

IRIS

~5° real spot beam optimized for CREE XP-E.
Assembly with holder and installation tape.

SPECIFICATION:

Dimensions	Ø 38.0 mm
Height	27.1 mm
Fastening	glue, tape, pin, screw
ROHS compliant	yes ⓘ



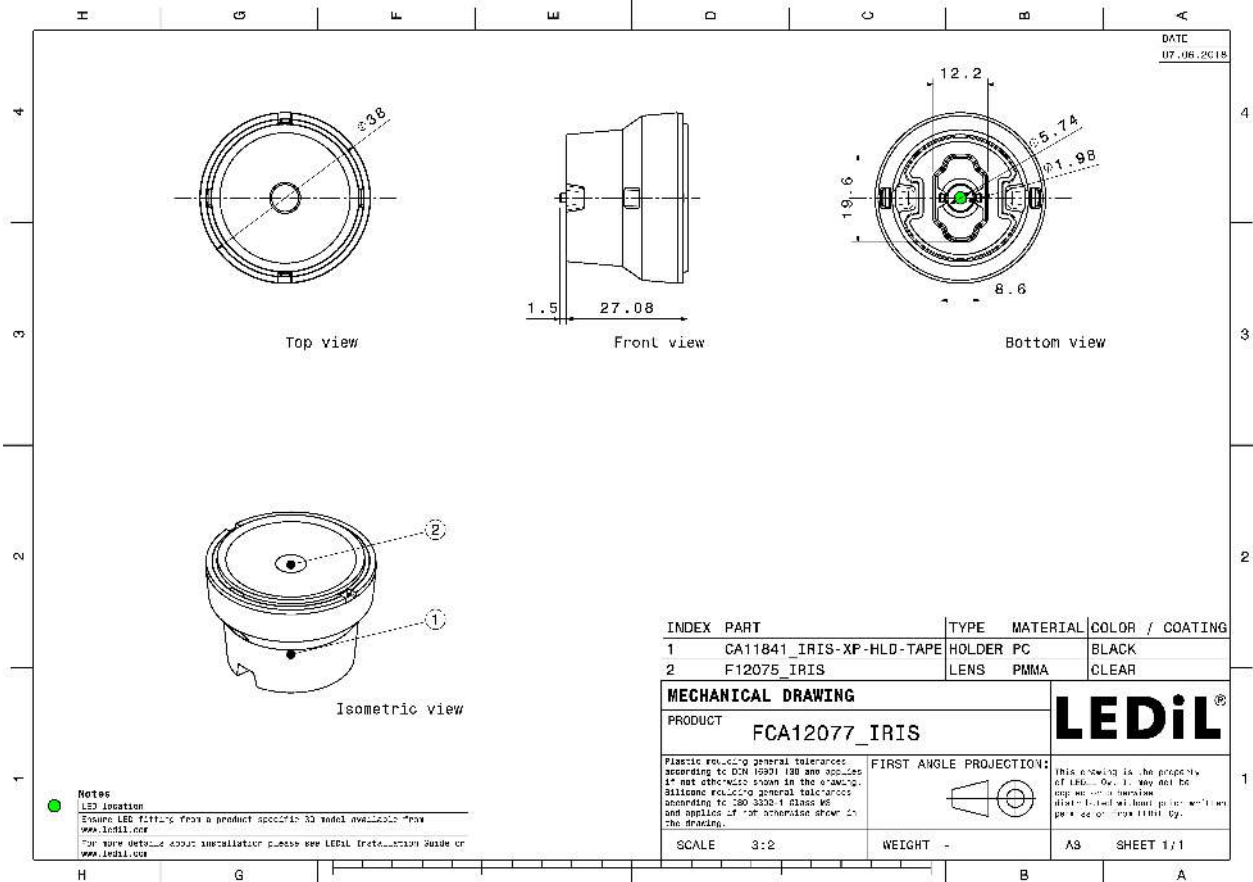
LEDiL

MATERIALS:

Component	Type	Material	Colour	Finish
IRIS	Single lens	PMMA	clear	
IRIS-XP-HLD-TAPE	Assembly	PC	black	

ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FCA12077_IRIS » Box size: 480 x 280 x 300 mm	Single lens	378	126	42	8.9

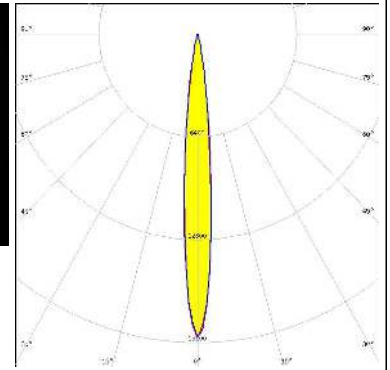


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

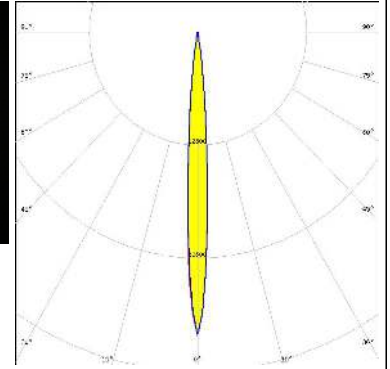
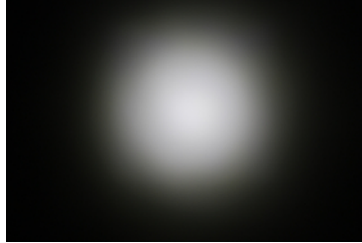
CREE ⇄ LED

LED XHP35 HD
 FWHM / FWTM 10.0° / 23.0°
 Efficiency 89 %
 Peak intensity 18.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



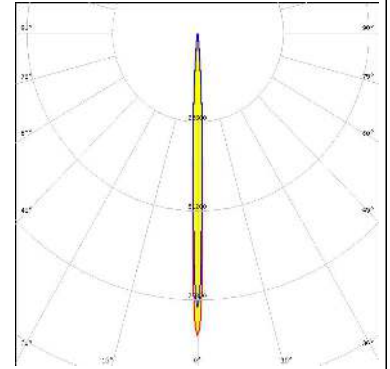
CREE ⇄ LED

LED XHP35 HI
 FWHM / FWTM 7.6° / 17.0°
 Efficiency 90 %
 Peak intensity 35.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



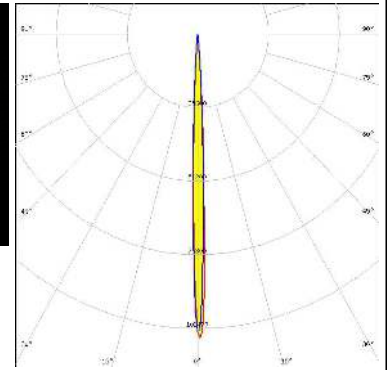
CREE ⇄ LED

LED XP-E
 FWHM / FWTM 4.0° / 9.0°
 Efficiency 93 %
 Peak intensity 87.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


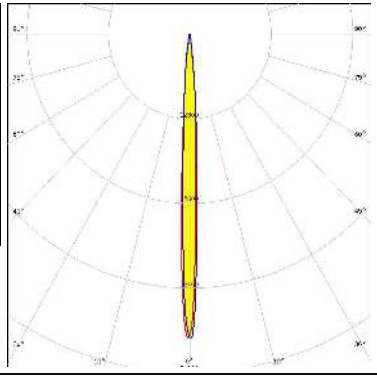

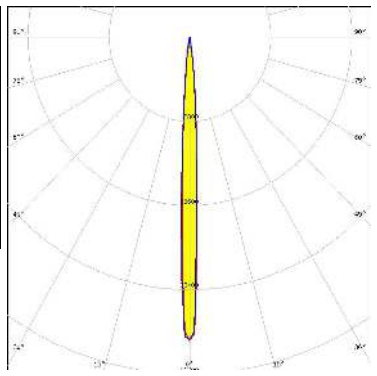

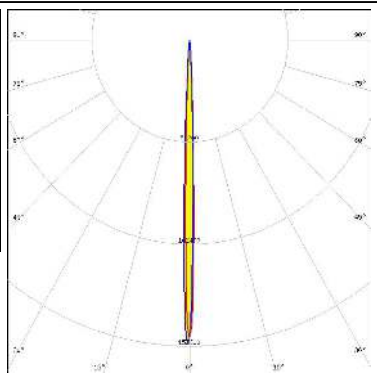

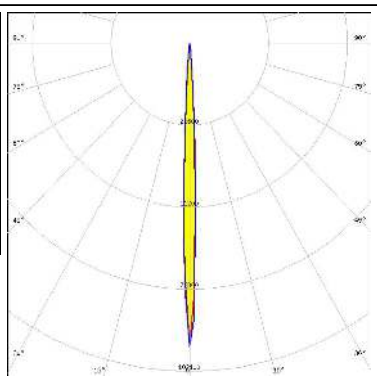


CREE ⇄ LED

LED XP-E2
 FWHM / FWTM 5.0° / 9.0°
 Efficiency 93 %
 Peak intensity 103.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



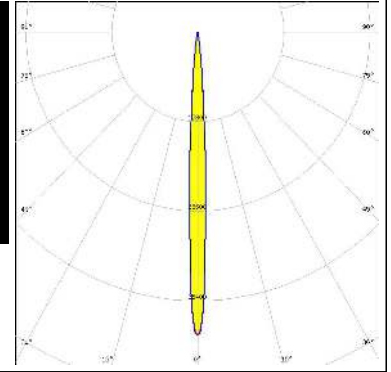
OPTICAL RESULTS (MEASURED):

<p>CREE → LED</p> <p>LED XP-G FWHM / FWTM 6.0° / 14.0° Efficiency 94 % Peak intensity 46.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE → LED</p> <p>LED XP-G2 FWHM / FWTM 6.0° / 14.0° Efficiency 95 % Peak intensity 46 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE → LED</p> <p>LED XP-P FWHM / FWTM 3.0° / 8.0° Efficiency 96 % Peak intensity 152.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE → LED</p> <p>LED XQ-E HI FWHM / FWTM 3.9° / 9.0° Efficiency 88 % Peak intensity 123.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

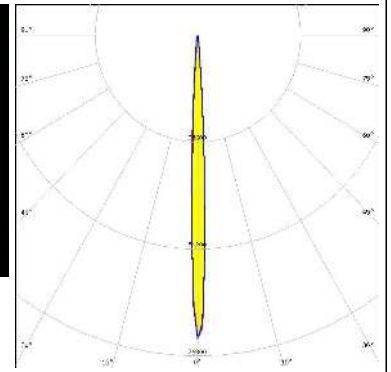
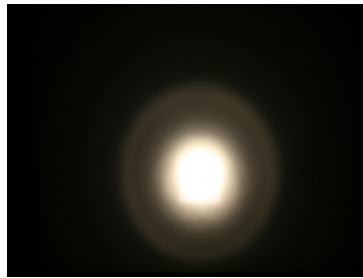
CREE LED

LED XT-E
 FWHM / FWTM 6.0° / 13.0°
 Efficiency 91 %
 Peak intensity 44 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



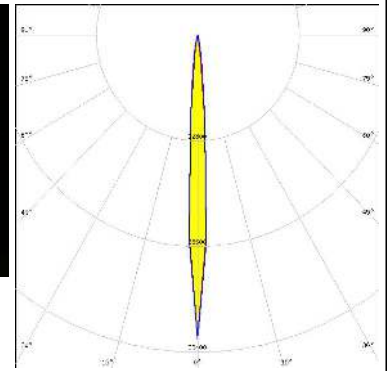
LUMILEDS

LED LUXEON Rebel
 FWHM / FWTM 5.0° / 9.0°
 Efficiency %
 Peak intensity 75.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



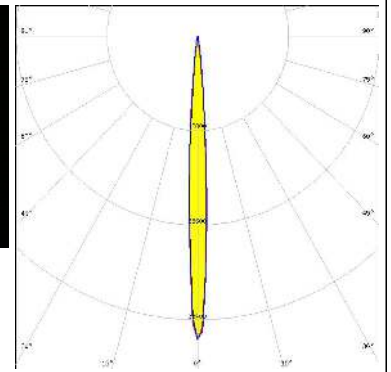
LUMILEDS

LED LUXEON Rebel ES
 FWHM / FWTM 7.0° / 14.0°
 Efficiency 93 %
 Peak intensity 38.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

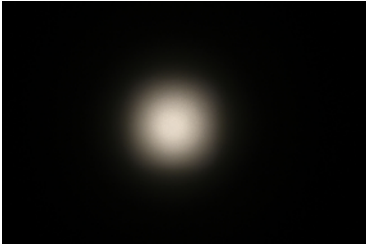
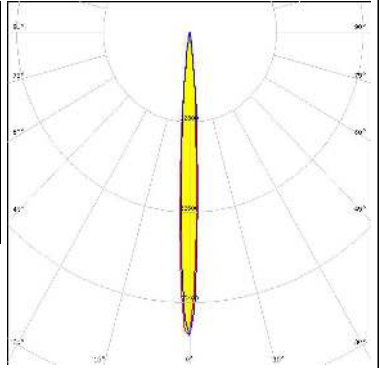
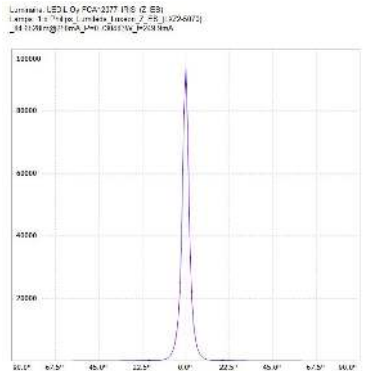
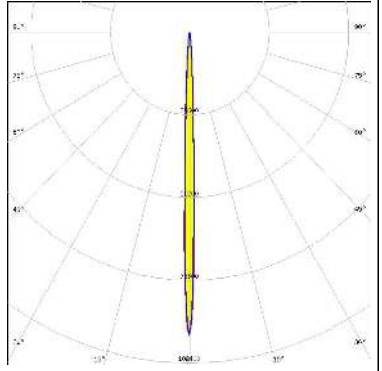
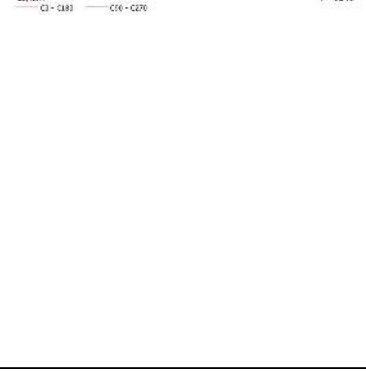
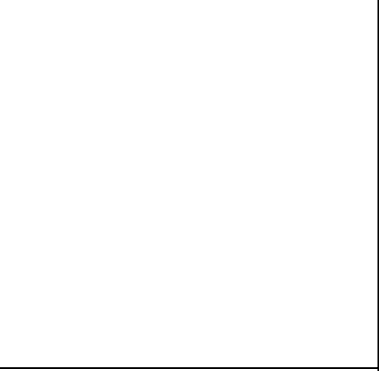

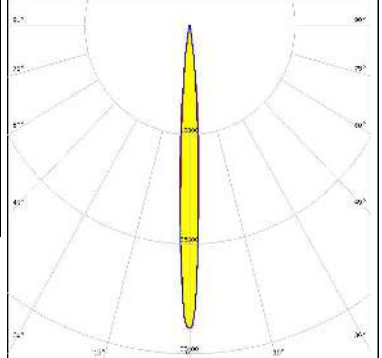


LUMILEDS


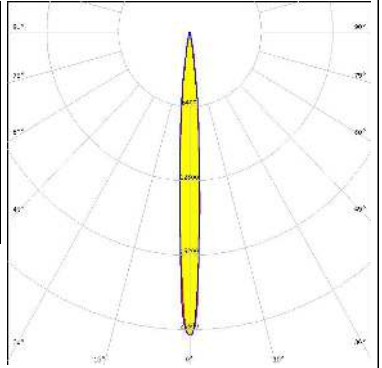

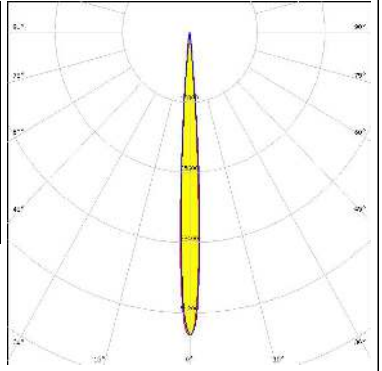

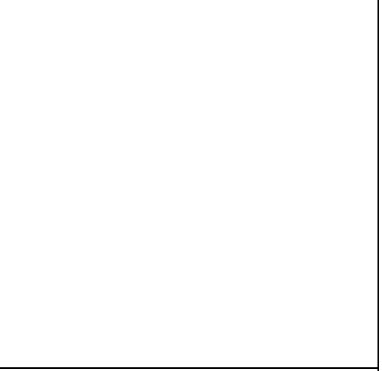

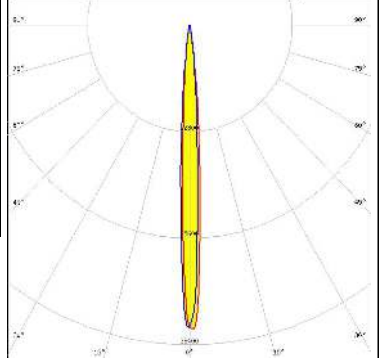
LED LUXEON T
 FWHM / FWTM 7.0° / 14.0°
 Efficiency 94 %
 Peak intensity 40.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




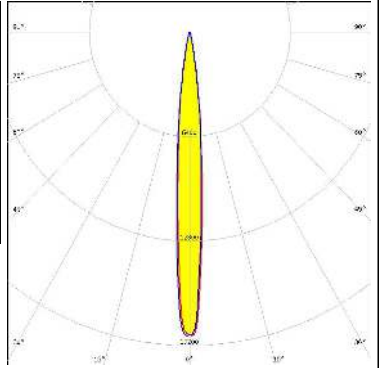

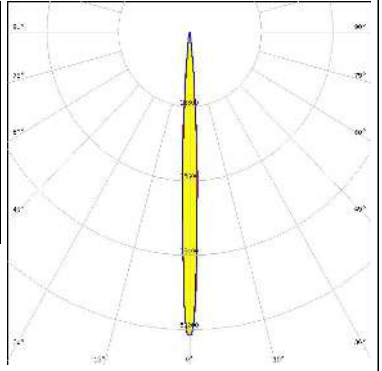

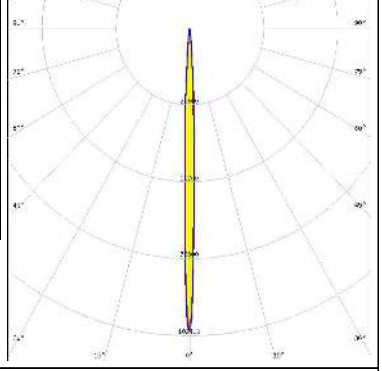


OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON TX FWHM / FWTM 6.9° / 15.0° Efficiency 89 % Peak intensity 43.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON Z ES FWHM / FWTM 4.0° / 9.0° Efficiency 93 % Peak intensity 94.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NCSxx19A FWHM / FWTM 5.0° / 11.0° Efficiency % LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 7.0° / 16.0° Efficiency 94 % Peak intensity 35.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NVSW3x9A</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 26.3 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 7.0° / 11.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 55.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>NICHIA</p> <p>LED NVSxx19A</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 38.7 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 7.0° / 15.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 36.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

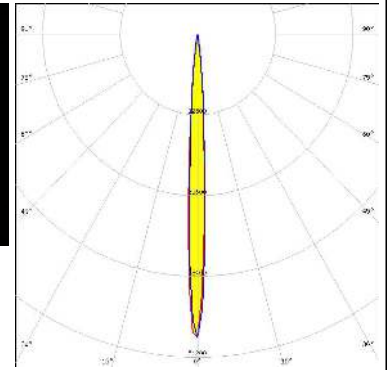
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NWSx229A FWHM / FWTM 10.0° / 21.0° Efficiency 91 % Peak intensity 18.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Osram Semiconductors</small></p> <p>LED OSLON Square EC FWHM / FWTM 6.0° / 12.0° Efficiency 92 % Peak intensity 52 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Osram Semiconductors</small></p> <p>LED OSLON SSL 150 FWHM / FWTM 4.0° / 9.0° Efficiency 94 % Peak intensity 101 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Osram Semiconductors</small></p> <p>LED OSLON SSL 80 FWHM / FWTM 4.0° / 9.0° Efficiency 90 % Peak intensity 89 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

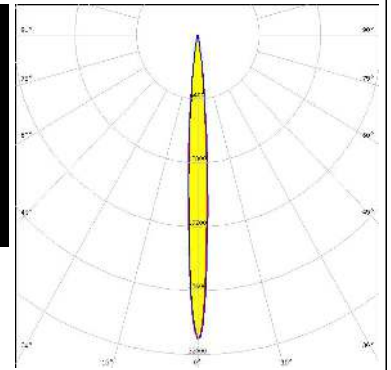
OPTICAL RESULTS (MEASURED):

SAMSUNG


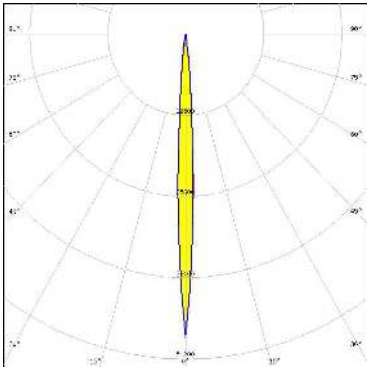

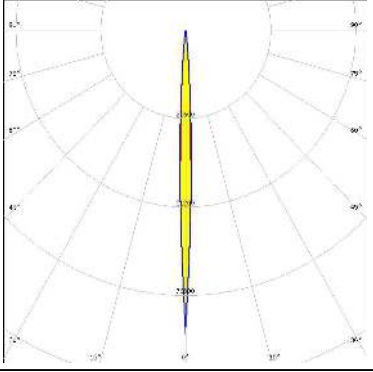

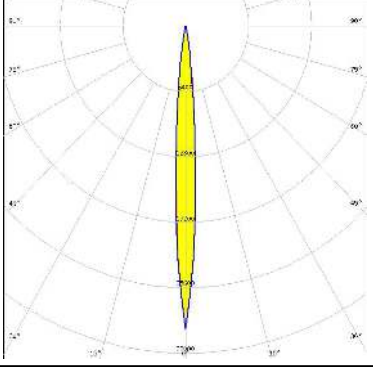

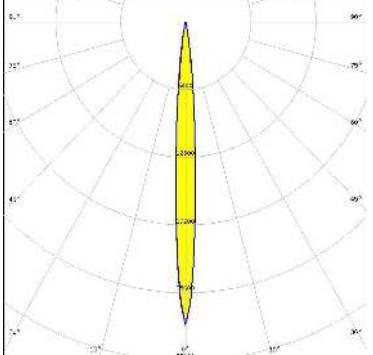
LED LH351Z
 FWHM / FWTM 7.0° / 15.0°
 Efficiency 89 %
 Peak intensity 48.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED Z5M3
 FWHM / FWTM 7.0° / 16.0°
 Efficiency 92 %
 Peak intensity 30 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



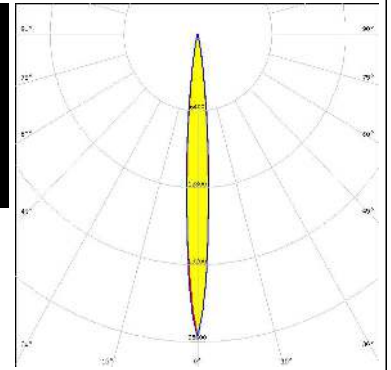
OPTICAL RESULTS (SIMULATED):

	<p>LED: XD16 FWHM / FWTM: 6.0° / 14.0° Efficiency: 91 % Peak intensity: 47.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XE-G FWHM / FWTM: 4.0° / 10.0° Efficiency: 91 % Peak intensity: 87.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-G2 HE FWHM / FWTM: 8.0° / 18.0° Efficiency: 92 % Peak intensity: 29.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-G3 FWHM / FWTM: 7.7° / 18.0° Efficiency: 91 % Peak intensity: 28.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

CREE LED

LED XP-L HD
 FWHM / FWTM 8.6° / 19.0°
 Efficiency 93 %
 Peak intensity 25.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

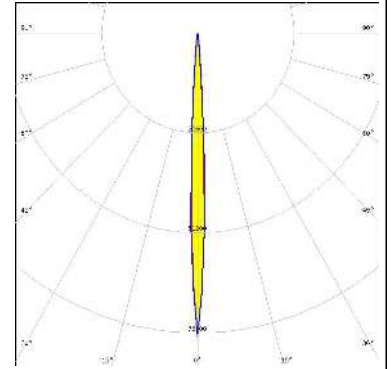


CREE LED

LED XQ-E HD
 FWHM / FWTM 5.0° / 11.5°
 Efficiency 93 %
 Peak intensity 80 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

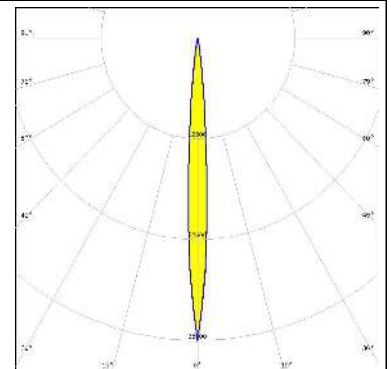
CREE LED

LED XQ-E HD
 FWHM / FWTM 5.3° / 11.0°
 Efficiency 94 %
 Peak intensity 77.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

LED LUXEON H50-2
 FWHM / FWTM 7.0° / 15.0°
 Efficiency 94 %
 Peak intensity 38.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON SunPlus 20 Line (150 deg)</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 42.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON SunPlus 35 Line</p> <p>FWHM / FWTM 6.0° / 15.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 49.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED SST-10-B130</p> <p>FWHM / FWTM 6.0° / 13.0°</p> <p>Efficiency 94 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	
<p>LUMINUS</p> <p>LED SST-20</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 48.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

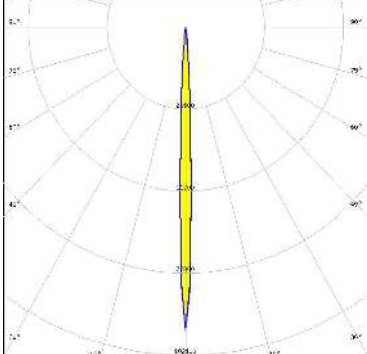
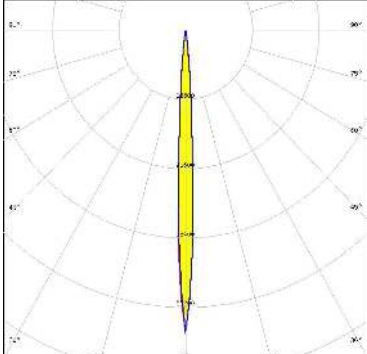
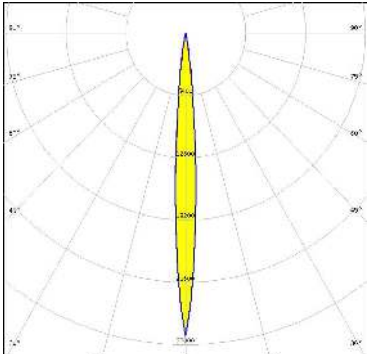
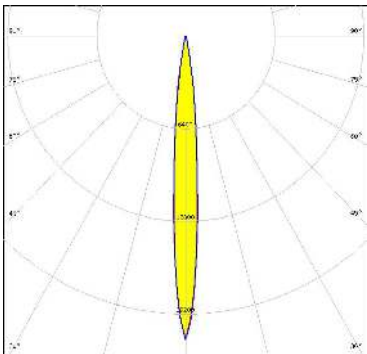
OPTICAL RESULTS (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 48.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Yellow</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 4.0° / 12.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 72.5 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 Duris S5 (Single chip)</p> <p>FWHM / FWTM 4.0° / 12.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 74.7 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 OSCONIQ P 3737 (2W version)</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 46.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Black Flat (LUW HWQP)</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 48.9 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 OSLON Black Flat (LUW HWQP)</p> <p>FWHM / FWTM 4.2° / 10.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 92 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 OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 6.4° / 14.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 48.3 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 OSTAR Projection Compact (KW.CSLNM1.TG)</p> <p>FWHM / FWTM 6.0° / 12.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 76.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED: OSTAR Projection Compact (KW.CSLNM1.TG)</p> <p>FWHM / FWTM: 4.0° / 10.0°</p> <p>Efficiency: 93 %</p> <p>Peak intensity: 94.8 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 4716AS</p> <p>FWHM / FWTM: 6.0° / 12.0°</p> <p>Efficiency: 94 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: IR</p> <p>Required components:</p>	
<p>SAMSUNG</p> <p>LED: LH351C</p> <p>FWHM / FWTM: 8.0° / 18.0°</p> <p>Efficiency: 93 %</p> <p>Peak intensity: 31.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>SAMSUNG</p> <p>LED: LH351D</p> <p>FWHM / FWTM: 9.3° / 21.0°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 21 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):



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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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