

CRYSTAL-RS

~5.1° spot beam. Assembly with holder.



TECHNICAL SPECIFICATIONS:

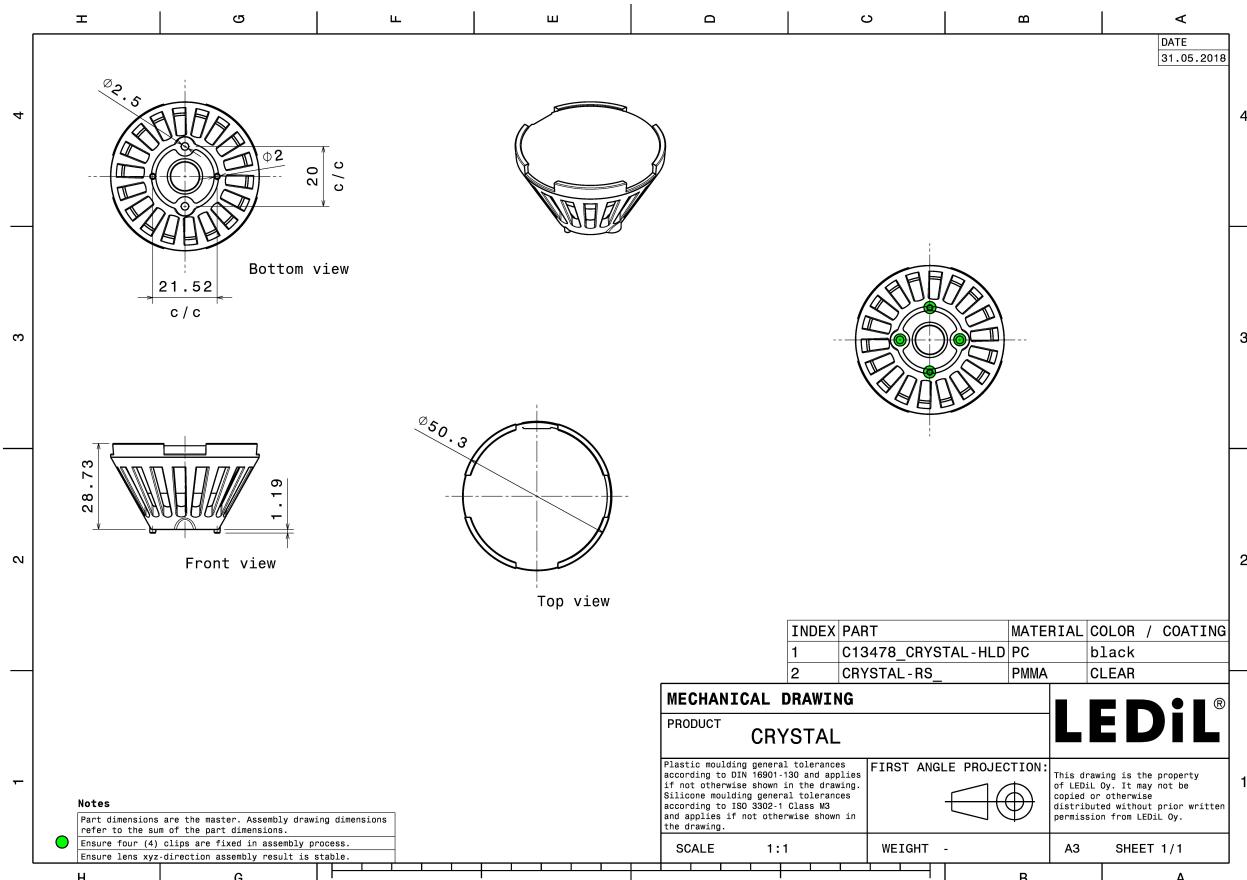
Dimensions	Ø 49.7 mm
Height	28.7 mm
Fastening	pin, screw
ROHS compliant	yes 

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
CRYSTAL-RS	Single lens	PMMA	clear	
CRYSTAL-HLD	Holder	PC	white	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FCN13552_CRYSTAL-RS	288	64	32	0.0
» Box size:				

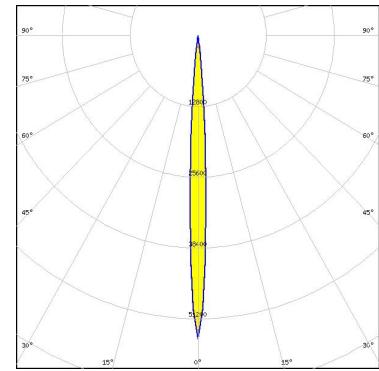


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

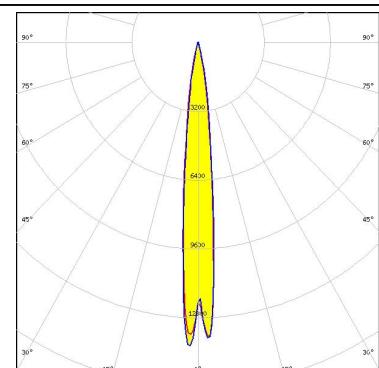
CREE 

LED XHP35 HI
FWHM 5.7°
Efficiency 89 %
Peak intensity 48.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



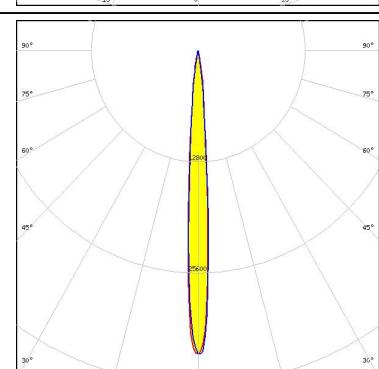
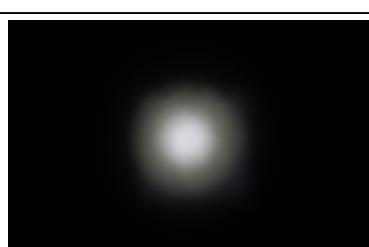
CREE 

LED XHP50
FWHM 11.0°
Efficiency 93 %
Peak intensity 14.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



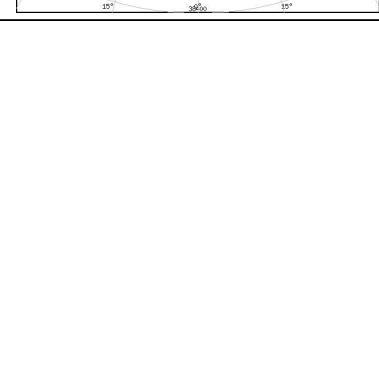
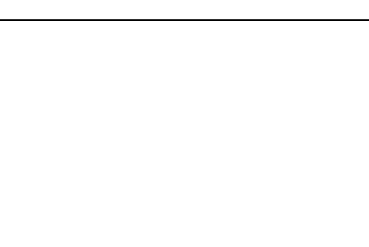
CREE 

LED XM-L
FWHM 7.0°
Efficiency 94 %
Peak intensity 34.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE 

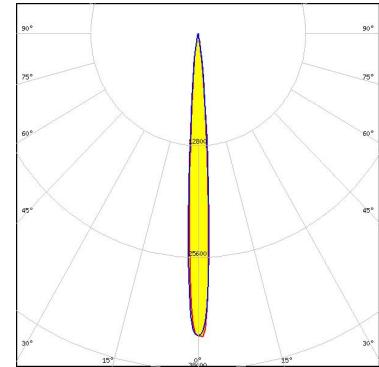
LED XP-G
FWHM 4.9°
Efficiency 89 %
Peak intensity 68.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

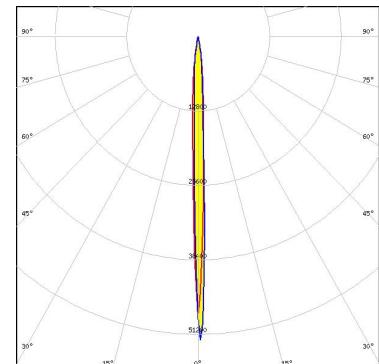
CREE

LED XP-L HD
FWHM 7.0°
Efficiency 88 %
Peak intensity 34.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



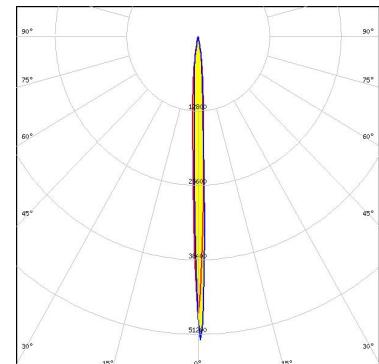
CREE

LED XQ-E HI
FWHM 2.9°
Efficiency 88 %
Peak intensity 110.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



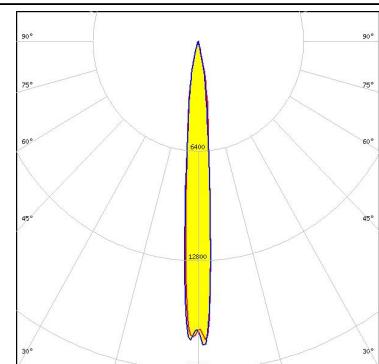
LUMILEDS

LED LUXEON 3030 2D (Round LES)
FWHM 4.0°
Efficiency 94 %
Peak intensity 52.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

LED LUXEON 5050 Round LES
FWHM 9.0°
Efficiency 94 %
Peak intensity 17.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

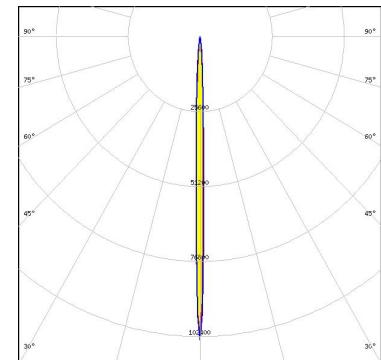
LUMILEDS

LED LUXEON A
FWHM 5.1°
Efficiency 89 %
Peak intensity 58.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



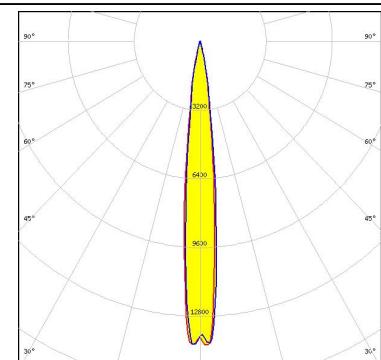
LUMILEDS

LED LUXEON Z ES
FWHM 3.0°
Efficiency 93 %
Peak intensity 103.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



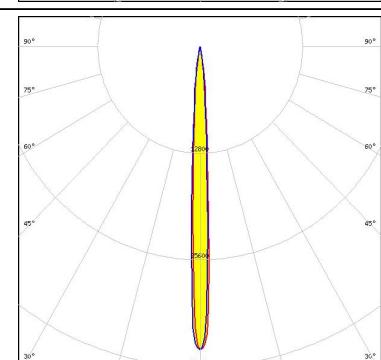
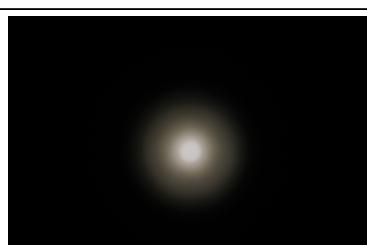
NICHIA

LED NV4x144A
FWHM 12.0°
Efficiency 92 %
Peak intensity 14.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



NICHIA

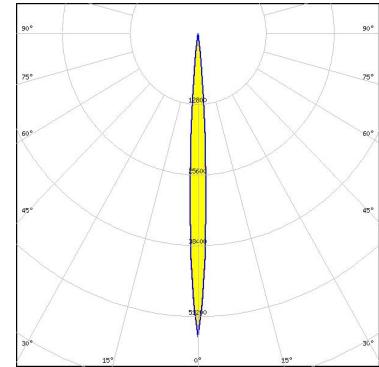
LED NVSW3x9A
FWHM 6.0°
Efficiency 89 %
Peak intensity 36.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



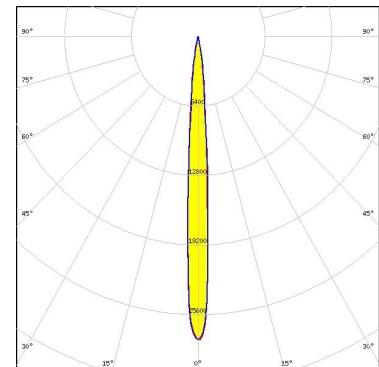
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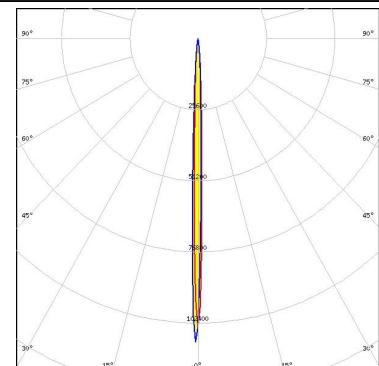
LED NVSxx19B/NVSxx19C
 FWHM 5.3°
 Efficiency 89 %
 Peak intensity 42.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NWSx229A
 FWHM 8.0°
 Efficiency 92 %
 Peak intensity 27.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSLON SSL 150
 FWHM 3.0°
 Efficiency 94 %
 Peak intensity 108.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LH351B
 FWHM 5.3°
 Efficiency 90 %
 Peak intensity 57 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

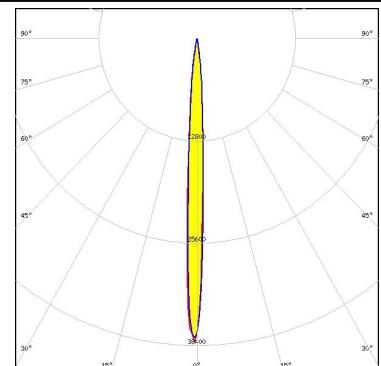
SAMSUNG

LED LH351Z
FWHM 4.4°
Efficiency 90 %
Peak intensity 77 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

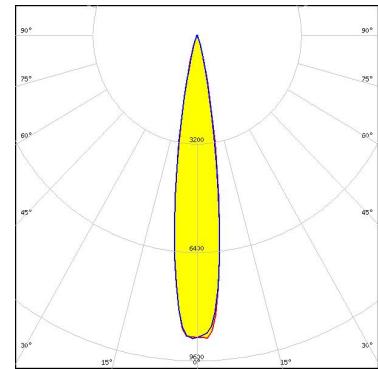
LED Z5M3
FWHM 6.0°
Efficiency 94 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

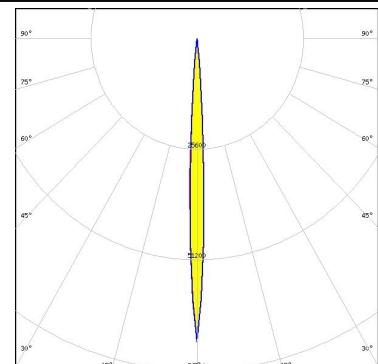
CREE

LED XHP70.2
FWHM 16.0°
Efficiency 95 %
Peak intensity 9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



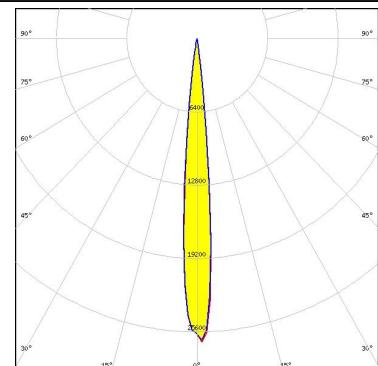
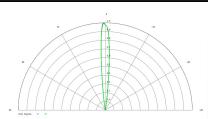
CREE

LED XP-L HI
FWHM 5.6°
Efficiency 94 %
Peak intensity 70.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



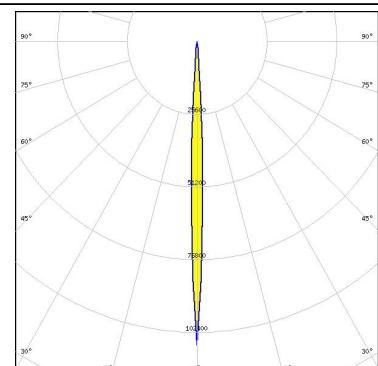
LUMILEDS

LED LUXEON Rubix
FWHM 10.0°
Efficiency 97 %
Peak intensity 26.8 cd/lm
LEDs/each optic 4
Light colour RGBW
Required components:



LUMILEDS

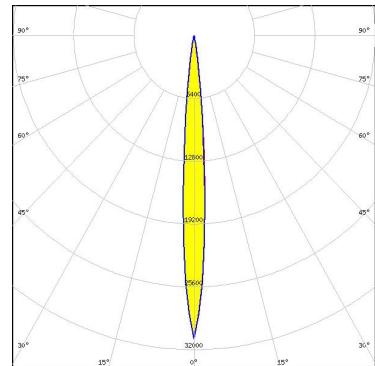
LED LUXEON Rubix
FWHM 4.0°
Efficiency 95 %
Peak intensity 106.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

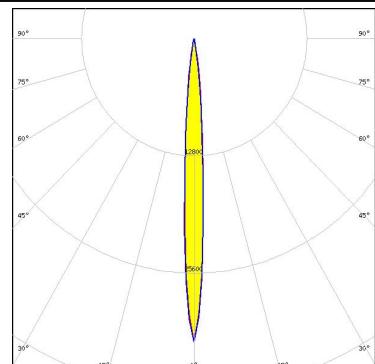
LUMILEDS

LED LUXEON V
 FWHM 8.0°
 Efficiency 95 %
 Peak intensity 30.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



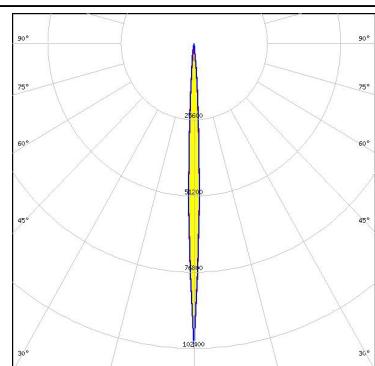
LUMINUS

LED SBT-90
 FWHM 8.0°
 Efficiency 97 %
 Peak intensity 33.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



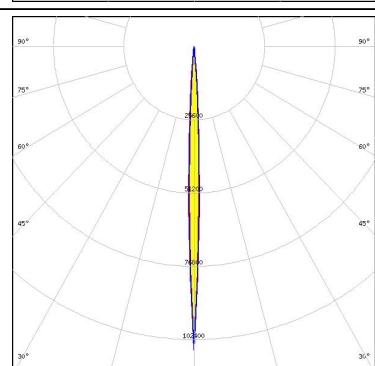
OSRAM

Opto Semiconductors
 LED Duris S5 (Single chip)
 FWHM 4.0°
 Efficiency 95 %
 Peak intensity 101.9 cd/lm
 LEDs/each optic 1
 Light colour Green
 Required components:



OSRAM

Opto Semiconductors
 LED Duris S5 (Single chip)
 FWHM 4.0°
 Efficiency 95 %
 Peak intensity 106 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:



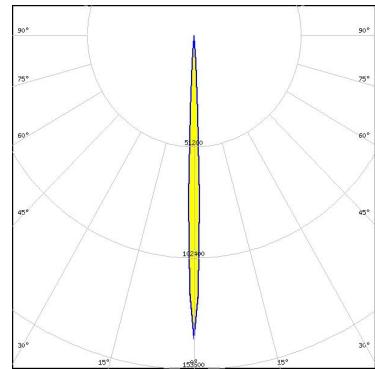
PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED	OSTAR Projection Compact (Kx.CSLNM1.xx)
FWHM	4.0°
Efficiency	94 %
Peak intensity	139.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

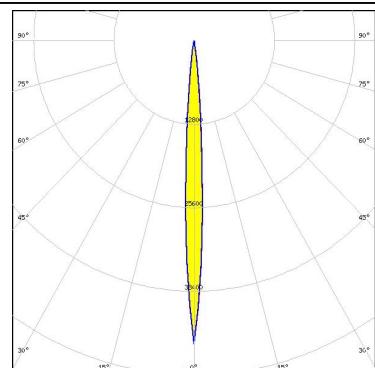
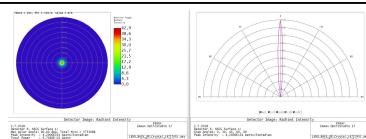


OSRAM

Opto Semiconductors

LED	SFH 4717AS
FWHM	6.7°
Efficiency	94 %
Peak intensity	46.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

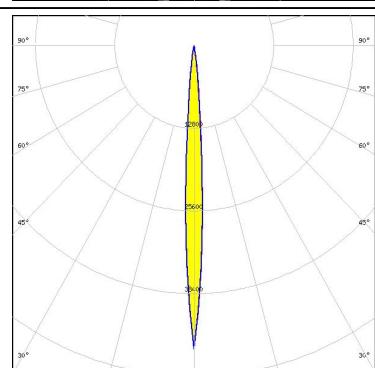
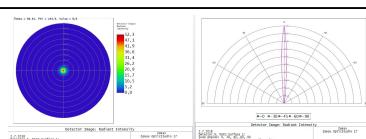


OSRAM

Opto Semiconductors

LED	SFH 4727AS
FWHM	6.7°
Efficiency	94 %
Peak intensity	47 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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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