


## VERONICA-SQ-M

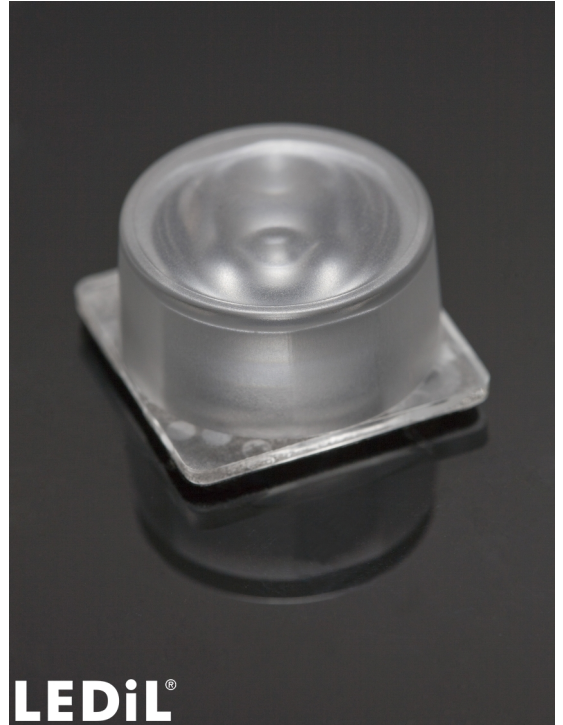
~30° medium beam

### TECHNICAL SPECIFICATIONS:

Dimensions	22.5 mm
Height	11.8 mm
Fastening	tape, pin
ROHS compliant	yes 

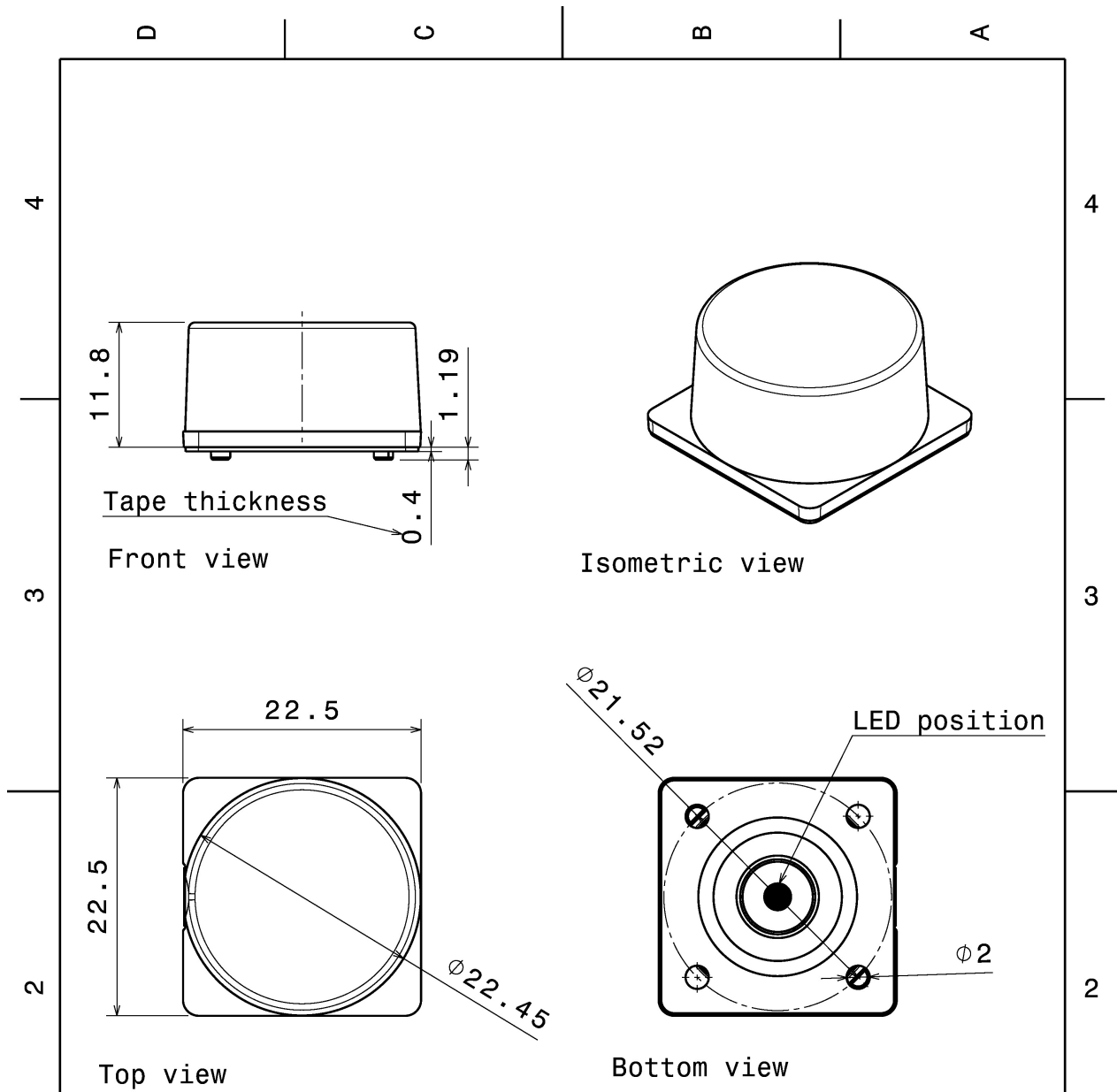
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
VERONICA-SQ-M	Single lens	PMMA	clear	
VERONICA-TAPE	Tape	PU tape	clear	



### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA14461_VERONICA-SQ-M » Box size: 476 x 273 x 197 mm	Single lens	1980	360	180	8.2



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14448	VERONICA-SQ-M	PMMA	clear
2	C13729	VERONICA-SQ-TAPE	PU	black

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures: class C  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL**

Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**CA14461\_VERONICA-SQ-M**

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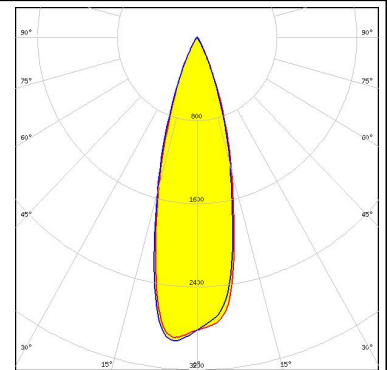
SIZE	PART NUMBER
A4	CA14461

SCALE	2:1	WEIGHT	3,64 g	SHEET	1/1
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**PHOTOMETRIC DATA (MEASURED):**

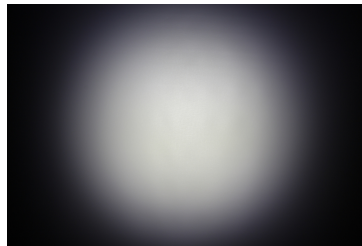
**CREE** 

LED XB-H  
FWHM 29.0°  
Efficiency 91 %  
Peak intensity 3 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



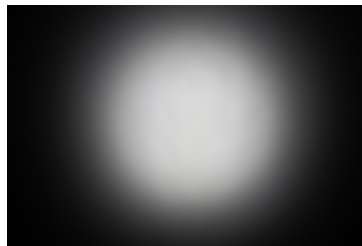
**CREE** 

LED XHP35 HD  
FWHM 40.0°  
Efficiency 88 %  
Peak intensity 1.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



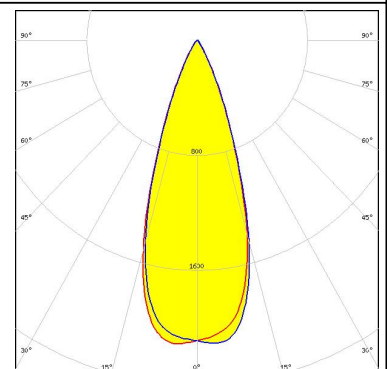
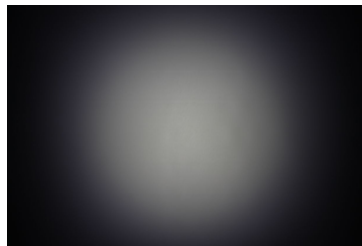
**CREE** 

LED XHP35 HI  
FWHM 33.0°  
Efficiency 88 %  
Peak intensity 2.7 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



**CREE** 

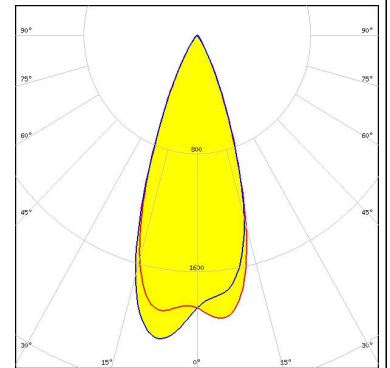
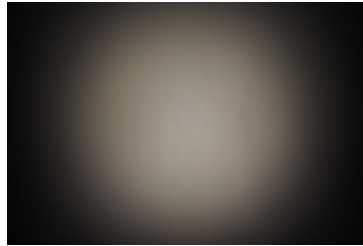
LED XM-L  
FWHM 37.0°  
Efficiency 92 %  
Peak intensity 2.1 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

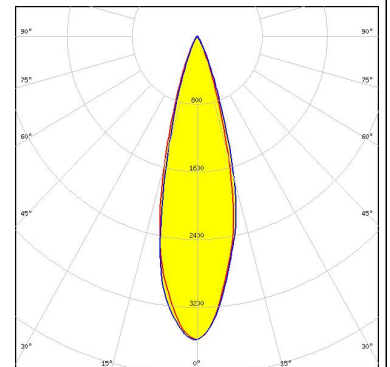
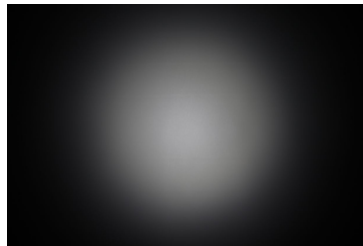
#### CREE

LED XM-L2  
 FWHM 38.0°  
 Efficiency 91 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



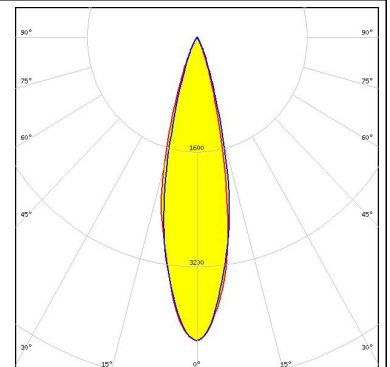
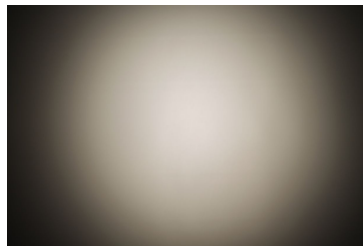
#### CREE

LED XP-E  
 FWHM 28.0°  
 Efficiency 93 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



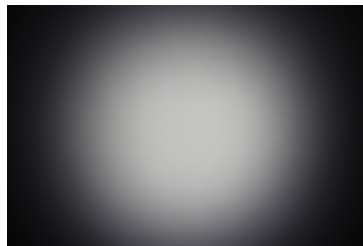
#### CREE

LED XP-E2  
 FWHM 25.0°  
 Efficiency 94 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

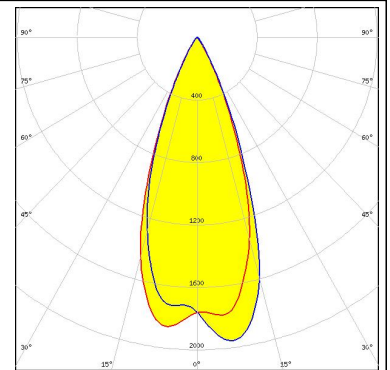
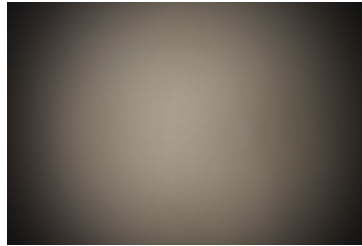
LED XP-G2  
 FWHM 30.0°  
 Efficiency 89 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



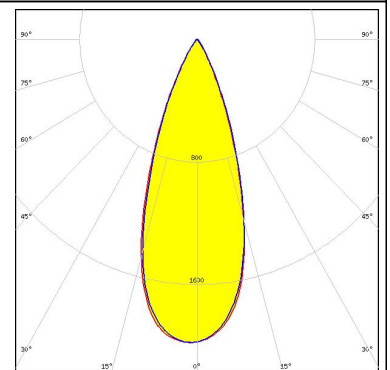
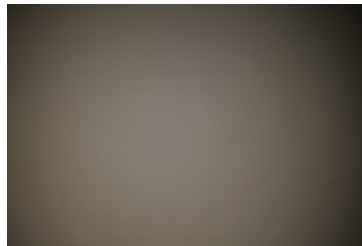
#### PHOTOMETRIC DATA (MEASURED):



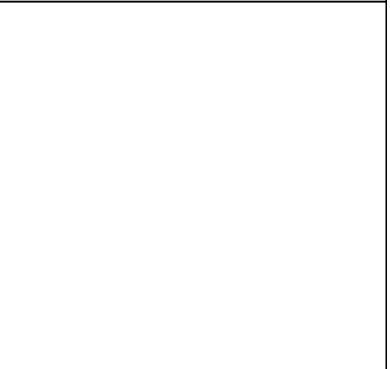
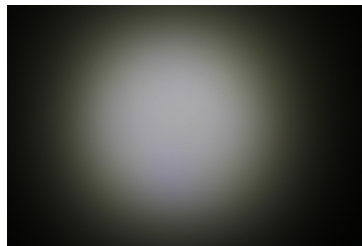
LED XP-L HD  
 FWHM 40.0°  
 Efficiency 91 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



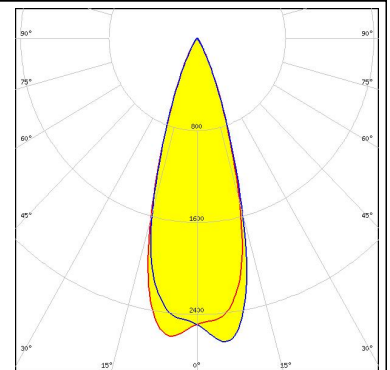
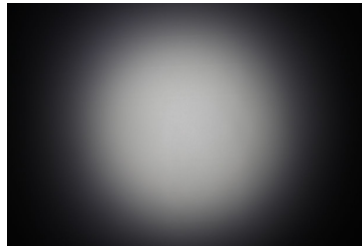
LED XP-L2  
 FWHM 37.0°  
 Efficiency 87 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XT-E  
 FWHM 27.0°  
 Efficiency 87 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



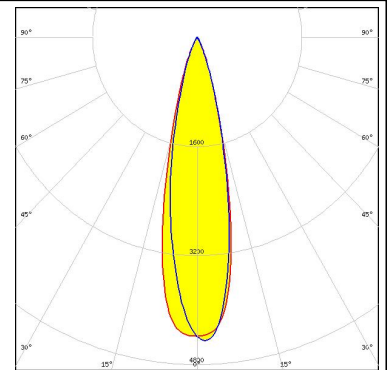
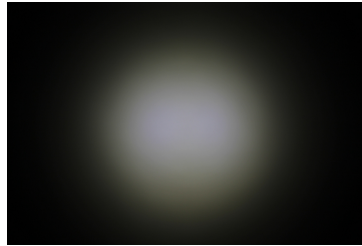
LED H35C1 (LEMWA33)  
 FWHM 33.0°  
 Efficiency 92 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

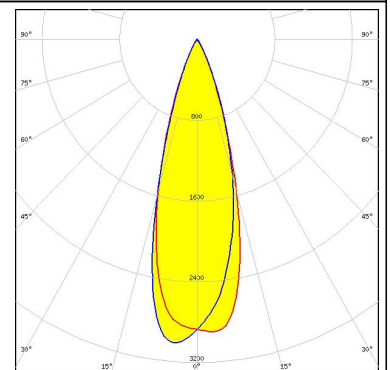
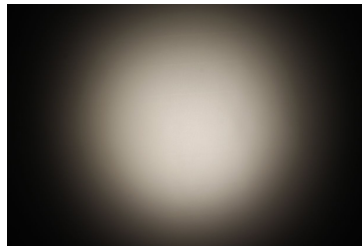
##### LUMILEDS

LED LUXEON 3030 2D (Round LES)  
 FWHM 24.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



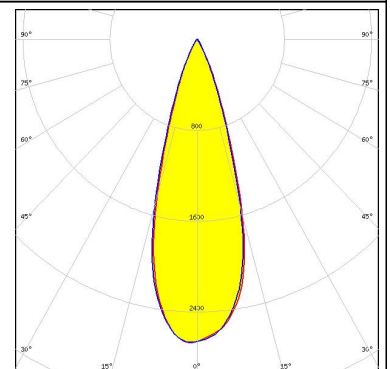
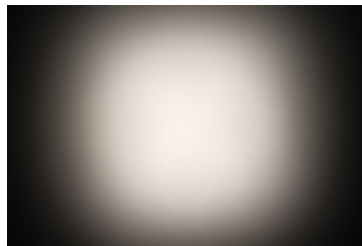
##### LUMILEDS

LED LUXEON A  
 FWHM 30.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



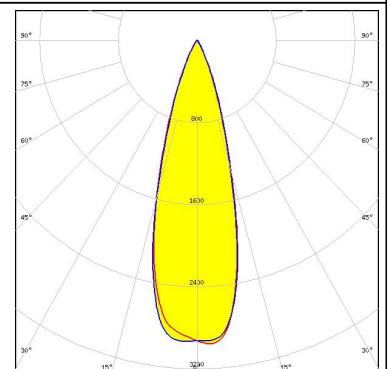
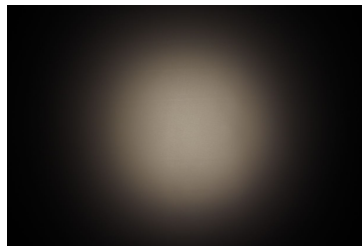
##### LUMILEDS

LED LUXEON MZ  
 FWHM 32.0°  
 Efficiency 93 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

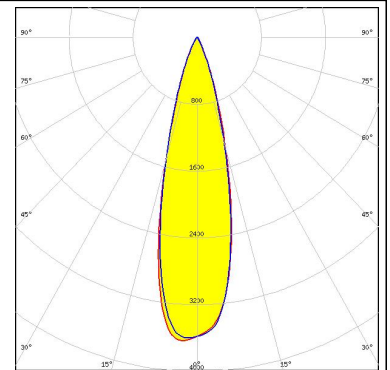
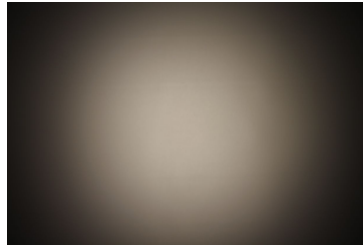
LED LUXEON R  
 FWHM 30.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

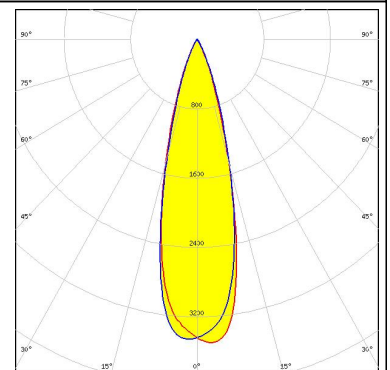
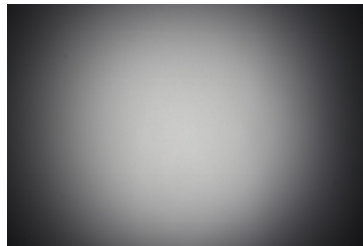
##### LUMILEDS

LED LUXEON Rebel  
 FWHM 26.0°  
 Efficiency 92 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



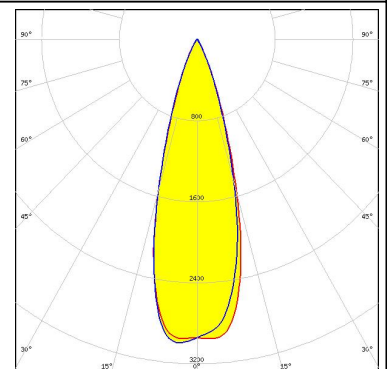
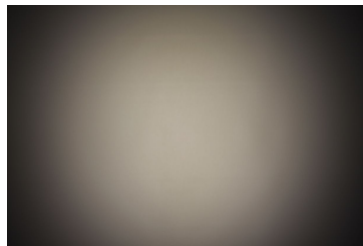
##### LUMILEDS

LED LUXEON Rebel ES  
 FWHM 27.0°  
 Efficiency 91 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



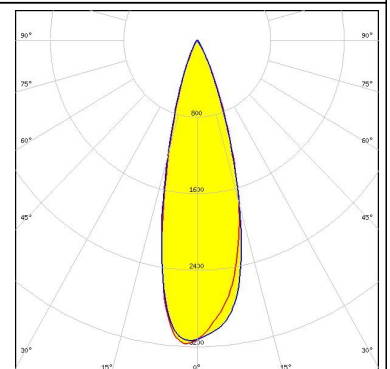
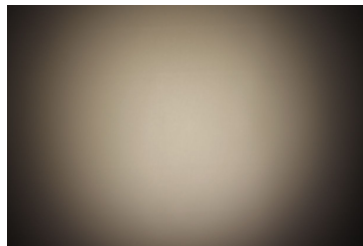
##### LUMILEDS

LED LUXEON T  
 FWHM 30.0°  
 Efficiency 93 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

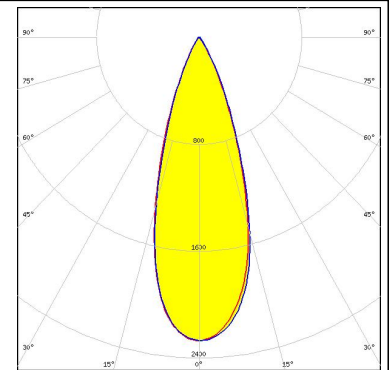
LED LUXEON TX  
 FWHM 30.0°  
 Efficiency 92 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

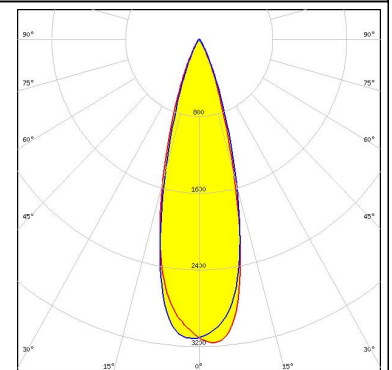
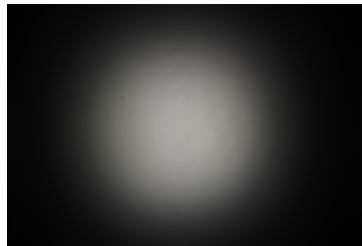
##### LUMILEDS

LED LUXEON V  
 FWHM 35.0°  
 Efficiency 90 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



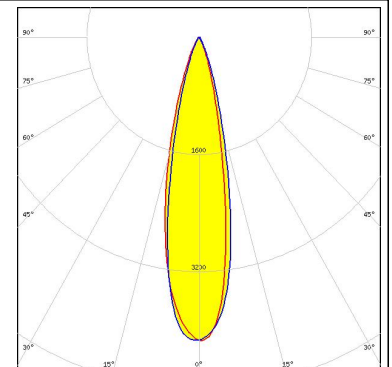
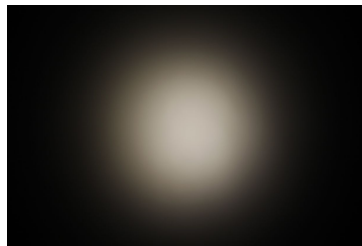
##### LUMILEDS

LED LUXEON V2  
 FWHM 29.0°  
 Efficiency 94 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



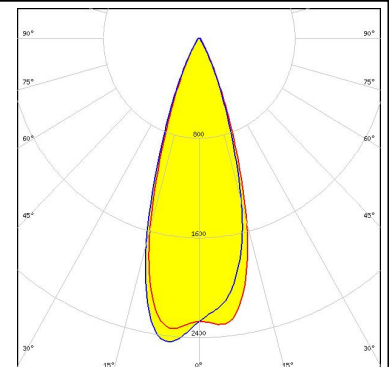
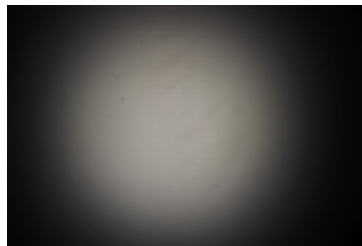
##### NICHIA

LED NCSxx19B  
 FWHM 23.0°  
 Efficiency 92 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### NICHIA

LED NVSW219F  
 FWHM 35.0°  
 Efficiency 94 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

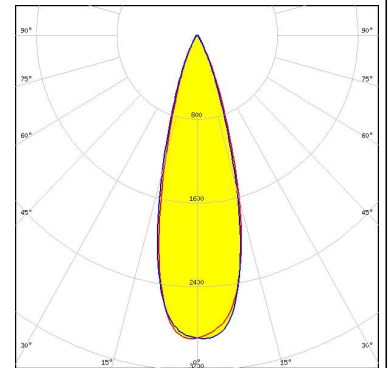




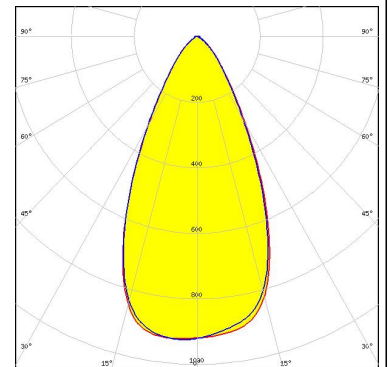
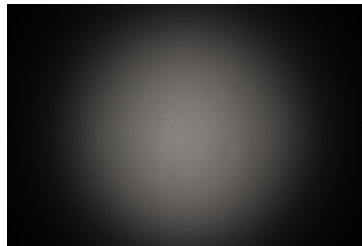
#### PHOTOMETRIC DATA (MEASURED):



LED NVSxx19B/NVSxx19C  
 FWHM 30.0°  
 Efficiency 91 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

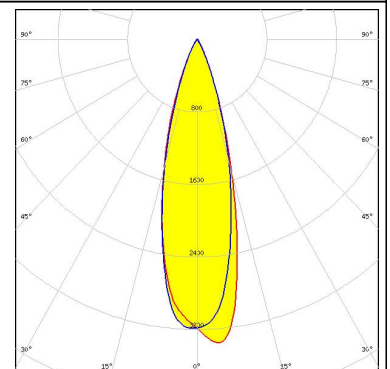
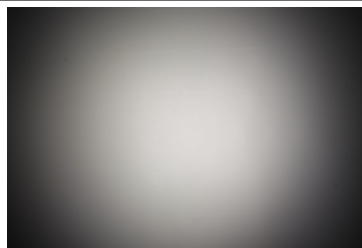


LED NWSx229A  
 FWHM 39.0°  
 Efficiency 89 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



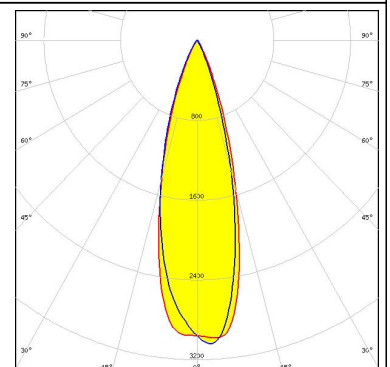
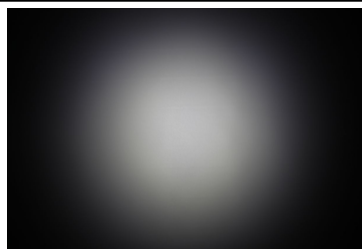
Opto Semiconductors

LED OSOLON Square EC  
 FWHM 28.0°  
 Efficiency 91 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



Opto Semiconductors

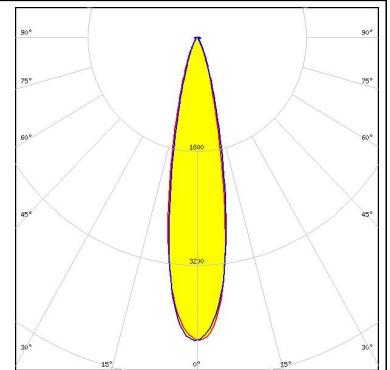
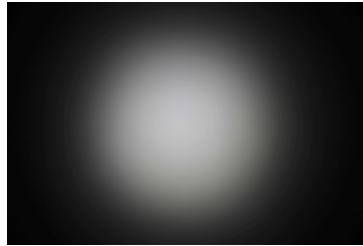
LED OSOLON Square PC  
 FWHM 29.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

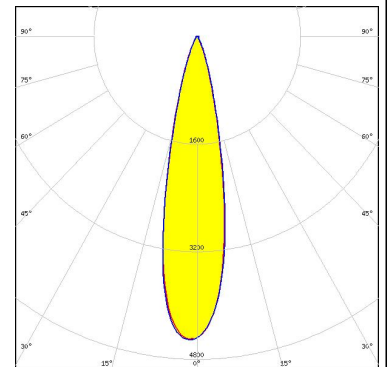
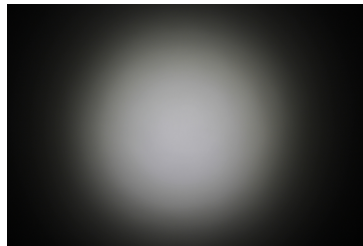
#### SAMSUNG

LED LH181A  
 FWHM 21.0°  
 Efficiency 94 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



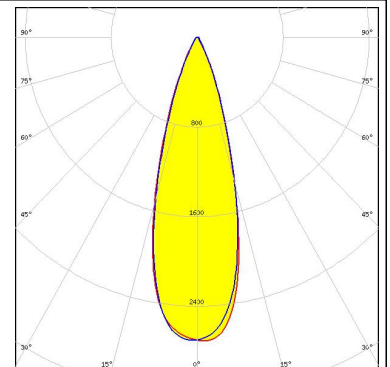
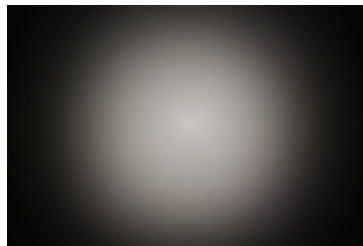
#### SAMSUNG

LED LH181B  
 FWHM 23.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



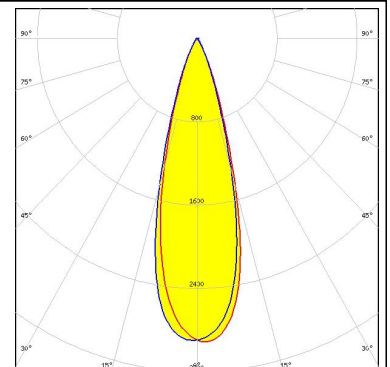
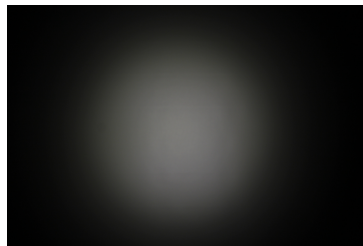
SEOUL SEMICONDUCTOR

LED Z5M3  
 FWHM 31.0°  
 Efficiency 94 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22P  
 FWHM 29.0°  
 Efficiency 88 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



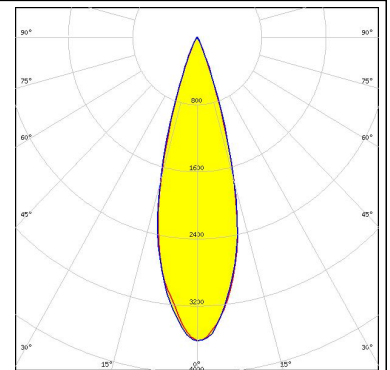
## PHOTOMETRIC DATA (MEASURED):



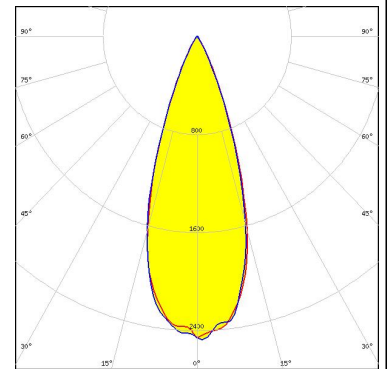
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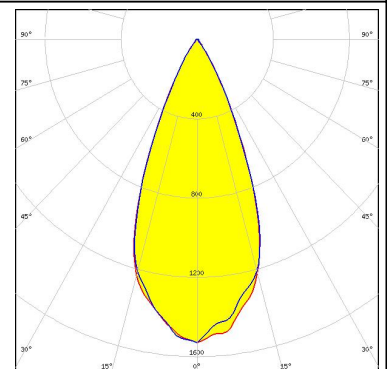
LED LUXEON C  
 FWHM 29.0°  
 Efficiency 94 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



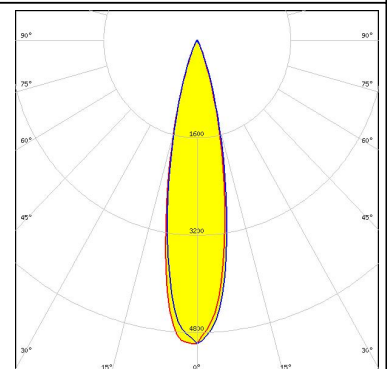
LED NV4WB35AM  
 FWHM 36.0°  
 Efficiency 96 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSCONIQ C 2424  
 FWHM 44.0°  
 Efficiency 97 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 4  
 Light colour White  
 Required components:



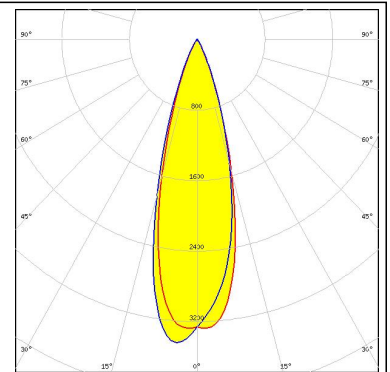
LED OSCONIQ P 3030  
 FWHM 23.0°  
 Efficiency 96 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (SIMULATED):

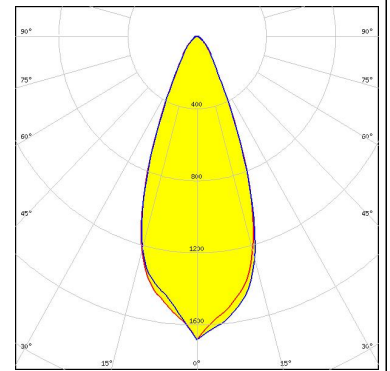
#### SAMSUNG

LED LM28xB Series  
FWHM 29.0°  
Efficiency 94 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22T  
FWHM 28.0°  
Efficiency 94 %  
Peak intensity 3.8 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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#### 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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