

CRYSTAL-RS

~5.1° spot beam. Assembly with holder.

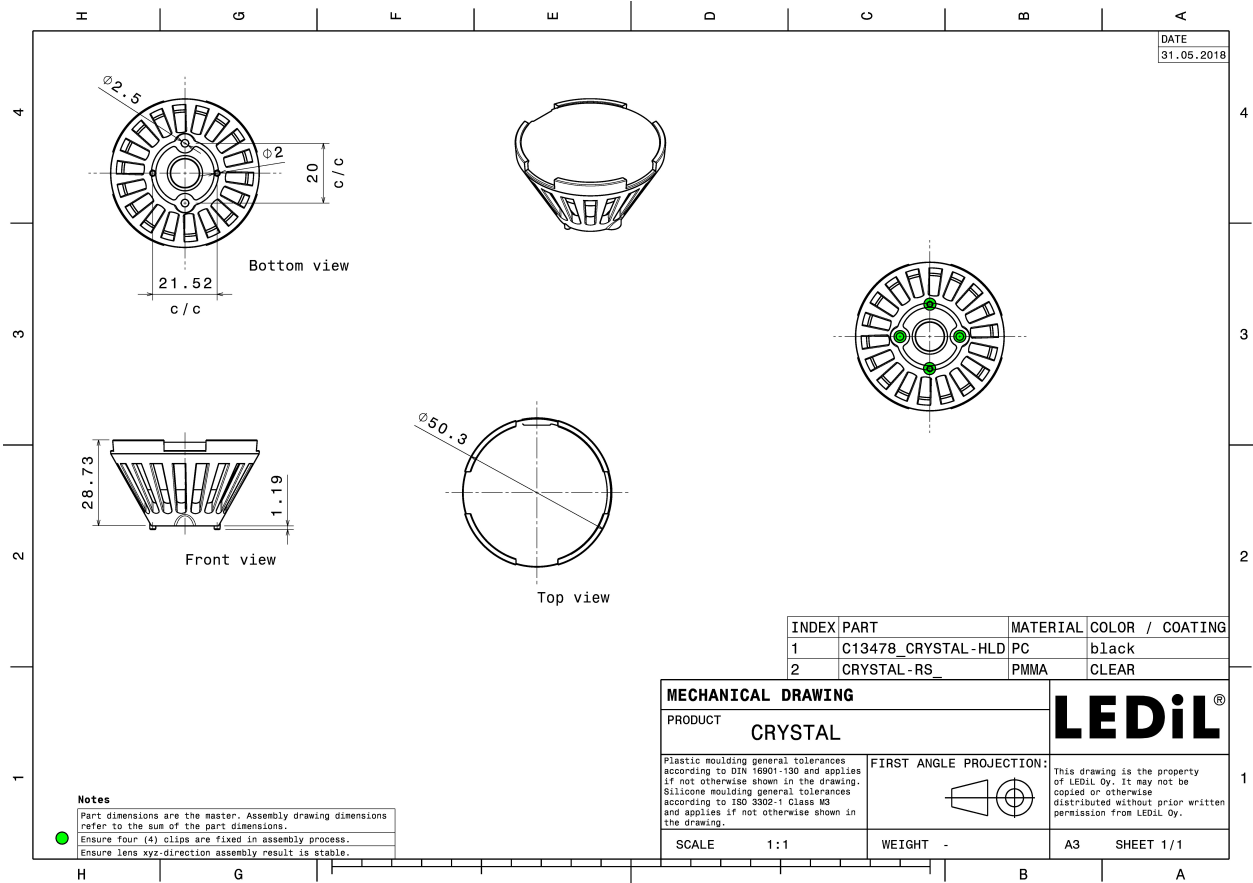
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.7 mm
Height	28.7 mm
Fastening	pin, screw
Colour	white
Box size	
Box weight	0 kg
Quantity in Box	288 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

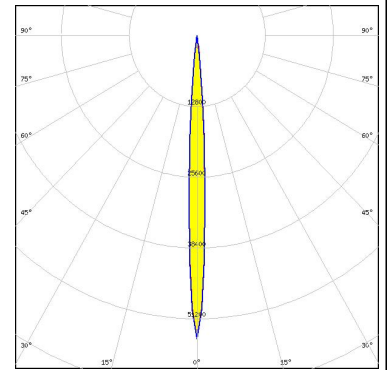
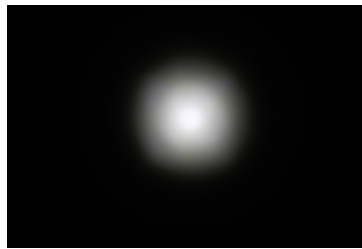
Component	Type	Material	Colour
CRYSTAL-RS	Lens	PMMA	clear
CRYSTAL-HLD	Holder	PC	white



PHOTOMETRIC DATA (MEASURED):

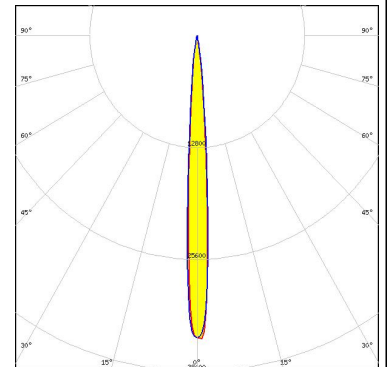
CREE ⇄

LED XHP35 HI
 FWHM 5.7°
 Efficiency 89 %
 Peak intensity 48.300 cd/lm
 Required components:



CREE ⇄

LED XP-G
 FWHM 4.9°
 Efficiency 89 %
 Peak intensity 68.290 cd/lm
 Required components:



CREE ⇄


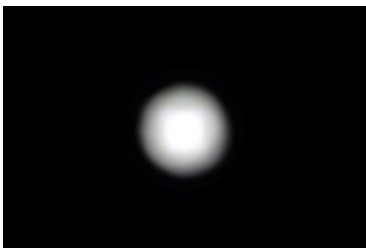
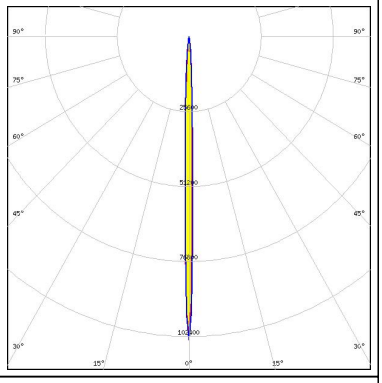
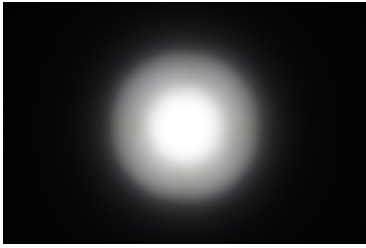
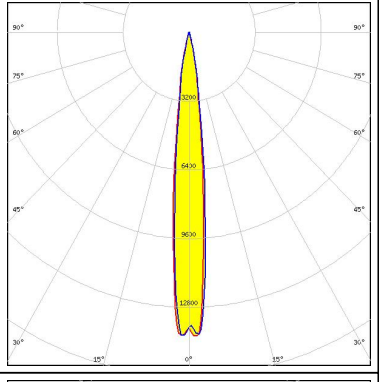
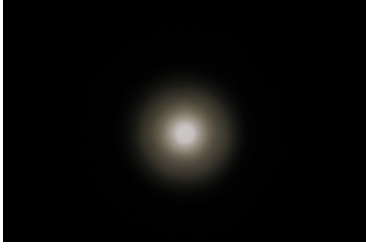
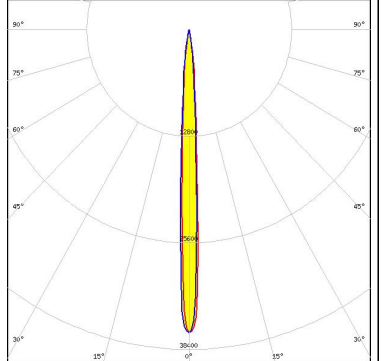
LED XP-L
 FWHM 7.0°
 Efficiency 88 %
 Peak intensity 34.700 cd/lm
 Required components:



CREE ⇄

LED XQ-E HI
 FWHM 2.9°
 Efficiency 88 %
 Peak intensity 110.500 cd/lm
 Required components:

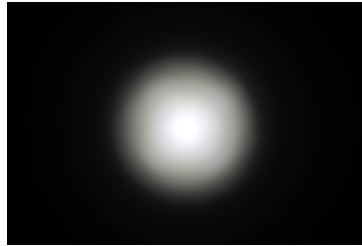
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON A</p> <p>FWHM 5.1°</p> <p>Efficiency 89 %</p> <p>Peak intensity 58.900 cd/lm</p> <p>Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM 3.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 103.780 cd/lm</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NV4x144A</p> <p>FWHM 12.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 14.200 cd/lm</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NVSW3x9A</p> <p>FWHM 6.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 36.500 cd/lm</p> <p>Required components:</p>		

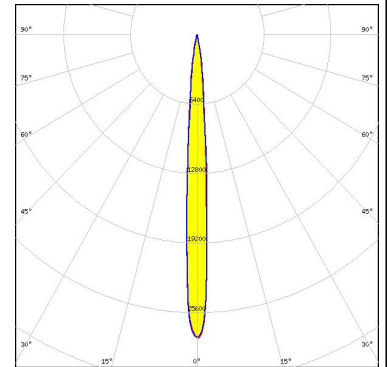
PHOTOMETRIC DATA (MEASURED):



LED NVSxx19B/NVSxx19C
FWHM 5.3°
Efficiency 89 %
Peak intensity 42.500 cd/lm
Required components:

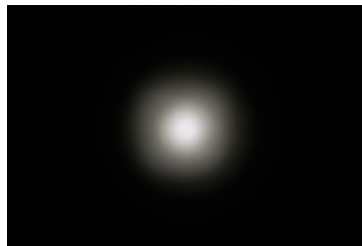


LED NWSx229A
FWHM 8.0°
Efficiency 92 %
Peak intensity 27.900 cd/lm
Required components:



SAMSUNG

LED LH351B
FWHM 5.3°
Efficiency 90 %
Peak intensity 57.030 cd/lm
Required components:



SAMSUNG

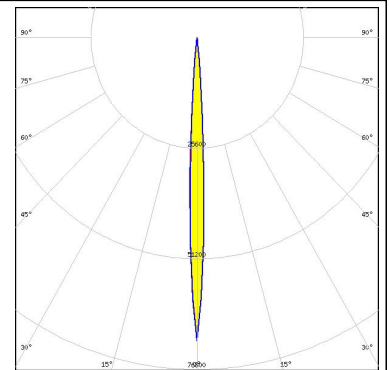
LED LH351Z
FWHM 4.4°
Efficiency 90 %
Peak intensity 77.000 cd/lm
Required components:



PHOTOMETRIC DATA (SIMULATED):

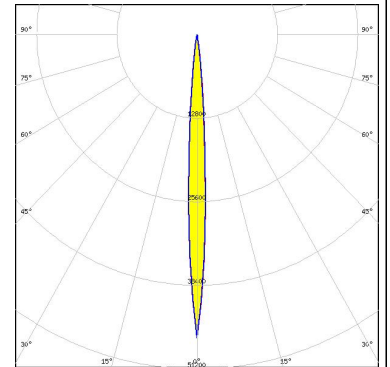
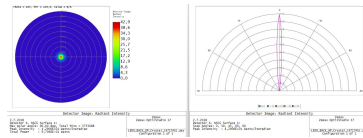
CREE 

LED XP-L HI
 FWHM 5.6°
 Efficiency 94 %
 Peak intensity 70.220 cd/lm
 Required components:



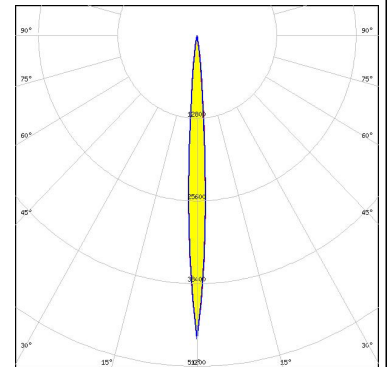
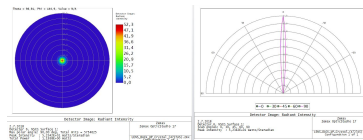
OSRAM

LED SFH 4717AS
 FWHM 6.7°
 Efficiency 94 %
 Peak intensity 46.450 cd/lm
 Required components:



OSRAM

LED SFH 4727AS
 FWHM 6.7°
 Efficiency 94 %
 Peak intensity 47.000 cd/lm
 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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