxL02-M2 | 13.5x7.35  |                        | 25° 45° 60°         | V      |
|                 | LL01CR-DFxxL06-M2  | 13.5x7.35  | 80° 100° 30x65°        |                     | V      |
|                 | LL01CR-OTxxL06     | 15x9.7     | 40° 60° 80°            |                     |        |
|                 | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                        | 10x35° 15x30°       | V      |
|                 | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                        | 15° 25° 30°         | V      |
|                 | LL01NI-ANExxL02-M2 | 23.5x15.8  |                        | 10° 20° 30°         | V      |
|                 | LL01CR-BNExxL06    | 19.4x14.6  |                        | 25° 40° 35x70°      |        |
|                 | LL01CR-NExxL06-M2  | 23.5x15.8  | 17° 25° 40° 60° 25x45° |                     | V      |
|                 | LL01OS-BFVxxL06    | 20.8x12.35 |                        | 15° 25° 30°         |        |
|                 | LL01CR-BEXxxL06    | 20.9x9.2   |                        | 60°                 |        |
|                 | LL01ZZ-EXxxL06-M2  | 22.4x9.63  | 10° 25° 40°            |                     | V      |
|                 | LL01ZZ-AFLxxL02    | 22.2x10.4  |                        | 35° 50°             |        |
|                 | LL01XP-FLxxL06-M2  | 24.3x11.6  | 10° 25° 60° 30x65°     |                     | V      |
| 3 in 1          | LL03ED-GKxxL06     | 33.2x10.2  | 25° 40°                |                     |        |
|                 | LL03CR-RXxxL06     | 35x10.5    | 40° 60°                |                     |        |
| 4 in 1          | LL04CR-RXxxL06     | 35x10.5    | 40° 60°                |                     |        |
|                 | LL04ED-GKxxL06     | 37x10.3    | 25° 40°                |                     |        |
| 6 in 1          | LL06CR-RXxxL06     | 50x10.5    | 40° 60°                |                     |        |
|                 | LL07ED-GKxxL06     | 47x10.5    | 25° 40°                |                     |        |
| 7 in 1          | LL07CR-RXxxL06     | 50x10.3    | 40° 60°                |                     |        |
|                 | LL09ED-GKxxL06     | 67x10.8    | 25° 40°                |                     |        |
|                 | LL09CR-RXxxL06     | 70x10.3    | 40° 60°                |                     |        |
| 9 in 1          | LL12CR-RXxxL06     | 70x10.3    | 40° 60°                |                     |        |
|                 | LL12ED-GKxxL06     | 67x10.8    | 25° 40°                |                     |        |
| Street Lighting | LL04CR-BXJ45155L02 | 50x50x6.95 |                        | 45x155° (Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05 |                        | 80x150° (Asymmetry) |        |

## ■ LC013B / 019B

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01ED-AYxxL06     | 43.8x24.5  | 38°        | 10°             |        |
|           | LL01ED-FGxxL06     | 43.8x24.5  | 38°        | 10°             |        |
|           | LL01CR-PVxxL02     | 45x23.7    | 45° 80°    |                 |        |
|           | LL01CR-ABHxxL02    | 50x10.4    |            | 40° 60°         |        |
|           | LL01CI-ZOxxL06     | 60x15.2    |            | 25° 40°         |        |
|           | LL01CT-BBxxL06     | 69x22.7    |            | 24° 38°         |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AMyxxL06    | 76x23      |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°         |        |
|           | LL01CT-AZWxxL02-P  | 76.1x12.7  |            | 15° 24° 38°     |        |
|           | LL01SP-AVAXxL06    | 42x9.65    |            | 40°             |        |
|           | LL01ZZ-AHAxxL06    | 50x25.4    |            | 5°              |        |
| Reflector | LL01ED-IHxxL02     | 87x44.25   | 60°        |                 |        |
|           | LL01CI-AAKxxL06    | 68.8x19.25 |            | 25°             |        |
|           | LL01CI-ZMxxL06     | 68.8x19.18 |            | 40°             |        |
|           | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45°     |        |
|           | LL01CT-AJZxxR49    | 50x19      |            | 36° 50°         |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |

## ■ LH934A

| Type   | Part Number    | DxH(mm) | Full Angle  | FWHM | Holder |
|--------|----------------|---------|-------------|------|--------|
| Single | LL01CR-PVxxL02 | 45x23.7 | 45° 60° 80° |      |        |





# ■ LH351A

| Type   | Part Number     | DxH(mm)    | Full Angle                        | FWHM               | Holder |
|--------|-----------------|------------|-----------------------------------|--------------------|--------|
| Single | LL01CR-AAFxxL02 | 11.8x6.65  |                                   | 25°                |        |
|        | LL01NI-AAFxxL02 | 11.8x6.5   |                                   | 45° 60°            |        |
|        | LL01CR-DFxxL06  | 11.8x6.65  | 80° 100° 30x65°                   |                    |        |
|        | LL01CR-HQxxL06  | 14.8x9.6   | 15° 25° 30° 40° 60° 80°<br>25x45° |                    |        |
|        | LL01CR-OTxxL06  | 15x9.7     | 40° 60° 80°                       |                    |        |
|        | LL01LU-AFCxxL06 | 19.4x11.8  |                                   | 10x35° 15x30°      |        |
|        | LL01OS-AFCxxL06 | 19.4x11.43 |                                   | 15° 25° 30°        |        |
|        | LL01NI-ANExxL02 | 19.4x14.94 |                                   | 10° 20° 30°        |        |
|        | LL01CR-BNExxL06 | 19.4x14.6  |                                   | 25° 40° 60° 35x70° |        |
|        | LL01CR-NExxL06  | 19.4x15    | 25° 40° 60° 80° 10x45°<br>25x45°  |                    |        |
|        | LL01CR-SQxxL06  | 19.4x12.9  | 40° 60° 80°                       |                    |        |
|        | LL01CR-YJxxL02  | 19.4x12.7  | 40° 60° 80° 100°                  |                    |        |
|        | LL01ED-CVxxL02  | 19.6x12.3  | 15°                               |                    |        |
|        | LL01OS-BFVxxL06 | 20.8x12.35 |                                   | 15° 25° 30° 10x40° |        |
|        | LL01CR-BEXxxL06 | 20.9x9.2   |                                   | 60°                |        |
|        | LL01ZZ-EXxxL06  | 21x9.3     | 10° 25° 40° 30x65°                |                    |        |
|        | LL01ZZ-AFLxxL02 | 22.2x10.4  |                                   | 35° 50°            |        |
|        | LL01ZZ-FLxxL06  | 22.2x10.6  | 10° 25° 60° 30x65°                |                    |        |
|        | LL01CR-XSxxL06  | 22.2x10.6  | 40°                               |                    |        |
|        | LL01CR-DGxxL06  | 28.8x16.75 | 20° 30° 40° 50° 60°               |                    |        |
|        | LL01CR-WIxxL02  | 28.8x17.4  | 15° 25° 40°                       |                    |        |
| 3 in 1 | LL03LU-DMxxL06  | 23.1x11    | 15° 25°                           |                    |        |
|        | LL03ED-CTxxL06  | 31x11.2    | 38°                               |                    |        |
|        | LL03ED-GKxxL06  | 33.2x10.2  | 25° 40°                           |                    |        |
|        | LL03OS-GKxxL06  | 33.2x9.8   | 40° 60° 80°                       |                    |        |
|        | LL03CR-RXxxL06  | 35x10.5    | 40° 60°                           |                    |        |
|        | LL03LU-DOxxL06  | 35x10.6    | 15° 25°                           |                    |        |
| 4 in 1 | LL04CR-GPxxL06  | 22.2x6.7   | 25° 38° 45°                       |                    |        |
|        | LL04LU-GPxxL06  | 22.2x6.8   | 15° 25° 45°                       |                    |        |
|        | LL04LU-DNxxL06  | 25.4x10.5  | 15° 25°                           |                    |        |
|        | LL04CR-RXxxL06  | 35x10.5    | 40° 60°                           |                    |        |
|        | LL04LU-DOxxL06  | 35x10.4    | 15° 25°                           |                    |        |
|        | LL04ED-GKxxL06  | 37x10.3    | 25° 40°                           |                    |        |
| 6 in 1 | LL04OS-GKxxL06  | 37x9.8     | 40° 60° 80°                       |                    |        |
|        | LL06CR-RXxxL06  | 50x10.5    | 40° 60°                           |                    |        |
| 7 in 1 | LL07ED-GKxxL06  | 47x10.5    | 25° 40°                           |                    |        |
|        | LL07OS-GKxxL06  | 47x9.8     | 40° 60° 80°                       |                    |        |
|        | LL07CR-RXxxL06  | 50x10.3    | 40° 60°                           |                    |        |

| Type            | Part Number        | DxH(mm)        | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|----------------|-------------|------------------------|--------|
| 9 in 1          | LL09ED-GKxxL06     | 67x10.8        | 25° 40°     |                        |        |
|                 | LL09OS-GKxxL06     | 67x9.8         | 40° 60° 80° |                        |        |
|                 | LL09CR-RXxxL06     | 70x10.3        | 40° 60°     |                        |        |
| 12 in 1         | LL12ED-GKxxL06     | 67x10.8        | 25° 40°     |                        |        |
|                 | LL12OS-GKxxL06     | 67x9.8         | 40° 60° 80° |                        |        |
|                 | LL12CR-RXxxL06     | 70x10.3        | 40° 60°     |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |             | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |             | 70x130°<br>(Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9  |             | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |             | 45x135°<br>(Asymmetry) |        |
|                 | LL01LU-NI75140L02  | 15.7x14x5.8    |             | 75x140°<br>(Asymmetry) |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3     |             | 60x140°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |             | 70x140°<br>(Asymmetry) |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |             | 80x150°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |             | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |             | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |             | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |             | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |             | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2    |             | 85x150°<br>(Symmetry)  |        |
|                 | LL01OS-AU60130L02  | 30.1x14.3x8.5  |             | 60x130°<br>(Symmetry)  |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |             | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |             | 80x150°<br>(Asymmetry) |        |

## LH351B

| Type    | Part Number     | DxH(mm)    | Full Angle                 | FWHM | Holder |
|---------|-----------------|------------|----------------------------|------|--------|
| Single  | LL01CR-AAFxxL02 | 11.8x6.65  | 25°                        |      |        |
|         | LL01NI-AAFxxL02 | 11.8x6.5   | 45° 60°                    |      |        |
|         | LL01CR-DFxxL06  | 11.8x6.65  | 80° 100° 30x65°            |      |        |
|         | LL01CR-HQxxL06  | 14.8x9.6   | 25° 30° 40° 60° 80° 25x45° |      |        |
|         | LL01CR-OTxxL06  | 15x9.7     | 40° 60° 80°                |      |        |
|         | LL01LU-AFCxxL06 | 19.4x11.8  | 10x35° 15x30°              |      |        |
|         | LL01OS-AFCxxL06 | 19.4x11.43 | 10° 15° 25° 30°            |      |        |
|         | LL01NI-ANExxL02 | 19.4x14.94 | 10° 20° 30°                |      |        |
|         | LL01CR-BNExxL06 | 19.4x14.6  | 25° 40° 35x70°             |      |        |
|         | LL01CR-NExxL06  | 19.4x15    | 25° 40° 60° 25x45°         |      |        |
|         | LL01CR-SQxxL06  | 19.4x12.9  | 40° 60°                    |      |        |
|         | LL01CR-YJxxL02  | 19.4x12.7  | 40° 60°                    |      |        |
|         | LL01ED-CVxxL02  | 19.6x12.3  | 15°                        |      |        |
|         | LL01OS-BFVxxL06 | 20.8x12.35 | 15° 25° 30° 10x40°         |      |        |
|         | LL01CR-BExxxL06 | 20.9x9.2   | 60°                        |      |        |
|         | LL01ZZ-EXxxL06  | 21x9.3     | 10° 25° 40° 30x65°         |      |        |
|         | LL01ZZ-AFLxxL02 | 22.2x10.4  | 35° 50°                    |      |        |
|         | LL01ZZ-FLxxL06  | 22.2x10.6  | 10° 25° 40° 60° 30x65°     |      |        |
| 3 in 1  | LL01CR-XSxxL06  | 22.2x10.6  | 40°                        |      |        |
|         | LL03LU-DMxxL06  | 23.1x11    | 15° 25°                    |      |        |
|         | LL03ED-CTxxL06  | 31x11.2    | 38°                        |      |        |
|         | LL03ED-GKxxL06  | 33.2x10.2  | 25° 40°                    |      |        |
|         | LL03OS-GKxxL06  | 33.2x9.8   | 40° 60° 80°                |      |        |
|         | LL03CR-RXxxL06  | 35x10.5    | 40° 60°                    |      |        |
| 4 in 1  | LL03LU-DOxxL06  | 35x10.6    | 15° 25°                    |      |        |
|         | LL04CR-GPxxL06  | 22.2x6.7   | 25° 38° 45°                |      |        |
|         | LL04LU-GPxxL06  | 22.2x6.8   | 15° 25° 45°                |      |        |
|         | LL04LU-DNxxL06  | 25.4x10.5  | 15° 25°                    |      |        |
|         | LL04ED-GKxxL06  | 37x10.3    | 25° 40°                    |      |        |
| 7 in 1  | LL04OS-GKxxL06  | 37x9.8     | 40° 60° 80°                |      |        |
|         | LL07ED-GKxxL06  | 47x10.5    | 25° 40°                    |      |        |
| 9 in 1  | LL07OS-GKxxL06  | 47x9.8     | 40° 60° 80°                |      |        |
|         | LL09ED-GKxxL06  | 67x10.8    | 25° 40°                    |      |        |
| 12 in 1 | LL09OS-GKxxL06  | 67x9.8     | 40° 60° 80°                |      |        |
|         | LL12ED-GKxxL06  | 67x10.8    | 25° 40°                    |      |        |
|         | LL12OS-GKxxL06  | 67x9.8     | 40° 60° 80°                |      |        |

| Type            | Part Number        | DxH(mm)        | Full Angle | FWHM                   | Holder |
|-----------------|--------------------|----------------|------------|------------------------|--------|
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |            | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1    |            | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |            | 70x130°<br>(Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9  |            | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |            | 45x135°<br>(Asymmetry) |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3     |            | 60x140°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |            | 70x140°<br>(Asymmetry) |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |            | 80x150°<br>(Asymmetry) |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3    |            | 50x150°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |            | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |            | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |            | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |            | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |            | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18x8.95x6.2    |            | 85x150°<br>(Symmetry)  |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |            | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |            | 80x150°<br>(Asymmetry) |        |





ZC4  
ZC6



ZC12  
ZC18



ZC25  
ZC40



## ZC4 / ZC6

| Type      | Part Number     | DxH(mm)  | Full Angle  | FWHM        | Holder |
|-----------|-----------------|----------|-------------|-------------|--------|
| Single    | LL01CR-PVxxL02  | 45x23.7  | 45° 60° 80° |             |        |
|           | LL01CR-ABHxxL02 | 50x10.4  |             | 40° 60°     |        |
|           | LL01CR-BGSxxL06 | 34x15.7  |             | 24°         |        |
|           | LL01CR-BJLxxL02 | 35x12.55 |             | 40°         |        |
|           | LL01WT-BSSxxL46 | 44x12.2  |             | 24° 32°     |        |
|           | LL01SP-AVAxxL06 | 42x9.65  |             | 40°         |        |
| Reflector | LL01CT-AMXxxR49 | 44x11.8  |             | 45°         |        |
|           | LL01ED-AKYxxR49 | 50x30    |             | 24° 38° 45° |        |
|           | LL01ED-ALlxxR49 | 50x19    |             | 24° 38° 55° |        |
|           | LL01ZZ-AAAxL49  | 70x35    |             | 24° 38° 55° |        |

## ZC12 / ZC18

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 76x23      |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06    | 76x22.5    |            | 24° 38°         |        |
| Reflector | LL01BR-TYRxxR34-P  | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P     | 50x30      |            | 20° 33° 45°     |        |
|           | LL01ZZ-AAAxL49     | 70x35      |            | 24° 38° 55°     |        |
|           | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxxR35-P  | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P  | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49    | 90x50      |            | 15° 24° 38° 55° |        |

## ZC25 / ZC40

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|-------------------|------------|------------|-----------------|--------|
| Single    | LL01ED-ABXxxL06   | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06   | 76x23      |            | 24° 38°         |        |
|           | LL01CR-BAYxxL06   | 76x22.5    |            | 24° 38°         |        |
| Reflector | LL01SP-ATHxxR49   | 75x40      |            | 15° 24° 30° 38° |        |
|           | LL01CR-AYMxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01CT-AYXxxR35-P | 90x50      |            | 15° 24° 38°     |        |
|           | LL01SP-ASOxxR49   | 90x50      |            | 15° 24° 38° 55° |        |



MJT2525



MJT3030



## MJT2525

| Type            | Part Number        | DxH(mm)        | Full Angle      | FWHM                   | Holder |
|-----------------|--------------------|----------------|-----------------|------------------------|--------|
| Single          | LL01XB-AAFxxL02-M2 | 13.5x7.35      |                 | 25°                    | V      |
|                 | LL01CR-BDFxxL06-M2 | 13.5x7.35      |                 | 40° 60°                |        |
|                 | LL01CR-DFxxL06     | 11.8x6.65      | 80° 100° 30x65° |                        |        |
|                 | LL01LU-AFCxxL06    | 19.4x11.8      |                 | 10x35° 15x30°          |        |
|                 | LL01OS-AFCxxL06    | 19.4x11.43     |                 | 10° 15° 25° 30°        |        |
|                 | LL01NI-ANExxL02    | 19.4x14.94     |                 | 10° 20° 30°            |        |
|                 | LL01CR-BNExxL06-M2 | 23.5x15.8      |                 | 25° 40° 35x70°         | V      |
|                 | LL01CR-NExxL06     | 19.4x15        | 25° 40° 60° 80° |                        |        |
|                 | LL01OS-BFVxxL06    | 20.8x12.35     |                 | 15° 25° 30° 10x40°     |        |
|                 | LL01CR-BExxxL06-M2 | 22.4x9.13      |                 | 40° 60°                | V      |
| 6 in 1          | LL06CR-AXMxxL06-M2 | 76x13          |                 | 15° 25° 35°            | V      |
|                 | LL06ED-ATxxL06     | 73.2x13.5      | 40°             |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |                 | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1    |                 | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |                 | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |                 | 60x90°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |                 | 70x130°<br>(Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9  |                 | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |                 | 45x135°<br>(Asymmetry) |        |
|                 | LL01OS-AU60140L02  | 16x8.8x5.3     |                 | 60x140°<br>(Asymmetry) |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |                 | 80x150°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |                 | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |                 | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |                 | 80x150°<br>(Asymmetry) |        |

## MJT3030

| Type            | Part Number        | DxH(mm)        | Full Angle                    | FWHM                   | Holder |
|-----------------|--------------------|----------------|-------------------------------|------------------------|--------|
| Single          | LL01OS-AAFxxL02-M2 | 13.5x7.35      |                               | 25°                    | V      |
|                 | LL01NI-AAFxxL02    | 11.8x6.5       |                               | 45° 60°                |        |
|                 | LL01CR-BDFxxL06    | 11.8x6.45      |                               | 40° 60°                |        |
|                 | LL01CR-DFxxL06     | 11.8x6.65      | 80° 100° 30x65°               |                        |        |
|                 | LL01OS-AFCxxL06-M2 | 21.3x12.35     |                               | 15° 25° 30°            | V      |
|                 | LL01CR-BNExxL06    | 19.4x14.6      |                               | 25° 40° 60°<br>35x70°  |        |
|                 | LL01CR-NExxL06     | 19.4x15        | 17° 25° 40° 60°<br>80° 10x45° |                        |        |
|                 | LL01OS-MQxxL06     | 19.45x13.7     | 25°                           |                        |        |
|                 | LL01OS-BFVxxL06    | 20.8x12.35     |                               | 15° 25° 30°            |        |
|                 | LL01CR-BExxxL06    | 20.9x9.2       |                               | 25° 40° 60°            |        |
| 6 in 1          | LL01OS-ExxxL06-M2  | 22.4x9.63      | 25° 40°                       |                        | V      |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6      | 25° 40° 60°                   |                        |        |
|                 | LL06CR-AXMxxL06-M2 | 76x13          |                               | 15° 25° 35°            | V      |
|                 | LL06ED-ATxxL06     | 73.2x13.5      | 40°                           |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |                               | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1    |                               | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |                               | 70x130°<br>(Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9  |                               | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |                               | 45x135°<br>(Asymmetry) |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |                               | 80x150°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |                               | 45x155°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |                               | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |                               | 60x90°<br>(Symmetry)   |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |                               | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |                               | 80x150°<br>(Asymmetry) |        |



MJT4040



MJT5050



■ MJT4040

| Type            | Part Number        | DxH(mm)        | Full Angle                           | FWHM                   | Holder |
|-----------------|--------------------|----------------|--------------------------------------|------------------------|--------|
| Single          | LL01CR-AAFxxL02    | 11.8x6.65      |                                      | 25°                    |        |
|                 | LL01NI-AAFxxL02    | 11.8x6.5       |                                      | 45° 60°                |        |
|                 | LL01CR-BDFxxL06    | 11.8x6.45      |                                      | 30x70°                 |        |
|                 | LL01CR-DFxxL06     | 11.8x6.65      | 80° 100° 30x65°                      |                        |        |
|                 | LL01LU-AFCxxL06    | 19.4x11.8      |                                      | 10x35° 15x30°          |        |
|                 | LL01NI-ANExxL02    | 19.4x14.94     |                                      | 10° 20° 30°            |        |
|                 | LL01CR-NExxL06     | 19.4x15        | 15° 25° 40° 60°<br>80° 10x45° 25x45° |                        |        |
|                 | LL01ZZ-EXxxL06     | 21x9.3         | 10° 25° 40° 60°<br>30x65°            |                        |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6      | 10° 25° 40° 60°<br>30x65°            |                        |        |
| 6 in 1          | LL06ED-AExxL06     | 73.3x13.5      | 25° 40°                              |                        |        |
|                 | LL06ED-ATxxL06     | 73.2x13.5      | 40°                                  |                        |        |
|                 | LL06ED-DKxxL06     | 73.2x13.7      | 60°                                  |                        |        |
| Street Lighting | LL01CR-AU85135L02  | 18x10.2x6.1    |                                      | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18x12.5x6.1    |                                      | 85x135°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |                                      | 70x130°<br>(Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4x11.4x6.9  |                                      | 70x140°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18x12.5x7.05   |                                      | 45x135°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |                                      | 70x140°<br>Asymmetry)  |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |                                      | 80x150°<br>(Asymmetry) |        |
|                 | LL01LU-AEV50150L02 | 18x12.5x6.3    |                                      | 50x150°<br>Asymmetry)  |        |
|                 | LL01ZZ-AGX45155L02 | 18x12.5x7      |                                      | 45x155°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |                                      | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |                                      | 60x90°<br>(Symmetry)   |        |
|                 | LL04CR-BXJ45155L02 | 50x50x6.95     |                                      | 45x155°<br>(Asymmetry) |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |                                      | 80x150°<br>(Asymmetry) |        |

■ MJT5050

| Type            | Part Number        | DxH(mm)        | Full Angle  | FWHM                   | Holder |
|-----------------|--------------------|----------------|-------------|------------------------|--------|
| Single          | LL01NI-AAFxxL02    | 11.8x6.5       |             | 45° 60°                |        |
|                 | LL01CR-SQxxL06-M2  | 21x13.9        | 40° 60° 80° |                        |        |
|                 | LL01NI-GRxxL06     | 19.45x13.5     | 40° 60°     |                        |        |
|                 | LL01ZZ-EXxxL06     | 21x9.3         | 25° 40°     |                        |        |
|                 | LL01ZZ-FLxxL06     | 22.2x10.6      | 25° 40° 60° |                        |        |
|                 | LL01CR-ADGxxL06-M2 | 32.8x18        | 30° 40° 60° |                        |        |
| 6 in 1          | LL06ED-AExxL06     | 73.3x13.5      | 25° 40°     |                        |        |
|                 | LL06ED-ATxxL06     | 73.2x13.5      | 40°         |                        |        |
| Street Lighting | LL06CR-AXML06-M2   | 76x13          |             | 35°                    |        |
|                 | LL01CR-OW70130L02  | 17.4x12.75x7.2 |             | 70x130°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18x11x6.6      |             | 70x140°<br>(Asymmetry) |        |
|                 | LL01CR-APM80150L02 | 18x12.5x6.95   |             | 80x150°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18x9.3x5.9     |             | 60x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55x11.6x8.6 |             | 60x90°<br>(Symmetry)   |        |
|                 | LL04CR-BXJ80150L02 | 50x50x7.05     |             | 80x150°<br>(Asymmetry) |        |



A4



Z5



## A4

| Type   | Part Number     | DxH(mm)    | Full Angle                                | FWHM | Holder |
|--------|-----------------|------------|-------------------------------------------|------|--------|
| Single | LL01ED-ALxxL06  | 19.65x11.4 | 15°                                       |      |        |
|        | LL01CR-BRxxL06  | 19.65x12.5 | 30° 40°<br>10x45° 15x50°<br>15x80° 40x90° |      |        |
|        | LL01ED-ALxxL06  | 19.7x9.9   | 30x65°                                    |      |        |
|        | LL01CR-BSxxL06  | 19.8x12.5  | 10°                                       |      |        |
|        | LL01ZZ-EXxxL06  | 21x8.75    | 25°                                       |      |        |
|        | LL01ZZ-FLxxL06  | 22.2x10.6  | 25° 60°                                   |      |        |
|        | LL01CR-XSxxL06  | 22.2x10.6  | 40°                                       |      |        |
|        | LL01ED-AQxxL06  | 22.5x10.5  | 40° 60°                                   |      |        |
|        | LL01ED-ANxxL06  | 22.7x9.6   | 15x50°                                    |      |        |
|        | LL01ED-AFDxxL06 | 26x15.3    |                                           | 20°  |        |
|        | LL01ED-CYxxL06  | 26.8x20.6  | 30° 45°                                   |      |        |
|        | LL01CR-DGxxL06  | 28.8x16.75 | 20° 30° 40° 50° 60°                       |      |        |
|        | LL01CR-WlxxL02  | 28.8x17.4  | 25° 40°                                   |      |        |
|        | LL01ED-AJxxL06  | 28.9x19.7  | 25° 40° 60°                               |      |        |
|        | LL01ED-AKxxL06  | 34.4x18.8  | 25° 40°                                   |      |        |
|        | LL01CR-ZExxL02  | 35x20.4    | 20° 30° 45°                               |      |        |
|        | LL01ED-BBxxL06  | 35.8x15.9  | 25°                                       |      |        |
|        | LL01OS-BWxxL06  | 37.2x15.35 | 10° 30°                                   |      |        |
|        | LL01OS-BYxxL06  | 37.2x15.35 | 10° 30°                                   |      |        |
|        | LL01ED-AYxxL06  | 43.8x24.5  | 38°                                       | 10°  |        |
|        | LL01ED-ABYxxL02 | 44x14.1    | 24°                                       |      |        |
|        | LL01ED-ZBxxL06  | 19.6x10.4  | 15°                                       |      |        |
|        | LL01ED-FMxxL06  | 19.9x10.55 | 38°                                       |      |        |
|        | LL01LU-LHxxL06  | 21x9.15    | 15°                                       |      |        |
|        | LL01OS-CBxxL06  | 25.6x10    | 15°                                       |      |        |
|        | LL01CR-ADTxxL06 | 35x10.65   | 30°                                       |      |        |
|        | LL01ZZ-AHAxxL06 | 50x25.4    |                                           | 5°   |        |

## Z5

| Type    | Part Number        | DxH(mm)    | Full Angle  | FWHM    | Holder |
|---------|--------------------|------------|-------------|---------|--------|
| Single  | LL01CR-BMxxL06     | 19.4x13.5  | 40°         |         |        |
|         | LL01XP-DGxxL06-M2  | 32.8x18    | 30° 40°     |         | V      |
|         | LL01ED-AJxxL06     | 28.8x19.8  | 25° 40° 60° |         |        |
|         | LL01ED-AKxxL06     | 34.6x18.7  | 25° 40°     |         |        |
|         | LL01ED-ASxxR06     | 19.9x10.6  | 38°         |         |        |
|         | LL01ED-ASxxL06     | 19.9x10.6  | 60°         |         |        |
|         | LL01ED-BBxxL06     | 35.7x15.9  | 60°         |         |        |
|         | LL01ED-CTxxL06     | 31x11.2    | 38°         |         |        |
|         | LL01ED-FMxxL06     | 19.9x10.6  | 38°         |         |        |
|         | LL01NI-GRxxL06     | 19.4x13.5  | 40° 60°     |         |        |
|         | LL01OS-AXxxL02     | 19.7x11.5  | 40°         |         |        |
|         | LL01OS-BWxxL06     | 37.2x15.4  | 30°         |         |        |
|         | LL01OS-BYxxL06     | 37.2x15.4  | 30°         |         |        |
|         | LL01OS-CBxxL06     | 25.6x10    | 15°         |         |        |
|         | LL01ZZ-EXxxL06-M2  | 22.4x9.7   | 25° 40° 60° |         | V      |
| 3 in 1  | LL01XP-FLxxL06-M2  | 24.3x11.5  | 25° 40° 60° |         | V      |
|         | LL03ED-GKxxL06     | 33.2x10.3  | 40°         |         |        |
| 4 in 1  | LL03LU-DMxxL06     | 23.1x10.9  |             | 25° 40° |        |
|         | LL03LU-DOxxL06     | 35x10.5    |             | 25°     |        |
|         | LL04ED-GKxxL06     | 37x10.3    | 40°         |         |        |
| 6 in 1  | LL04LU-DNxxL06     | 25.4x10.4  |             | 25°     |        |
|         | LL04LU-DOxxL06     | 35x10.4    |             | 25°     |        |
|         | LL06CR-AXNxxL06-M2 | 76 x 13    |             | 25°     | V      |
| 7 in 1  | LL06ED-ADxxL06     | 73.3x13.9  | 60°         |         |        |
|         | LL06CR-AXMxxL06-M2 | 76 x 13    |             | 15° 25° | V      |
|         | LL06CR-AXLxxL06-M2 | 76 x 13    |             | 25°     | V      |
| 9 in 1  | LL07ED-GKxxL06     | 47x10.7    | 40°         |         |        |
|         | LL07ZZ-FUxxL06     | 50.3x10.8  |             | 25°     |        |
|         | LL007ZZ-FVxxL06    | 39.1x10.6  |             | 25°     |        |
| 12 in 1 | LL09ED-ACxxL06     | 95x12.8    | 25°         |         |        |
|         | LL09ED-ATxxL06     | 90.6x16.5  | 40°         |         |        |
|         | LL09ED-GKxxL06     | 67x9.8     | 40°         |         |        |
| 15 in 1 | LL12ED-AGxxL06     | 122x13.5   | 45°         |         |        |
|         | LL12ED-GKxxL06     | 67.8x10.8  | 40°         |         |        |
| 24 in 1 | LL15ED-BHxxL06     | 95x11.1    | 40°         |         |        |
| 36 in 1 | LL24ED-ABxxL06     | 174.5x12.5 | 45°         |         |        |
|         | LL36ED-AAxxL06     | 140x12.7   | 45°         |         |        |



Z5P



Z5M1



## Z5P

| Type    | Part Number        | DxH(mm)    | Full Angle         | FWHM            | Holder |
|---------|--------------------|------------|--------------------|-----------------|--------|
| Single  | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                    | 25°             | V      |
|         | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                    | 45° 60°         | V      |
|         | LL01CR-DFxxL06     | 11.8x6.65  | 80° 100°           |                 |        |
|         | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                    | 10x35° 15x30°   | V      |
|         | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                    | 10° 15° 25° 30° | V      |
|         | LL01NI-ANExxL02-M2 | 23.5x15.8  |                    | 10° 20° 30°     | V      |
|         | LL01NI-BNExxL06-M2 | 21.4x15.8  |                    | 40° 35x70°      | V      |
|         | LL01NI-NExxL06-M2  | 21.4x15.8  | 25° 40° 60° 80°    |                 | V      |
|         | LL01OS-BFVxxL06    | 20.8x12.35 |                    | 15° 25° 30°     |        |
|         | LL01CR-EXxxL06-M2  | 23x10.63   | 25° 40° 60° 30x65° |                 | V      |
| 3 in 1  | LL01XP-FLxxL06-M2  | 24.3x11.6  | 25° 40° 60° 30x65° |                 | V      |
|         | LL03OS-GKxxL06     | 33.2x9.8   | 25° 60°            |                 |        |
| 4 in 1  | LL03CR-RXxxL06     | 35x10.5    | 25° 40° 60°        |                 |        |
|         | LL04LU-DNxxL06     | 25.4x10.5  | 25°                |                 |        |
| 6 in 1  | LL04CR-RXxxL06     | 35x10.5    | 25° 40° 60°        |                 |        |
|         | LL04OS-GKxxL06     | 37x9.8     | 60°                |                 |        |
| 7 in 1  | LL06CR-RXxxL06     | 50x10.5    | 25° 40° 60°        |                 |        |
|         | LL07OS-GKxxL06     | 47x9.8     | 60°                |                 |        |
| 9 in 1  | LL07CR-RXxxL06     | 50x10.3    | 40° 60°            |                 |        |
|         | LL09OS-GKxxL06     | 67x9.8     | 60°                |                 |        |
| 12 in 1 | LL09CR-RXxxL06     | 70x10.3    | 40° 60°            |                 |        |
|         | LL12ED-UYxxL06     | 67x10.3    | 40°                |                 |        |
| 36 in 1 | LL12OS-GKxxL06     | 67x9.8     | 60°                |                 |        |
|         | LL12CR-RXxxL06     | 70x10.3    | 40° 60°            |                 |        |
|         | LL36ED-AAxxL06     | 140x12.6   | 45°                |                 |        |

## Z5M1/M2

| Type   | Part Number        | DxH(mm)    | Full Angle          | FWHM                 | Holder |
|--------|--------------------|------------|---------------------|----------------------|--------|
| Single | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                     | 25°                  | V      |
|        | LL01HS-AAFxxL02-M2 | 13.5x7.35  |                     | 45° 60°              | V      |
|        | LL01HS-DFxxL02-M2  | 13.5x7.35  | 80° 100°            |                      | V      |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                     | 10x35° 15x30°        | V      |
|        | LL01CR-AFCxxL06-M2 | 21.3x12.35 |                     | 10° 15° 25° 30°      | V      |
|        | LL01NI-ANExxL02-M2 | 23.5x15.8  |                     | 10° 20° 30°          | V      |
|        | LL01CR-BNExxL06    | 19.4x14.6  |                     | 40° 35x70°           |        |
|        | LL01NI-NExxL06-M2  | 21.4x15.8  | 17° 25° 40° 60° 80° |                      | V      |
|        | LL01OS-BFVxxL06    | 20.8x12.35 |                     | 15° 25° 30°          |        |
|        | LL01CR-BEXxxL06    | 20.9x9.2   |                     | 60°                  |        |
| 3 in 1 | LL01CR-EXxxL06-M2  | 23x10.63   | 25° 40° 60° 30x65°  |                      | V      |
|        | LL01XP-FLxxL06-M2  | 24.3x11.6  | 25° 40° 60° 30x65°  |                      | V      |
|        | LL01NI-BYKxxL19    | 16x8       |                     | 30° 40° 60° 25x45°   |        |
|        | LL03OS-GKxxL06     | 33.2x9.8   | 40° 60° 80°         |                      |        |
|        | LL03CR-RXxxL06     | 35x10.5    | 60°                 |                      |        |
|        | LL03ED-UYxxL06     | 33.2x10.3  | 40°                 |                      |        |
|        | LL04LU-DNxxL06     | 25.4x10.5  | 25°                 |                      |        |
|        | LL04CR-RXxxL06     | 35x10.5    | 60°                 |                      |        |
|        | LL04OS-GKxxL06     | 37x9.8     | 40° 60° 80°         |                      |        |
|        | LL04ED-UYxxL06     | 37x10.3    | 40°                 |                      |        |
| 4 in 1 | LL04CR-CECxxL06    | 50x8.5     |                     | 25°                  |        |
|        | LL06CR-RXxxL06     | 50x10.5    | 60°                 |                      |        |
|        | LL07OS-GKxxL06     | 47x9.8     | 40° 60° 80°         |                      |        |
|        | LL07CR-RXxxL06     | 50x10.3    | 60°                 |                      |        |
|        | LL07ZZ-FVxxL06     | 39.2x10.8  | 25° 30° 60°         |                      |        |
|        | LL07ED-UYxxL06     | 47x10.3    | 40°                 |                      |        |
|        | LL07ZZ-FUxxL06     | 50.35x10.7 | 25°                 |                      |        |
|        | LL09OS-GKxxL06     | 67x9.8     | 40° 60° 80°         |                      |        |
|        | LL09CR-RXxxL06     | 70x10.3    | 60°                 |                      |        |
|        | LL09ED-UYxxL06     | 67x10.3    | 40°                 |                      |        |
| 7 in 1 | LL12ED-UYxxL06     | 67x10.3    | 40°                 |                      |        |
|        | LL12OS-GKxxL06     | 67x9.8     | 40° 60° 80°         |                      |        |
|        | LL12CR-RXxxL06     | 70x10.3    | 60°                 |                      |        |
|        | LL12ED-UYxxL06     | 67x10.3    | 40°                 |                      |        |
|        | LL12OS-GKxxL06     | 67x9.8     | 40° 60° 80°         |                      |        |
|        | LL12CR-RXxxL06     | 70x10.3    | 60°                 |                      |        |
|        | LL04CR-BXJ60L02    | 50x50x7.05 |                     | 60° (Symmetry)       |        |
|        | LL04CR-BXJ90L02    | 50x50x7.05 |                     | 90° (Symmetry)       |        |
|        | LL04CR-BXJ45155L02 | 50x50x6.95 |                     | 45 x155° (Asymmetry) |        |
|        | LL04CR-CFN60155L02 | 50x50x7.3  |                     | 60 x155° (Asymmetry) |        |

## ■ Petite Zenigata

| Type      | Part Number     | DxH(mm)    | Full Angle          | FWHM    | Holder |
|-----------|-----------------|------------|---------------------|---------|--------|
| Single    | LL01CR-ACZxxL02 | 27.8x10.2  |                     | 24° 38° |        |
|           | LL01ED-ABYxxL02 | 44x14.1    |                     | 24°     |        |
|           | LL01CR-AQHxxL02 | 44x14.1    |                     | 38° 45° |        |
|           | LL01CR-BEXxxL06 | 20.9x9.2   |                     | 25°     |        |
|           | LL01CR-DGxxL06  | 28.8x16.75 | 20° 30° 40° 50° 60° |         |        |
|           | LL01CR-WIxxL02  | 28.8x17.4  |                     | 25° 40° |        |
|           | LL01CR-XSxxL06  | 22.2x10.6  | 40°                 |         |        |
|           | LL01ED-ACZxxL02 | 35x10.7    |                     | 24° 38° |        |
|           | LL01ED-AFDxxL06 | 26x15.5    |                     | 15° 20° |        |
|           | LL01ED-AJxxL06  | 28.9x19.7  | 25° 40° 60°         |         |        |
|           | LL01ED-AQxxL06  | 22.5x10.5  | 40° 60°             |         |        |
|           | LL01ED-ASxxL06  | 19.9x10.55 | 38°                 |         |        |
|           | LL01ED-ASxxR06  | 19.9x10.55 | 38°                 |         |        |
|           | LL01ED-ASxxL06  | 19.9x10.15 | 60°                 |         |        |
|           | LL01ED-CVxxL06  | 19.6x12.3  | 15° 25° 45°         |         |        |
|           | LL01ED-CYxxL06  | 26.8x20.6  | 30° 45° 30x65°      |         |        |
|           | LL01OS-AXxxL02  | 20x11.5    | 20° 40° 60°         |         |        |
|           | LL01ZZ-AFLxxL02 | 22.2x10.4  |                     | 35° 50° |        |
|           | LL01ZZ-EXxxL06  | 21x9.15    | 40° 30x65°          |         |        |
|           | LL01ZZ-FLxxL06  | 22.2x10.6  | 25° 40° 60°         |         |        |
| Reflector | LL01SP-AVAxxL06 | 42x9.65    |                     | 40°     |        |
|           | LL01CT-AMXxxR49 | 44x11.8    |                     | 45°     |        |
|           | LL01ED-AJMxxR49 | 35.2x7.8   |                     | 38°     |        |

## ■ Mini Zenigata

| Type      | Part Number       | DxH(mm)    | Full Angle  | FWHM        | Holder |
|-----------|-------------------|------------|-------------|-------------|--------|
| Single    | LL01CR-ABHxxL02   | 50x10.4    |             | 40° 60°     |        |
|           | LL01CR-BAYxxL06   | 75.8x22.5  |             | 24° 38°     |        |
|           | LL01CR-PVxxL02    | 45x23.7    | 45° 60° 80° |             |        |
|           | LL01CR-ZExxL02    | 35x20.4    |             | 20° 30° 45° |        |
|           | LL01CT-AMYxxL06   | 75.8x23    |             | 24°         |        |
|           | LL01CT-AOFxxL06   | 74.4x13    |             | 24° 38°     |        |
|           | LL01CT-APGxxL06   | 84.6x18    |             | 24° 38°     |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |             | 24° 38°     |        |
|           | LL01ED-ASAxL06-P  | 90.6x22    |             | 24° 38°     |        |
|           | LL01SP-AVAxxL06   | 42x9.65    |             | 40°         |        |
|           | LL01CR-BJLxxL02   | 35x12.55   |             | 40°         |        |
| Reflector | LL01BR-TYRxxR34-P | 45x19.4    |             | 24° 34° 50° |        |
|           | LL01CIOTxxR2-P    | 50x30      |             | 20° 33° 45° |        |
|           | LL01CT-AJZxxR49   | 50x19      |             | 38° 55°     |        |
|           | LL01CT-ALNxxR49   | 75.8x20.1  |             | 38° 45°     |        |
|           | LL01CT-ALOxxR49   | 90.5x23.2  |             | 24° 38° 45° |        |
|           | LL01CT-AMXxxR49   | 44x11.8    |             | 45°         |        |
|           | LL01ED-AJMxxR49   | 35.2x7.8   |             | 24° 38°     |        |
|           | LL01ED-AKAxxR49   | 85x23.5    |             | 60°         |        |
|           | LL01ED-AKVxxR49   | 50.5x29.5  |             | 36°         |        |
|           | LL01ED-AKYxxR49   | 50x30      |             | 24° 38° 45° |        |
|           | LL01ED-ALixxR49   | 50x19      |             | 24° 38° 55° |        |
|           | LL01ZZ-AAAxxL49   | 70x35      |             | 24° 38° 55° |        |



SHARP

Mega Zenigata



XICATO

XTM  
9mmLES



XTM  
19mmLES



## ■ Mega Zenigata

| Type      | Part Number       | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|-------------------|------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06   | 75.8x22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06   | 75.8x23    |            | 24°             |        |
|           | LL01CT-AOFxxL06   | 74.4x13    |            | 24° 38°         |        |
|           | LL01CT-APGxxL06   | 84.6x18    |            | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P  | 90.6x22    |            | 24° 38°         |        |
|           | LL01SP-AVAXxL06   | 42x9.65    |            | 40°             |        |
|           | LL01CT-AZNxxL02-P | 88.5x15    |            | 15° 24° 38°     |        |
| Reflector | LL01BR-TYRxxR34-P | 45x19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P    | 50x30      |            | 20° 33° 45°     |        |
|           | LL01CT-ALOxxR49   | 90.5x23.2  |            | 24° 38° 45°     |        |
|           | LL01ED-AKAXxR49   | 85x23.5    |            | 60°             |        |
|           | LL01ED-AKXxxR49   | 116x32     |            | 24° 38°         |        |
|           | LL01ED-ALAXxR49   | 75x20.1    |            | 24° 38°         |        |
|           | LL01ED-ALJxxR49   | 91.5x23.2  |            | 24° 38° 45°     |        |
|           | LL01SP-ASOxxR49   | 90x50      |            | 15° 24° 38° 55° | V      |
|           | LL01SP-ATHxxR49   | 75x40      |            | 15° 24° 38°     | V      |
|           | LL01ZZ-AAAxL49    | 70x35      |            | 38° 55°         |        |

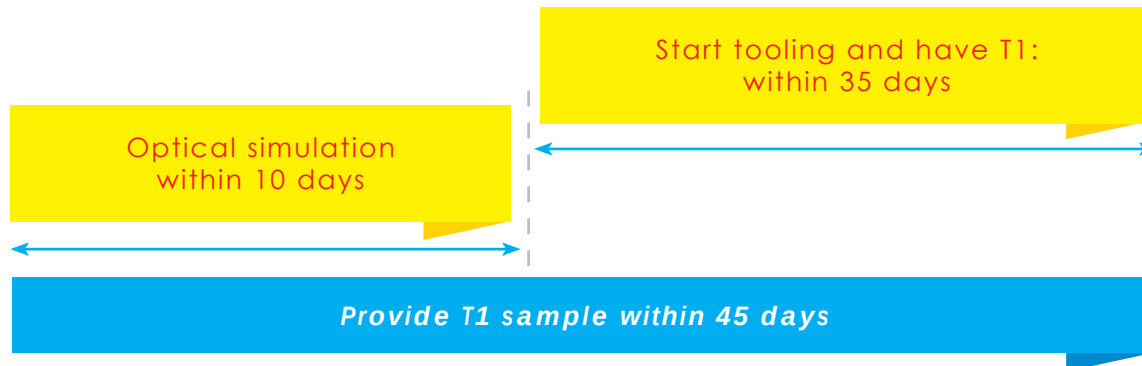
## ■ XTM 9mm LES

| Type      | Part Number       | DxH(mm)   | Full Angle | FWHM        | Holder |
|-----------|-------------------|-----------|------------|-------------|--------|
| Single    | LL01ED-AY10L06    | 43.8x24.5 | 38°        | 10°         |        |
|           | LL01CR-CENxxL02   | 70x17.5   |            | 12°         |        |
|           | LL01CR-CEWxxL02   | 70x15     |            | 12° 24° 38° |        |
|           | LL01CR-CEOxxL02   | 90x19.5   |            | 12°         |        |
|           | LL01CT-AZNxx02    | 88.5x15   |            | 15° 24° 38° |        |
|           | LL01CT-AZWxxL02-P | 76.1x12.7 |            | 12° 15° 24° |        |
| Reflector | LL01CR-AYGxxR49   | 75x45     |            | 15° 24°     |        |
|           | LL01CT-AYTxR35-P  | 75x45     |            | 15° 24° 38° |        |
|           | LL01SP-ATHxxR49   | 75x40     |            | 38°         |        |

## ■ XTM 19mm LES

| Type      | Part Number        | DxH(mm)    | Full Angle | FWHM            | Holder |
|-----------|--------------------|------------|------------|-----------------|--------|
| Single    | LL01ED-AY10L06     | 43.8x24.5  | 38°        | 10°             |        |
|           | LL01CR-CENxxL02    | 70x17.5    |            | 12° 24° 38°     |        |
|           | LL01CR-CEWxxL02    | 70x15      |            | 12° 24° 38°     |        |
|           | LL01CR-CEOxxL02    | 90x19.5    |            | 12°             |        |
|           | LL01CT-AZNxx02     | 88.5x15    |            | 15° 24° 38°     |        |
|           | LL01CT-AZWxxL02-P  | 76.1x12.7  |            | 12° 15° 24° 38° |        |
|           | LL01ED-ABXxxL06    | 75.8x24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6x22    |            | 12° 24° 38°     |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4x16.7  |            | 24° 38°         |        |
| Reflector | LL01CR-AYGxxR49    | 75x45      |            | 15° 24° 38°     |        |
|           | LL01CT-AYTxR35-P   | 75x45      |            | 15° 24° 38°     |        |
|           | LL01SP-ATHxxR49    | 75x40      |            | 24° 38°         |        |

- ▶ **Lighting source confirmation:**  
LED manufacturer/ Type of LED/ LED spec/ LED sample is required  
The LED position layout is needed
- ▶ **Optical requirements confirmation:**  
Required beam angle (in full view)/ if in half view, the light intensity curve is needed  
Other luminance demands, such as uniformity, certain level of lux in a specific area from a certain distance
- ▶ **Mechanical requirements confirmation:**  
The limitation of dimensions is necessary
- ▶ **Installed environment/ application/ other specific requirements, such as material:**





Elliptical Beam  
Lens



Single  
Street Lens



Silicone  
Street Lens



Area Lighting



COB Lens



Hybrid Lens



Fresnel  
Lens



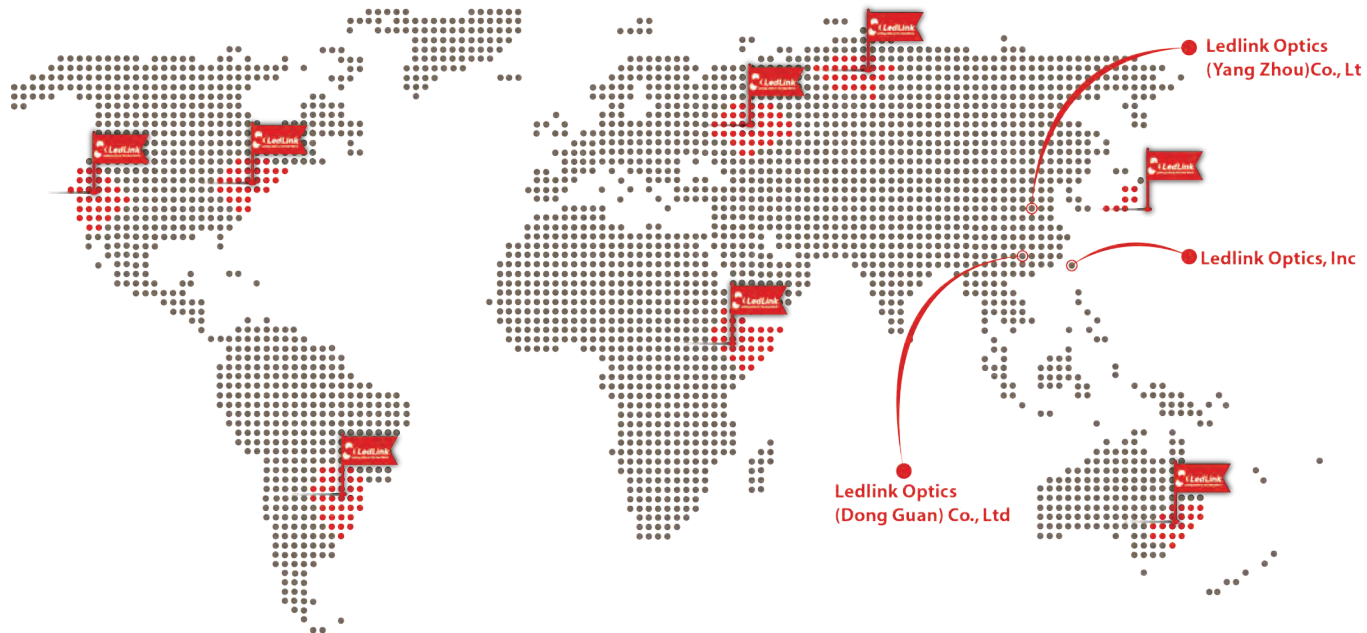
Plastic Plating Reflector  
Aluminum Reflector



Ultra-Thin Hybrid  
Lens



Automobile  
Optics



**Headquarter : Taiwan**

15F, No.655, Bannan Rd., Chung-Ho Dist,  
New Taipei City, Taiwan.  
T: +886-2-8227-6126 / F: +886-2-8227-6127  
service@ledlink-optics.com



**Factory : Dong-Guan**

No.5, TianKeng Industrial District HengLi Town,  
DongGuan CityGuangDong Province China  
T: +86-769-8897-7888 / F: +86-769-8897-5699  
Shawn Chou: +86-186-65196598  
E: Shawn\_chou@ledlink-optics.com



**Factory : Yang-Zhou**

NO.180, Linjiang Road, Yangzhou City,  
Jiangsu Province, China  
David Shih: +86-186-6519-6580  
E: david\_shih@ledlink-optics.com