

## IRIS

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

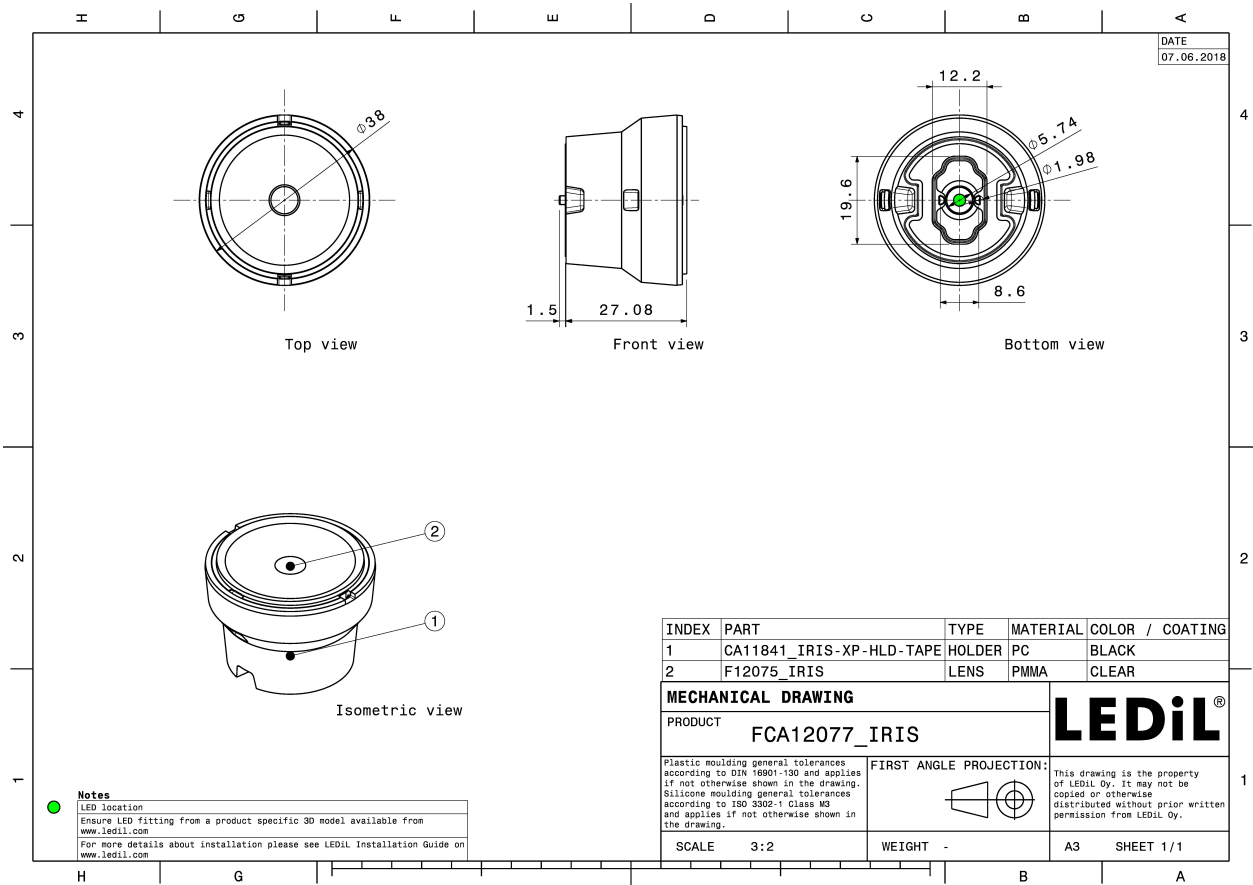
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 38.0 mm
Height	27.1 mm
Fastening	glue, tape, pin, screw
Colour	black
Box size	480 x 280 x 300 mm
Box weight	8.9 kg
Quantity in Box	378 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

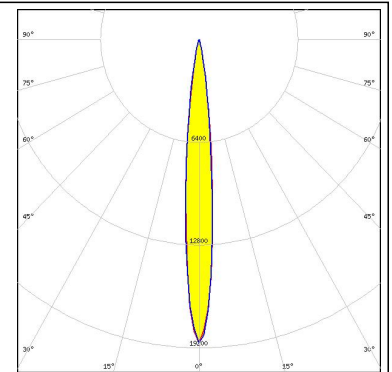
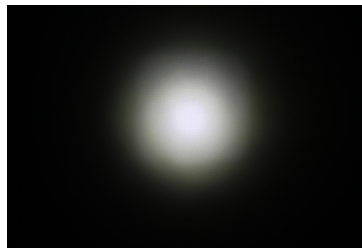
Component	Type	Material	Colour
IRIS	Single lens	PMMA	
IRIS-XP-HLD-TAPE	Assembly	PC	black



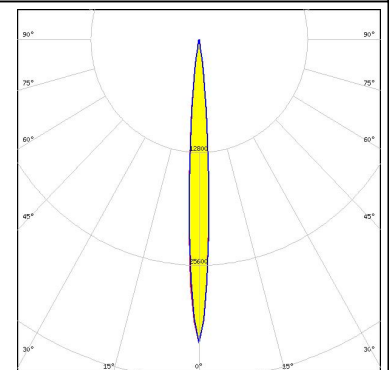
### PHOTOMETRIC DATA (MEASURED):



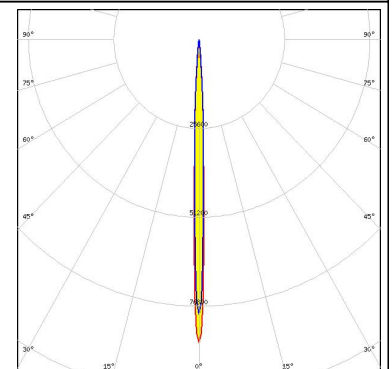
LED XHP35 HD  
 FWHM 10.0°  
 Efficiency 89 %  
 Peak intensity 18.560 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



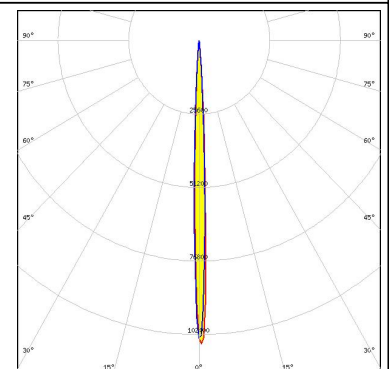
LED XHP35 HI  
 FWHM 7.6°  
 Efficiency 90 %  
 Peak intensity 35.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-E  
 FWHM 4.0°  
 Efficiency 93 %  
 Peak intensity 87.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



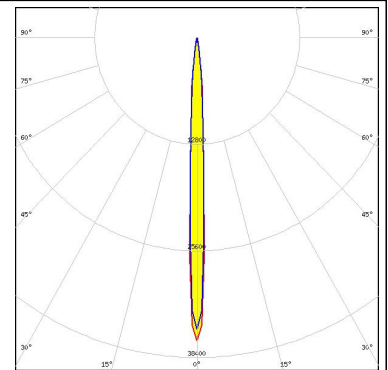
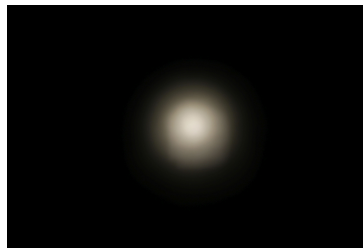
LED XP-E2  
 FWHM 5.0°  
 Efficiency 93 %  
 Peak intensity 103.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

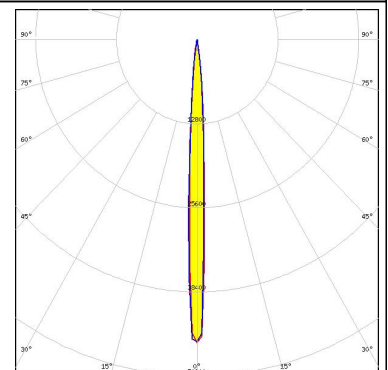
**CREE** 

LED XP-G  
FWHM 6.0°  
Efficiency 94 %  
Peak intensity 46.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



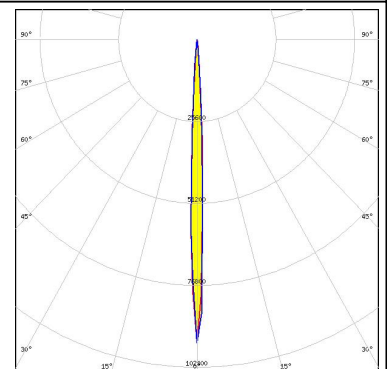
**CREE** 

LED XP-G2  
FWHM 6.0°  
Efficiency 95 %  
Peak intensity 46.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



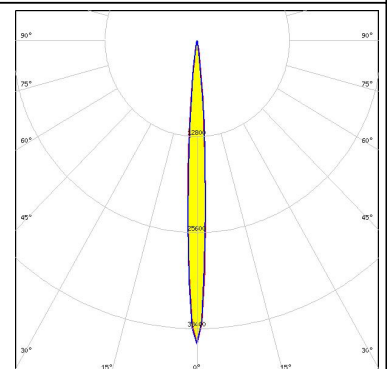
**CREE** 

LED XQ-E HI  
FWHM 3.9°  
Efficiency 88 %  
Peak intensity 123.300 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



 **LG Innotek**

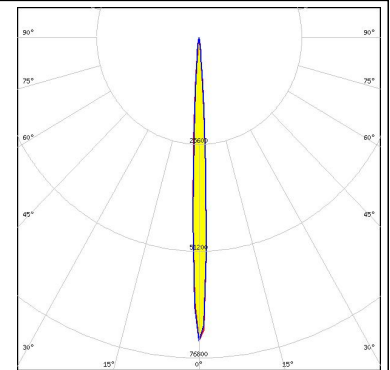
LED H35C1 (LEMWA33)  
FWHM 8.0°  
Efficiency 89 %  
Peak intensity 40.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (MEASURED):

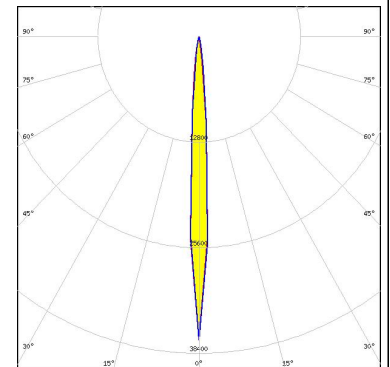
#### LUMILEDS

LED LUXEON Rebel  
FWHM 5.0°  
Efficiency %  
Peak intensity 75.600 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



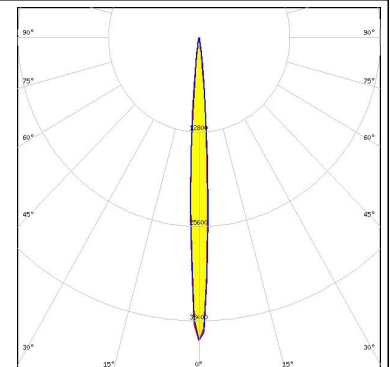
#### LUMILEDS

LED LUXEON Rebel ES  
FWHM 7.0°  
Efficiency 93 %  
Peak intensity 38.500 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



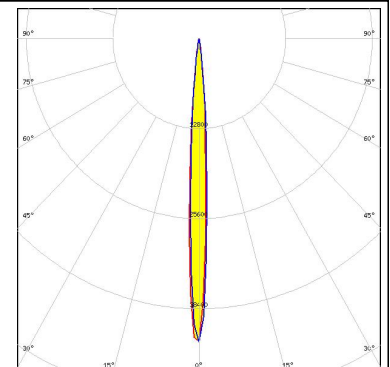
#### LUMILEDS

LED LUXEON T  
FWHM 7.0°  
Efficiency 94 %  
Peak intensity 40.200 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:

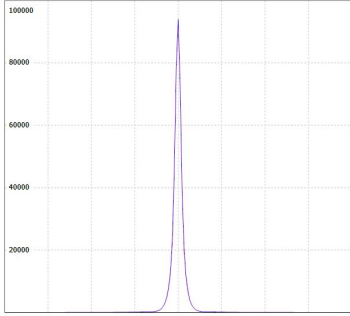
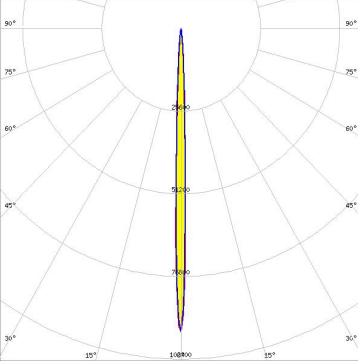

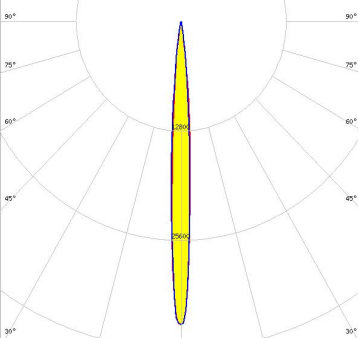

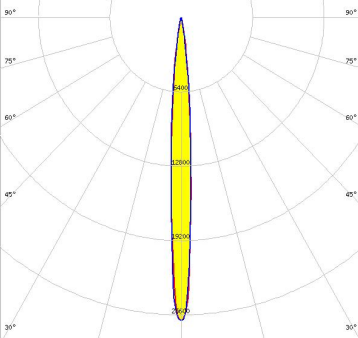


#### LUMILEDS

LED LUXEON TX  
FWHM 6.9°  
Efficiency 89 %  
Peak intensity 43.100 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES            FWHM 4.0°            Efficiency 93 %            Peak intensity 94.060 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	<p>Luminaire: LEDiL Oy FCA12077_IRIS (2 ES)            Lamps: 1 x Philips Lumileds Luxeon Z ES (8X22-6070)            84.6528mm@250mA, P=0.730483W, P=249.9mA</p>  <p>cd/lm C0 - C180 C90 - C270 <math>\eta = 93\%</math></p>	
<p><b>NICHIA</b></p> <p>LED NCSxx19A            FWHM 5.0°            Efficiency %            Peak intensity cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW219F            FWHM 7.0°            Efficiency 94 %            Peak intensity 35.700 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW3x9A            FWHM 8.0°            Efficiency 89 %            Peak intensity 26.300 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

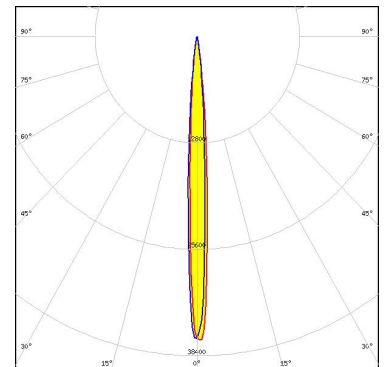
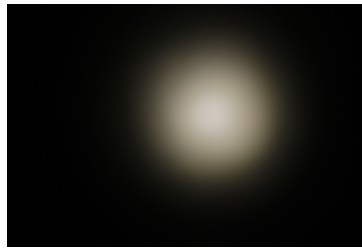
#### PHOTOMETRIC DATA (MEASURED):



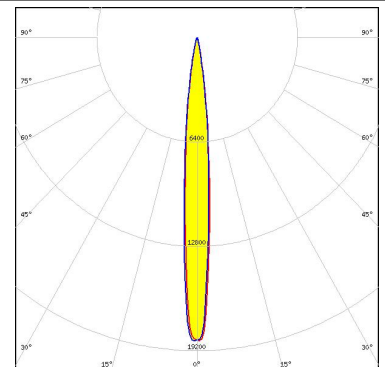
**LED** NVSxx19A  
**FWHM** 6.0°  
**Efficiency** 93 %  
**Peak intensity** 38.700 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



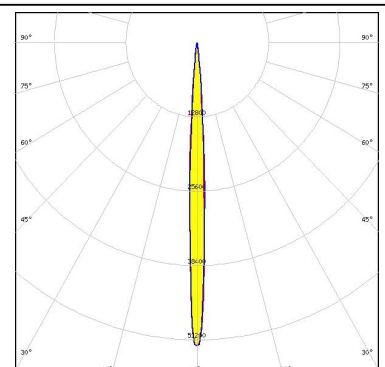
**LED** NVSxx19B/NVSxx19C  
**FWHM** 7.0°  
**Efficiency** 92 %  
**Peak intensity** 36.600 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** NWSx229A  
**FWHM** 10.0°  
**Efficiency** 91 %  
**Peak intensity** 18.600 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



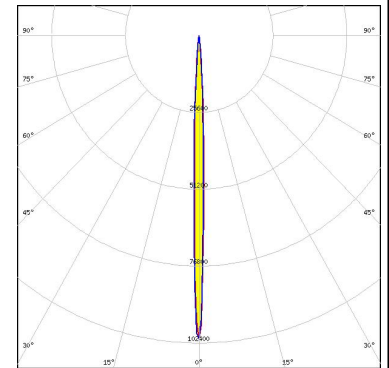
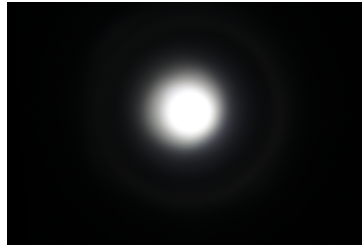
**LED** OSLOM Square EC  
**FWHM** 6.0°  
**Efficiency** 92 %  
**Peak intensity** 52.000 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



### PHOTOMETRIC DATA (MEASURED):

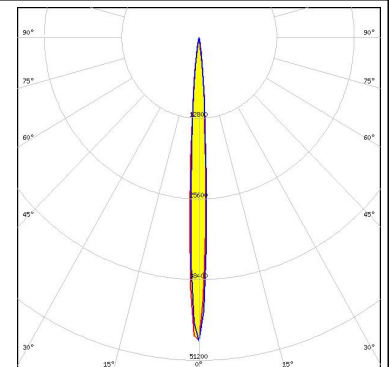
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM 4.0°  
Efficiency 94 %  
Peak intensity 101.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



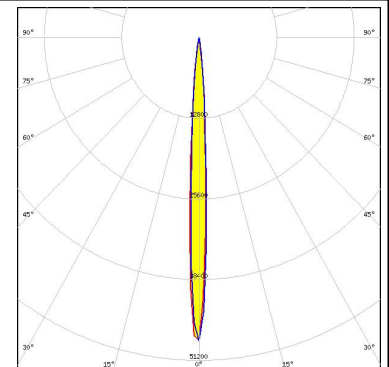
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM 4.0°  
Efficiency 90 %  
Peak intensity 89.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**SAMSUNG**

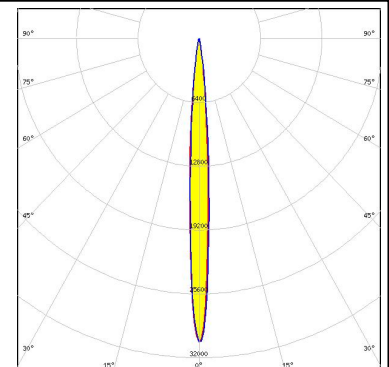
LED LH351Z  
FWHM 7.0°  
Efficiency 89 %  
Peak intensity 48.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**SEOL**

SEOUL SEMICONDUCTOR

LED Z5M3  
FWHM 7.0°  
Efficiency 92 %  
Peak intensity 30.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

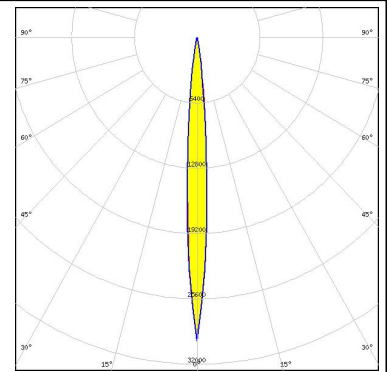




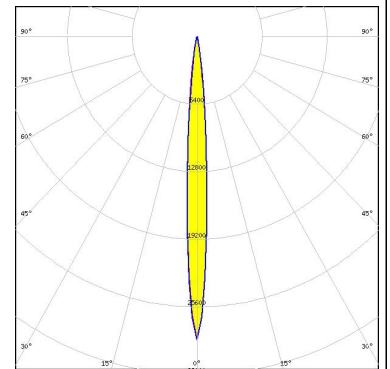
### PHOTOMETRIC DATA (SIMULATED):



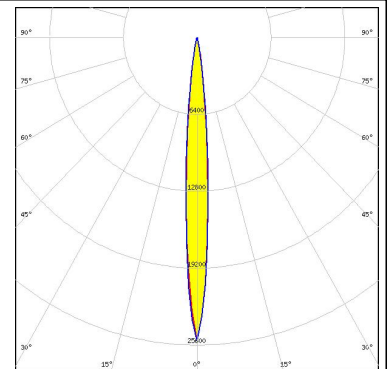
LED XP-G2 HE  
 FWHM 8.0°  
 Efficiency 92 %  
 Peak intensity 29.716 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-G3  
 FWHM 7.7°  
 Efficiency 91 %  
 Peak intensity 28.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-L HD  
 FWHM 8.6°  
 Efficiency 93 %  
 Peak intensity 25.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

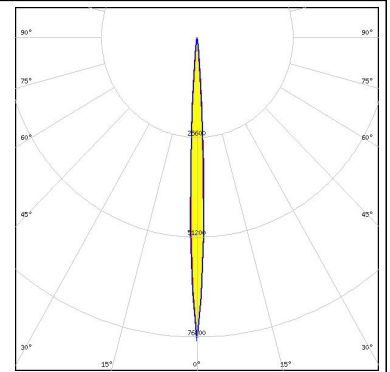


LED XQ-E HD  
 FWHM 5.0°  
 Efficiency 93 %  
 Peak intensity 80.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

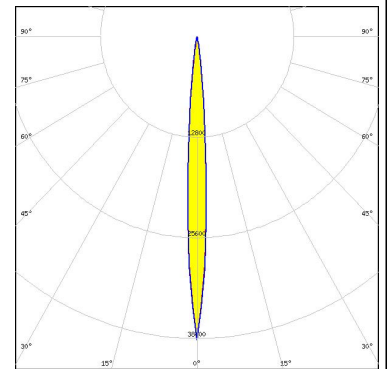
### PHOTOMETRIC DATA (SIMULATED):



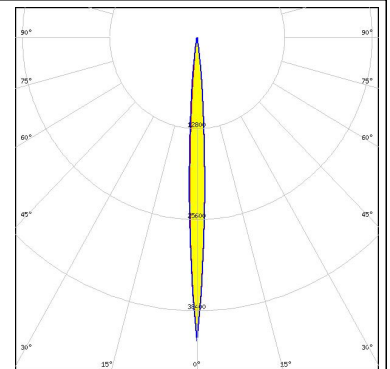
**LED** XQ-E HD  
**FWHM** 5.3°  
**Efficiency** 94 %  
**Peak intensity** 77.800 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



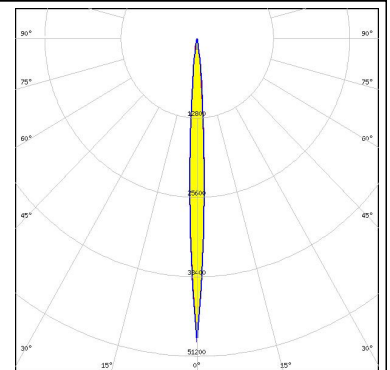
**LED** LUXEON H50-2  
**FWHM** 7.0°  
**Efficiency** 94 %  
**Peak intensity** 38.600 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON SunPlus 20 Line (150 deg)  
**FWHM** 6.0°  
**Efficiency** 90 %  
**Peak intensity** 42.650 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON SunPlus 35 Line  
**FWHM** 6.0°  
**Efficiency** 94 %  
**Peak intensity** 49.910 cd/lm  
**LEDs/each optic** 1  
**Light colour** Blue  
**Required components:**



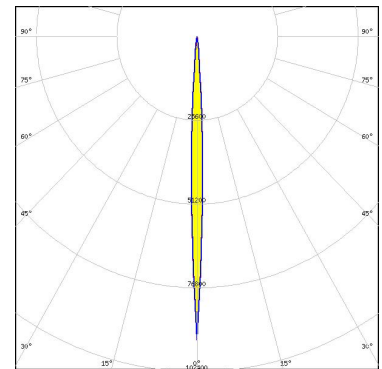
### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)  
 FWHM 6.0°  
 Efficiency 94 %  
 Peak intensity 46.192 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

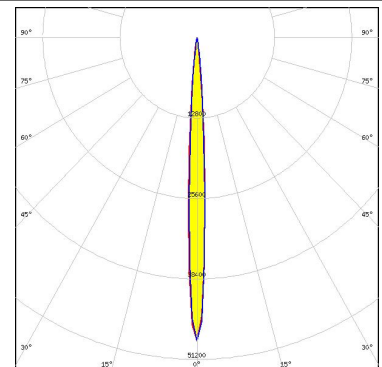
#### OSRAM Opto Semiconductors

LED OSLON Black Flat  
 FWHM 4.2°  
 Efficiency 94 %  
 Peak intensity 92.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



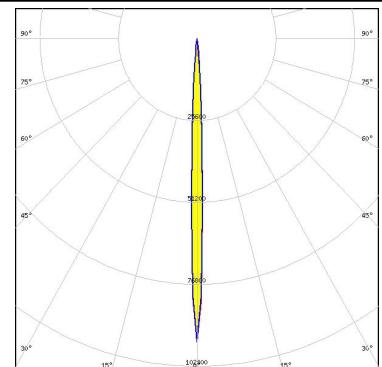
#### OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM 6.4°  
 Efficiency 94 %  
 Peak intensity 48.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)  
 FWHM 4.0°  
 Efficiency 93 %  
 Peak intensity 94.778 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



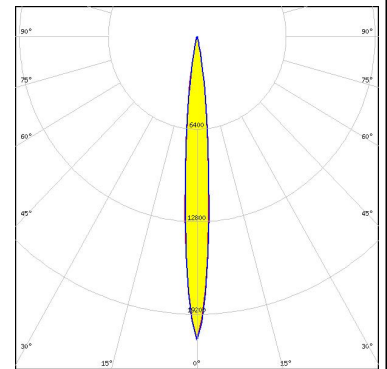
### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM Opto Semiconductors

LED SFH 4716AS  
FWHM 6.0°  
Efficiency 94 %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour IR  
Required components:

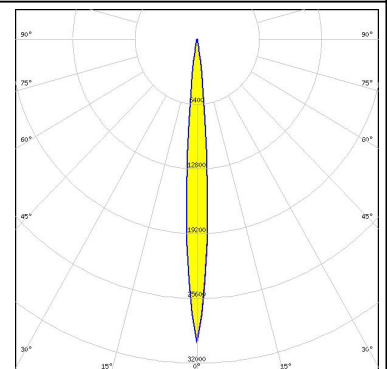
#### SAMSUNG

LED LH351D  
FWHM 9.3°  
Efficiency 90 %  
Peak intensity 20.970 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SEOL SEOUL SEMICONDUCTOR

LED Z8Y22P  
FWHM 8.0°  
Efficiency 98 %  
Peak intensity 29.900 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:

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:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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### LEDiL Oy

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### Local sales and technical support

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where\\_to\\_buy](http://www.ledil.com/where_to_buy)

### Shipping locations

Salo, Finland  
Hong Kong, China

### Distribution Partners

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