

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 ⓘ

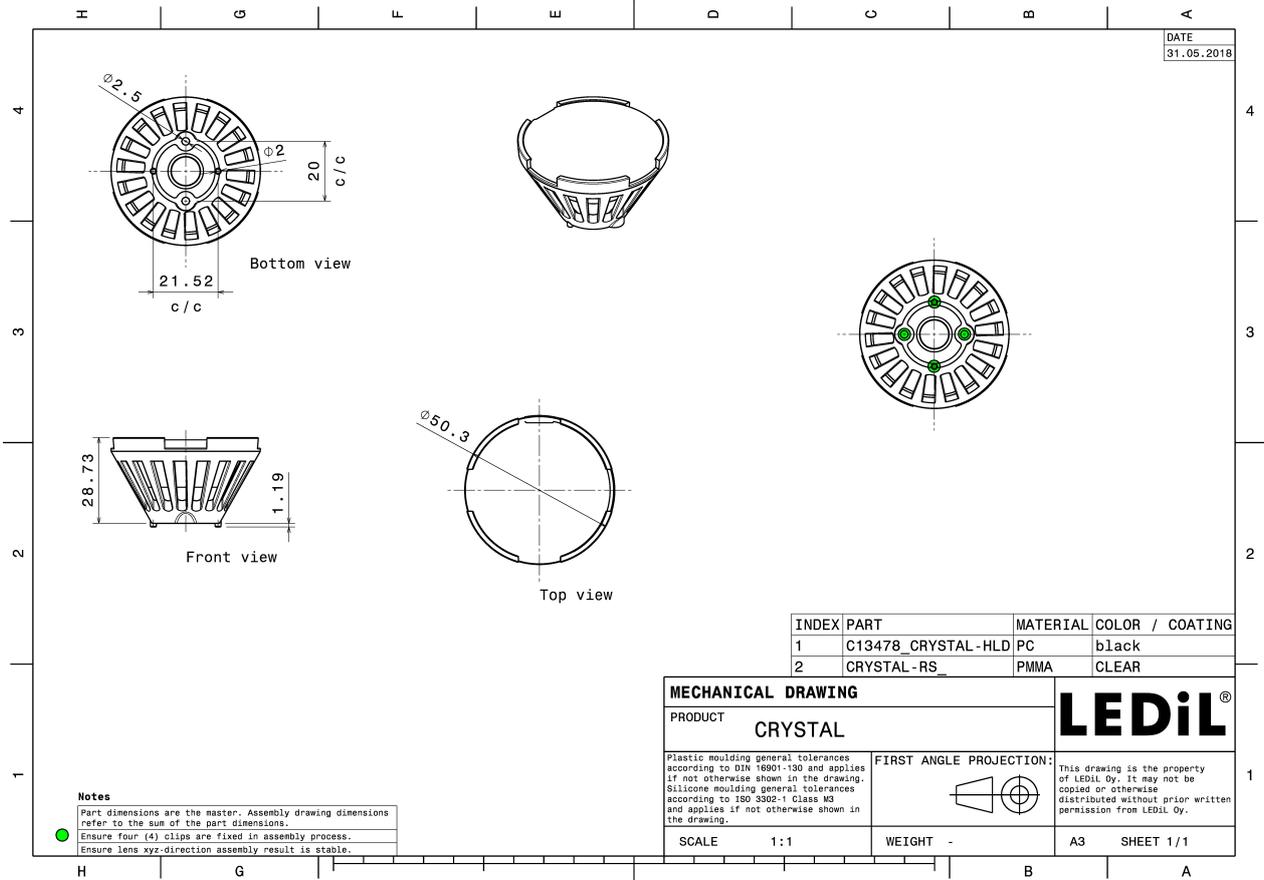
MATERIAL SPECIFICATIONS:

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



ORDERING INFORMATION:

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

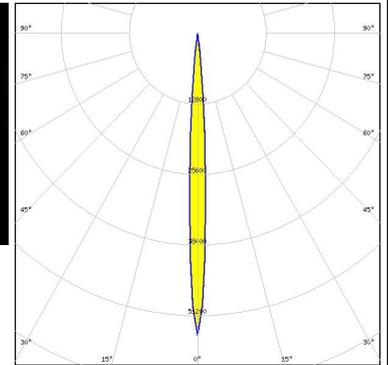


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

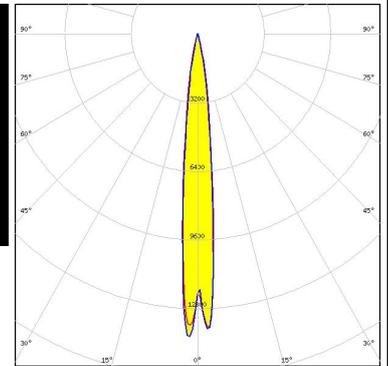
CREE LED

LED XHP35 HI
 FWHM / FWTM 5.7° / 15.0°
 Efficiency 89 %
 Peak intensity 48.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



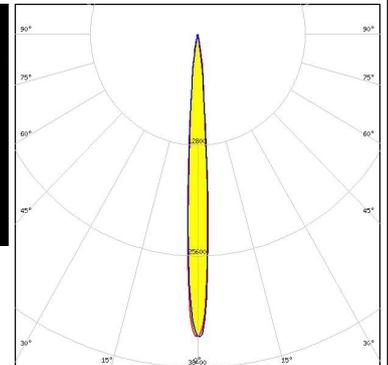
CREE LED

LED XHP50
 FWHM / FWTM 11.0° / 24.0°
 Efficiency 93 %
 Peak intensity 14.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

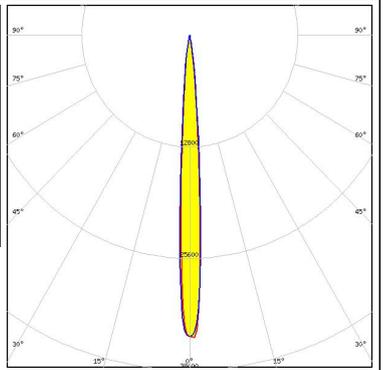
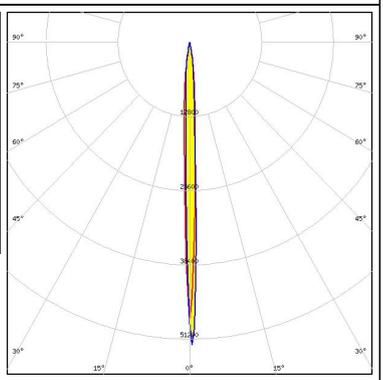
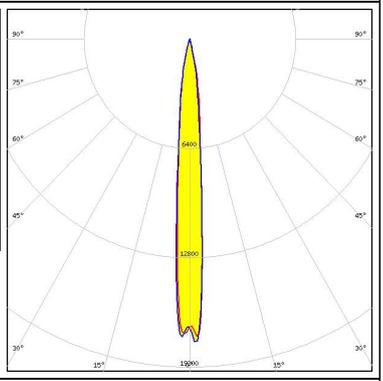
LED XM-L
 FWHM / FWTM 7.0° / 17.0°
 Efficiency 94 %
 Peak intensity 34.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



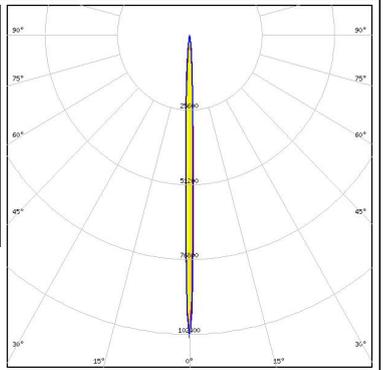
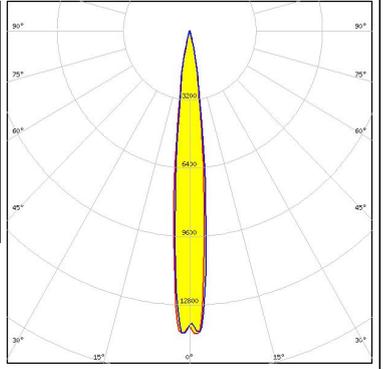
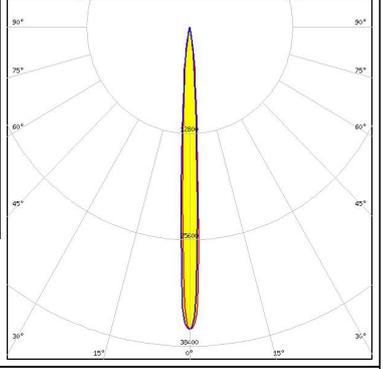
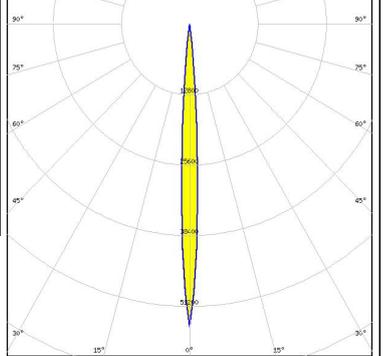
CREE LED

LED XP-G
 FWHM / FWTM 4.9° / 11.4°
 Efficiency 89 %
 Peak intensity 68.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

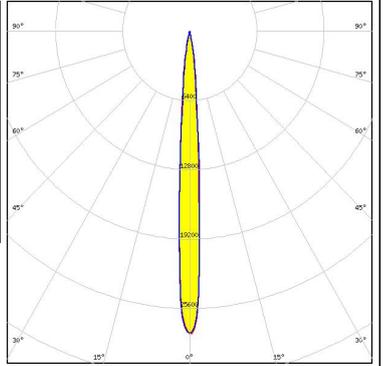
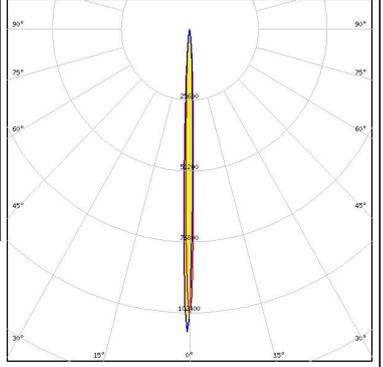
PHOTOMETRIC DATA (MEASURED):

<p>CREE LED</p> <p>LED: XP-L HD FWHM / FWTM: 7.0° / 15.0° Efficiency: 88 % Peak intensity: 34.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON 3030 2D (Round LES) FWHM / FWTM: 4.0° / 15.0° Efficiency: 94 % Peak intensity: 52.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON 5050 Round LES FWHM / FWTM: 9.0° / 24.0° Efficiency: 94 % Peak intensity: 17.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON A FWHM / FWTM: 5.1° / 14.0° Efficiency: 89 % Peak intensity: 58.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 3.0° / 9.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 103.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NV4x144A</p> <p>FWHM / FWTM 12.0° / 25.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 14.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NVSW3x9A</p> <p>FWHM / FWTM 6.0° / 16.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 36.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM 5.3° / 17.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 42.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED NWSx229A FWHM / FWTM 8.0° / 18.0° Efficiency 92 % Peak intensity 27.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLON SSL 150 FWHM / FWTM 3.0° / 9.0° Efficiency 94 % Peak intensity 108.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>SAMSUNG</p> <p>LED LH351B FWHM / FWTM 5.3° / 14.0° Efficiency 90 % Peak intensity 57 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>SAMSUNG</p> <p>LED LH351Z FWHM / FWTM 4.4° / 12.0° Efficiency 90 % Peak intensity 77 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

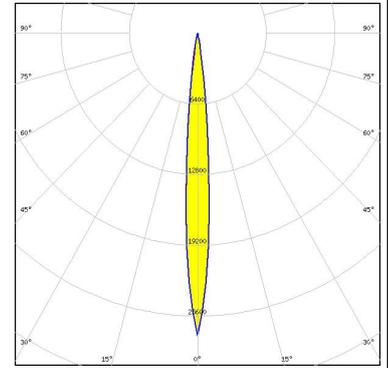
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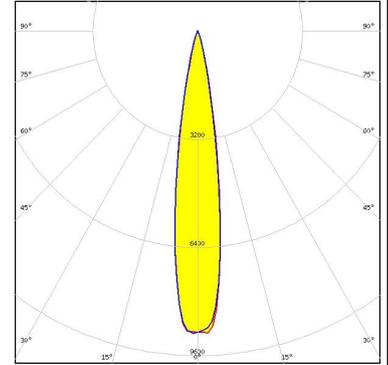
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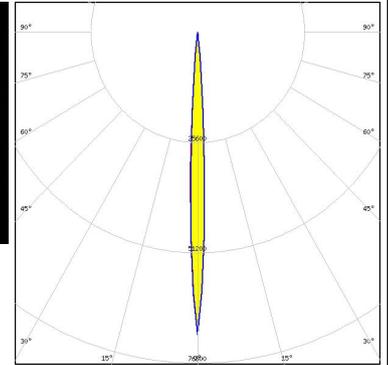
LED XHP50.3 HI
 FWHM / FWTM 10.0 + 8.0° / 18.0°
 Efficiency 97 %
 Peak intensity 27.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



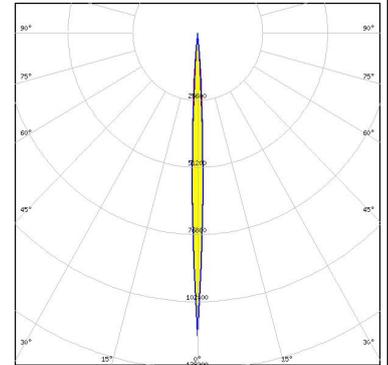
LED XHP70.2
 FWHM / FWTM 16.0° / 30.0°
 Efficiency 95 %
 Peak intensity 9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



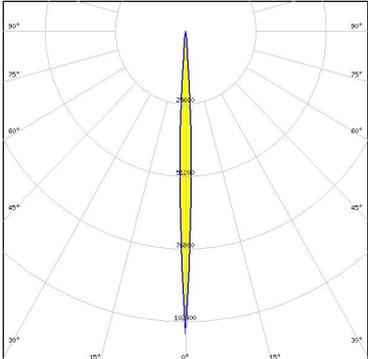
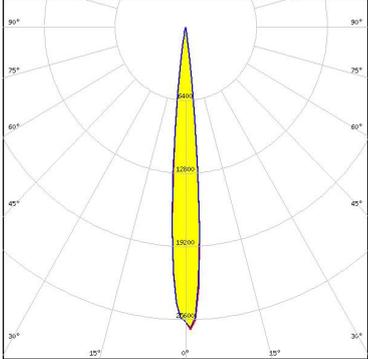
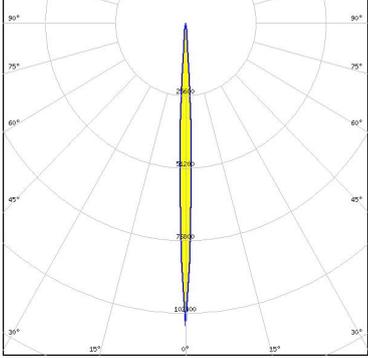
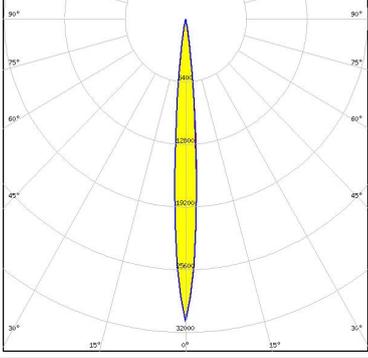
LED XP-L HI
 FWHM / FWTM 5.6° / 12.0°
 Efficiency 94 %
 Peak intensity 70.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-P
 FWHM / FWTM 4.0° / 10.0°
 Efficiency 95 %
 Peak intensity 115.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

<p>CREE LED</p> <p>LED: XQ-E HI FWHM / FWTM: 4.5° / 10.0° Efficiency: 95 % Peak intensity: 106.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON Rubix (white) FWHM / FWTM: 10.0° / 17.0° Efficiency: 97 % Peak intensity: 26.8 cd/lm LEDs/each optic: 4 Light colour: RGBW Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON Rubix (white) FWHM / FWTM: 4.0° / 10.0° Efficiency: 95 % Peak intensity: 106.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON V FWHM / FWTM: 8.0° / 17.0° Efficiency: 95 % Peak intensity: 30.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>LUMINUS</p> <p>LED SBT-90</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 33.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED SST-40</p> <p>FWHM / FWTM 8.0° / 16.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 31.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 4.0° / 10.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 101.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Green</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 4.0° / 10.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 106 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSTAR Projection Compact (Kx.CSLNM1.xx)</p> <p>FWHM / FWTM 4.0° / 8.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 139.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4717AS</p> <p>FWHM / FWTM 6.7° / 14.5°</p> <p>Efficiency 94 %</p> <p>Peak intensity 46.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4727AS</p> <p>FWHM / FWTM 6.7° / 14.5°</p> <p>Efficiency 94 %</p> <p>Peak intensity 47 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOL SEOL SEMICONDUCTOR</p> <p>LED Z8Y50P</p> <p>FWHM / FWTM 14.0° / 26.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 13.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

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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