

## VERONICA-SQ-MINI-RS

~17° spot beam

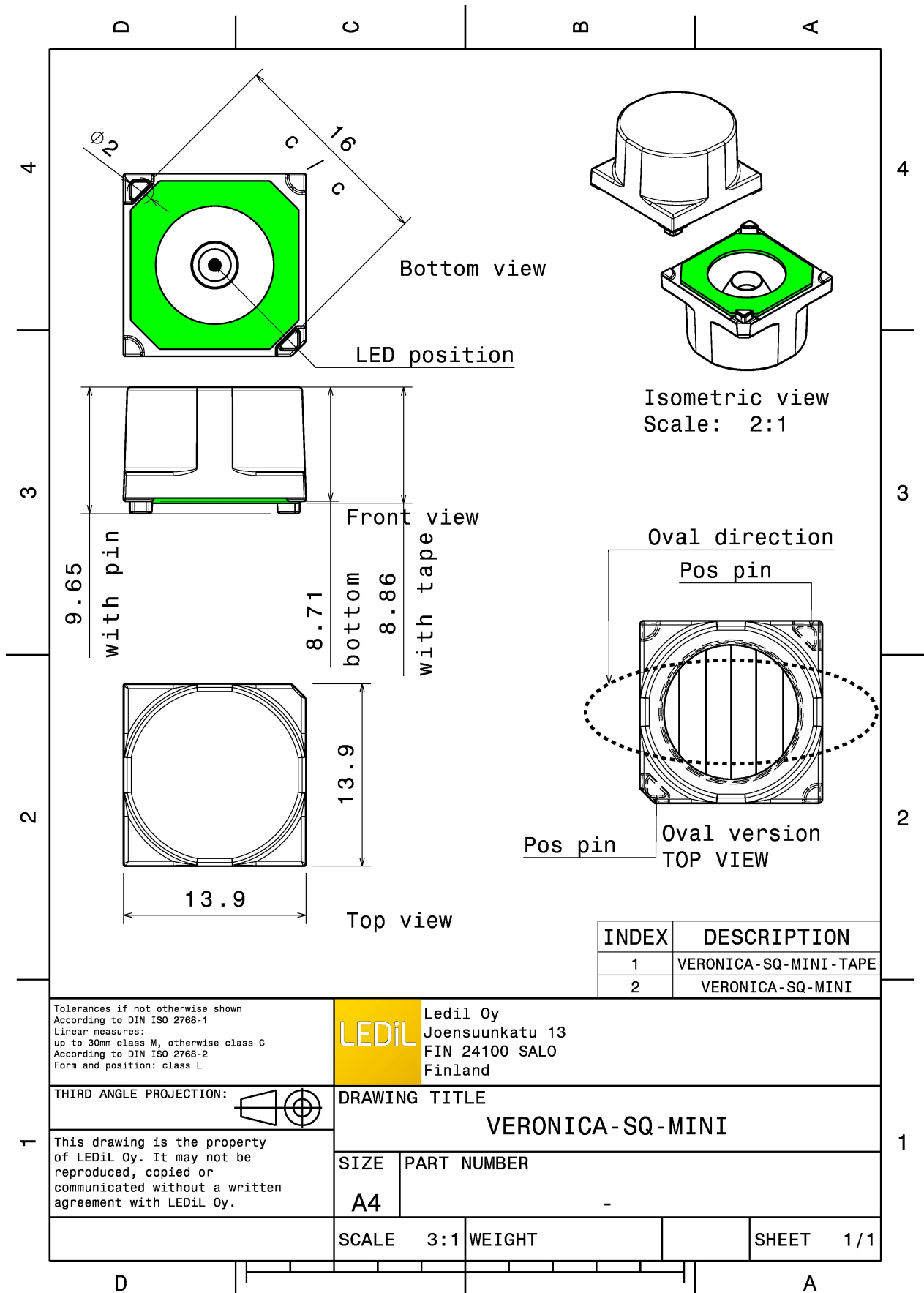
### TECHNICAL SPECIFICATIONS:

Dimensions	13.9 mm
Height	8.9 mm
Fastening	tape, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	8.6 kg
Quantity in Box	5544 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

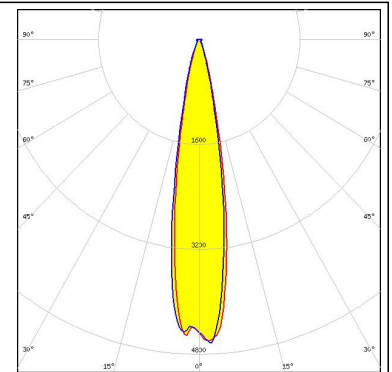
Component	Type	Material	Colour
VERONICA-SQ-MINI-RS	Single lens	PMMA	clear
VERONICA-SQ-MINI-TAPE	Tape	Acrylic foam	clear



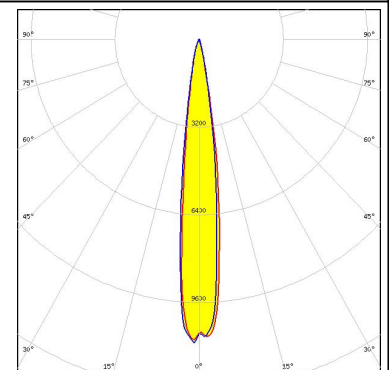
#### PHOTOMETRIC DATA (MEASURED):



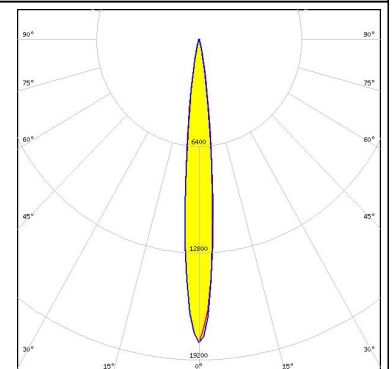
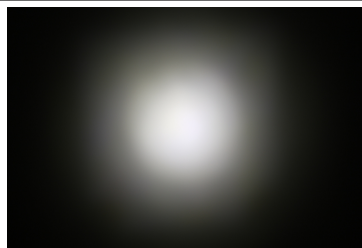
LED XD16  
 FWHM 19.0°  
 Efficiency 92 %  
 Peak intensity 4.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



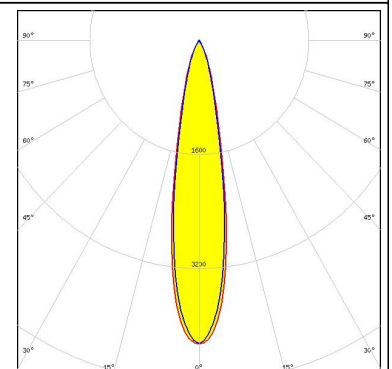
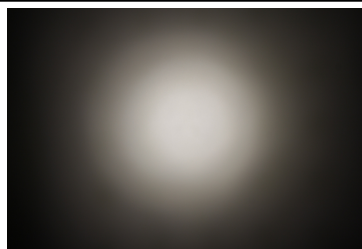
LED XP-E2  
 FWHM 14.0°  
 Efficiency 92 %  
 Peak intensity 11.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HI  
 FWHM 9.4°  
 Efficiency 90 %  
 Peak intensity 14.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



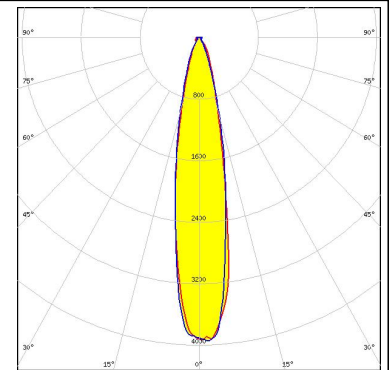
LED LUXEON Rebel ES  
 FWHM 21.0°  
 Efficiency 83 %  
 Peak intensity 4.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



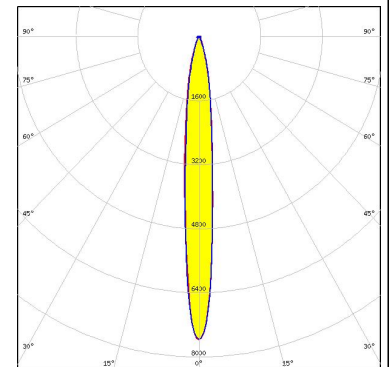
#### PHOTOMETRIC DATA (MEASURED):



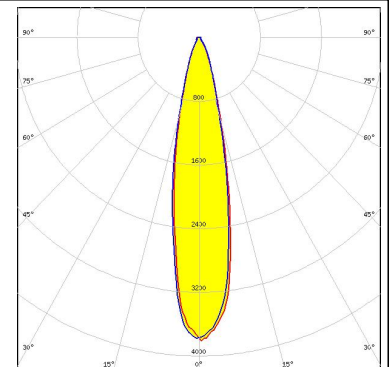
LED LUXEON TX  
 FWHM 20.0°  
 Efficiency 92 %  
 Peak intensity 3.960 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



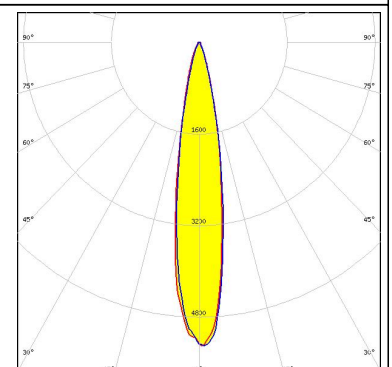
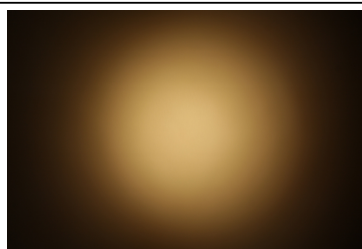
LED NCSxE17A  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 7.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxx19B/NVSxx19C  
 FWHM 21.0°  
 Efficiency 93 %  
 Peak intensity 3.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



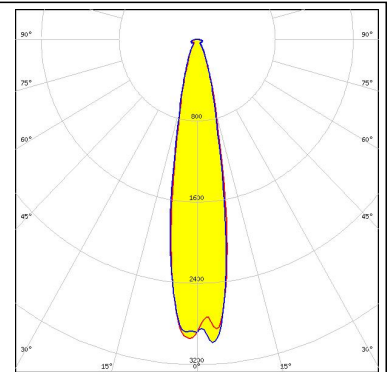
LED OSOLON Square EC  
 FWHM 18.0°  
 Efficiency 91 %  
 Peak intensity 5.330 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

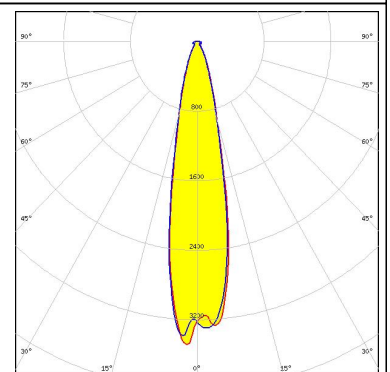
#### SAMSUNG

LED LH181A  
 FWHM 21.0°  
 Efficiency 86 %  
 Peak intensity 3.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



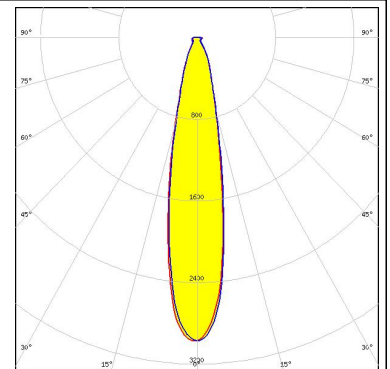
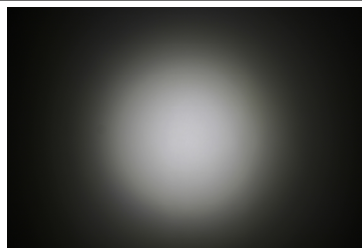
#### SAMSUNG

LED LH181B  
 FWHM 22.0°  
 Efficiency 94 %  
 Peak intensity 3.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

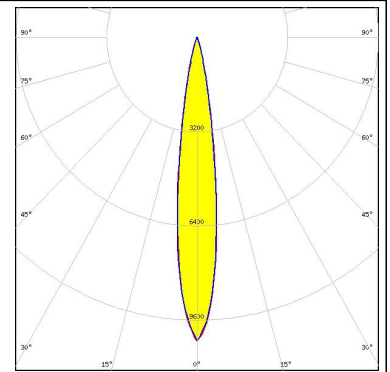
LED Z8Y22P  
 FWHM 21.0°  
 Efficiency 92 %  
 Peak intensity 3.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



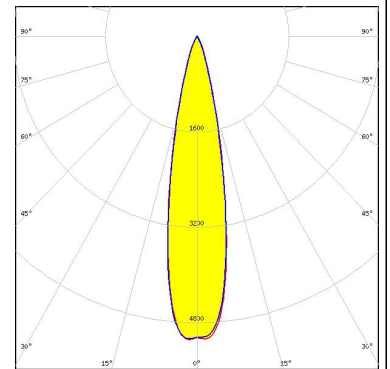
#### PHOTOMETRIC DATA (SIMULATED):



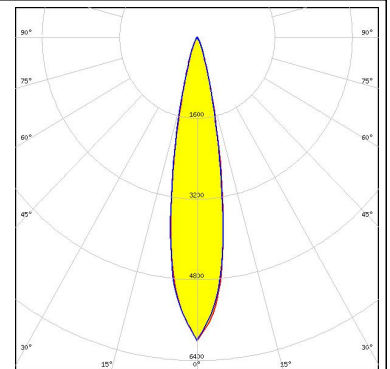
LED XP-E  
 FWHM 15.0°  
 Efficiency 92 %  
 Peak intensity 10.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



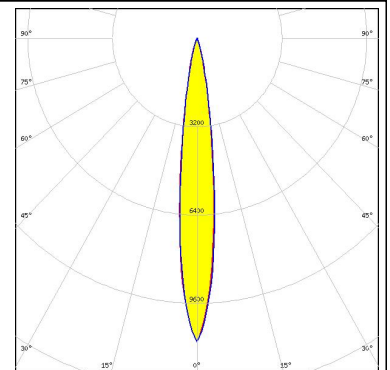
LED XP-G  
 FWHM 21.0°  
 Efficiency 91 %  
 Peak intensity 5.170 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-G2  
 FWHM 20.0°  
 Efficiency 93 %  
 Peak intensity 6.010 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



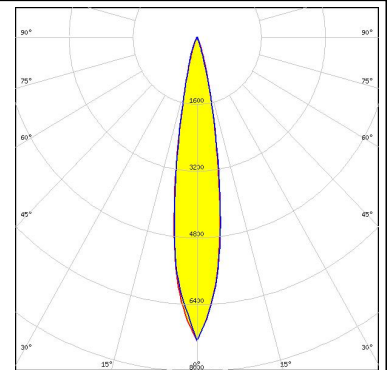
LED XQ-E HD  
 FWHM 13.0°  
 Efficiency 89 %  
 Peak intensity 11.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

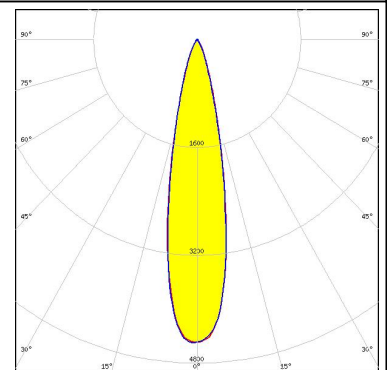
##### LG Innotek

LED H35B0 (LEMWA32)  
 FWHM 17.0°  
 Efficiency 91 %  
 Peak intensity 7.270 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



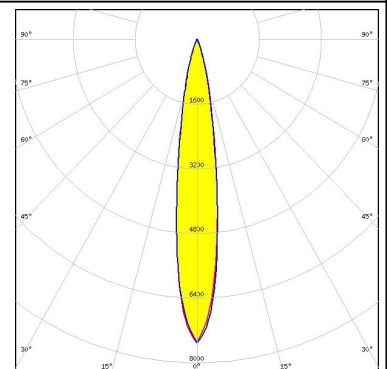
##### LUMILEDS

LED LUXEON A  
 FWHM 21.0°  
 Efficiency 89 %  
 Peak intensity 4.540 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



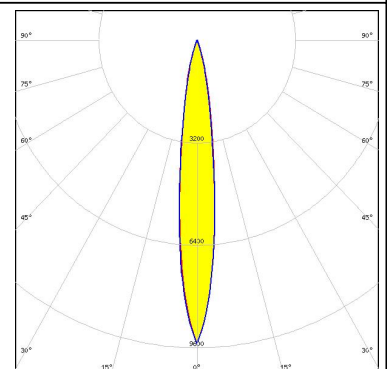
##### LUMILEDS

LED LUXEON Rebel  
 FWHM 16.0°  
 Efficiency 87 %  
 Peak intensity 7.510 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

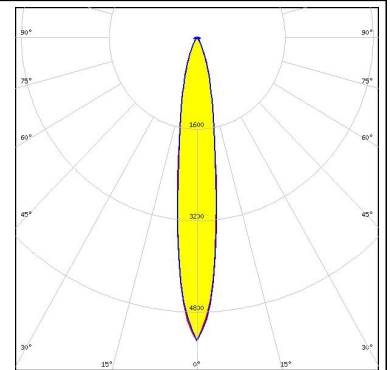
LED LUXEON Z ES  
 FWHM 14.0°  
 Efficiency 89 %  
 Peak intensity 9.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

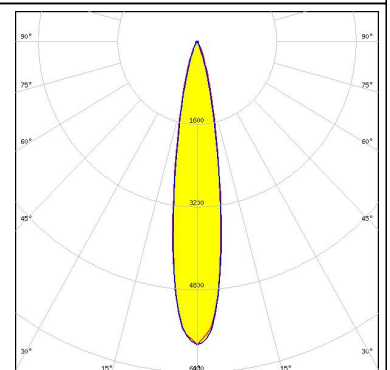


**LED** NVSxE21A  
**FWHM** 15.0°  
**Efficiency** 94 %  
**Peak intensity** 5.300 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



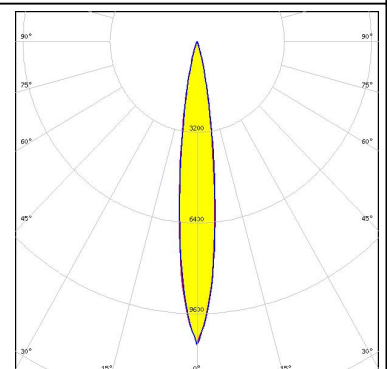
Opto Semiconductors

**LED** OSLON Square CSSRM2/CSSRM3  
**FWHM** 18.0°  
**Efficiency** 92 %  
**Peak intensity** 5.900 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



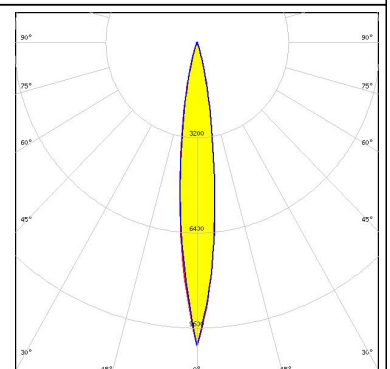
Opto Semiconductors

**LED** OSLON SSL 150  
**FWHM** 14.0°  
**Efficiency** 89 %  
**Peak intensity** 10.700 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



Opto Semiconductors

**LED** OSLON SSL 80  
**FWHM** 14.0°  
**Efficiency** 90 %  
**Peak intensity** 10.200 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**

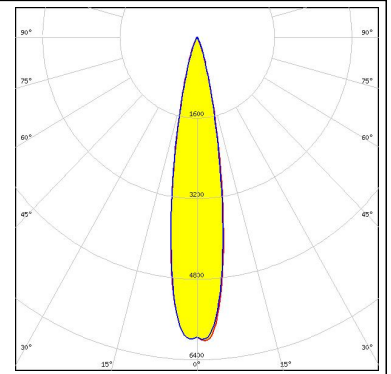




#### PHOTOMETRIC DATA (SIMULATED):

#### SAMSUNG

LED LH351Z  
FWHM 19.0°  
Efficiency 92 %  
Peak intensity 6.060 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

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

Joensuunkatu 13  
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)