

## IRIS

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

### TECHNICAL SPECIFICATIONS:

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

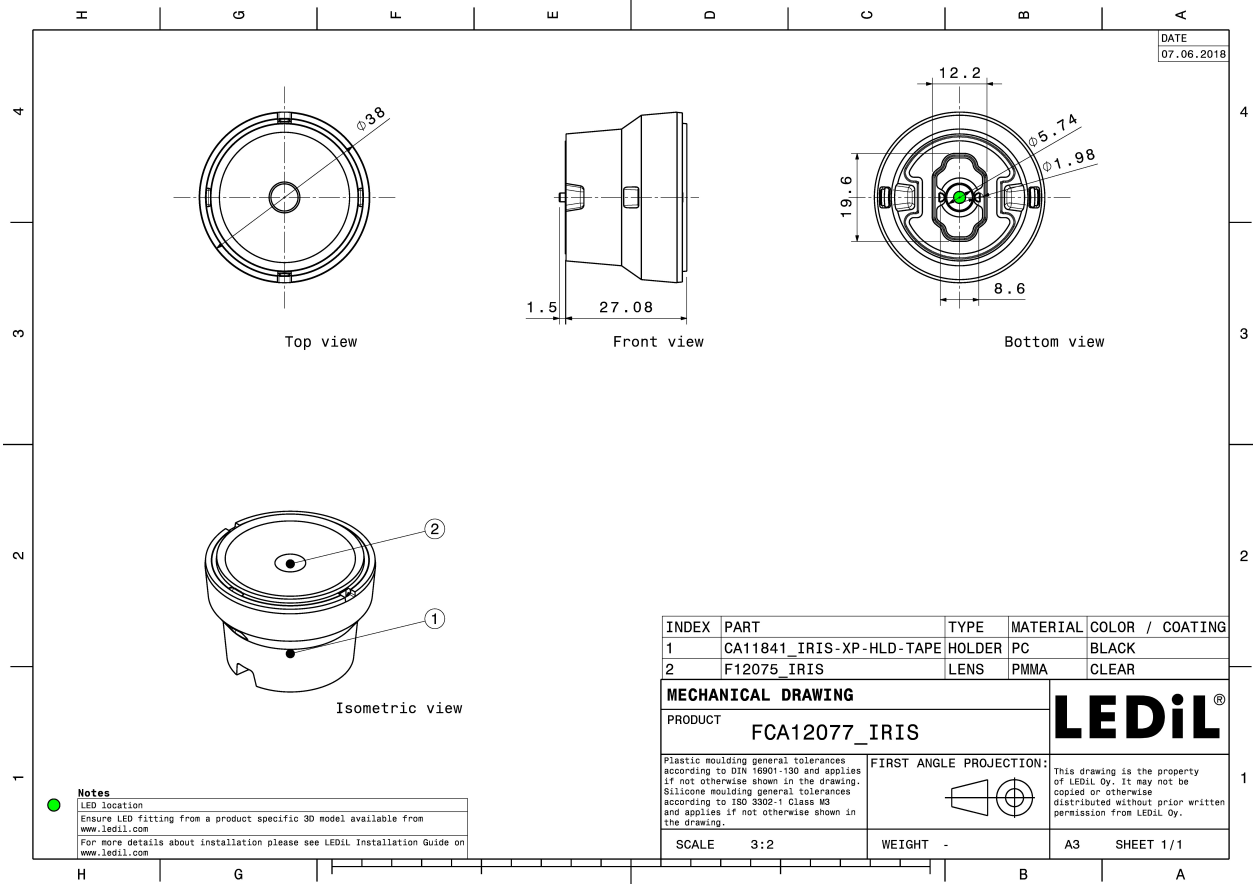


### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:

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

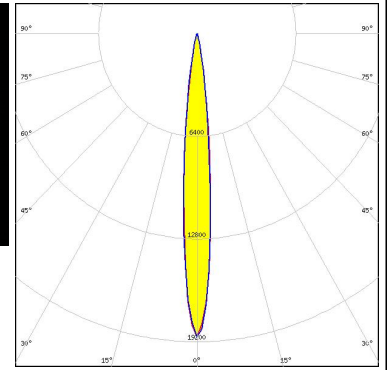


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

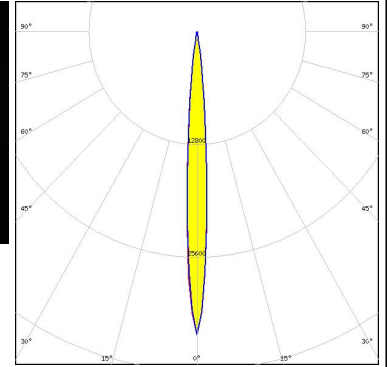
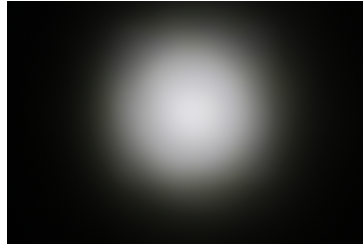
##### CREE LED

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:



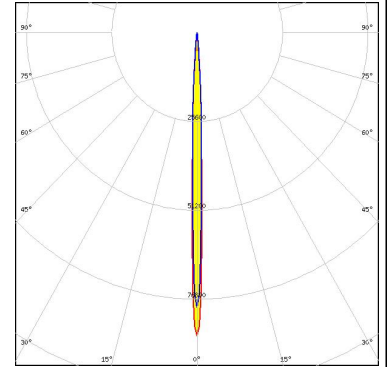
##### CREE LED

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:



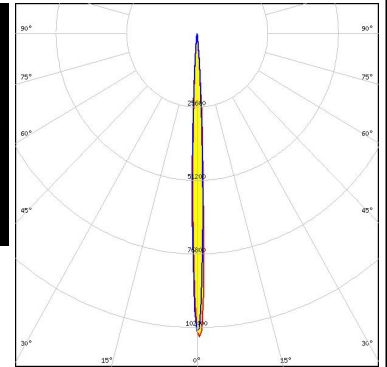
##### CREE LED

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:


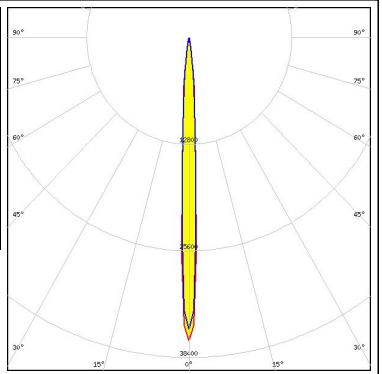

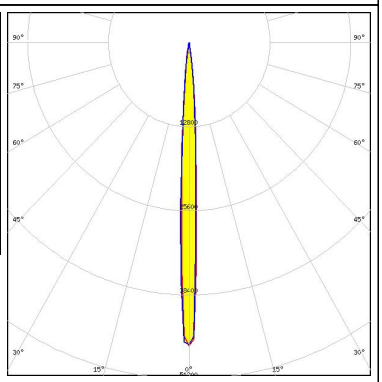

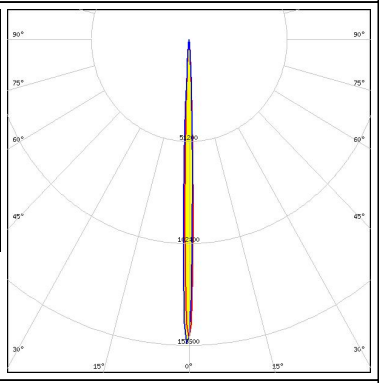

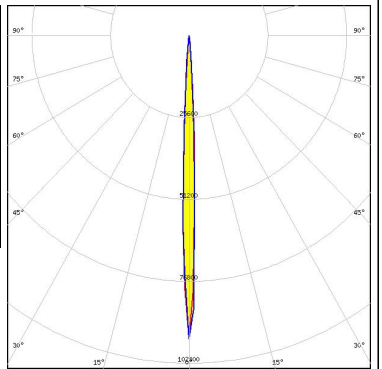


##### CREE LED


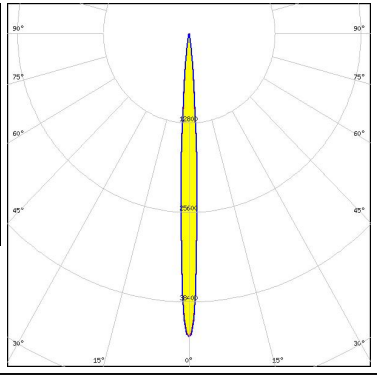
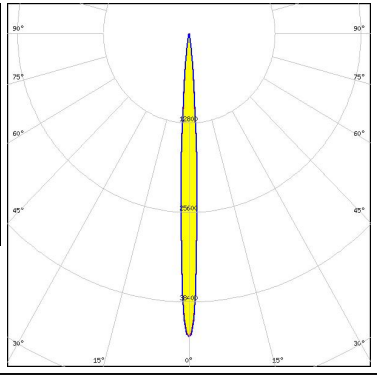
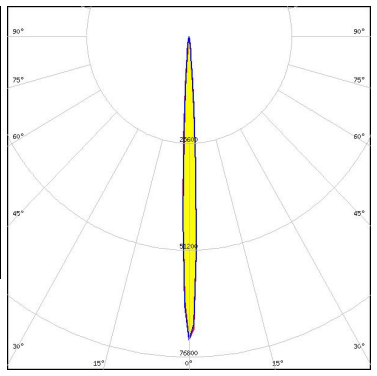
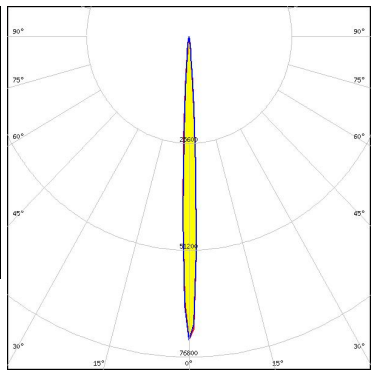
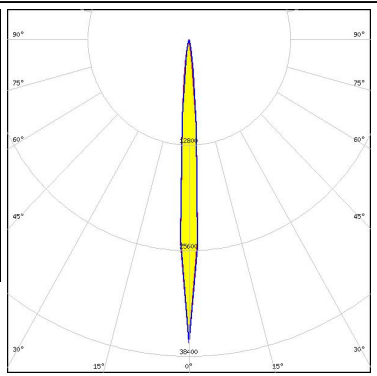
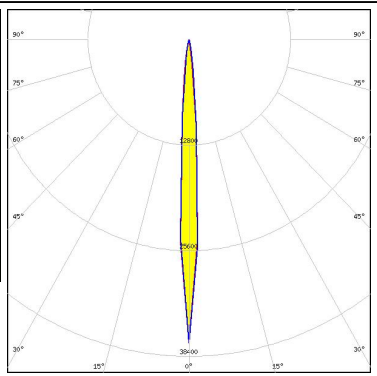
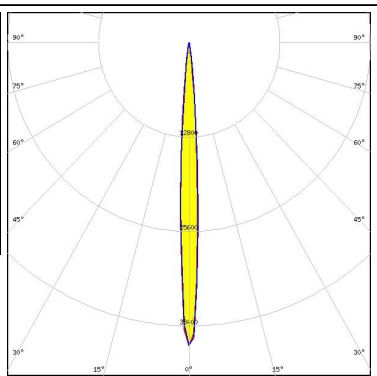
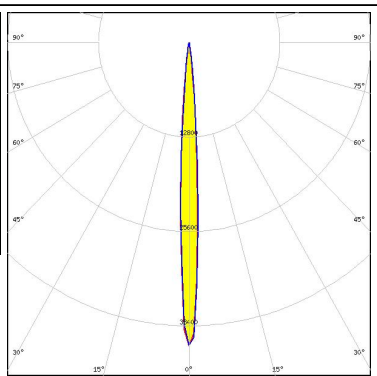
LED XP-E2  
 FWHM / FWTM 5.0° / 9.0°  
 Efficiency 93 %  
 Peak intensity 103.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



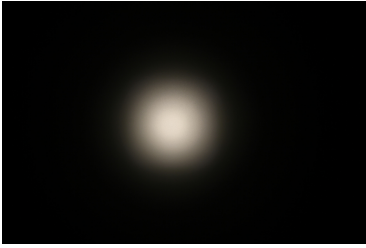
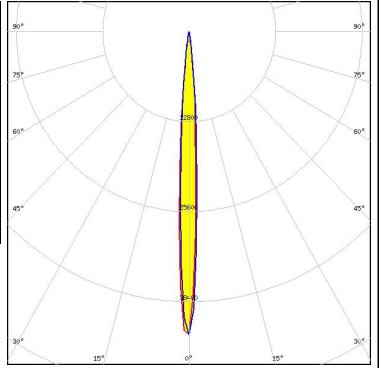
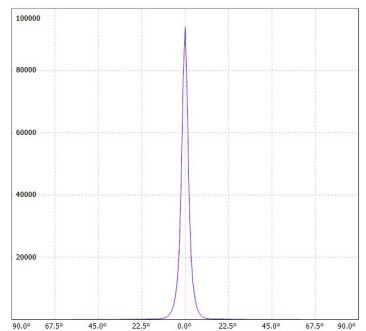
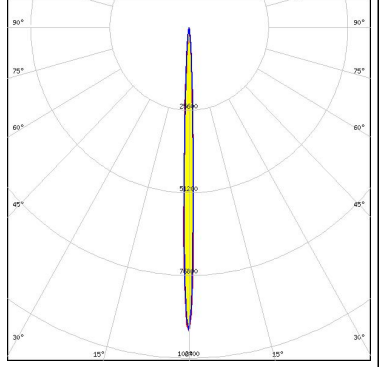
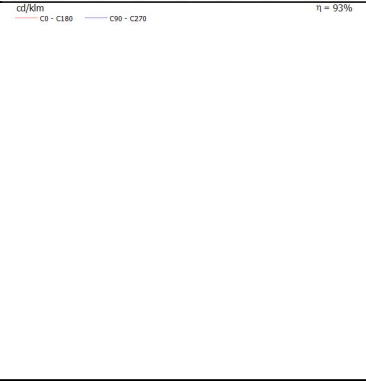
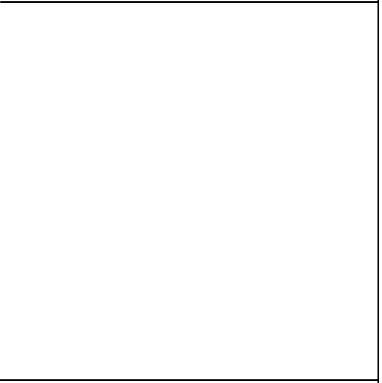

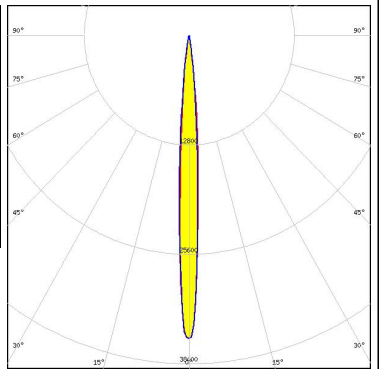
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> ⇄ <b>LED</b></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><b>CREE</b> ⇄ <b>LED</b></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><b>CREE</b> ⇄ <b>LED</b></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><b>CREE</b> ⇄ <b>LED</b></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>		

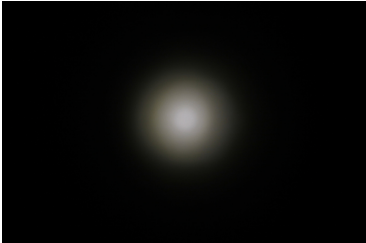
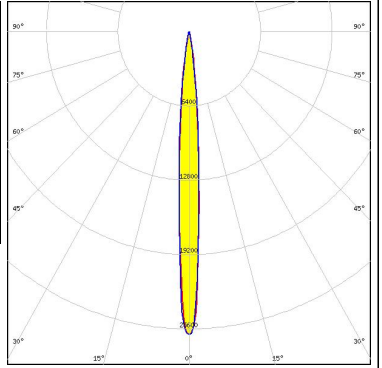

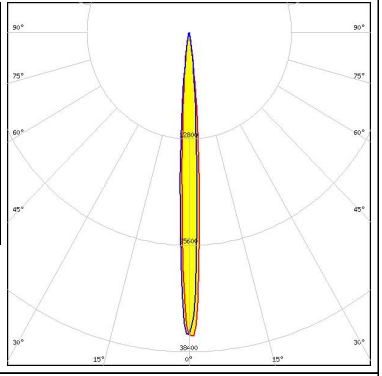

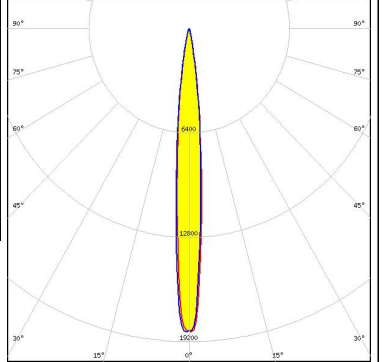
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b>  LED</p> <p>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:</p>		
<p><b>LUMILEDS</b></p> <p>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:</p>		
<p><b>LUMILEDS</b></p> <p>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:</p>		
<p><b>LUMILEDS</b></p> <p>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:</p>		

### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON TX</p> <p>FWHM / FWTM 6.9° / 15.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 43.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 4.0° / 9.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 94.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	<p>Luminaire: LEDiL Oy FCA12077_IRIS_Z_ES Lamps: 1 x Philips Lumileds Luxeon Z ES (LX22-5070) _S4_6528lm@250mA_P=0.7304E3W_P=248 mA</p> 	
<p><b>NICHIA</b></p> <p>LED NCSxx19A</p> <p>FWHM / FWTM 5.0° / 11.0°</p> <p>Efficiency %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW219F</p> <p>FWHM / FWTM 7.0° / 16.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 35.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

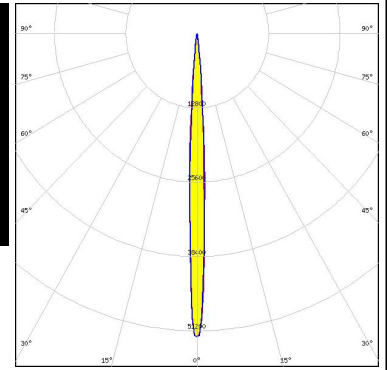
<p><b>NICHIA</b></p> <p>LED NVSW3x9A</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 26.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19A</p> <p>FWHM / FWTM 6.0° / 14.0°</p> <p>Efficiency 93 %</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><b>NICHIA</b></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>		
<p><b>NICHIA</b></p> <p>LED NWSx229A</p> <p>FWHM / FWTM 10.0° / 21.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 18.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

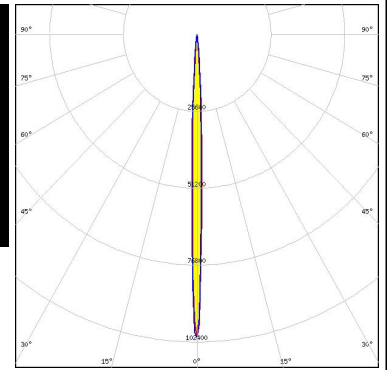
LED OSLON Square EC  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 92 %  
 Peak intensity 52 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

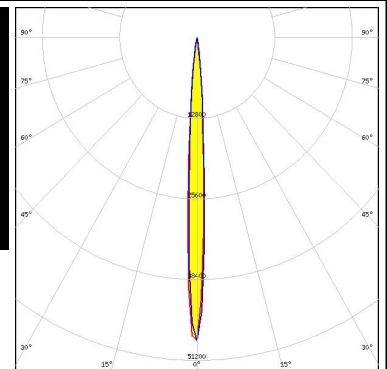
LED OSLON SSL 150  
 FWHM / FWTM 4.0° / 9.0°  
 Efficiency 94 %  
 Peak intensity 101 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

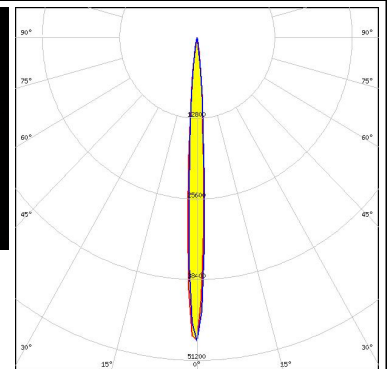
Opto Semiconductors

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:



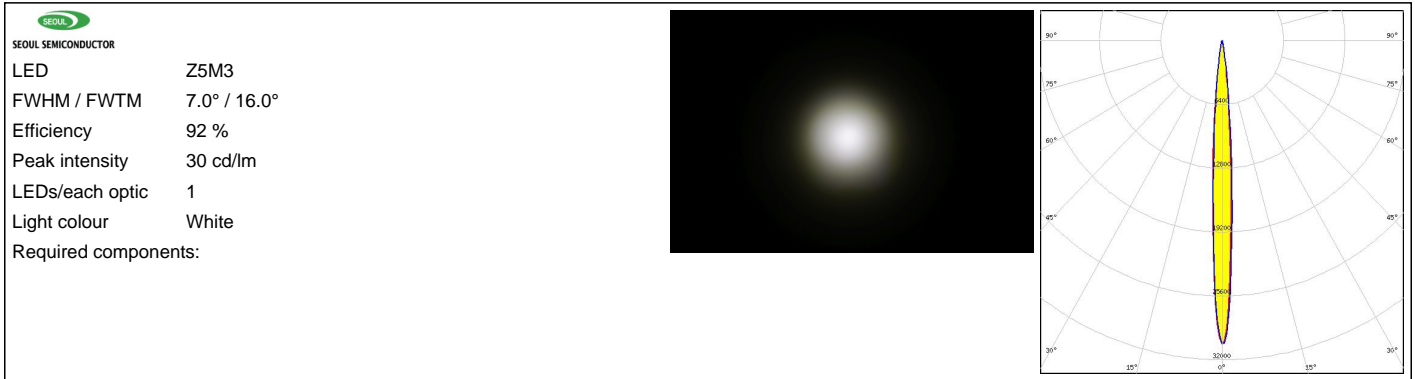
#### SAMSUNG

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:


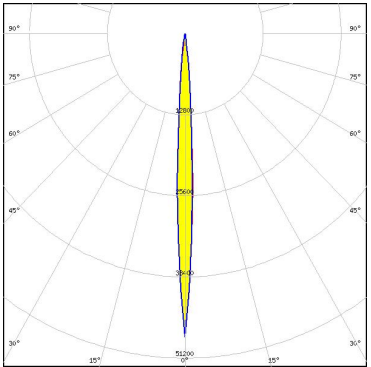

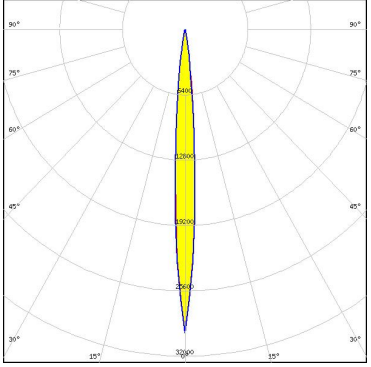

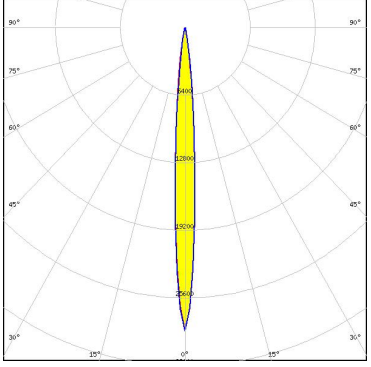

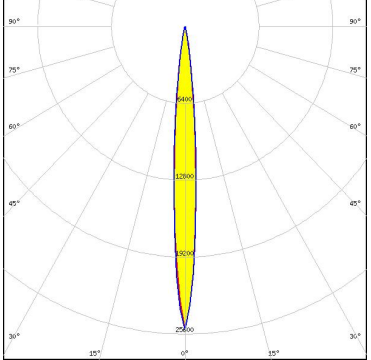





### PHOTOMETRIC DATA (MEASURED):



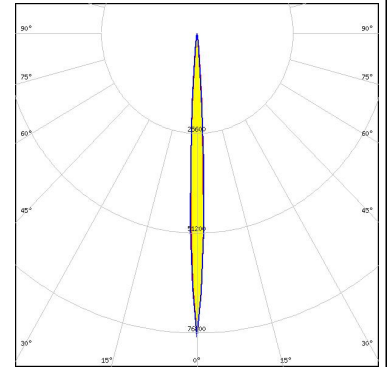
#### PHOTOMETRIC DATA (SIMULATED):

	<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: 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>	
	<p>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:</p>	 

#### PHOTOMETRIC DATA (SIMULATED):



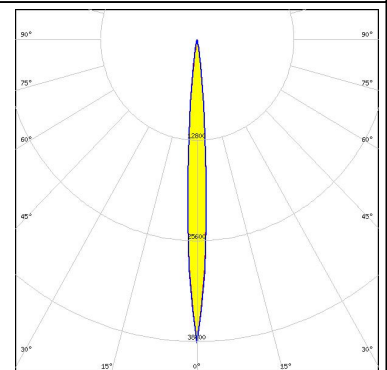
LED XQ-E HD  
 FWHM / FWTM 5.3° / 11.0°  
 Efficiency 94 %  
 Peak intensity 77.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



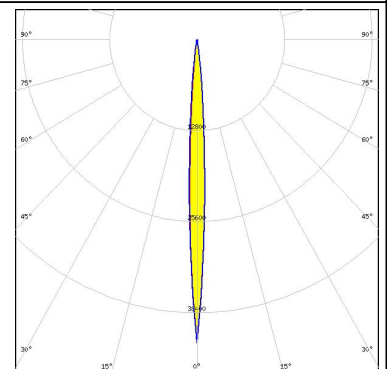
LED XQ-E HD  
 FWHM / FWTM 5.0° / 11.5°  
 Efficiency 93 %  
 Peak intensity 80 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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:



LED LUXEON SunPlus 20 Line (150 deg)  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 90 %  
 Peak intensity 42.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

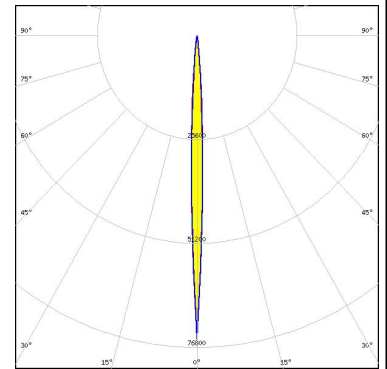
<p><b>LUMILEDS</b></p> <p>LED LUXEON SunPlus 35 Line</p> <p>FWHM / FWTM 6.0° / 15.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 49.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>	
<p><b>LUMINUS</b></p> <p>LED SST-10-B130</p> <p>FWHM / FWTM 6.0° / 13.0°</p> <p>Efficiency 94 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	
<p><b>LUMINUS</b></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>	
<p><b>OSRAM</b> Opto Semiconductors</p> <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>	

#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

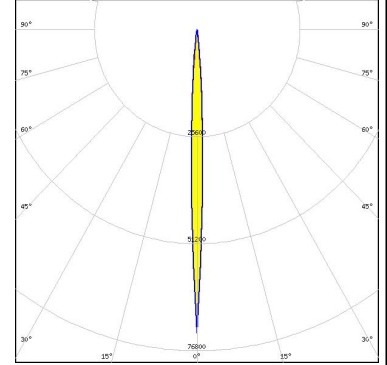
LED Duris S5 (Single chip)  
 FWHM / FWTM 4.0° / 12.0°  
 Efficiency 93 %  
 Peak intensity 74.7 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



##### OSRAM

Opto Semiconductors

LED Duris S5 (Single chip)  
 FWHM / FWTM 4.0° / 12.0°  
 Efficiency 93 %  
 Peak intensity 72.5 cd/lm  
 LEDs/each optic 1  
 Light colour Green  
 Required components:



##### OSRAM

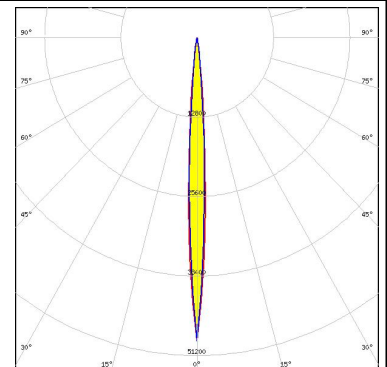
Opto Semiconductors

LED OSCONIQ P 3737 (2W version)  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 94 %  
 Peak intensity 46.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### OSRAM

Opto Semiconductors

LED OSLON Black Flat  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 94 %  
 Peak intensity 48.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLO<sup>®</sup>N Black Flat</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>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLO<sup>®</sup>N 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>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSTAR Projection Compact (Kx.CSLNM1.xx)</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>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSTAR Projection Compact (Kx.CSLNM1.xx)</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>	

### PHOTOMETRIC DATA (SIMULATED):

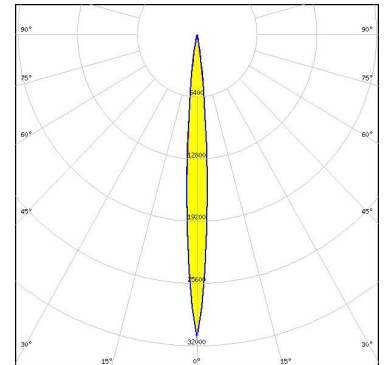
#### OSRAM

Opto Semiconductors

LED SFH 4716AS  
 FWHM / FWTM 6.0° / 12.0°  
 Efficiency 94 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:

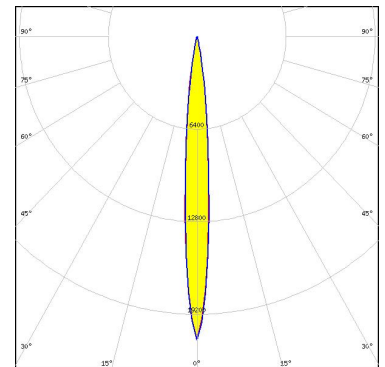
#### SAMSUNG

LED LH351C  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 93 %  
 Peak intensity 31.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



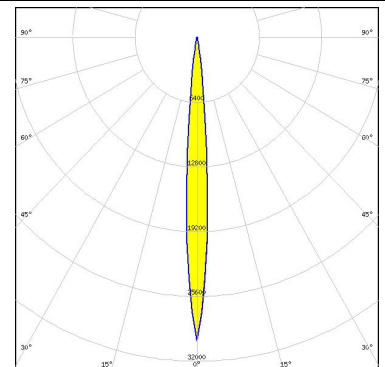
#### SAMSUNG

LED LH351D  
 FWHM / FWTM 9.3° / 21.0°  
 Efficiency 90 %  
 Peak intensity 21 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SEOUL SEMICONDUCTOR

LED Z8Y22P  
 FWHM / FWTM 8.0°  
 Efficiency 98 %  
 Peak intensity 29.9 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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