

CRYSTAL-RS

~5.1° spot beam. Assembly with holder.

SPECIFICATION:

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

MATERIALS:

Component	Type	Material	Colour	Finish
F12916_CRYSTAL-RS	Single lens	PMMA	clear	
C13478_CRYSTAL-HLD	Holder	PC	white	

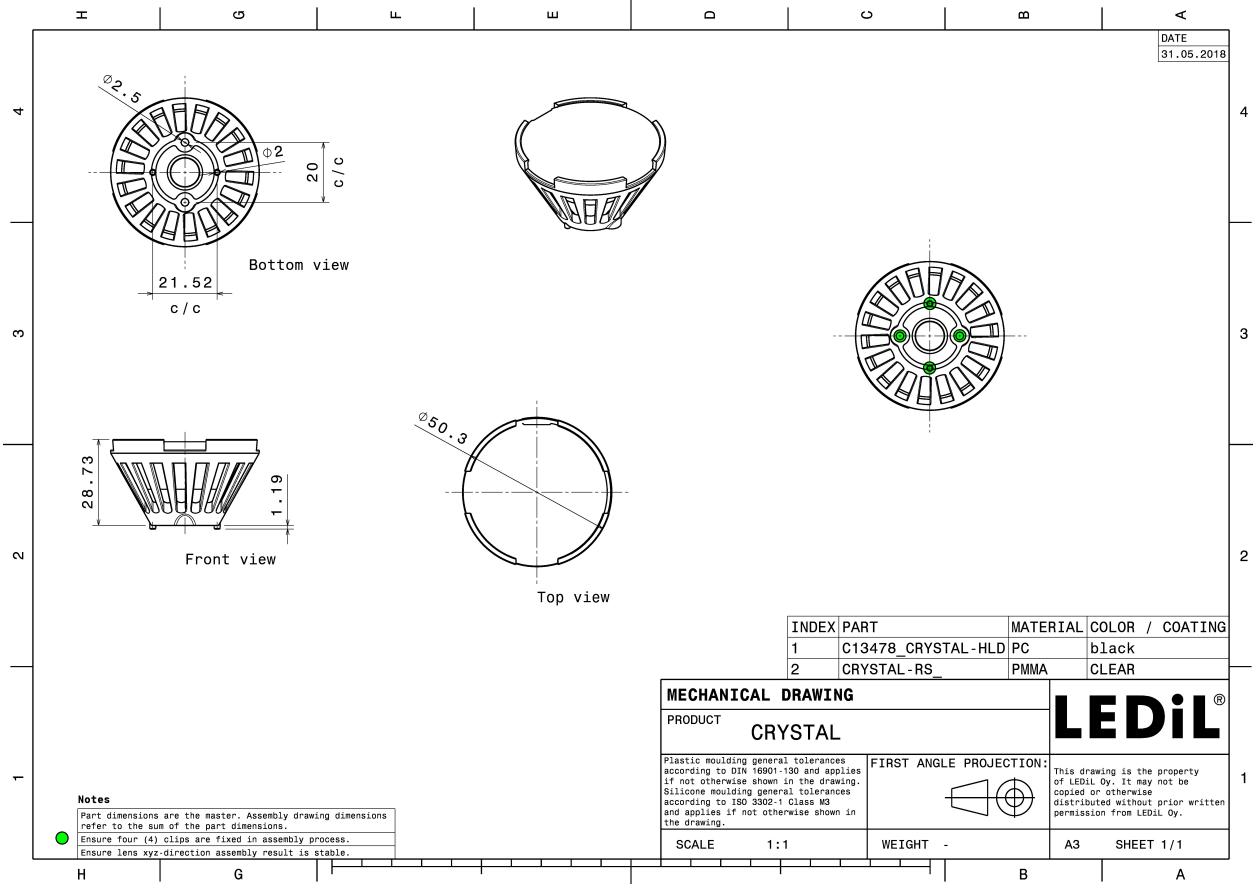
ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1

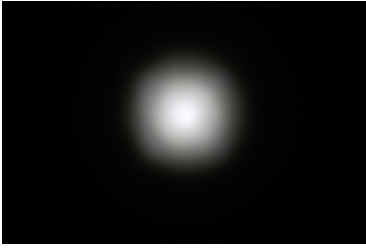
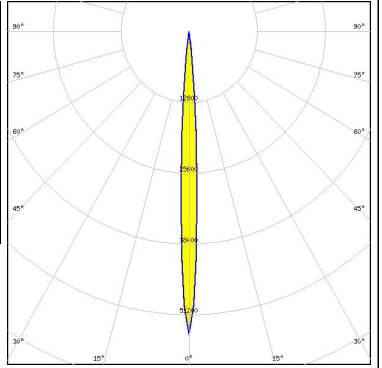

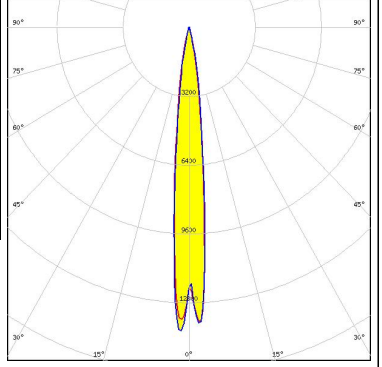

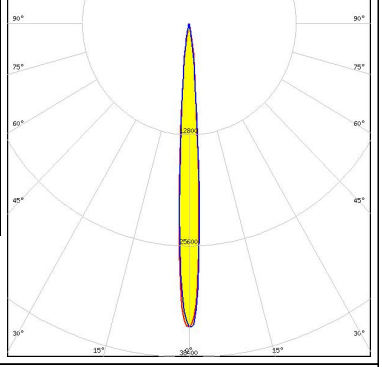




Component		Qty in box	MOQ	MPQ	Box weight (kg)
F12916_CRYSTAL-RS	Single lens	288	64	32	8.6
» Box size: 480 x 280 x 300 mm					
C13478_CRYSTAL-HLD	Holder	1152	64	32	6.1
» Box size: 480 x 280 x 300 mm					



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

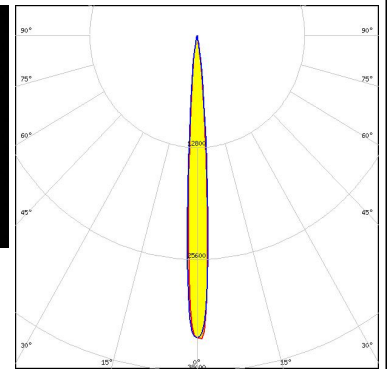
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>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:</p>		
<p>CREE LEDs</p> <p>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:</p>		
<p>CREE LEDs</p> <p>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:</p>		
<p>CREE LEDs</p> <p>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:</p>		

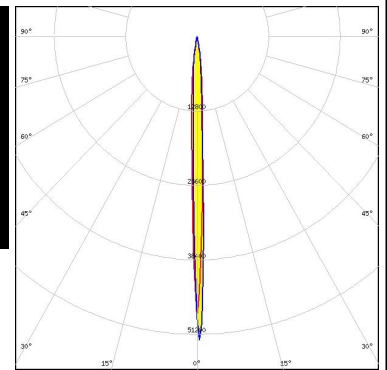
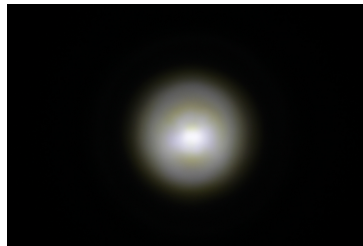
OPTICAL RESULTS (MEASURED):



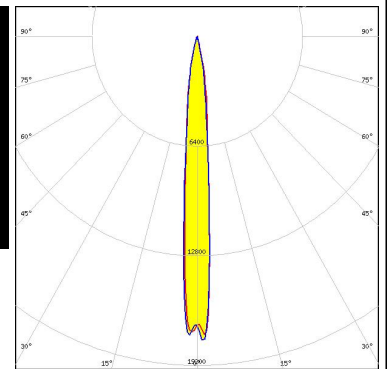
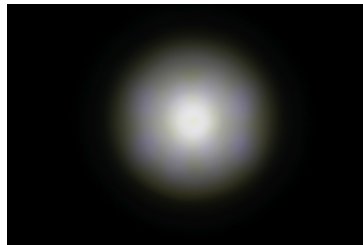
LED XP-L HD
 FWHM / FWTM 7.0° / 15.0°
 Efficiency 88 %
 Peak intensity 34.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



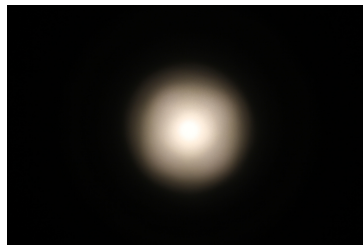
LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM 4.0° / 15.0°
 Efficiency 94 %
 Peak intensity 52.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



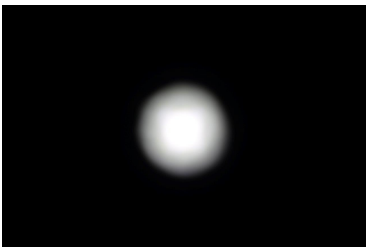
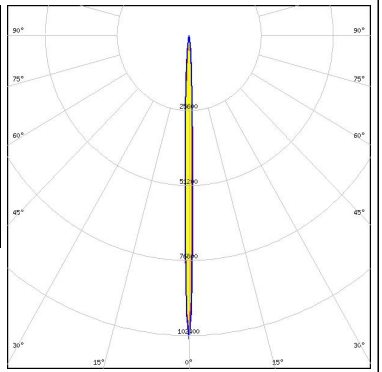

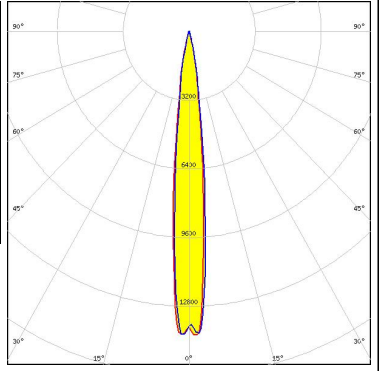
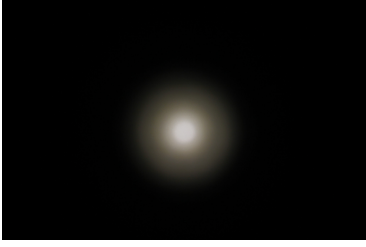
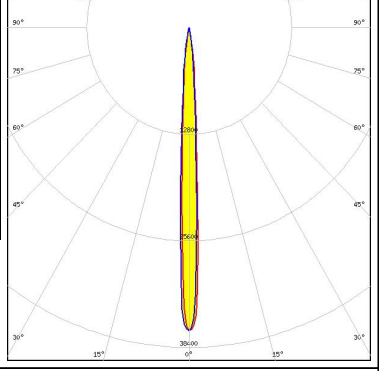

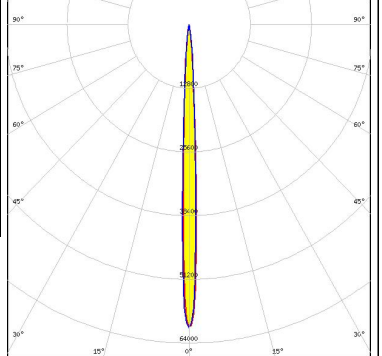
LED LUXEON 5050 Round LES
 FWHM / FWTM 9.0° / 24.0°
 Efficiency 94 %
 Peak intensity 17.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



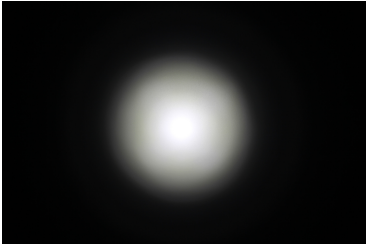
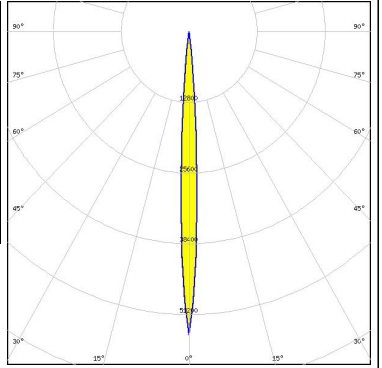

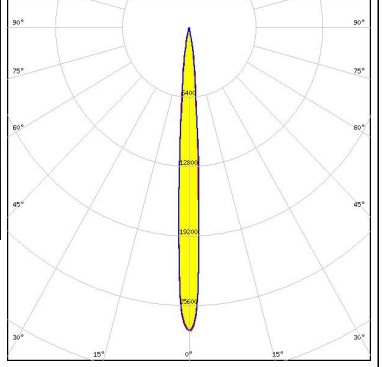

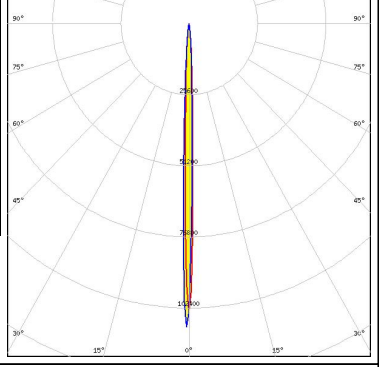


LED LUXEON A
 FWHM / FWTM 5.1° / 14.0°
 Efficiency 89 %
 Peak intensity 58.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:





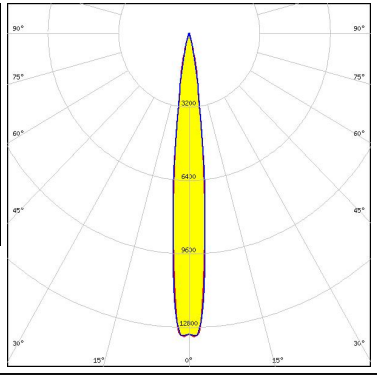


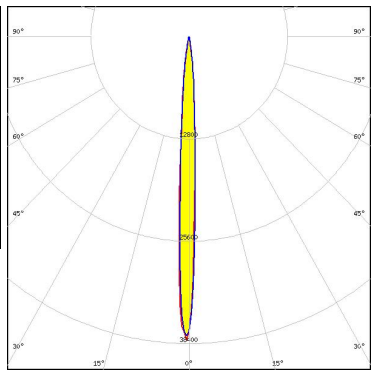
OPTICAL RESULTS (MEASURED):

<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 NVSW719AC</p> <p>FWHM / FWTM 5.0° / 12.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 61 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		


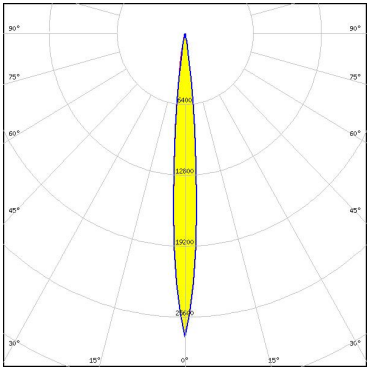

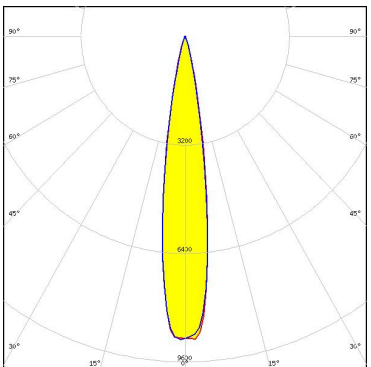

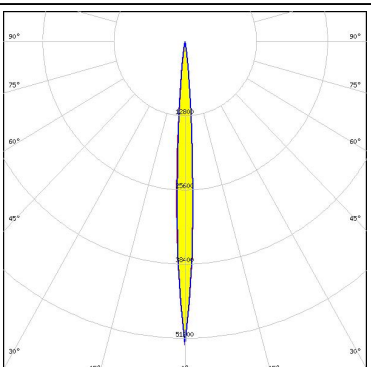

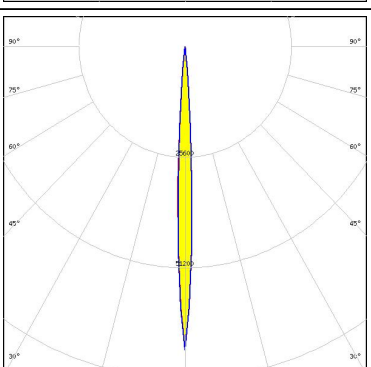
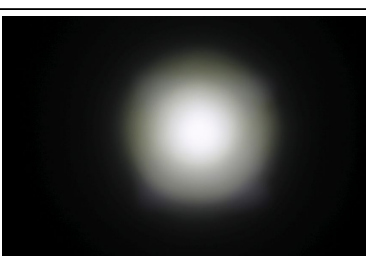
OPTICAL RESULTS (MEASURED):

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

OPTICAL RESULTS (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED WICOP 5050</p> <p>FWHM / FWTM 12.0° / 25.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 13.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 6.0° / 16.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

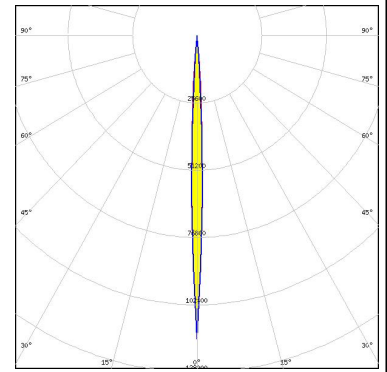
OPTICAL RESULTS (SIMULATED):

	<p>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:</p>	
	<p>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:</p>	
	<p>LED XP-G3 FWHM / FWTM 6.0° / 14.0° Efficiency 95 % Peak intensity 52.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>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:</p>	 

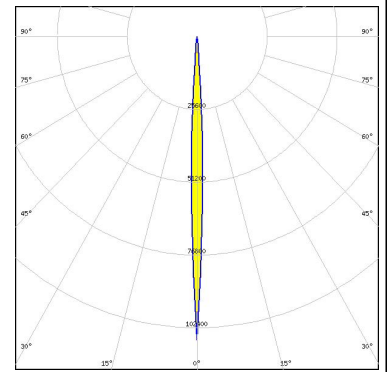
OPTICAL RESULTS (SIMULATED):



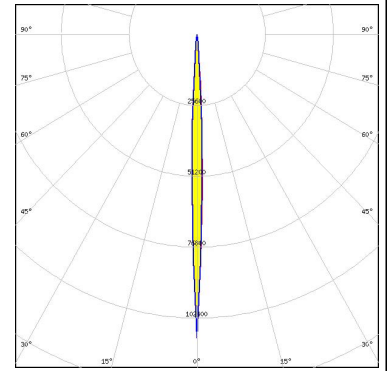
LED XP-P
 FWHM / FWTM 4.0° / 10.0°
 Efficiency 95 %
 Peak intensity 115.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



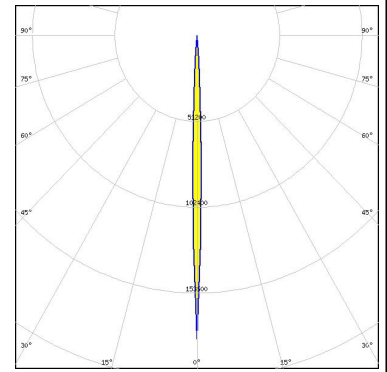
LED XQ-E HI
 FWHM / FWTM 4.5° / 10.0°
 Efficiency 95 %
 Peak intensity 106.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON C
 FWHM / FWTM 4.0° / 10.0°
 Efficiency 91 %
 Peak intensity 109.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



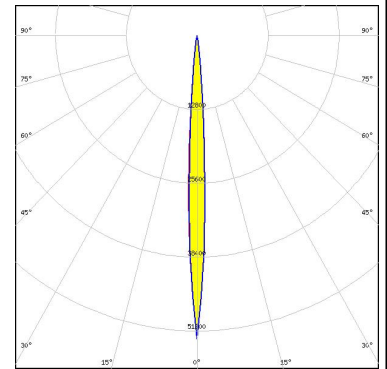
LED LUXEON CZ
 FWHM / FWTM 4.0° / 8.0°
 Efficiency 93 %
 Peak intensity 181 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

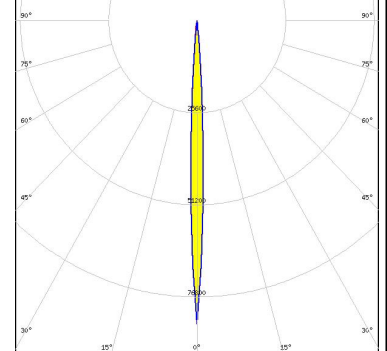
LUMILEDS

LED LUXEON HL2X
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 95 %
 Peak intensity 52.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



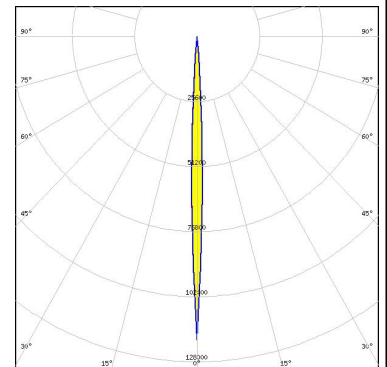
LUMILEDS

LED LUXEON Rebel Plus
 FWHM / FWTM 6.0° / 10.0°
 Efficiency 95 %
 Peak intensity 84.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



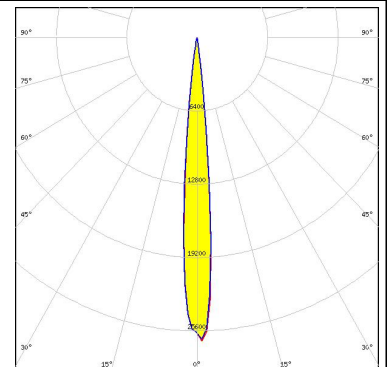
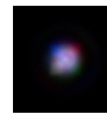
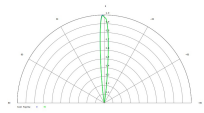
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 4.0° / 10.0°
 Efficiency 95 %
 Peak intensity 119.4 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:



LUMILEDS

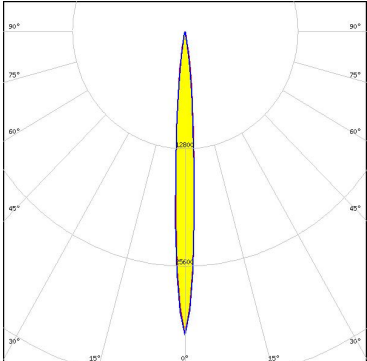
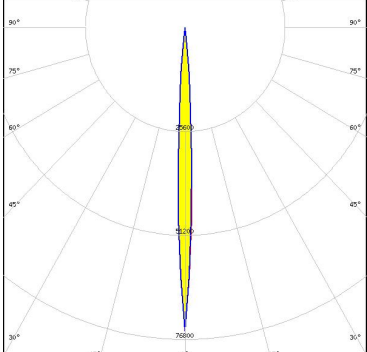
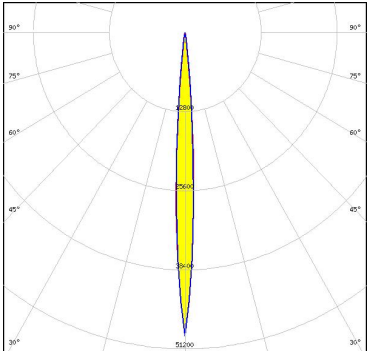
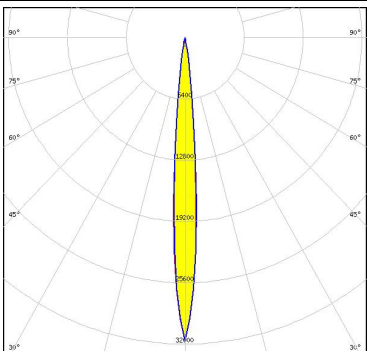
LED LUXEON Rubix
 FWHM / FWTM 10.0° / 17.0°
 Efficiency 97 %
 Peak intensity 26.8 cd/lm
 LEDs/each optic 4
 Light colour RGBW
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 4.0° / 10.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 114 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 4.0° / 10.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 114.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Green</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Rubix</p> <p>FWHM / FWTM 4.0° / 10.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 106.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON V</p> <p>FWHM / FWTM 8.0° / 17.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 30.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>LUMINUS</p> <p>LED SBT-90 FWHM / FWTM 8.0° / 18.0° Efficiency 97 % Peak intensity 33.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMINUS</p> <p>LED SFT-40-WCS FWHM / FWTM 6.0° / 12.0° Efficiency 96 % Peak intensity 74.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMINUS</p> <p>LED SFT-70X-WCS FWHM / FWTM 6.0° / 14.0° Efficiency 97 % Peak intensity 49.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMINUS</p> <p>LED SST-40 FWHM / FWTM 8.0° / 16.0° Efficiency 97 % Peak intensity 31.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

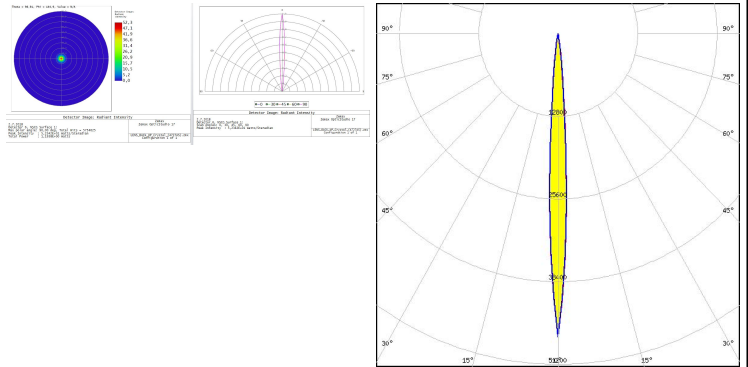
OSRAM <small>Opto Semiconductors</small>	<p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 4.0° / 10.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 106 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED Duris S5 (Single 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>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSTAR Projection Compact (KW.CSLNM1.TG)</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>	
OSRAM <small>Opto Semiconductors</small>	<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>	

OPTICAL RESULTS (SIMULATED):

OSRAM

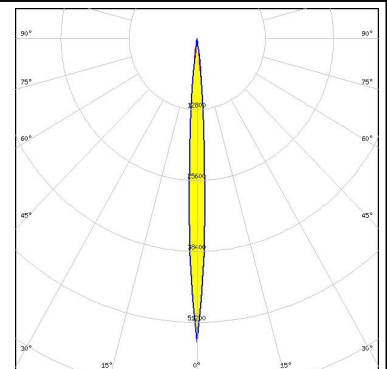
Opto Semiconductors

LED SFH 4727AS
 FWHM / FWTM 6.7° / 14.5°
 Efficiency 94 %
 Peak intensity 47 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



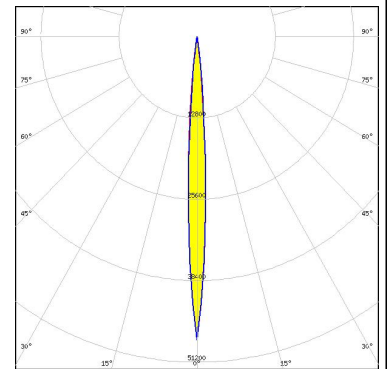
SAMSUNG

LED LH351B
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 96 %
 Peak intensity 54.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

LED LH351C
 FWHM / FWTM 6.0° / 14.0°
 Efficiency 96 %
 Peak intensity 47.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

LED Z8Y50P
 FWHM / FWTM 14.0° / 26.0°
 Efficiency 97 %
 Peak intensity 13.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

