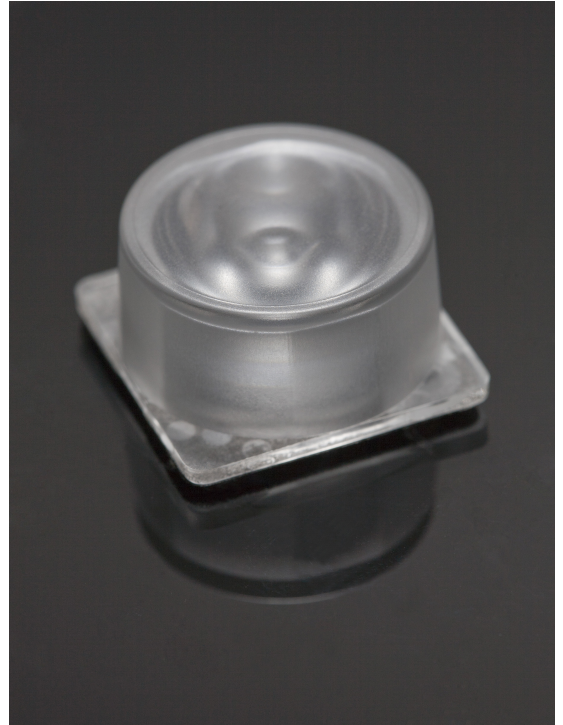


## VERONICA-SQ-M

~30° medium beam

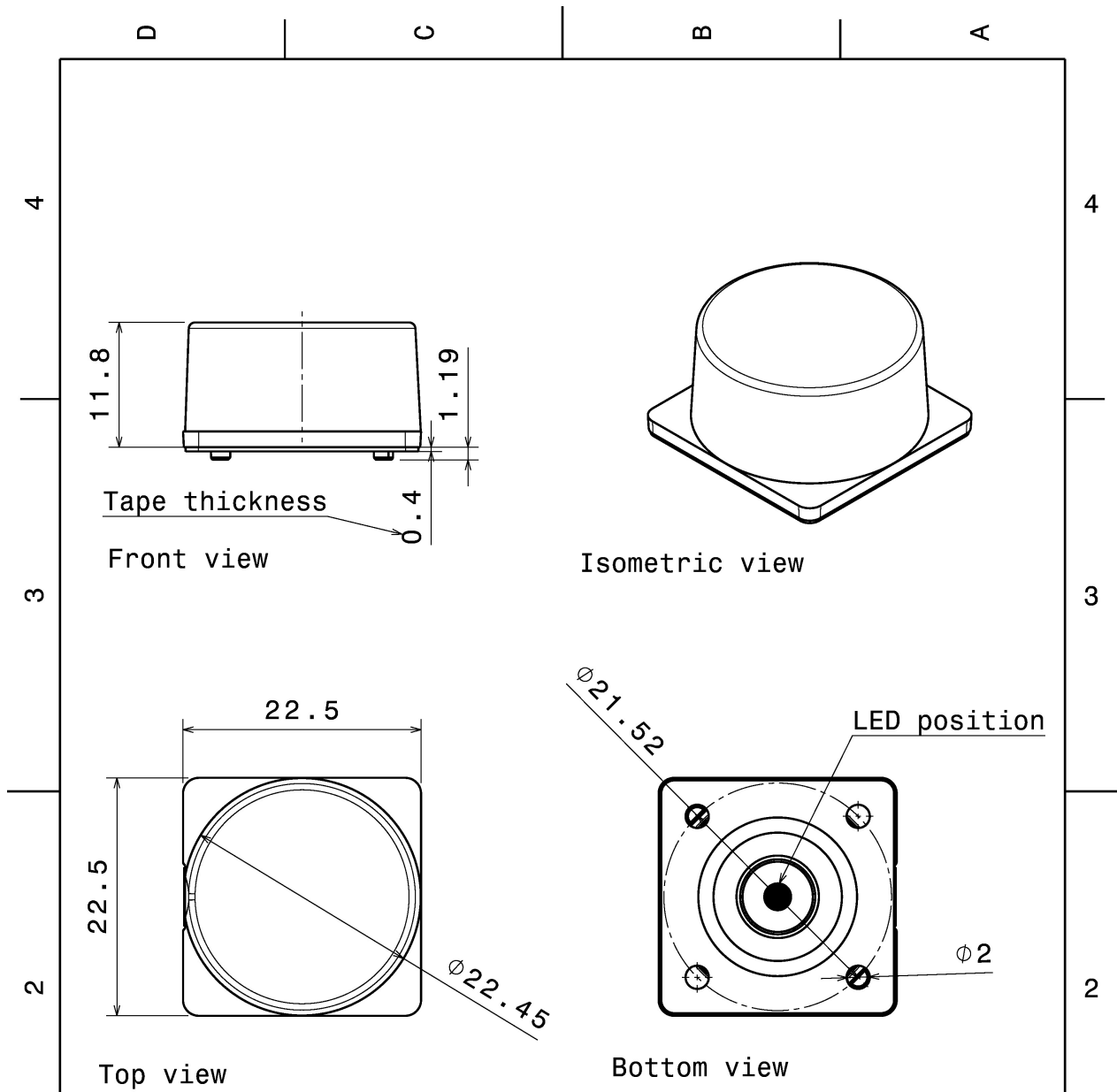
### TECHNICAL SPECIFICATIONS:

Dimensions	22.5x22.5 mm
Height	11.8 mm
Fastening	tape, pin
Colour	clear
Box size	476 x 273 x 197 mm
Box weight	8.2 kg
Quantity in Box	1980 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
VERONICA-SQ-M	Lens	PMMA	clear
VERONICA-TAPE	Tape	PU tape	clear



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

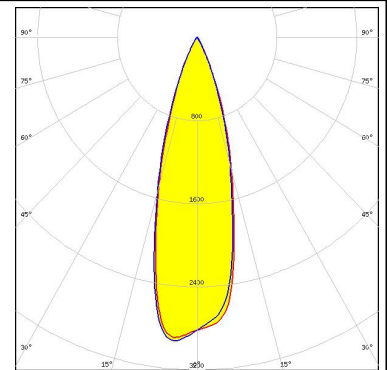
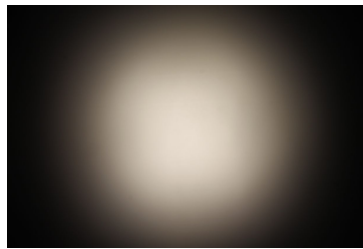
CA14461

SCALE 2:1 WEIGHT 3,64 g SHEET 1/1

### PHOTOMETRIC DATA (MEASURED):

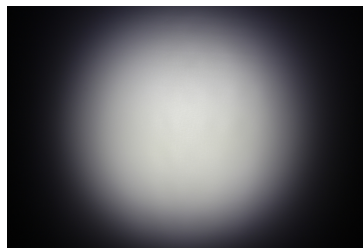
**CREE** 

LED XB-H  
FWHM 29.0°  
Efficiency 91 %  
Peak intensity 3.000 cd/lm  
Required components:



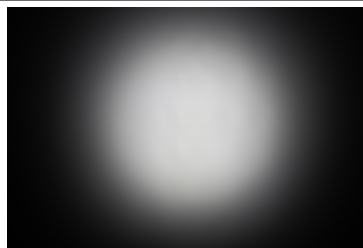
**CREE** 

LED XHP35 HD  
FWHM 40.0°  
Efficiency 88 %  
Peak intensity 1.900 cd/lm  
Required components:



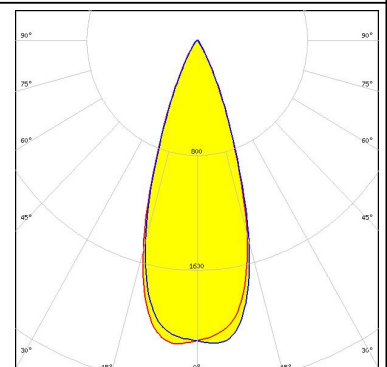
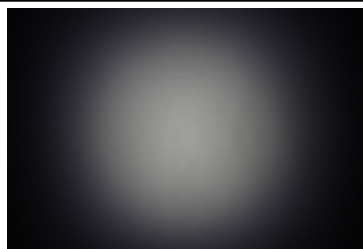
**CREE** 

LED XHP35 HI  
FWHM 33.0°  
Efficiency 88 %  
Peak intensity 2.700 cd/lm  
Required components:



**CREE** 

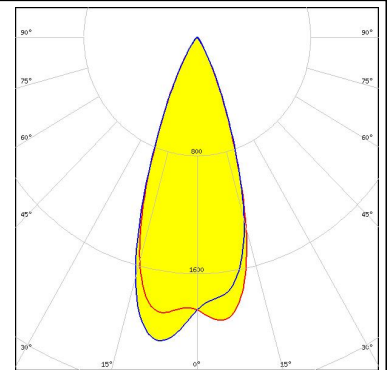
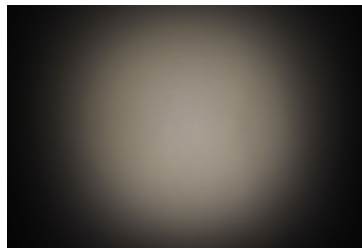
LED XM-L  
FWHM 37.0°  
Efficiency 92 %  
Peak intensity 2.100 cd/lm  
Required components:



### PHOTOMETRIC DATA (MEASURED):

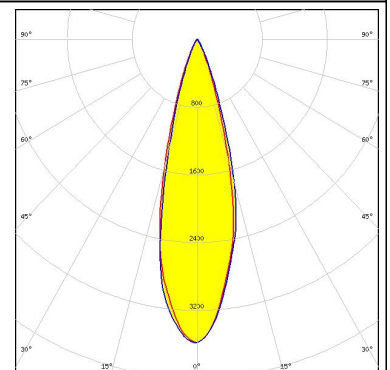
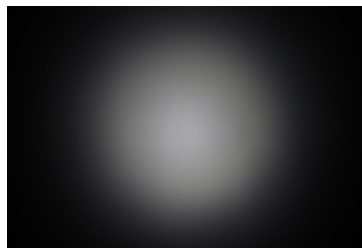
**CREE** 

LED XM-L2  
FWHM 38.0°  
Efficiency 91 %  
Peak intensity 2.100 cd/lm  
Required components:



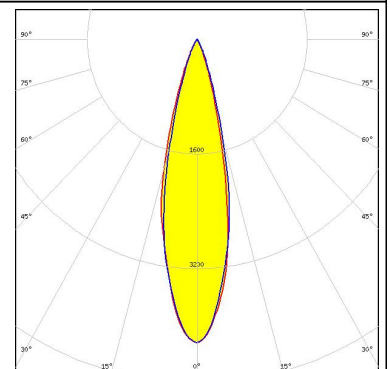
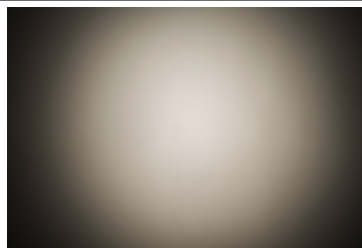
**CREE** 

LED XP-E  
FWHM 28.0°  
Efficiency 93 %  
Peak intensity 3.600 cd/lm  
Required components:



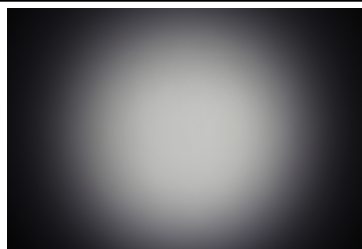
**CREE** 

LED XP-E2  
FWHM 25.0°  
Efficiency 94 %  
Peak intensity 4.200 cd/lm  
Required components:



**CREE** 

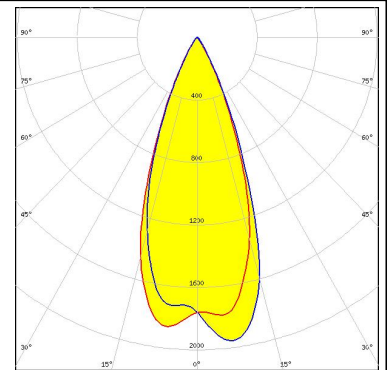
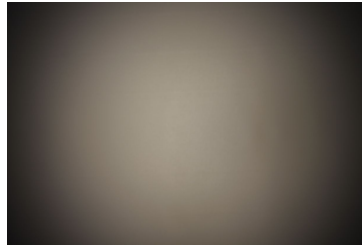
LED XP-G2  
FWHM 30.0°  
Efficiency 89 %  
Peak intensity 3.060 cd/lm  
Required components:



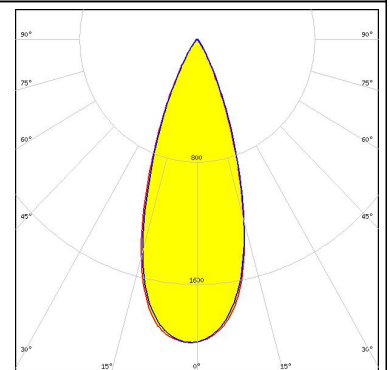
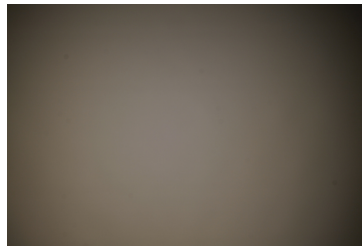
**PHOTOMETRIC DATA (MEASURED):**



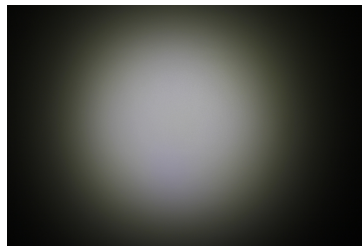
LED XP-L  
FWHM 40.0°  
Efficiency 91 %  
Peak intensity 2.000 cd/lm  
Required components:



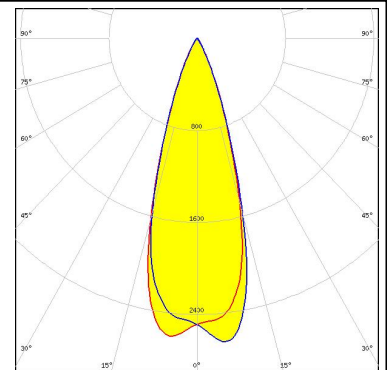
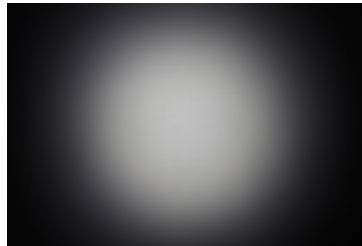
LED XP-L2  
FWHM 37.0°  
Efficiency 87 %  
Peak intensity 2.000 cd/lm  
Required components:




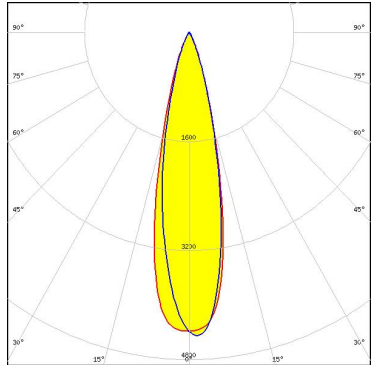
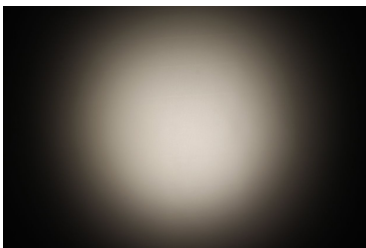
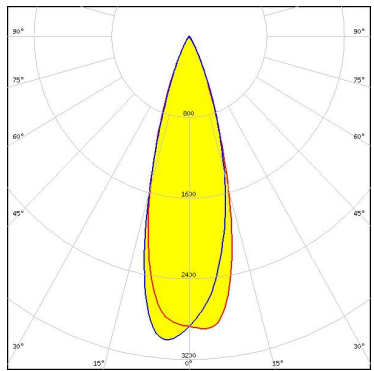

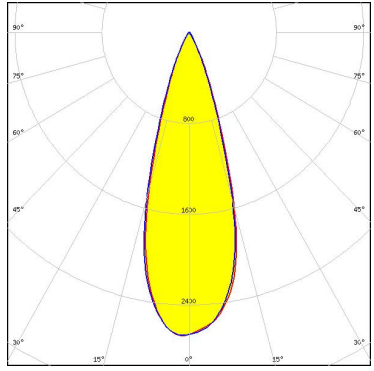
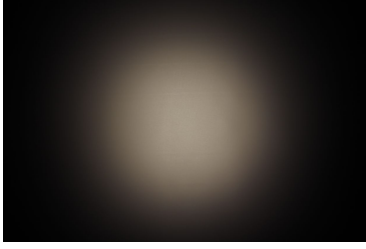
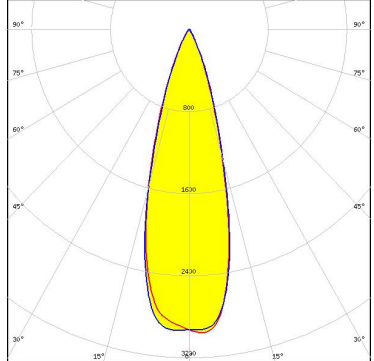
LED XT-E  
FWHM 27.0°  
Efficiency 87 %  
Peak intensity 3.500 cd/lm  
Required components:



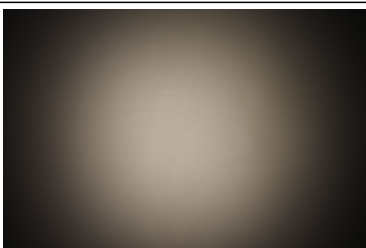
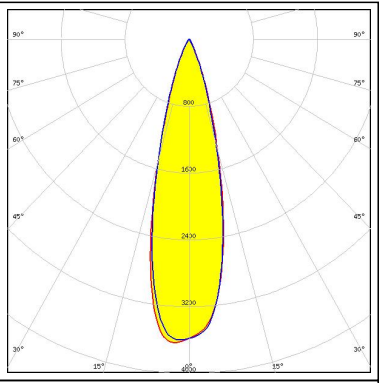
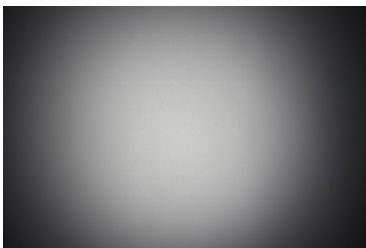
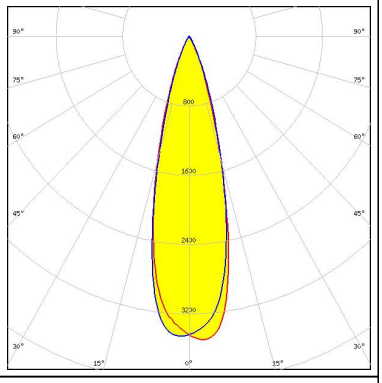
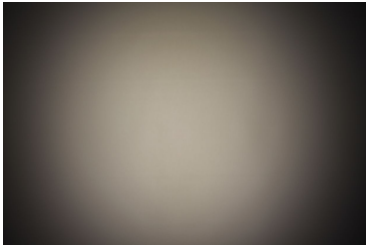
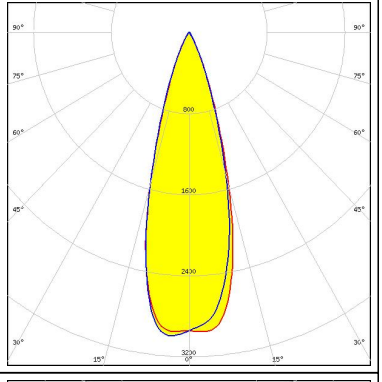
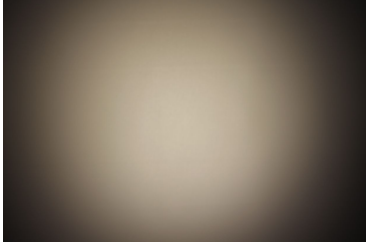
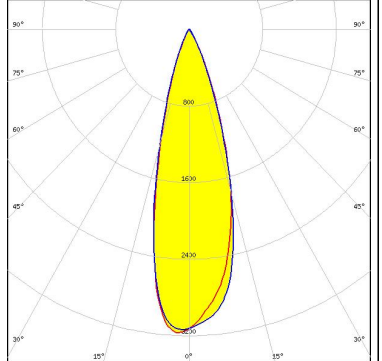
LED H35C1 (LEMWA33)  
FWHM 33.0°  
Efficiency 92 %  
Peak intensity 2.700 cd/lm  
Required components:



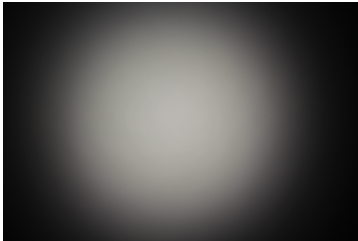
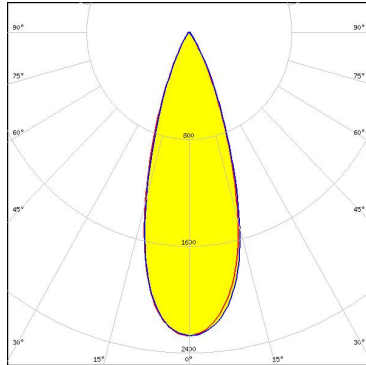
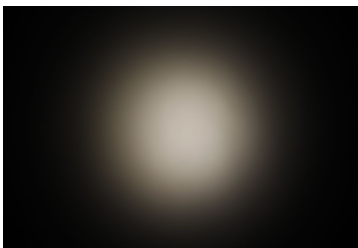
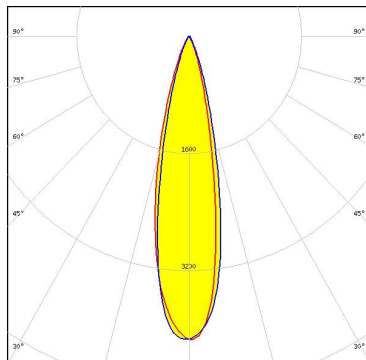

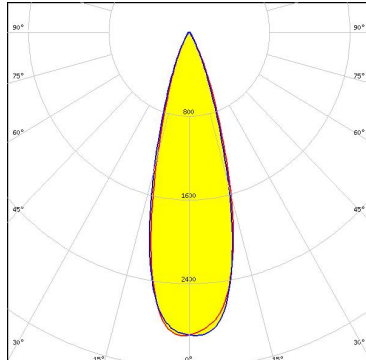
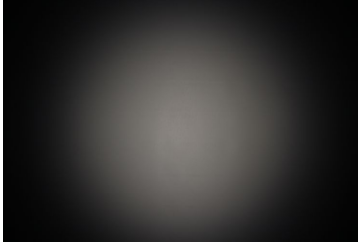
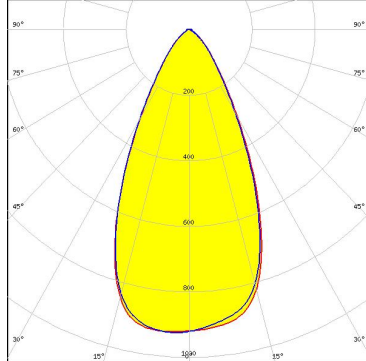
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON 3030 2D (Round LES)</p> <p>FWHM 24.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.500 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON A</p> <p>FWHM 30.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON MZ</p> <p>FWHM 32.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2.700 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON R</p> <p>FWHM 30.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED            LUXEON Rebel</p> <p>FWHM        26.0°</p> <p>Efficiency    92 %</p> <p>Peak intensity 3.600 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED            LUXEON Rebel ES</p> <p>FWHM        27.0°</p> <p>Efficiency    91 %</p> <p>Peak intensity 3.500 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED            LUXEON T</p> <p>FWHM        30.0°</p> <p>Efficiency    93 %</p> <p>Peak intensity 3.000 cd/lm</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED            LUXEON TX</p> <p>FWHM        30.0°</p> <p>Efficiency    92 %</p> <p>Peak intensity 3.200 cd/lm</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

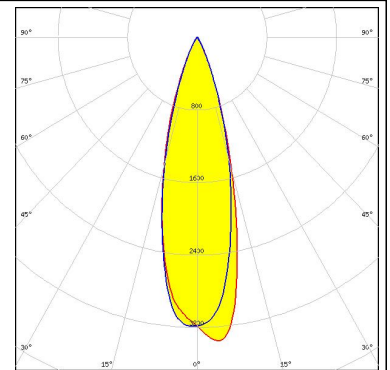
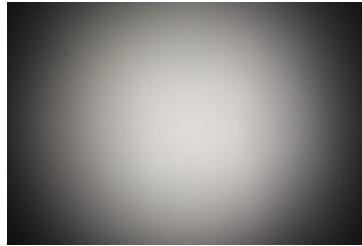
<p><b>LUMILEDS</b></p> <p>LED LUXEON V</p> <p>FWHM 35.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.300 cd/lm</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19B</p> <p>FWHM 23.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.100 cd/lm</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C</p> <p>FWHM 30.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.900 cd/lm</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NWSx229A</p> <p>FWHM 39.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.000 cd/lm</p> <p>Required components:</p>		



### PHOTOMETRIC DATA (MEASURED):

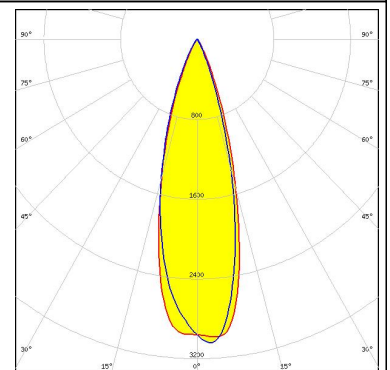
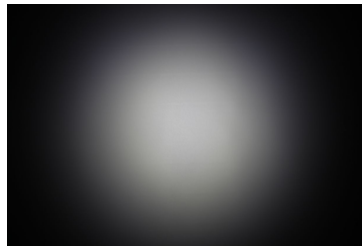
**OSRAM**  
Opto Semiconductors

LED Oslon Square EC  
FWHM 28.0°  
Efficiency 91 %  
Peak intensity 3.400 cd/lm  
Required components:



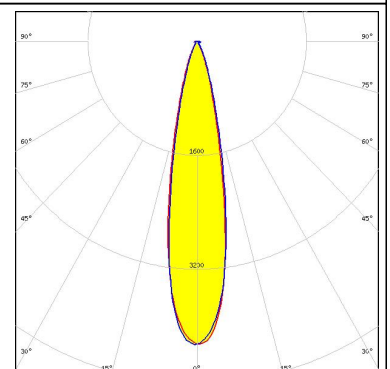
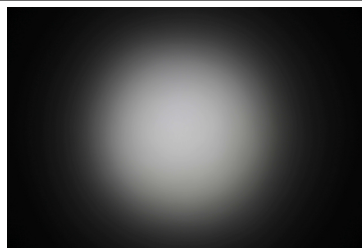
**OSRAM**  
Opto Semiconductors

LED Oslon Square PC  
FWHM 29.0°  
Efficiency 91 %  
Peak intensity 3.000 cd/lm  
Required components:



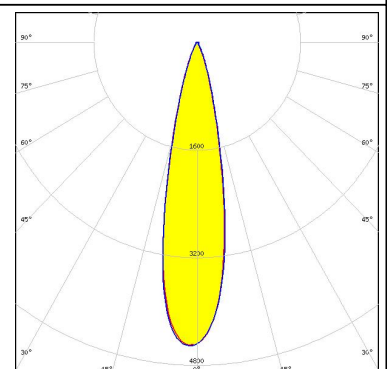
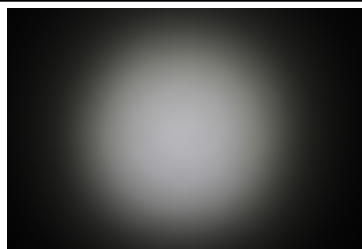
**SAMSUNG**

LED LH181A  
FWHM 21.0°  
Efficiency 94 %  
Peak intensity 4.300 cd/lm  
Required components:



**SAMSUNG**

LED LH181B  
FWHM 23.0°  
Efficiency 94 %  
Peak intensity 4.500 cd/lm  
Required components:



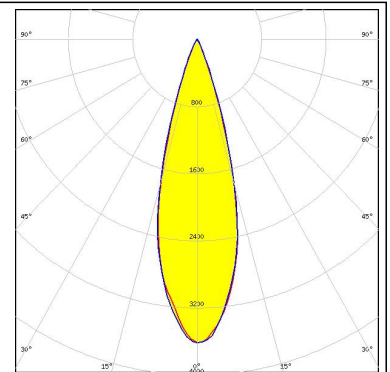
### PHOTOMETRIC DATA (MEASURED):



### PHOTOMETRIC DATA (SIMULATED):

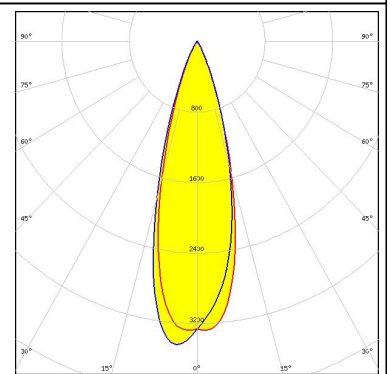
#### LUMILEDS

LED LUXEON C  
FWHM 29.0°  
Efficiency 94 %  
Peak intensity 3.700 cd/lm  
Required components:



#### SAMSUNG

LED LM28xB Series  
FWHM 29.0°  
Efficiency 94 %  
Peak intensity 3.450 cd/lm  
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 reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

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FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
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)