

## STRADA-2X2-CAT

Catenary street light beam optimized for EN13201 M-classes

### SPECIFICATION:

|                |                  |
|----------------|------------------|
| Dimensions     | 50.0 x 50.0      |
| Height         | 6.2 mm           |
| Fastening      | glue, pin, screw |
| ROHS compliant | yes ⓘ            |

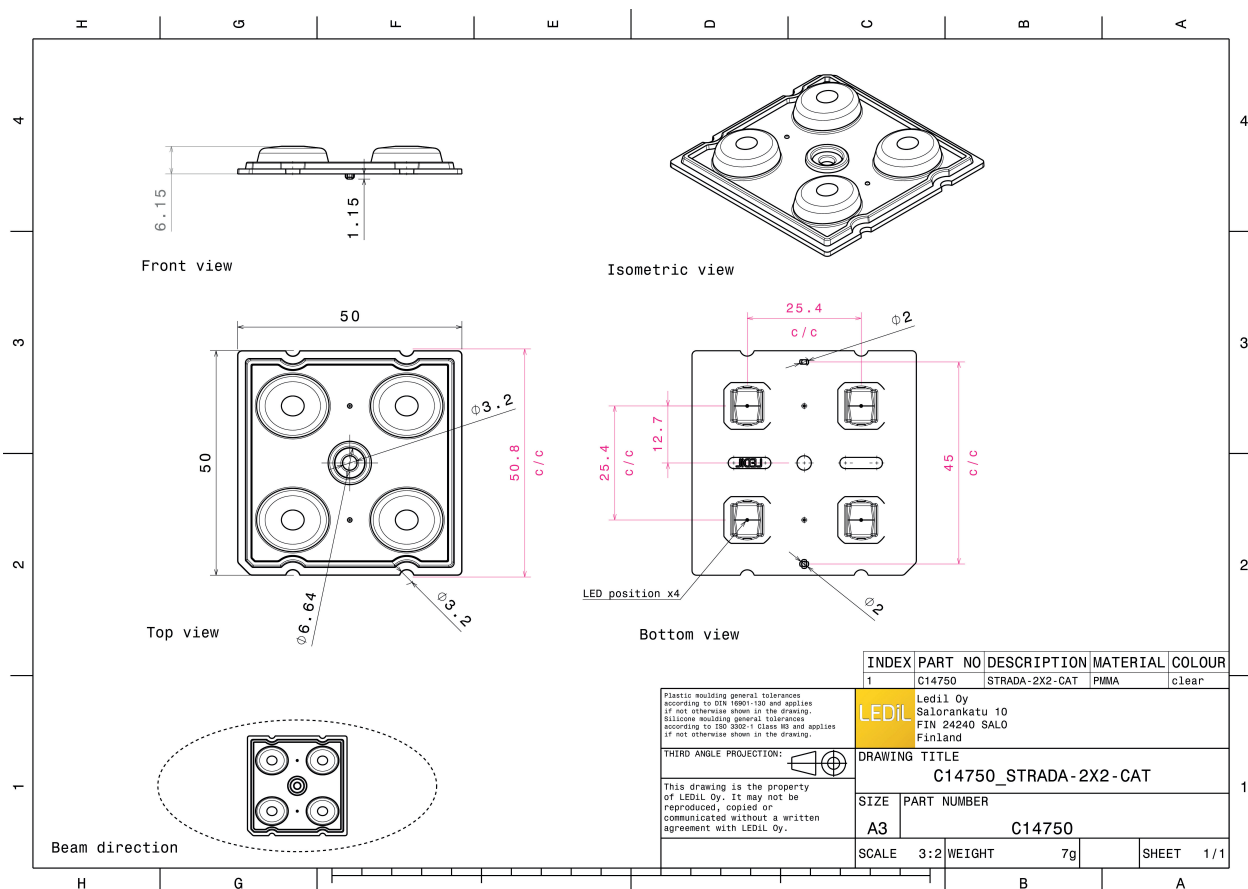


### MATERIALS:

| Component      | Type       | Material | Colour | Finish | Length (mm) |
|----------------|------------|----------|--------|--------|-------------|
| STRADA-2X2-CAT | Multi-lens | PMMA     | clear  |        |             |

### ORDERING INFORMATION:

| Component                                               | Qty in box | MOQ | MPQ | Box weight (kg) |
|---------------------------------------------------------|------------|-----|-----|-----------------|
| C14750_STRADA-2X2-CAT<br>» Box size: 480 x 280 x 300 mm | 800        | 160 | 160 | 6.3             |

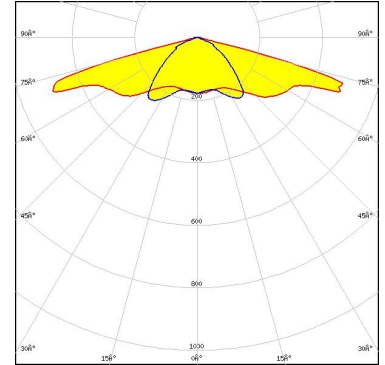


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



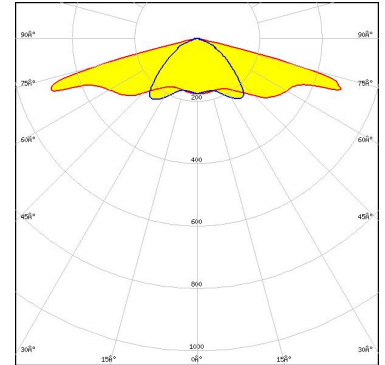
LED QUICK FLUX XTP 2x4 xxx LS G5  
 FWHM / FWTM 152.0 + 117.0° / 158.0 + 144.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



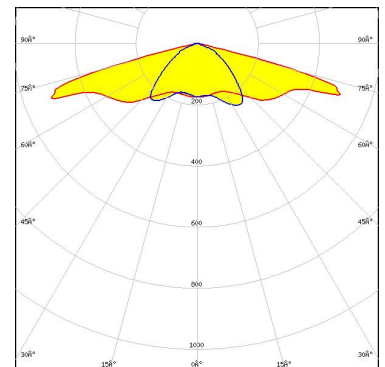
LED QUICK FLUX XTP 2x6 xxx LS G5  
 FWHM / FWTM 153.0 + 118.0° / 158.0 + 145.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED QUICK FLUX XTP 2x8 xxx LS G5  
 FWHM / FWTM 152.0 + 118.0° / 157.0 + 145.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

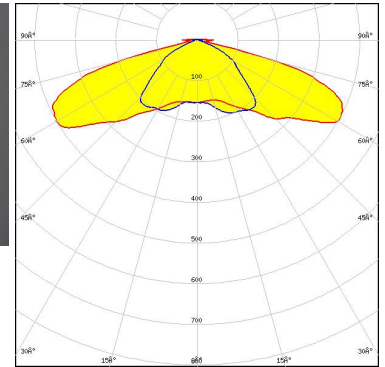


Light distribution files

#### OPTICAL RESULTS (MEASURED):



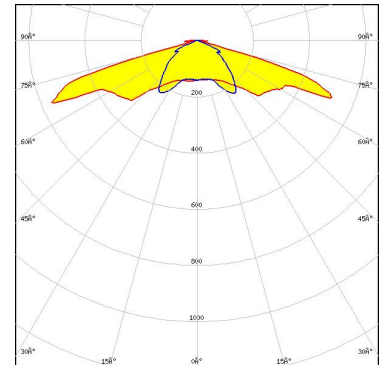
LED XD16  
 FWHM / FWTM 150.0 + 126.0° / 178.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 4  
 Light colour/type White  
 Required components:



Light distribution files



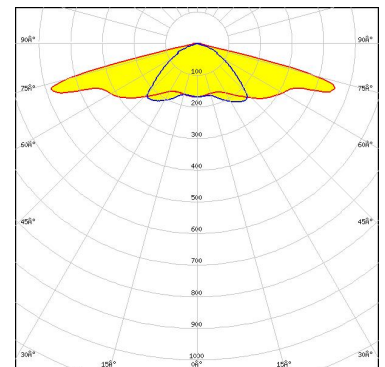
LED XD16  
 FWHM / FWTM 148.0 + 133.0° / 176.0 + 145.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XM-L3  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

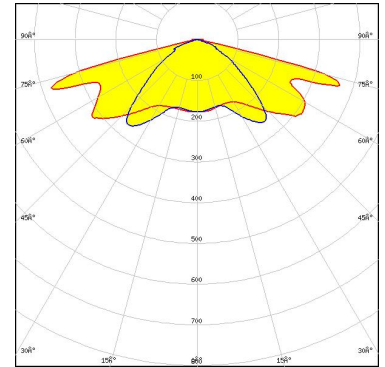


Light distribution files

#### OPTICAL RESULTS (MEASURED):



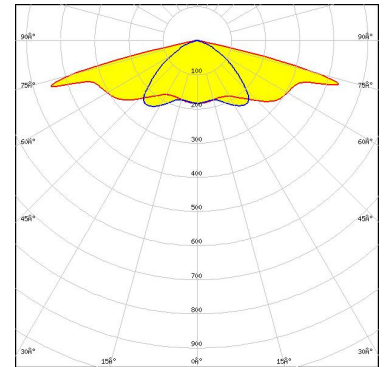
LED XP-G2  
 FWHM / FWTM 153.0 + 118.0° / 156.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



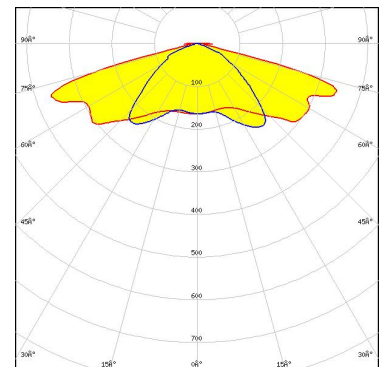
LED XP-G2 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G3  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

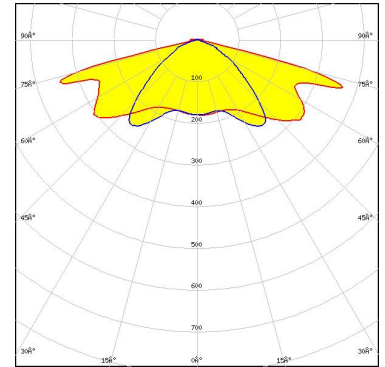


Light distribution files

#### OPTICAL RESULTS (MEASURED):



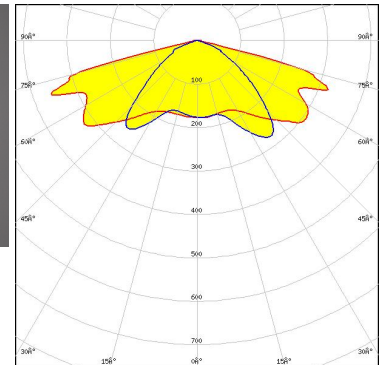
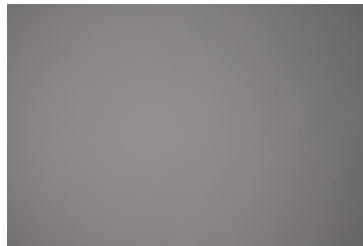
LED XP-L HI  
 FWHM / FWTM 153.0 + 118.0° / 156.0 + 143.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



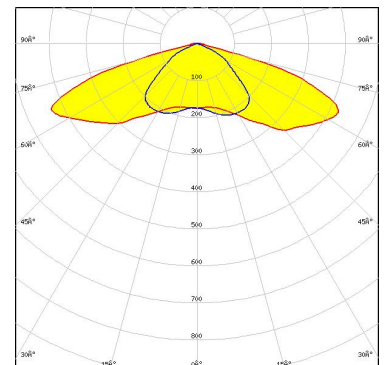
LED PrevaLED Brick HP 2x8  
 FWHM / FWTM 152.0 + 119.0° / 155.0 + 144.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON 5050 Round LES  
 FWHM / FWTM 149.0 + 119.0° / 154.0 + 138.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

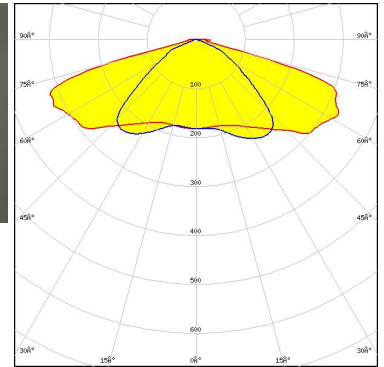
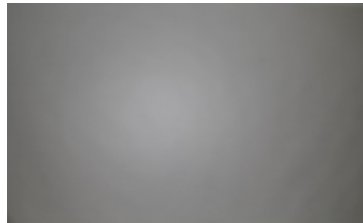


Light distribution files

#### OPTICAL RESULTS (MEASURED):



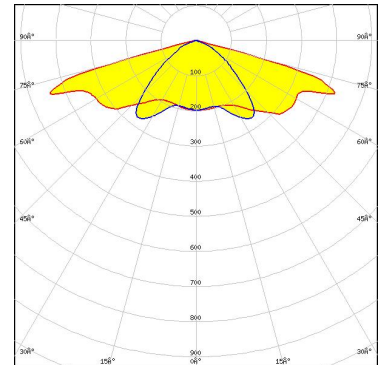
LED LUXEON V  
 FWHM / FWTM 152.0 + 117.0° / 174.0 + 141.0°  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



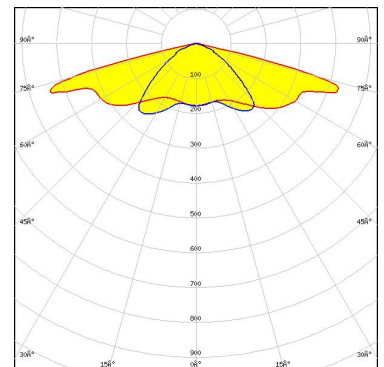
LED RecLED 122x50mm 1900lm 730 2x4 Opt G1  
 FWHM / FWTM Asymmetric  
 Efficiency 98 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSW219F  
 FWHM / FWTM 154.0 + 118.0° / 156.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

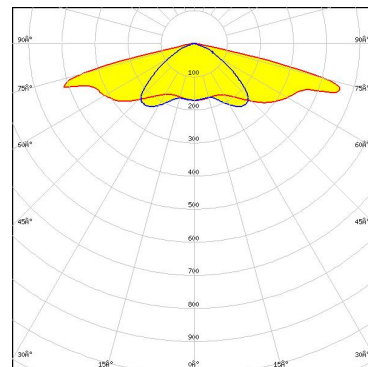


Light distribution files

#### OPTICAL RESULTS (MEASURED):



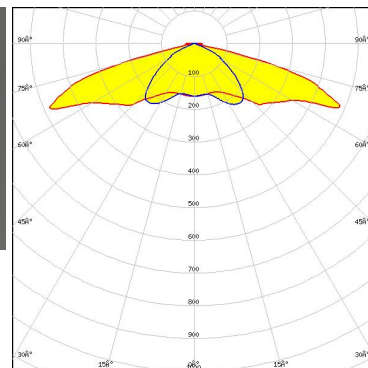
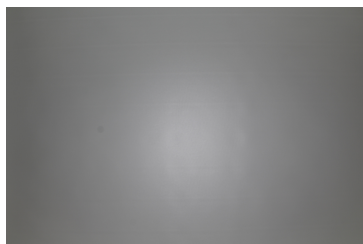
LED NVSW319B  
 FWHM / FWTM 155.0 + 120.0° / 158.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



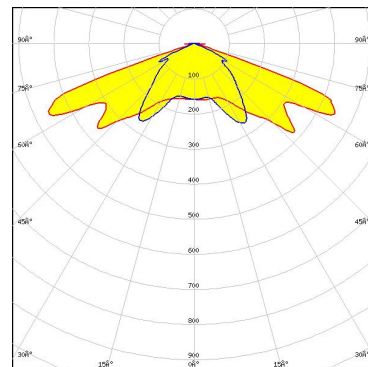
LED NVSW3x9A  
 FWHM / FWTM 152.0 + 125.0° / 157.0 + 140.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSxE21A  
 FWHM / FWTM 142.0 + 130.0° / 147.0 + 140.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

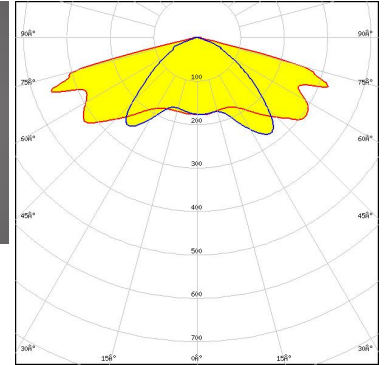


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

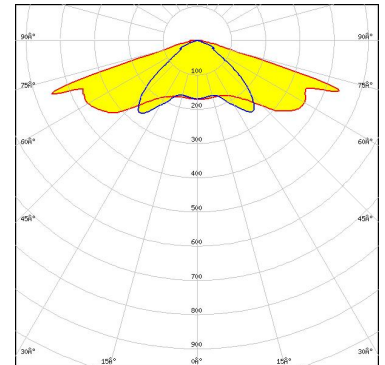
LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 152.0 + 119.0° / 155.0 + 144.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

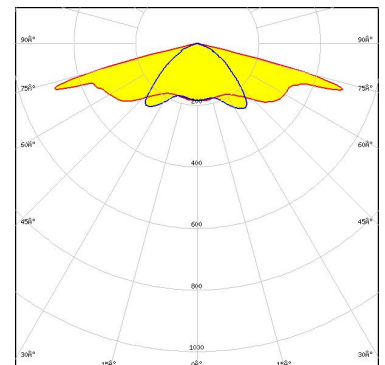
LED OSLON Square PC  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**PHILIPS**

LED Fortimo FastFlex LED 2x8 DA G4  
FWHM / FWTM 117.0 + 153.0° / 143.0 + 155.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

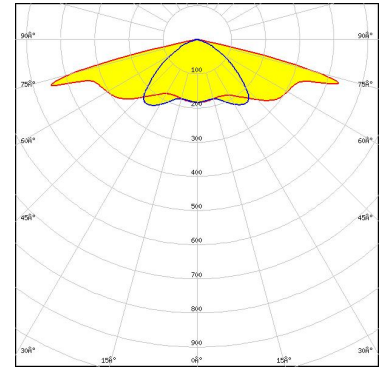


Light distribution files

#### OPTICAL RESULTS (MEASURED):

#### PHILIPS

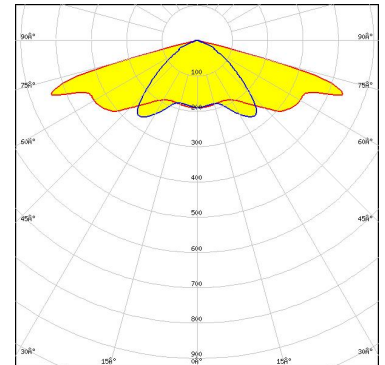
|                      |                                 |
|----------------------|---------------------------------|
| LED                  | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM          | Asymmetric                      |
| Efficiency           | 94 %                            |
| Peak intensity       | 0.4 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



Light distribution files

#### PHILIPS

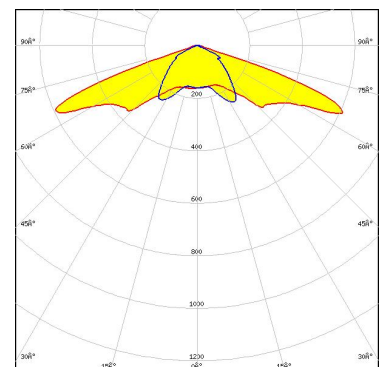
|                      |                                |
|----------------------|--------------------------------|
| LED                  | Fortimo FastFlex LED 2x8 DA G5 |
| FWHM / FWTM          | Asymmetric                     |
| Efficiency           | 98 %                           |
| Peak intensity       | 0.5 cd/lm                      |
| LEDs/each optic      | 1                              |
| Light colour/type    | White                          |
| Required components: |                                |



Light distribution files

#### SAMSUNG

|                      |                       |
|----------------------|-----------------------|
| LED                  | HiLOM RC12 Z (LH181B) |
| FWHM / FWTM          | Asymmetric            |
| Efficiency           | 98 %                  |
| Peak intensity       | 0.6 cd/lm             |
| LEDs/each optic      | 1                     |
| Light colour/type    | White                 |
| Required components: |                       |

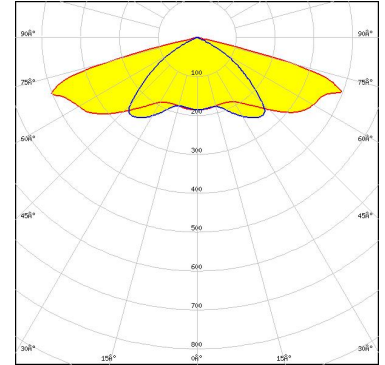


Light distribution files

#### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

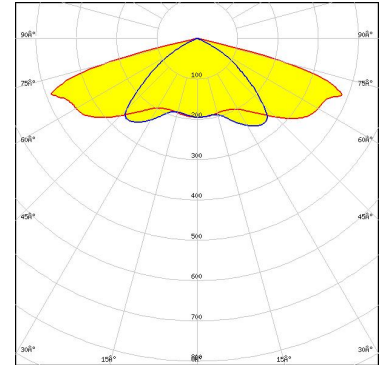
LED HiLOM RH12 Z (LH351C)  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### SAMSUNG

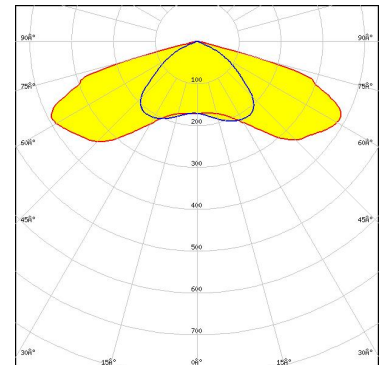
LED HiLOM RH16 (LH351C)  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### SAMSUNG

LED HiLOM RM12 Z (LH502C)  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

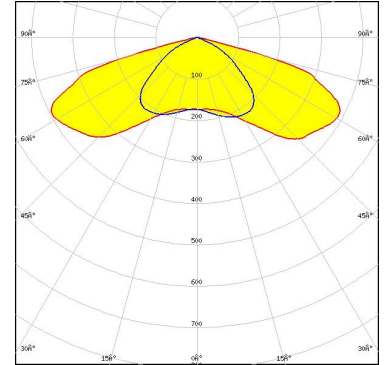


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

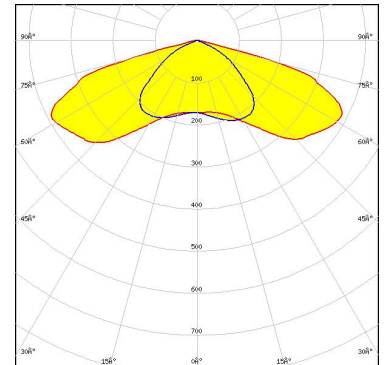
|                      |                       |
|----------------------|-----------------------|
| LED                  | HiLOM RM16 Z (LH502C) |
| FWHM / FWTM          | Asymmetric            |
| Efficiency           | 99 %                  |
| Peak intensity       | 0.4 cd/lm             |
| LEDs/each optic      | 1                     |
| Light colour/type    | White                 |
| Required components: |                       |



Light distribution files

### SAMSUNG

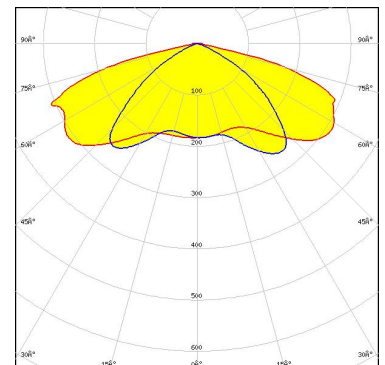
|                      |                      |
|----------------------|----------------------|
| LED                  | HiLOM RM8 Z (LH502C) |
| FWHM / FWTM          | Asymmetric           |
| Efficiency           | 98 %                 |
| Peak intensity       | 0.4 cd/lm            |
| LEDs/each optic      | 1                    |
| Light colour/type    | White                |
| Required components: |                      |



Light distribution files

### SAMSUNG

|                      |                                 |
|----------------------|---------------------------------|
| LED                  | LH351B                          |
| FWHM / FWTM          | 154.0 + 119.0° / 158.0 + 136.0° |
| Efficiency           | 94 %                            |
| Peak intensity       | 0.3 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |

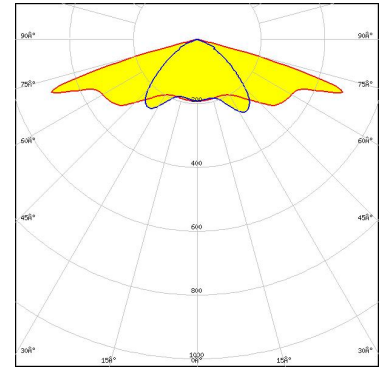


Light distribution files

#### OPTICAL RESULTS (MEASURED):



LED LED-Pa-L15c2W11c2-xxx-C050-01  
 FWHM / FWTM Asymmetric  
 Efficiency 99 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

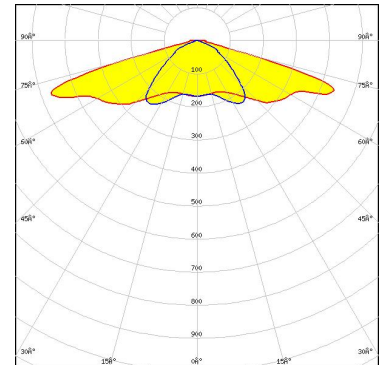


Light distribution files



SEOL SEMICONDUCTOR

LED Z5M3  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

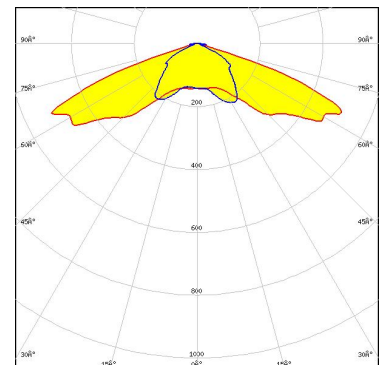


Light distribution files



SEOL SEMICONDUCTOR

LED Z8Y22  
 FWHM / FWTM 143.0 + 128.0° / 149.0 + 172.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

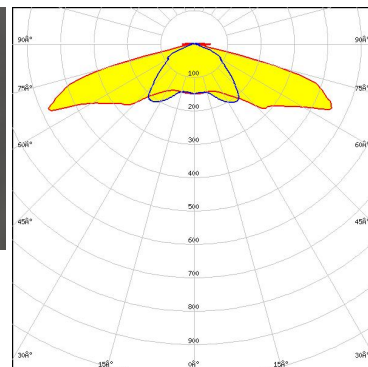
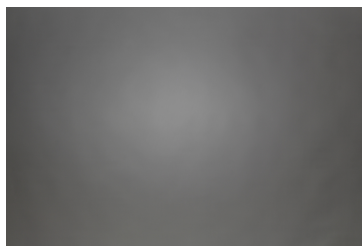


Light distribution files

#### OPTICAL RESULTS (MEASURED):



LED Z8Y22P  
 FWHM / FWTM 151.0 + 130.0° / 169.0 + 146.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



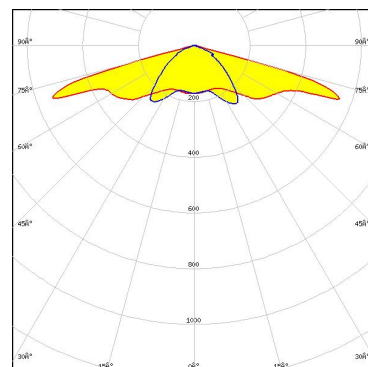
Light distribution files

#### TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD  
 FWHM / FWTM 151.0 + 119.0° / 155.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

#### TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD  
 FWHM / FWTM 151.0 + 119.0° / 155.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

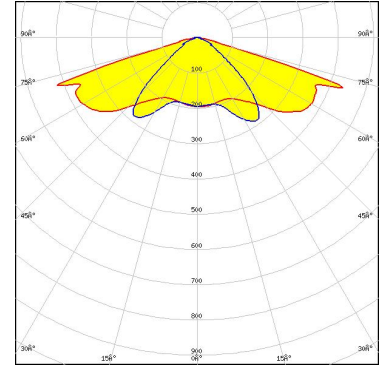


Light distribution files

#### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

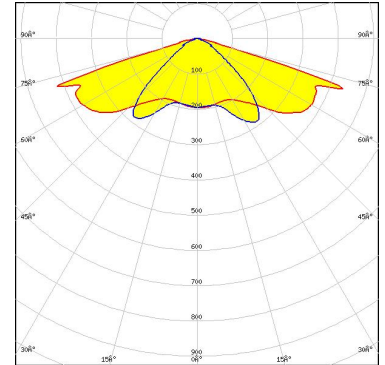
LED RLE G1 49x121mm 2000lm xxx EXC OTD  
 FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### TRIDONIC

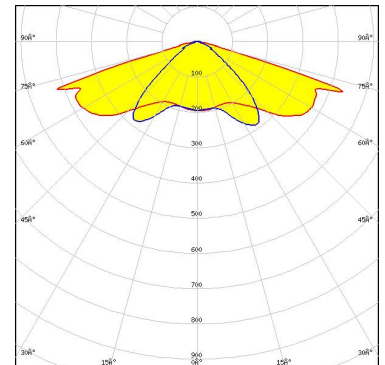
LED RLE G1 49x133mm 2000lm xxx EXC OTD  
 FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD  
 FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

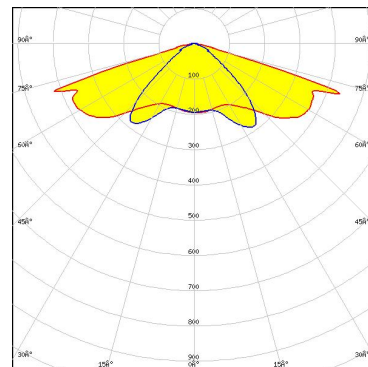


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
 FWHM / FWTM 147.0 + 107.0° / 159.0 + 142.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

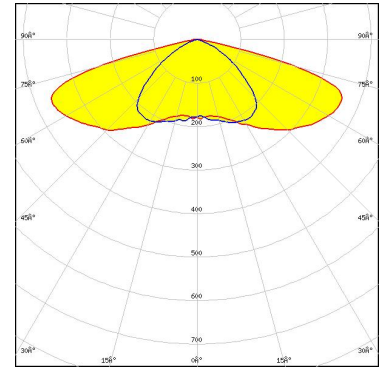


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



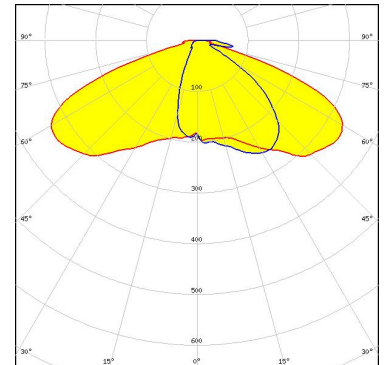
LED J Series 5050 Round LES  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



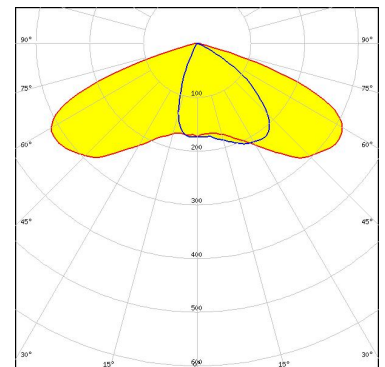
LED J Series 5050C 6V E Class  
 FWHM / FWTM Asymmetric  
 Efficiency 73 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17580\_STRADA-2X2-SHD-WHT



Light distribution files



LED J Series 5050C 6V E Class  
 FWHM / FWTM Asymmetric  
 Efficiency 61 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17677\_STRADA-2X2-SHD-BLK

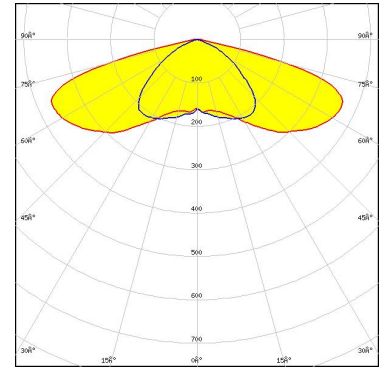


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



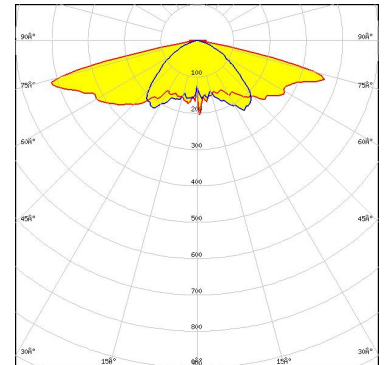
LED J Series 5050C 6V E Class  
 FWHM / FWTM 152.0 + 112.0° / 158.0 + 140.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



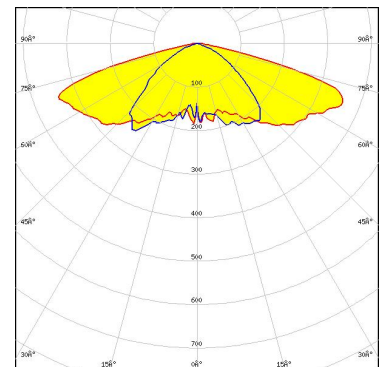
LED XB-D  
 FWHM / FWTM 154.0 + 107.0° / 180.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XM-L  
 FWHM / FWTM 109.0 + 152.0° / 142.0 + 162.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

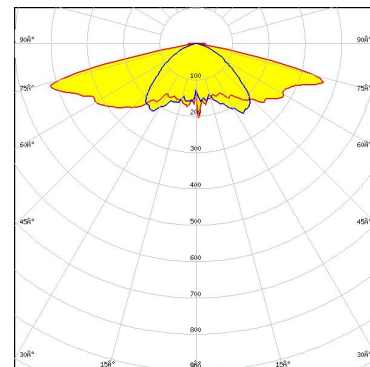


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



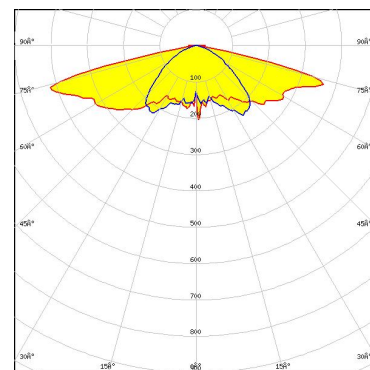
LED XM-L2  
 FWHM / FWTM 153.0 + 112.0° / 159.0 + 139.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



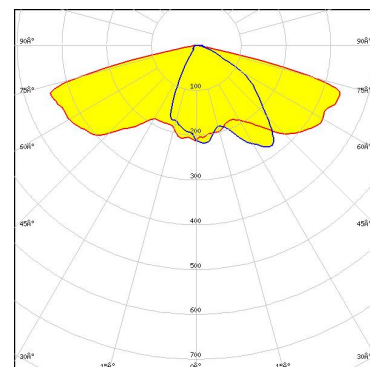
LED XP-G  
 FWHM / FWTM 156.0 + 112.0° / 161.0 + 144.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G2  
 FWHM / FWTM Asymmetric  
 Efficiency 75 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17580\_STRADA-2X2-SHD-WHT

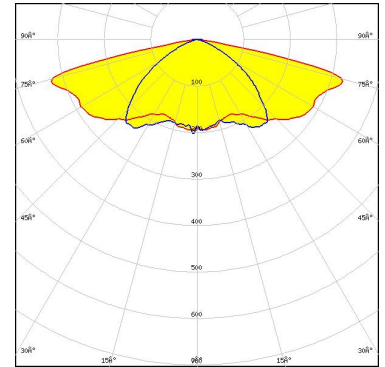


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



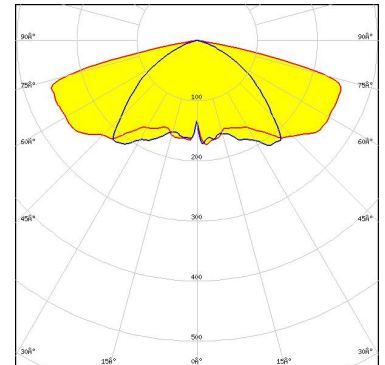
LED XP-G2 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G3  
 FWHM / FWTM 154.0 + 112.0° / 162.0 + 142.0°  
 Efficiency 82 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

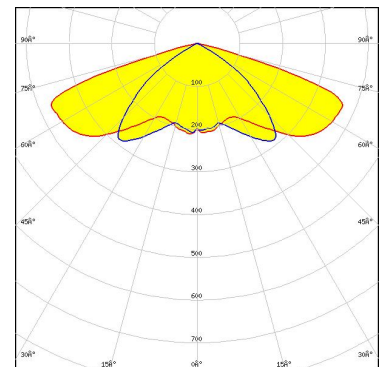


Light distribution files

Protective plate, glass



LED XP-G4  
 FWHM / FWTM 146.0 + 106.0° / 154.0 + 122.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

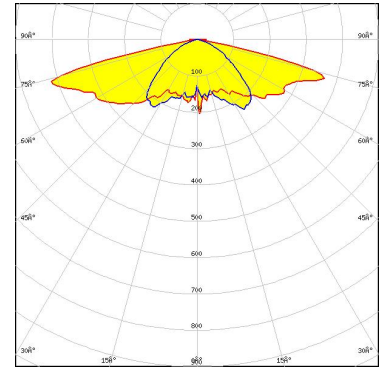


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



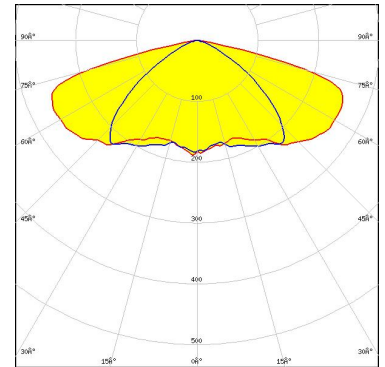
LED XP-L HD  
 FWHM / FWTM 155.0 + 109.0° / 161.0 + 132.0°  
 Efficiency 91 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

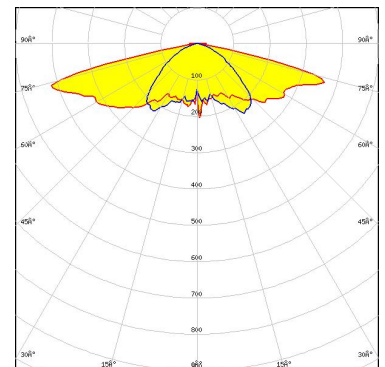


Light distribution files

Protective plate, glass



LED XT-E  
 FWHM / FWTM 155.0 + 110.0° / 170.0 + 146.0°  
 Efficiency 91 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

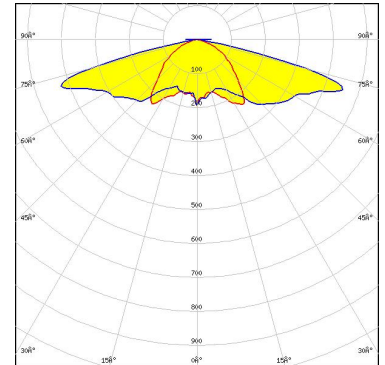


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



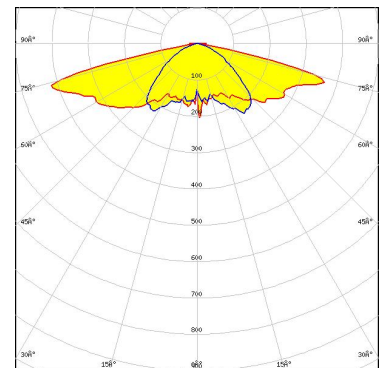
|                      |                                 |
|----------------------|---------------------------------|
| LED                  | XT-E                            |
| FWHM / FWTM          | 153.0 + 110.0° / 180.0 + 145.0° |
| Efficiency           | 95 %                            |
| Peak intensity       | 0.5 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



Light distribution files



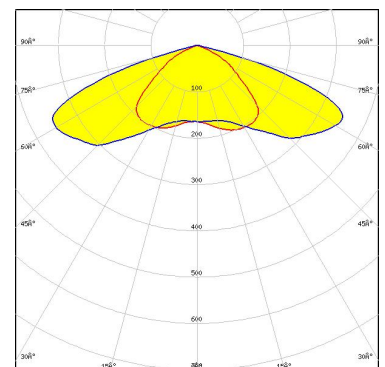
|                      |                                 |
|----------------------|---------------------------------|
| LED                  | XT-E HVW                        |
| FWHM / FWTM          | 155.0 + 110.0° / 160.0 + 144.0° |
| Efficiency           | 92 %                            |
| Peak intensity       | 0.4 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



Light distribution files



|                      |                       |
|----------------------|-----------------------|
| LED                  | LUXEON 5050 Round LES |
| FWHM / FWTM          | Asymmetric            |
| Efficiency           | 87 %                  |
| Peak intensity       | 0.4 cd/lm             |
| LEDs/each optic      | 1                     |
| Light colour/type    | White                 |
| Required components: |                       |



Protective plate, glass

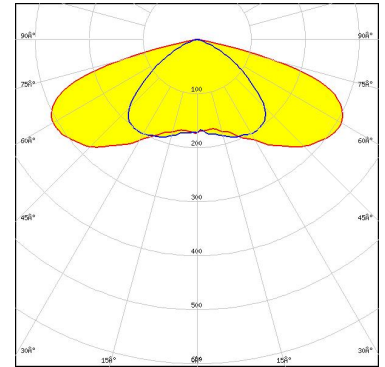
Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Square LES  
 FWHM / FWTM Asymmetric  
 Efficiency 86 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

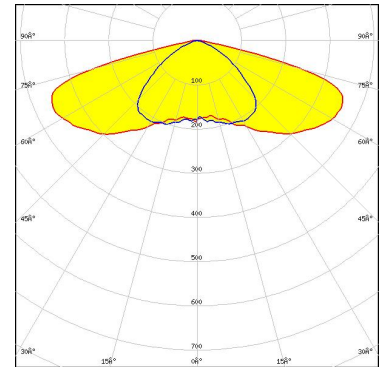
Protective plate, glass



Light distribution files



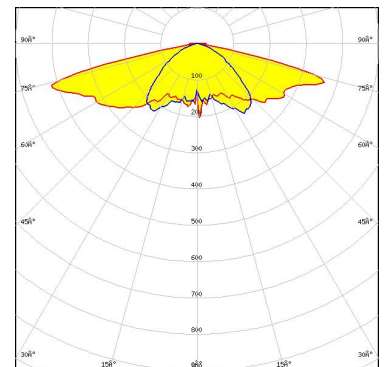
LED LUXEON 5050 Square LES  
 FWHM / FWTM 152.0 + 112.0° / 160.0 + 140.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON R  
 FWHM / FWTM 150.0 + 107.0° / 156.0 + 138.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

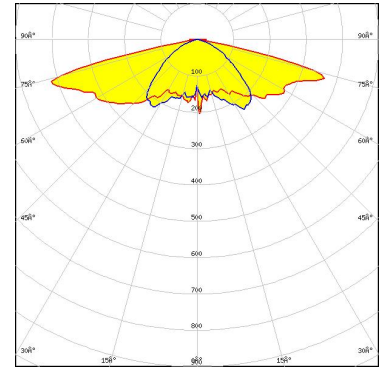


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



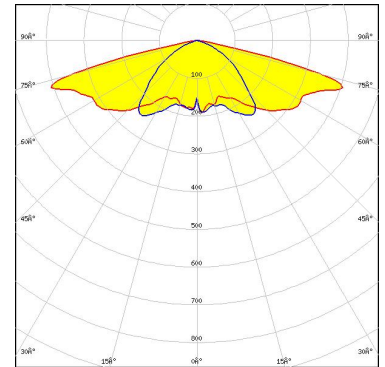
LED LUXEON Rebel ES  
 FWHM / FWTM 151.0 + 106.0° / 157.0 + 139.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



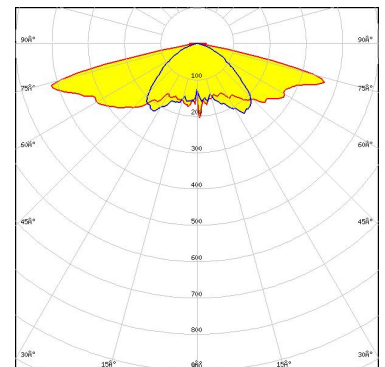
LED LUXEON T  
 FWHM / FWTM 154.0 + 110.0° / 160.0 + 140.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON TX  
 FWHM / FWTM 153.0 + 108.0° / 158.0 + 143.0°  
 Efficiency 92 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

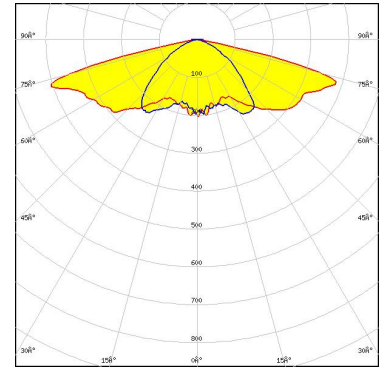


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



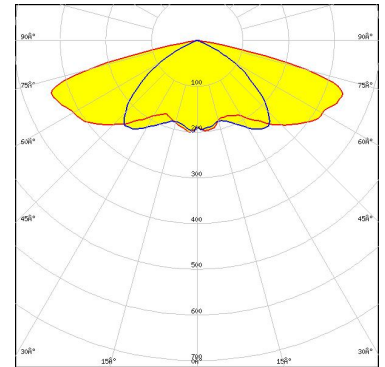
LED LUXEON V2  
 FWHM / FWTM 154.0 + 110.0° / 160.0 + 141.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



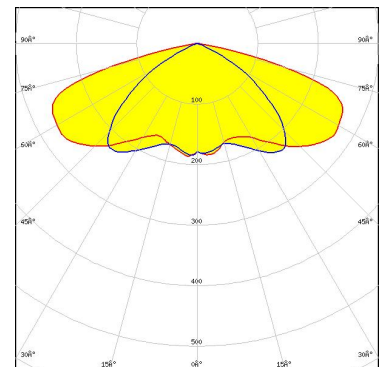
LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
 FWHM / FWTM 154.0 + 114.0° / 160.0 + 132.0°  
 Efficiency 96 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



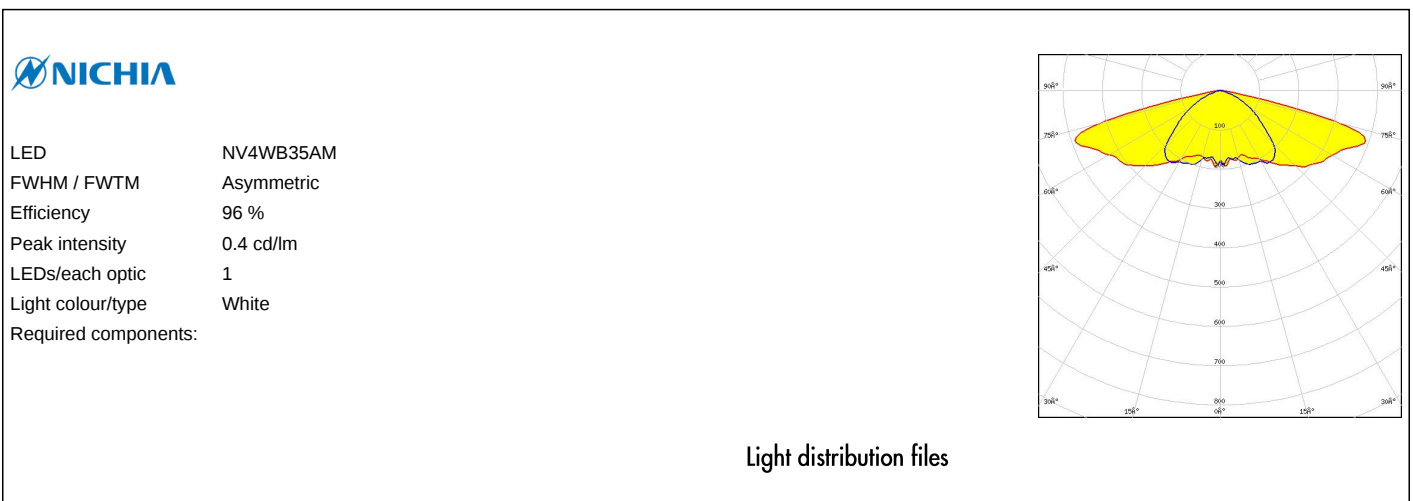
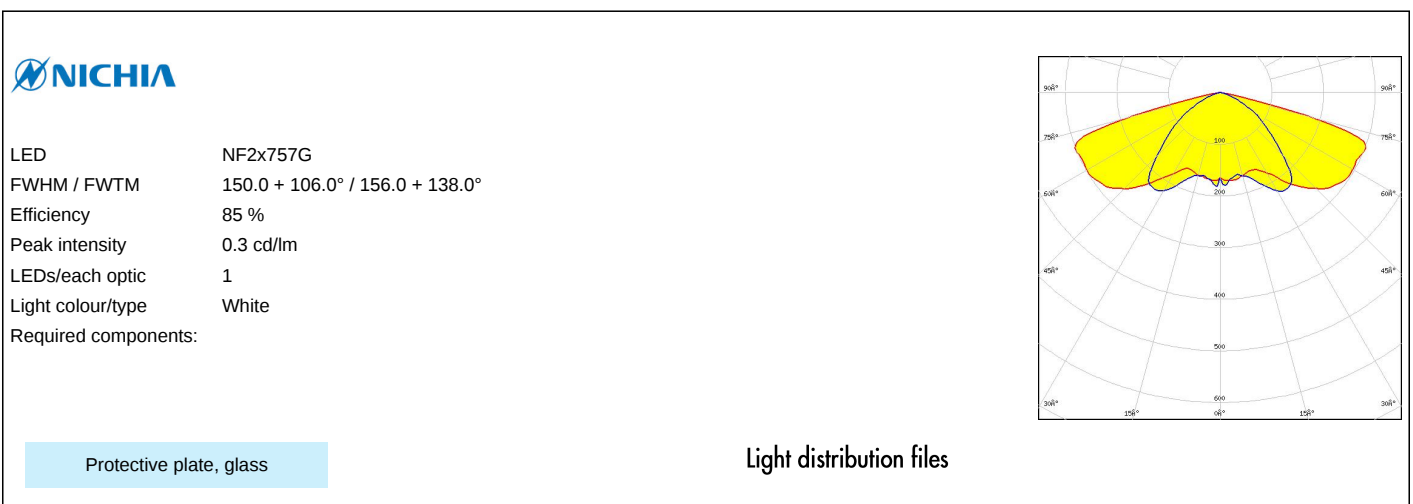
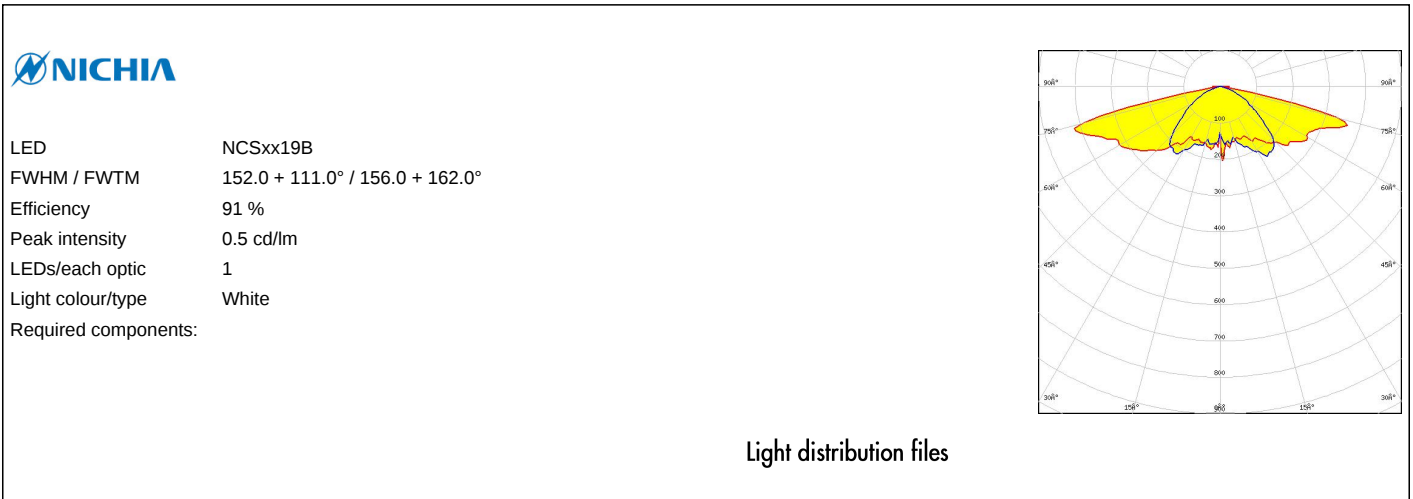
LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)  
 FWHM / FWTM 150.0 + 112.0° / 160.0 + 132.0°  
 Efficiency 84 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

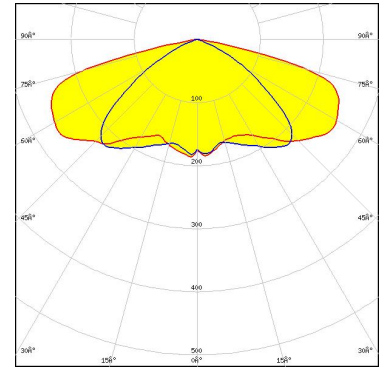


#### OPTICAL RESULTS (SIMULATED):



LED NVSW519A  
 FWHM / FWTM Asymmetric  
 Efficiency 85 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

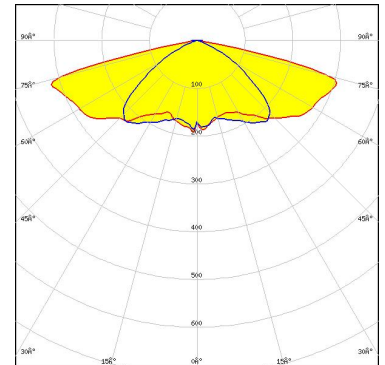
Protective plate, glass



Light distribution files



LED NVSW519A  
 FWHM / FWTM 156.0 + 114.0° / 162.0 + 138.0°  
 Efficiency 92 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

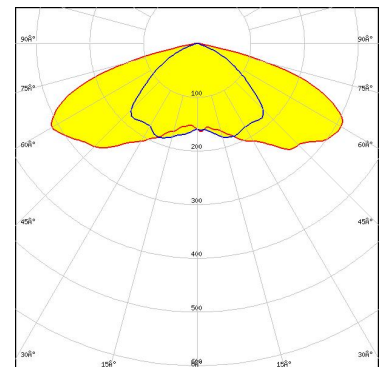


Light distribution files



LED NVSxE21A  
 FWHM / FWTM 148.0 + 112.0° / 158.0 + 140.0°  
 Efficiency 84 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 4  
 Light colour/type White  
 Required components:

Protective plate, glass



Light distribution files

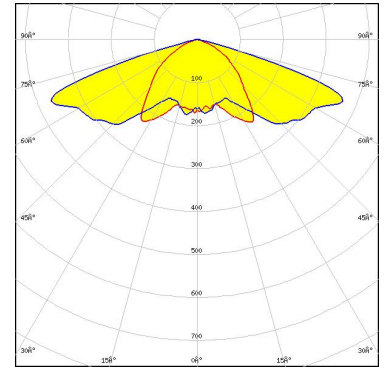
#### OPTICAL RESULTS (SIMULATED):



LED NVSxE21A  
 FWHM / FWTM 105.0 + 146.0° / 138.0 + 152.0°  
 Efficiency 84 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

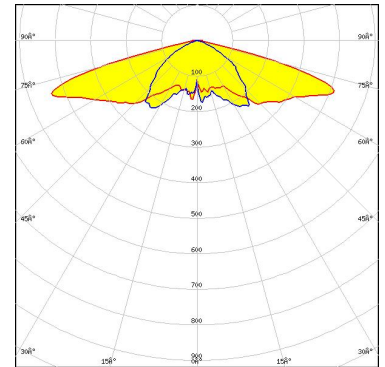
Protective plate, glass

Light distribution files



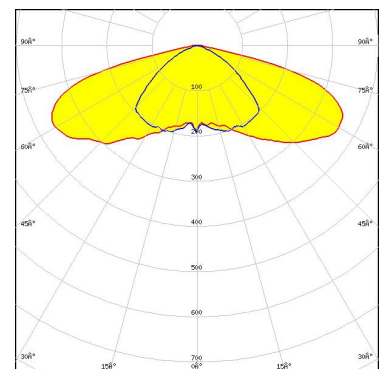
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM Asymmetric  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files

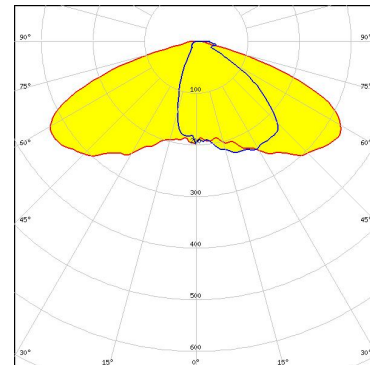


#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM Asymmetric  
Efficiency 72 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:  
C17580\_STRADA-2X2-SHD-WHT

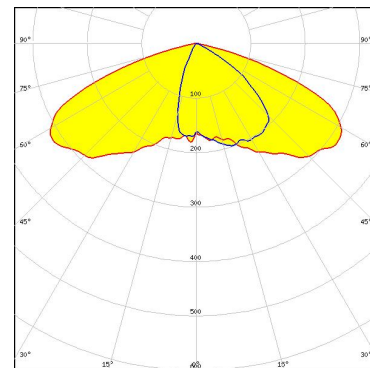


Light distribution files

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM Asymmetric  
Efficiency 61 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:  
C17677\_STRADA-2X2-SHD-BLK



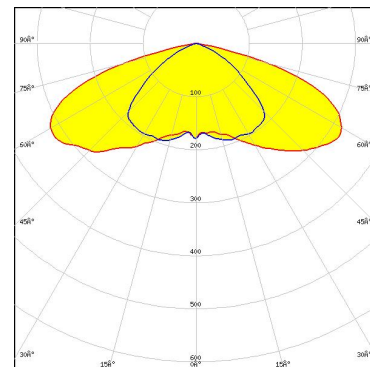
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM / FWTM Asymmetric  
Efficiency 87 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

Protective plate, glass

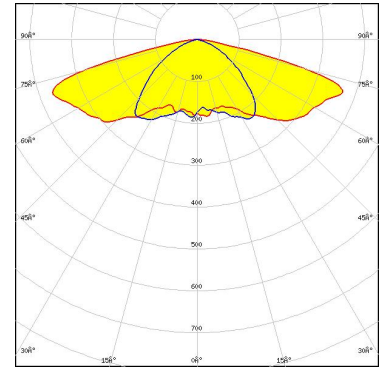


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

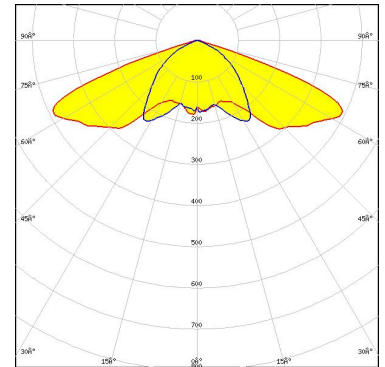
LED OSCONIQ P 3737 (3W version)  
FWHM / FWTM 153.0 + 92.0° / 163.0 + 137.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
FWHM / FWTM Asymmetric  
Efficiency 85 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

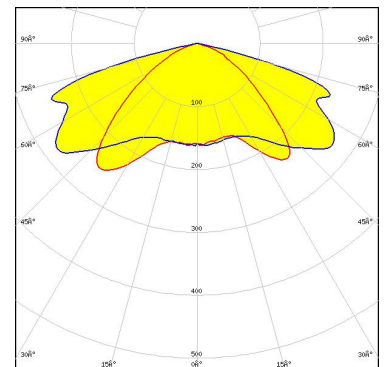


Protective plate, glass

Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
FWHM / FWTM 148.0 + 116.0°  
Efficiency 82 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



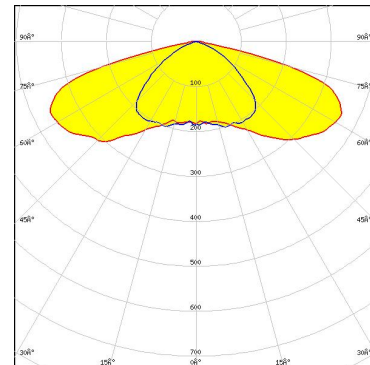
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

#### PHILIPS

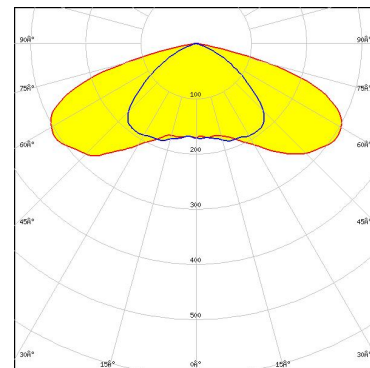
|                      |                                   |
|----------------------|-----------------------------------|
| LED                  | Fortimo FastFlex LED 2x8 DA (U)HE |
| FWHM / FWTM          | 152.0 + 112.0° / 160.0 + 140.0°   |
| Efficiency           | 97 %                              |
| Peak intensity       | 0.4 cd/lm                         |
| LEDs/each optic      | 1                                 |
| Light colour/type    | White                             |
| Required components: |                                   |



Light distribution files

#### PHILIPS

|                      |                                   |
|----------------------|-----------------------------------|
| LED                  | Fortimo FastFlex LED 2x8 DA (U)HE |
| FWHM / FWTM          | 148.0 + 112.0° / 158.0 + 138.0°   |
| Efficiency           | 85 %                              |
| Peak intensity       | 0.3 cd/lm                         |
| LEDs/each optic      | 1                                 |
| Light colour/type    | White                             |
| Required components: |                                   |

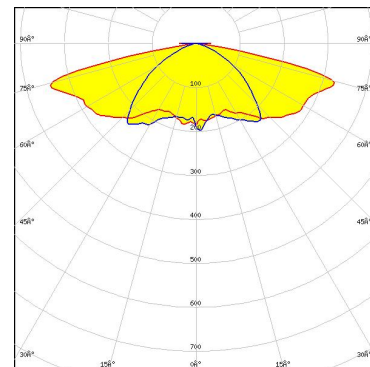


Light distribution files

Protective plate, glass

#### PHILIPS

|                      |                                 |
|----------------------|---------------------------------|
| LED                  | Fortimo FastFlex LED 2x8 DAX G4 |
| FWHM / FWTM          | 157.0 + 94.0° / 164.0 + 120.0°  |
| Efficiency           | 94 %                            |
| Peak intensity       | 0.4 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



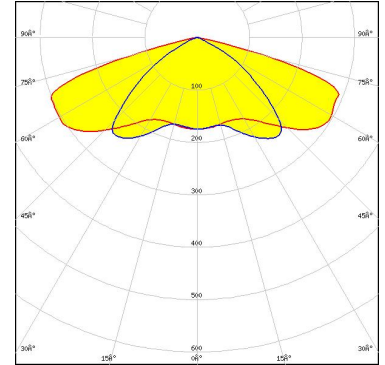
Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

|                      |                       |
|----------------------|-----------------------|
| LED                  | HiLOM RH12 Z (LH351C) |
| FWHM / FWTM          | Asymmetric            |
| Efficiency           | 86 %                  |
| Peak intensity       | 0.3 cd/lm             |
| LEDs/each optic      | 1                     |
| Light colour/type    | White                 |
| Required components: |                       |

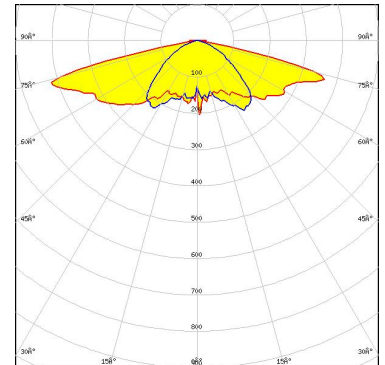
Protective plate, glass



Light distribution files

### SAMSUNG

|                      |                                 |
|----------------------|---------------------------------|
| LED                  | LH351A                          |
| FWHM / FWTM          | 158.0 + 116.0° / 172.0 + 163.0° |
| Efficiency           | 92 %                            |
| Peak intensity       | 0.4 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |

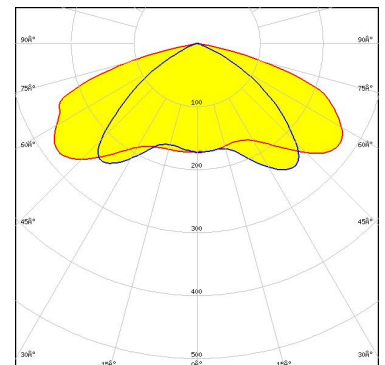


Light distribution files

### SAMSUNG

|                      |            |
|----------------------|------------|
| LED                  | LH351B     |
| FWHM / FWTM          | Asymmetric |
| Efficiency           | 85 %       |
| Peak intensity       | 0.3 cd/lm  |
| LEDs/each optic      | 1          |
| Light colour/type    | White      |
| Required components: |            |

Protective plate, glass

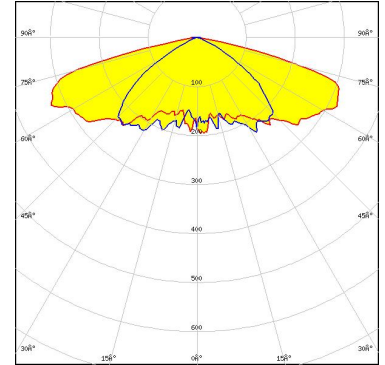


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

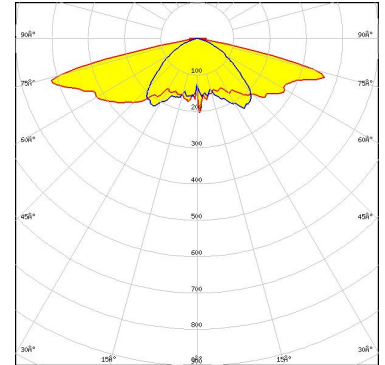
|                      |                                 |
|----------------------|---------------------------------|
| LED                  | LH351D                          |
| FWHM / FWTM          | 153.0 + 113.0° / 160.0 + 132.0° |
| Efficiency           | 92 %                            |
| Peak intensity       | 0.3 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



Light distribution files

#### SAMSUNG

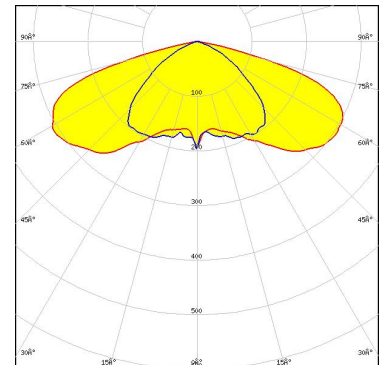
|                      |                                 |
|----------------------|---------------------------------|
| LED                  | LH351Z                          |
| FWHM / FWTM          | 150.0 + 105.0° / 156.0 + 126.0° |
| Efficiency           | 93 %                            |
| Peak intensity       | 0.4 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



Light distribution files

#### SAMSUNG

|                      |                                 |
|----------------------|---------------------------------|
| LED                  | LH502D                          |
| FWHM / FWTM          | 149.0 + 110.0° / 158.0 + 138.0° |
| Efficiency           | 85 %                            |
| Peak intensity       | 0.3 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



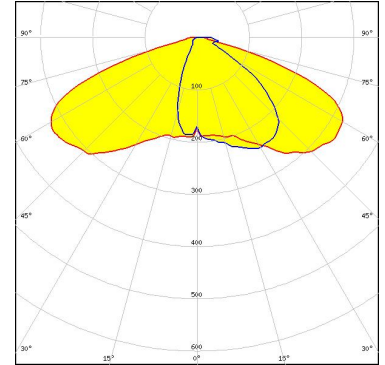
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

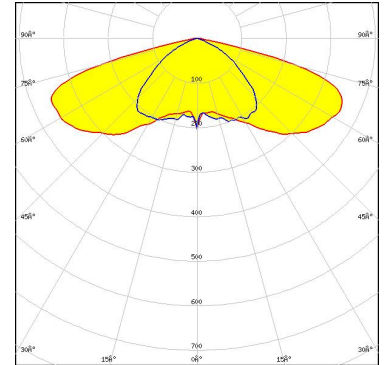
LED LH502D  
 FWHM / FWTM Asymmetric  
 Efficiency 72 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17580\_STRADA-2X2-SHD-WHT



Light distribution files

#### SAMSUNG

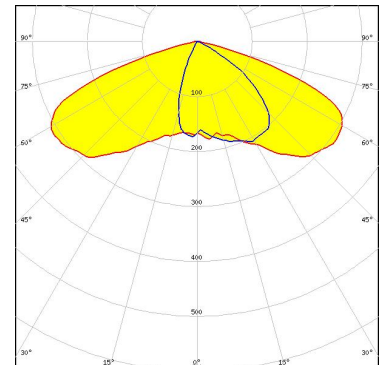
LED LH502D  
 FWHM / FWTM 152.0 + 112.0° / 158.0 + 140.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### SAMSUNG

LED LH502D  
 FWHM / FWTM Asymmetric  
 Efficiency 61 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C17677\_STRADA-2X2-SHD-BLK

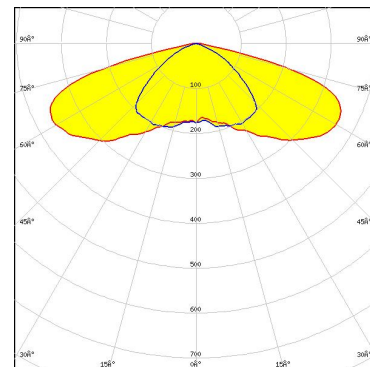


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



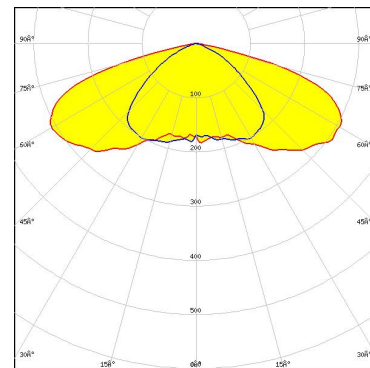
LED MJT 5050  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED SEOUL DC 5050 6V  
FWHM / FWTM Asymmetric  
Efficiency 86 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

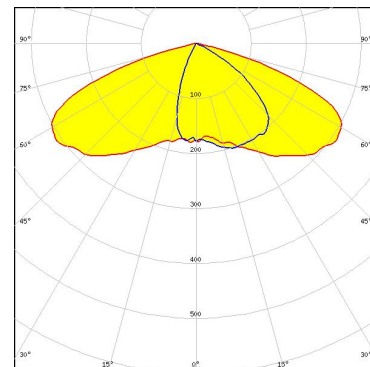


Light distribution files

Protective plate, glass



LED SEOUL DC 5050 6V  
FWHM / FWTM Asymmetric  
Efficiency 61 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C17677\_STRADA-2X2-SHD-BLK

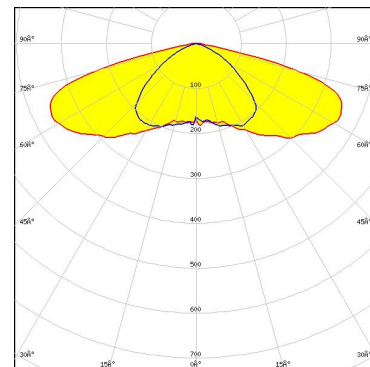


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



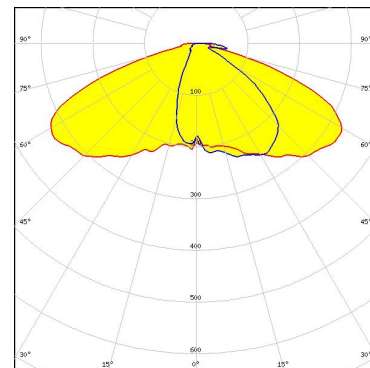
LED: SEOUL DC 5050 6V  
 FWHM / FWTM: Asymmetric  
 Efficiency: 96 %  
 Peak intensity: 0.4 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files



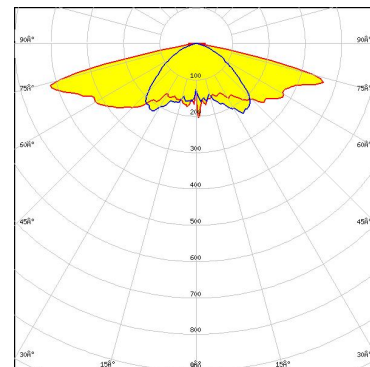
LED: SEOUL DC 5050 6V  
 FWHM / FWTM: Asymmetric  
 Efficiency: 73 %  
 Peak intensity: 0.4 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:  
 C17580\_STRADA-2X2-SHD-WHT



Light distribution files



LED: Z5M  
 FWHM / FWTM: 153.0 + 110.0° / 159.0 + 143.0°  
 Efficiency: 92 %  
 Peak intensity: 0.4 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files

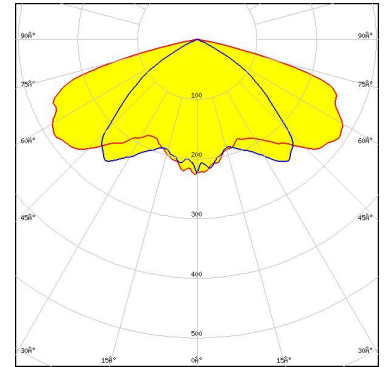
#### OPTICAL RESULTS (SIMULATED):



LED Z5M3-E1  
 FWHM / FWTM 150.0 + 107.0° / 158.0 + 128.0°  
 Efficiency 86 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

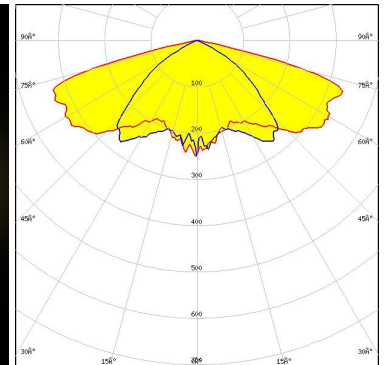
Light distribution files



LED Z5M3-E1  
 FWHM / FWTM 152.0 + 108.0° / 158.0 + 128.0°  
 Efficiency 96 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



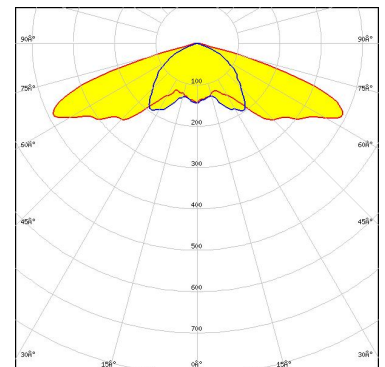
Light distribution files



LED Z8Y22  
 FWHM / FWTM Asymmetric  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Protective plate, glass

Light distribution files



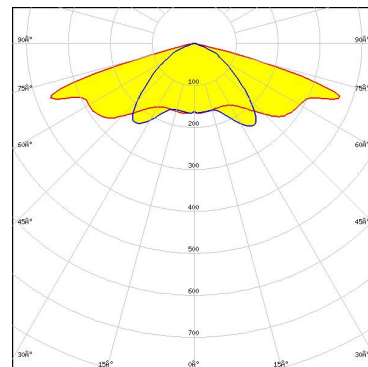
### OPTICAL RESULTS (SIMULATED):

#### TRIDONIC

|                      |                            |
|----------------------|----------------------------|
| LED                  | RLE 2x8 4000lm HP EXC2 OTD |
| FWHM / FWTM          | Asymmetric                 |
| Efficiency           | 86 %                       |
| Peak intensity       | 0.4 cd/lm                  |
| LEDs/each optic      | 1                          |
| Light colour/type    | White                      |
| Required components: |                            |

Protective plate, glass

Light distribution files



### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

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