

## 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 ⓘ

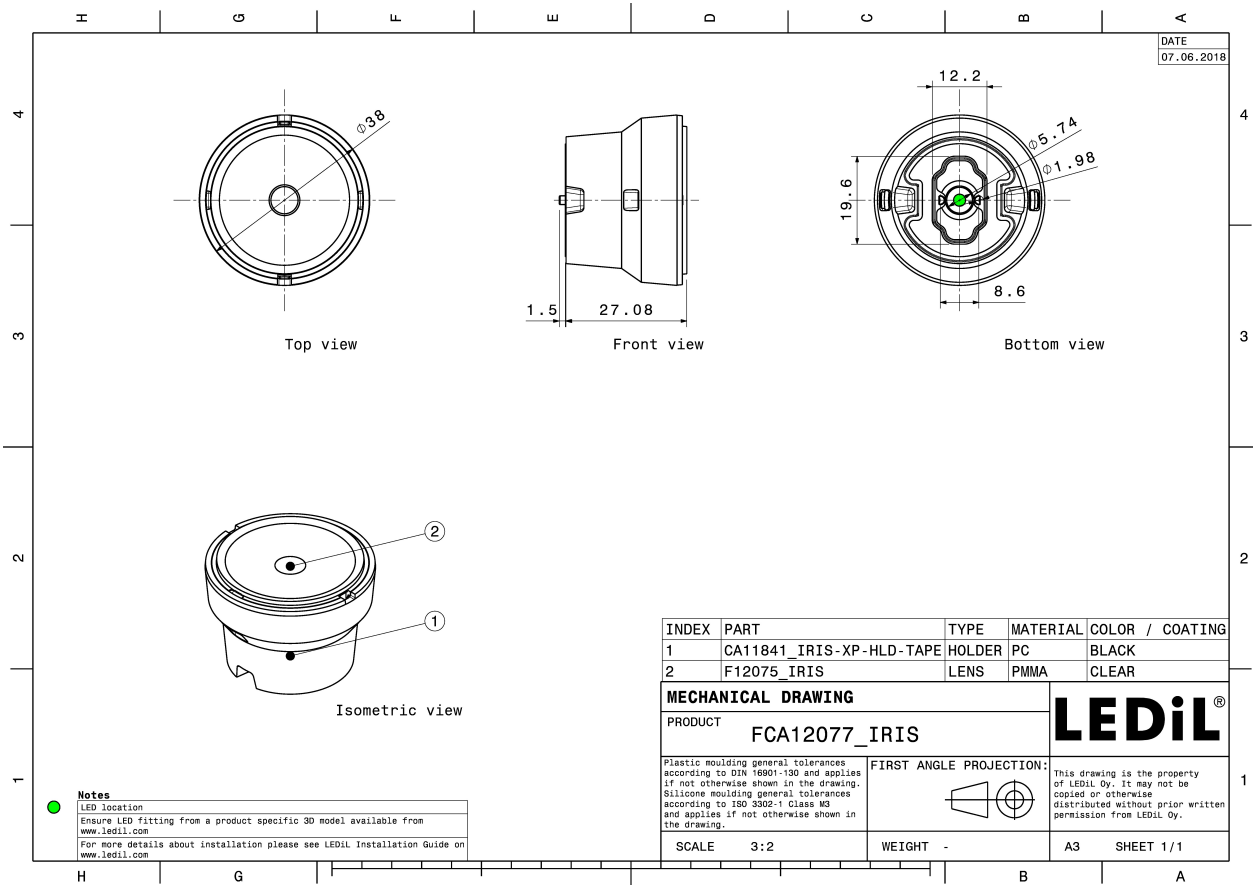
### MATERIAL SPECIFICATIONS:

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					

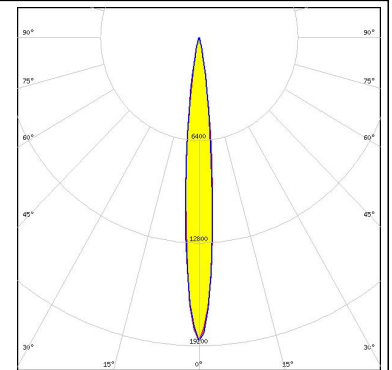
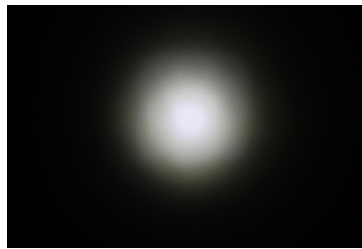




### PHOTOMETRIC DATA (MEASURED):

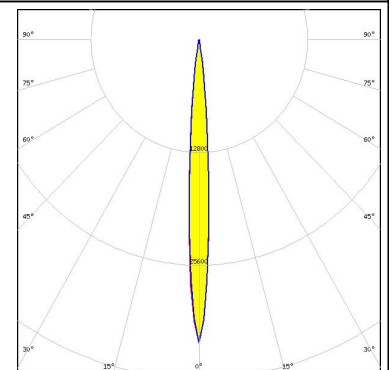
#### CREE

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



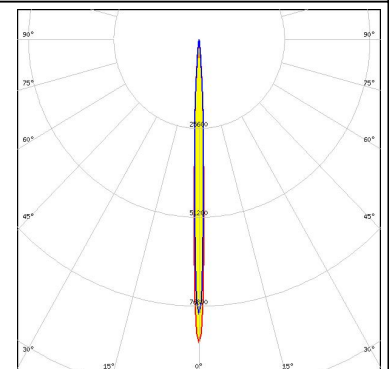
#### CREE

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



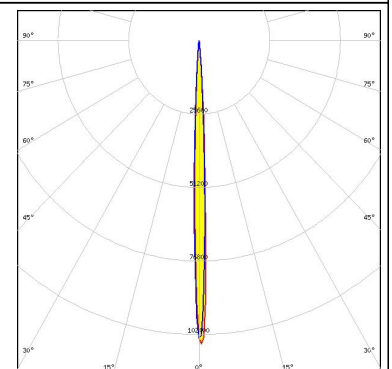
#### CREE

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



#### CREE

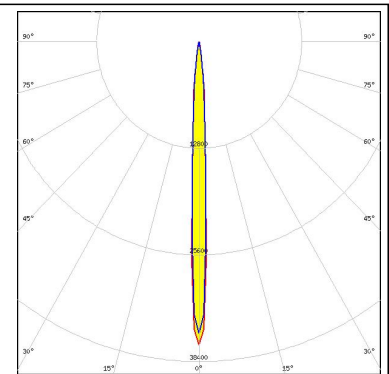
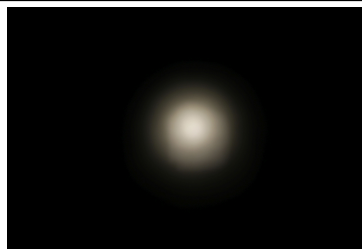
LED XP-E2  
 FWHM 5.0°  
 Efficiency 93 %  
 Peak intensity 103.9 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:



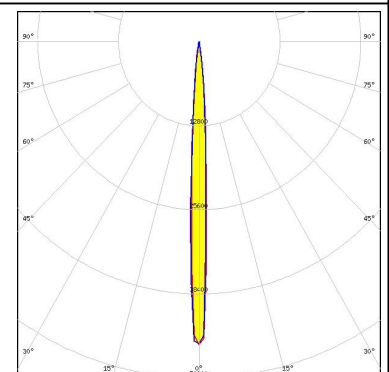
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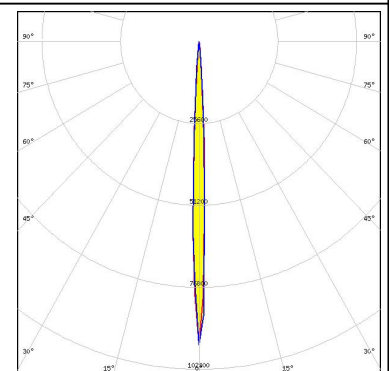
LED XP-G  
 FWHM 6.0°  
 Efficiency 94 %  
 Peak intensity 46.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



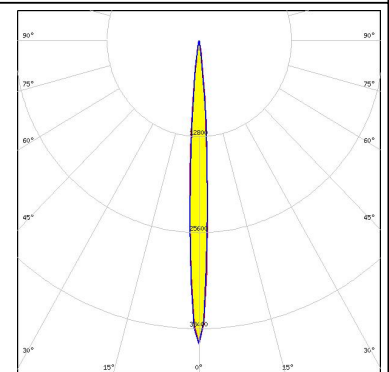
LED XP-G2  
 FWHM 6.0°  
 Efficiency 95 %  
 Peak intensity 46 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HI  
 FWHM 3.9°  
 Efficiency 88 %  
 Peak intensity 123.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



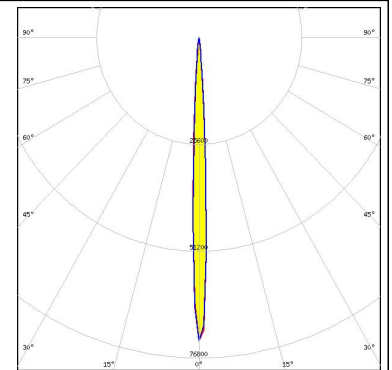
LED H35C1 (LEMWA33)  
 FWHM 8.0°  
 Efficiency 89 %  
 Peak intensity 40.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

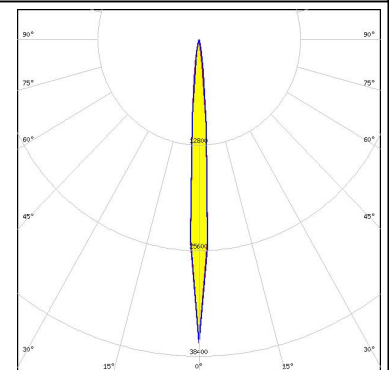
#### LUMILEDS

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



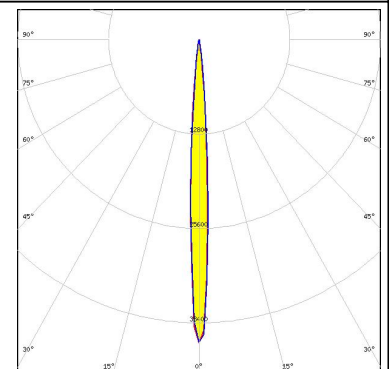
#### LUMILEDS

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



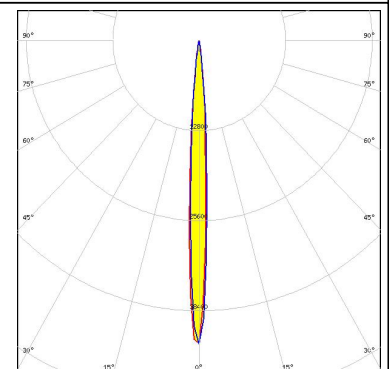
#### LUMILEDS

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

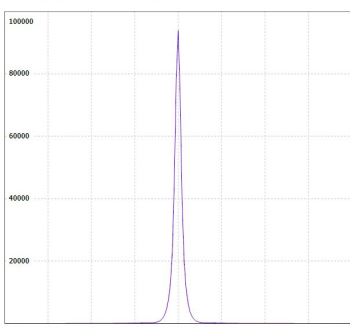
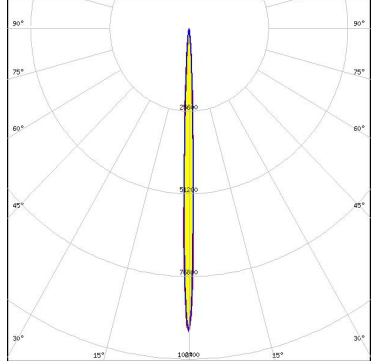
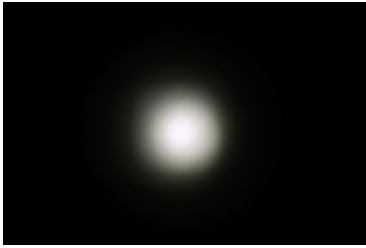
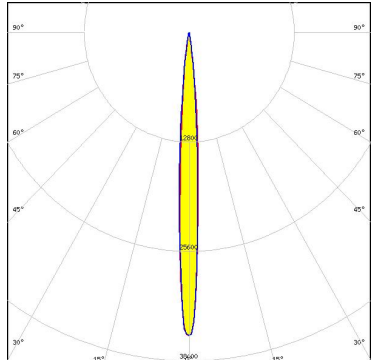

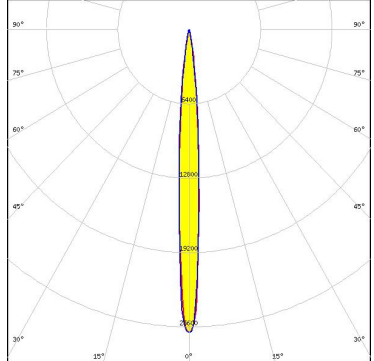


#### LUMILEDS

LED LUXEON TX  
 FWHM 6.9°  
 Efficiency 89 %  
 Peak intensity 43.1 cd/Im  
 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 94.1 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 (8XZ2-6070)            84.6528mm@250mA, P=0.730483W, I=249.9mA</p>  <p>cd/km C0 - C180 C90 - C270 <math>\eta = 93\%</math></p>	
<p><b>NICHIA</b></p> <p>LED NCSxx19A            FWHM 5.0°            Efficiency %            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 35.7 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 26.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

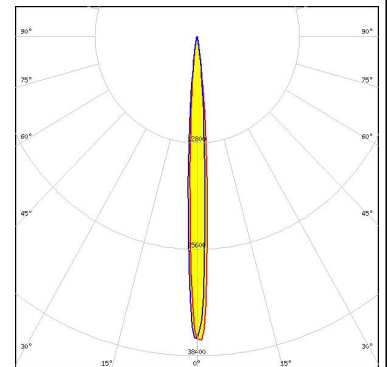
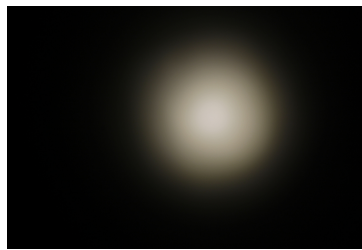
#### PHOTOMETRIC DATA (MEASURED):



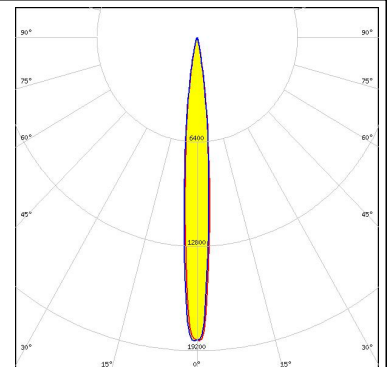
LED NVSxx19A  
 FWHM 6.0°  
 Efficiency 93 %  
 Peak intensity 38.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



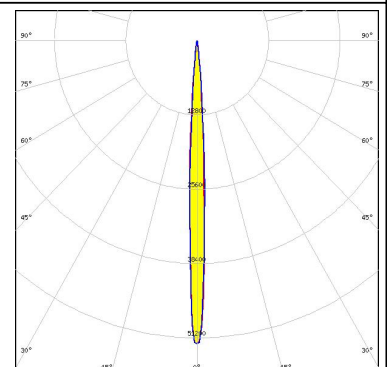
LED NVSxx19B/NVSxx19C  
 FWHM 7.0°  
 Efficiency 92 %  
 Peak intensity 36.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NWSx229A  
 FWHM 10.0°  
 Efficiency 91 %  
 Peak intensity 18.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



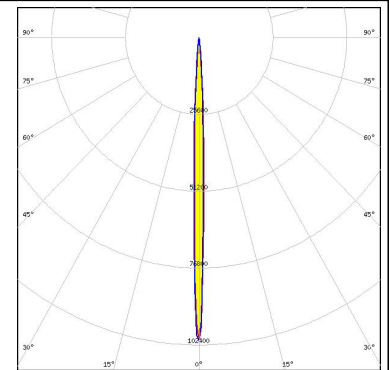
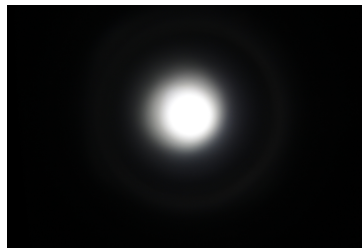
LED OSLOM Square EC  
 FWHM 6.0°  
 Efficiency 92 %  
 Peak intensity 52 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

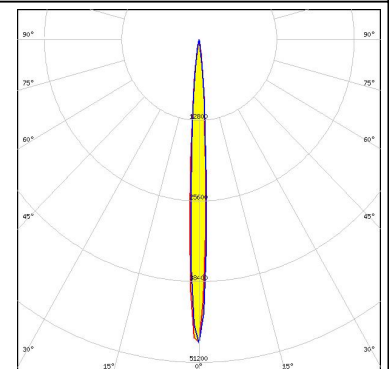
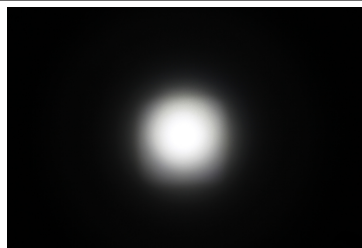
**OSRAM**  
Opto Semiconductors

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



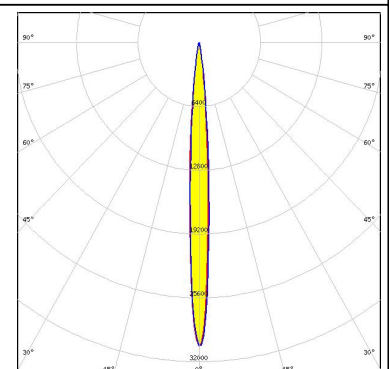
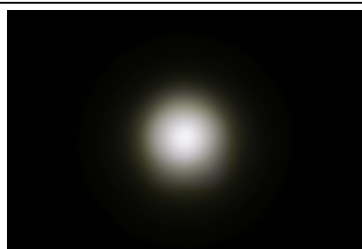
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM 4.0°  
Efficiency 90 %  
Peak intensity 89 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**SAMSUNG**

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



**SEOL**

SEOUL SEMICONDUCTOR

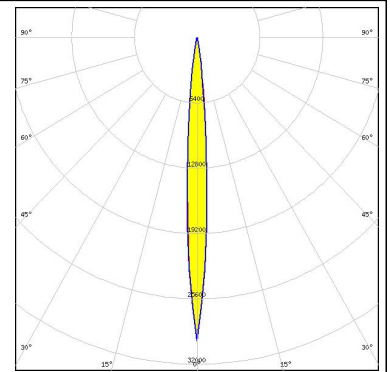
LED Z5M3  
FWHM 7.0°  
Efficiency 92 %  
Peak intensity 30 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



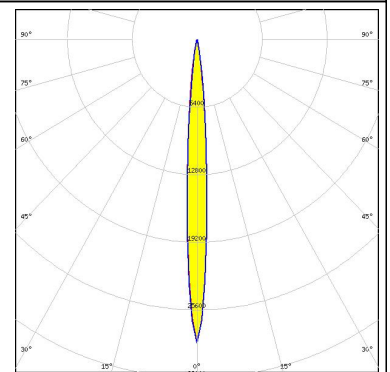
### PHOTOMETRIC DATA (SIMULATED):



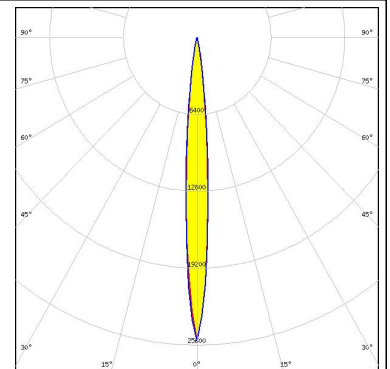
LED XP-G2 HE  
 FWHM 8.0°  
 Efficiency 92 %  
 Peak intensity 29.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



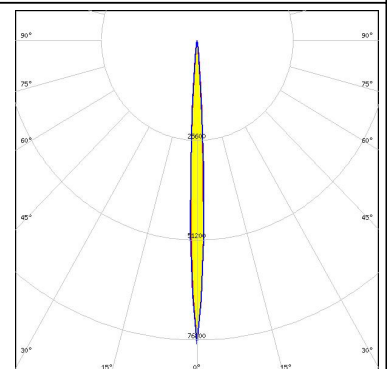
LED XP-G3  
 FWHM 7.7°  
 Efficiency 91 %  
 Peak intensity 28.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



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



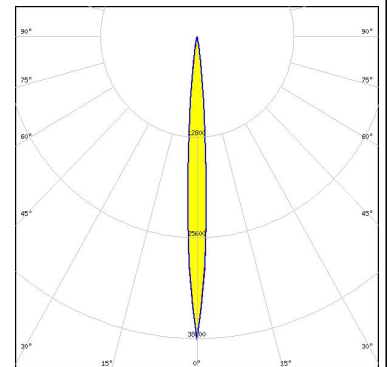
**PHOTOMETRIC DATA (SIMULATED):**



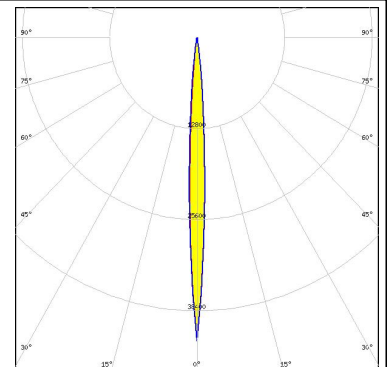
LED XQ-E HD  
 FWHM 5.0°  
 Efficiency 93 %  
 Peak intensity 80 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



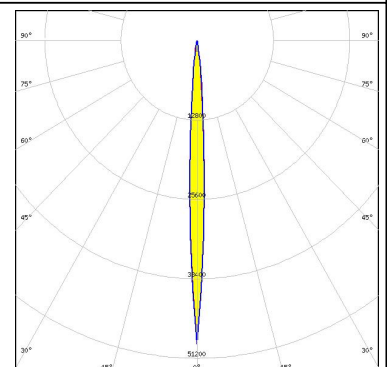
LED LUXEON H50-2  
 FWHM 7.0°  
 Efficiency 94 %  
 Peak intensity 38.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



LED LUXEON SunPlus 35 Line  
 FWHM 6.0°  
 Efficiency 94 %  
 Peak intensity 49.9 cd/lm  
 LEDs/each optic 1  
 Light colour Blue  
 Required components:



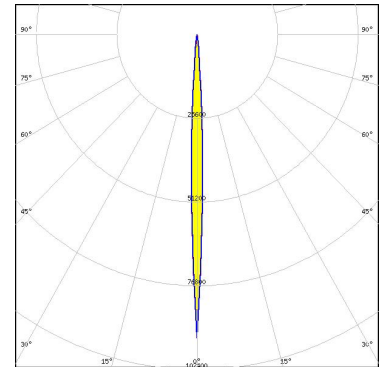
#### PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

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

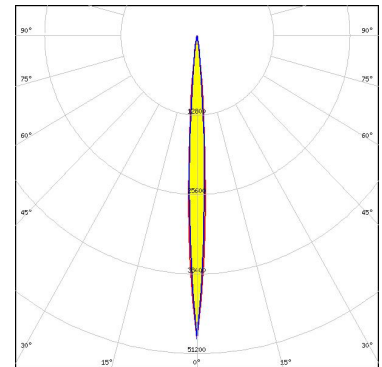
**OSRAM**  
Opto Semiconductors

LED OSOLON Black Flat  
 FWHM 4.2°  
 Efficiency 94 %  
 Peak intensity 92 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



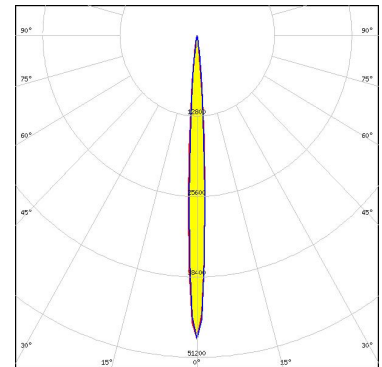
**OSRAM**  
Opto Semiconductors

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



**OSRAM**  
Opto Semiconductors

LED OSOLON Square CSSRM2/CSSRM3  
 FWHM 6.4°  
 Efficiency 94 %  
 Peak intensity 48.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

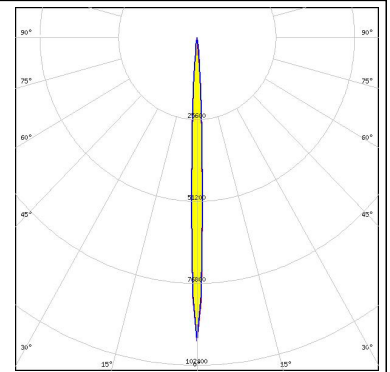


### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

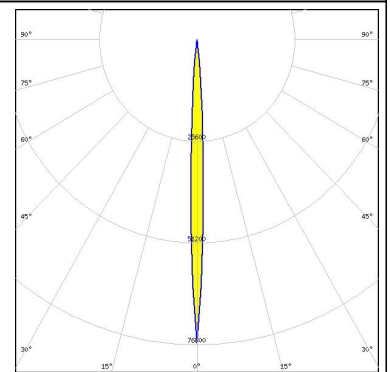
LED OSTAR Projection Compact (Kx.CSLNM1.xx)  
 FWHM 4.0°  
 Efficiency 93 %  
 Peak intensity 94.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)  
 FWHM 6.0°  
 Efficiency 94 %  
 Peak intensity 76.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



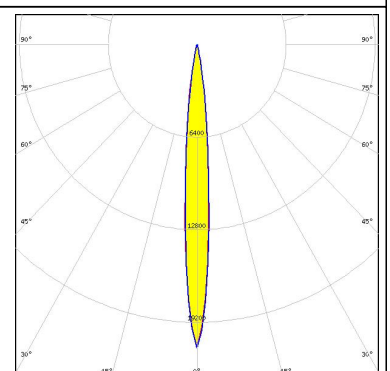
#### OSRAM

Opto Semiconductors

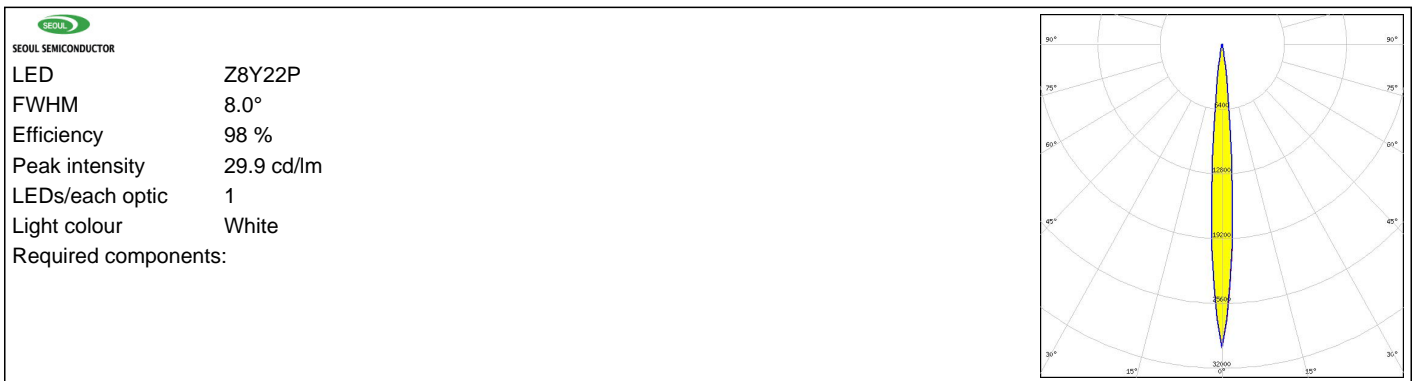
LED SFH 4716AS  
 FWHM 6.0°  
 Efficiency 94 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:

#### SAMSUNG

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



## PHOTOMETRIC DATA (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:

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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USA

#### Local sales and technical support

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

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

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

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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