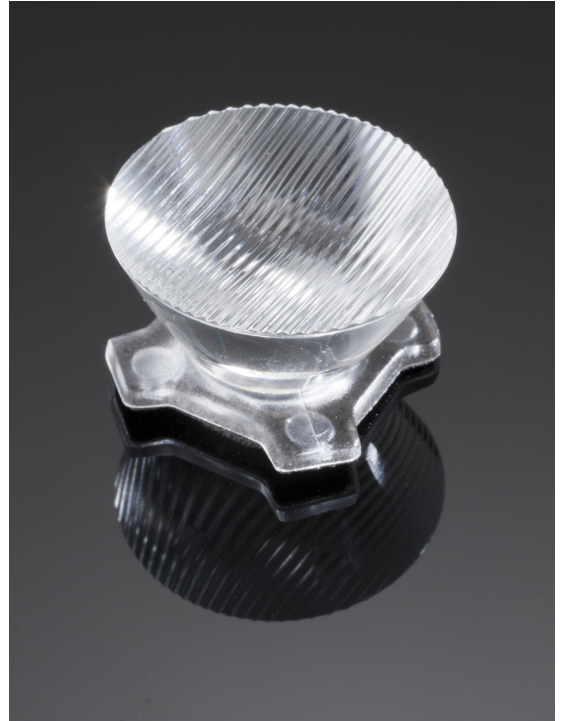


## HEIDI-O

~50° x 11° oval beam

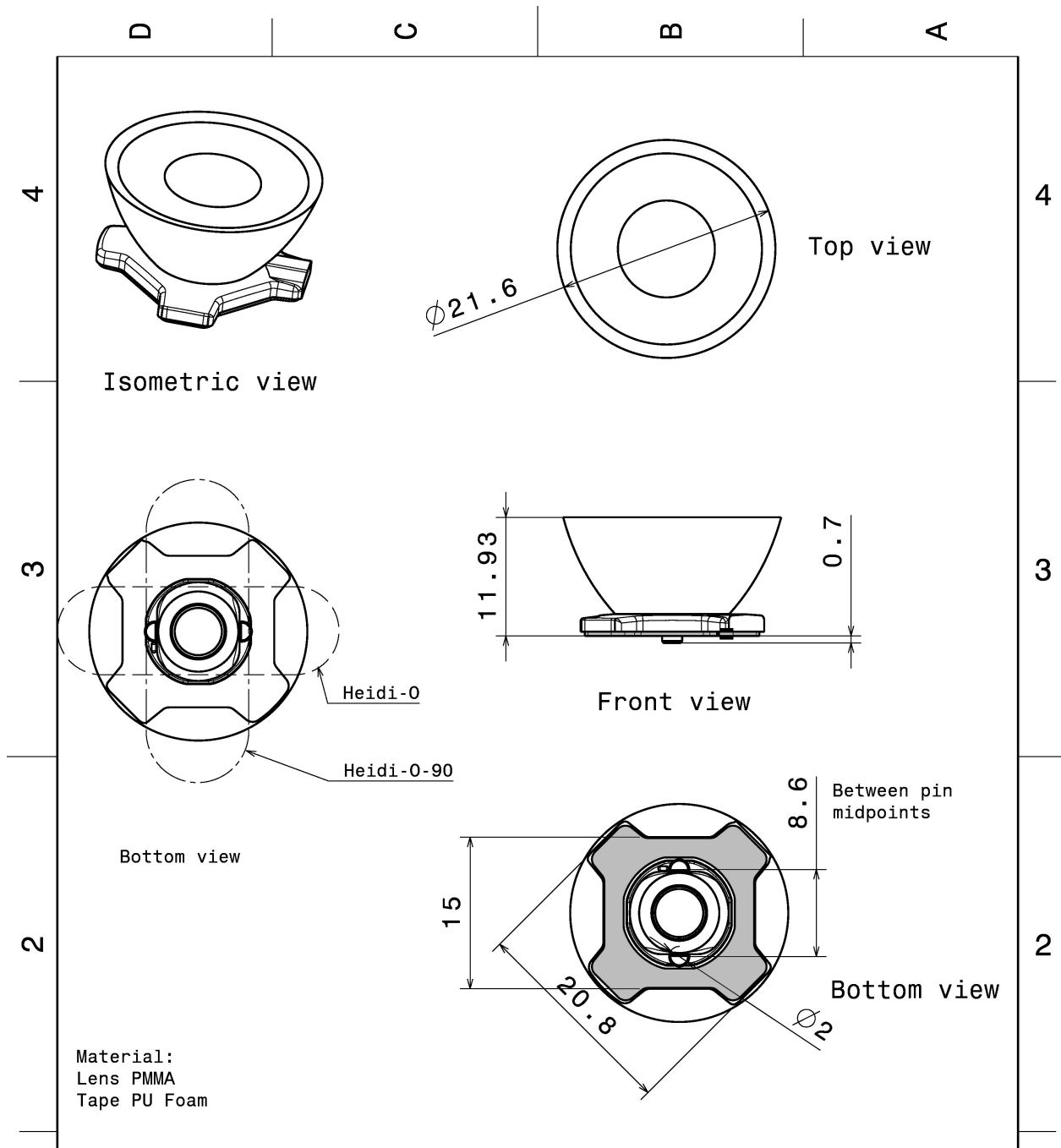
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	11.9 mm
Fastening	tape, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	9.7 kg
Quantity in Box	3264 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
HEIDI-O	Single lens	PMMA	
HEIDI-TAPE	Tape	PU tape	

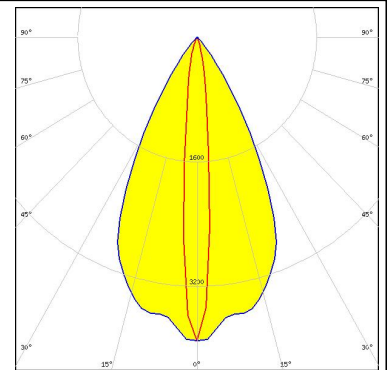


This drawing is our property. It can't be reproduced or communicated without our written agreement.		<b>LEDiL</b> A WORLD OF INNOVATION		Ledil Oy Joensuunkatu 13 FIN-24100 SALO Finland	
<b>DRAWING TITLE</b>		Datasheet Heidi-0 assy			
<b>DRAWN BY</b> ah	<b>DATE</b> 24.6.2013	<b>SIZE</b> A4		<b>DRAWING NUMBER</b>	<b>REV</b> 001
<b>CHECKED BY</b>	<b>DATE</b>	<b>SCALE</b> 2:1		<b>WEIGHT (g)</b>	<b>SHEET</b> 1/1
<b>DESIGNED BY</b>	<b>DATE</b>				

#### PHOTOMETRIC DATA (MEASURED):

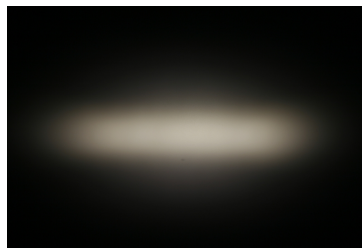
#### CREE

LED XB-D  
 FWHM 54.0 + 10.0°  
 Efficiency 87 %  
 Peak intensity 3.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



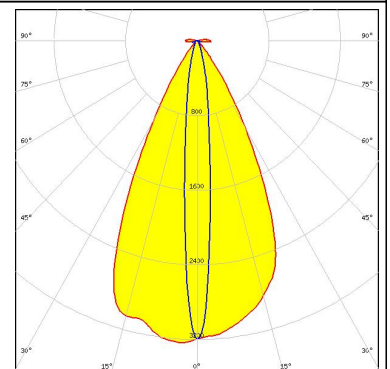
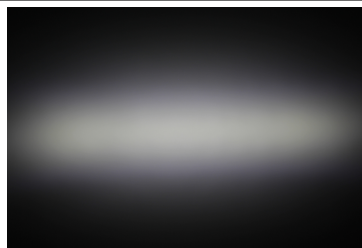
#### CREE

LED XB-H  
 FWHM 53.0 + 11.0°  
 Efficiency 83 %  
 Peak intensity 3.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



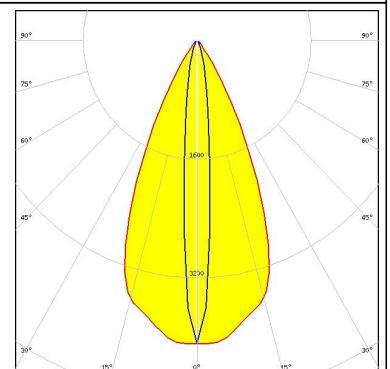
#### CREE

LED XD16  
 FWHM 52.0 + 10.0°  
 Efficiency 89 %  
 Peak intensity 3.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

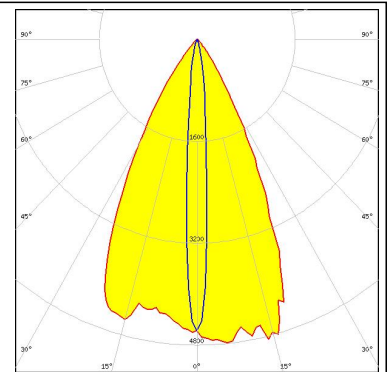
LED XP-E  
 FWHM 48.0 + 10.0°  
 Efficiency 87 %  
 Peak intensity 4.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

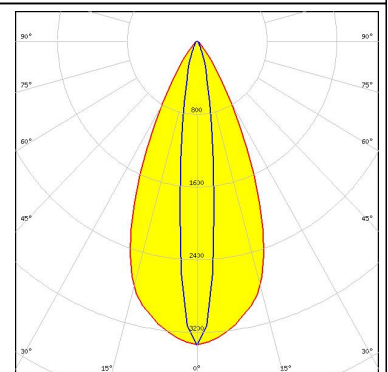
**CREE** 

LED XP-E2  
 FWHM 54.0 + 9.0°  
 Efficiency 85 %  
 Peak intensity 4.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



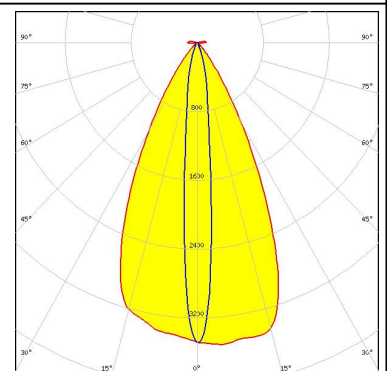
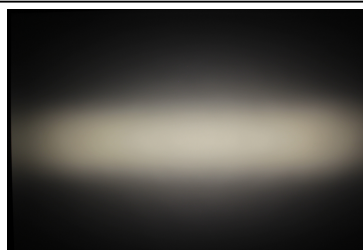
**CREE** 

LED XP-G  
 FWHM 47.0 + 14.0°  
 Efficiency 87 %  
 Peak intensity 3.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



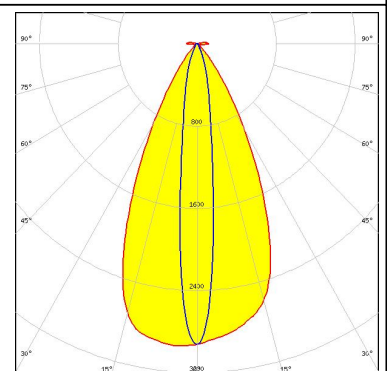
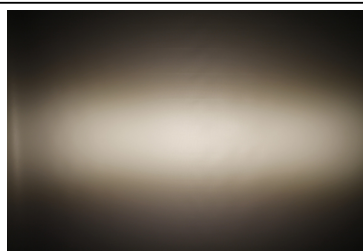
**CREE** 

LED XP-G2  
 FWHM 52.0 + 11.0°  
 Efficiency 91 %  
 Peak intensity 3.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**CREE** 

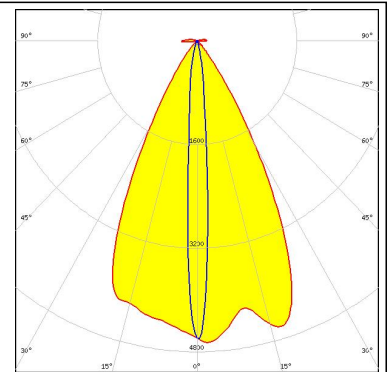
LED XP-G3  
 FWHM 51.0 + 13.0°  
 Efficiency 91 %  
 Peak intensity 3.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



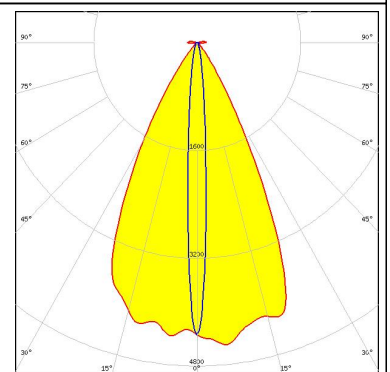
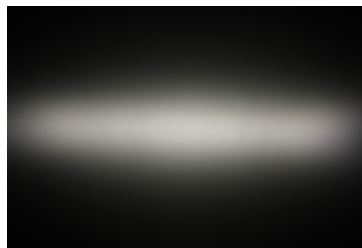
#### PHOTOMETRIC DATA (MEASURED):



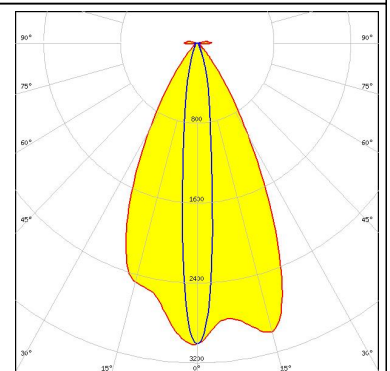
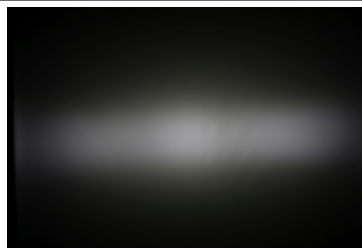
LED XQ-E HD  
 FWHM 55.0 + 8.0°  
 Efficiency 93 %  
 Peak intensity 4.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



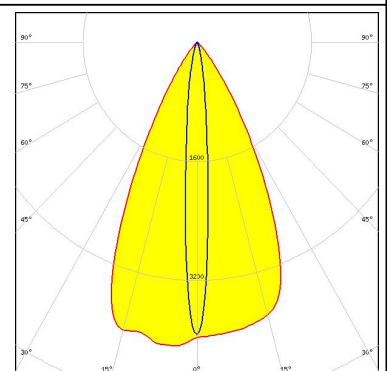
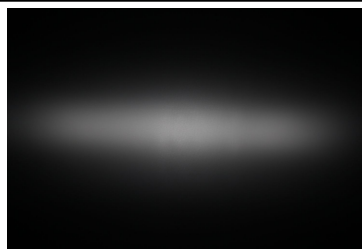
LED XQ-E HI  
 FWHM 53.0 + 7.0°  
 Efficiency 90 %  
 Peak intensity 4.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XT-E  
 FWHM 52.0 + 12.0°  
 Efficiency 91 %  
 Peak intensity 3.025 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



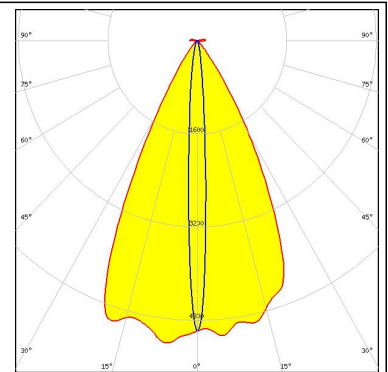
LED LUXEON C  
 FWHM 53.0 + 9.0°  
 Efficiency 81 %  
 Peak intensity 4.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

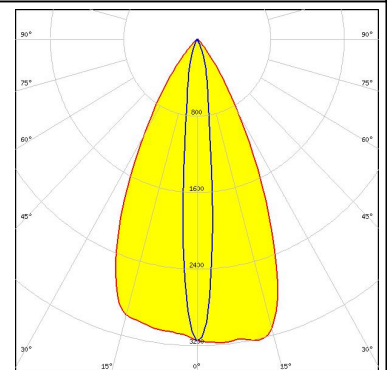
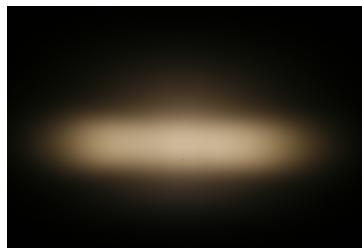
##### LUMILEDS

LED LUXEON CZ  
 FWHM 53.0 + 7.0°  
 Efficiency 92 %  
 Peak intensity 5.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



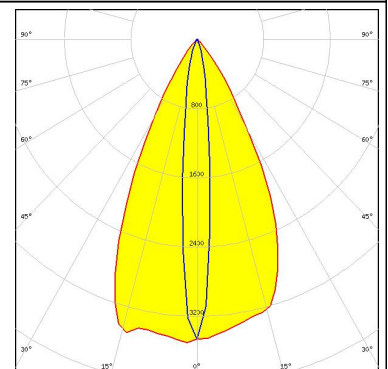
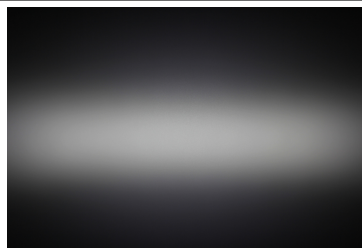
##### LUMILEDS

LED LUXEON T  
 FWHM 52.0 + 12.0°  
 Efficiency 81 %  
 Peak intensity 3.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



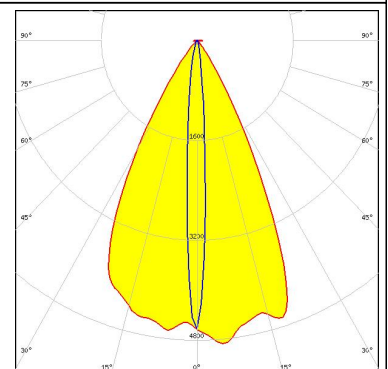
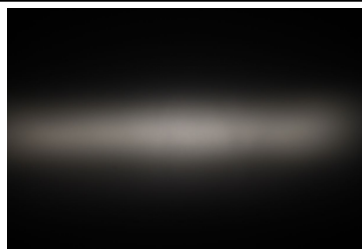
##### LUMILEDS

LED LUXEON TX  
 FWHM 54.0 + 12.0°  
 Efficiency 82 %  
 Peak intensity 3.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

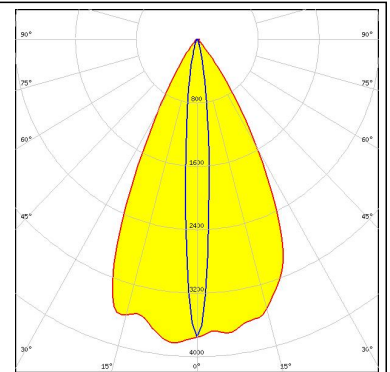
LED LUXEON Z  
 FWHM 55.0 + 7.5°  
 Efficiency 87 %  
 Peak intensity 4.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

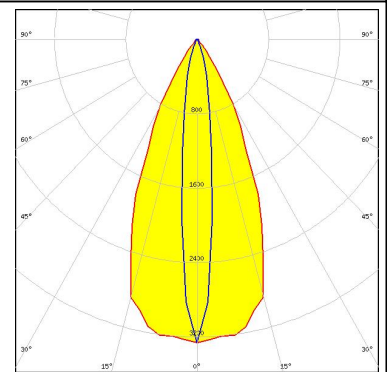
#### LUMILEDS

LED LUXEON Z ES  
 FWHM 54.0 + 9.6°  
 Efficiency 85 %  
 Peak intensity 3.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



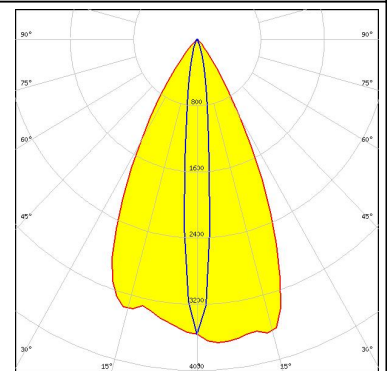
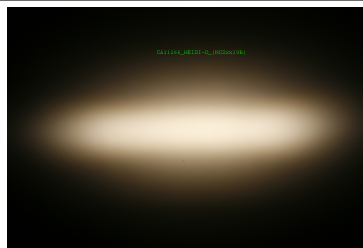
#### NICHIA

LED NCSxx19A  
 FWHM 46.0 + 12.0°  
 Efficiency 82 %  
 Peak intensity 3.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



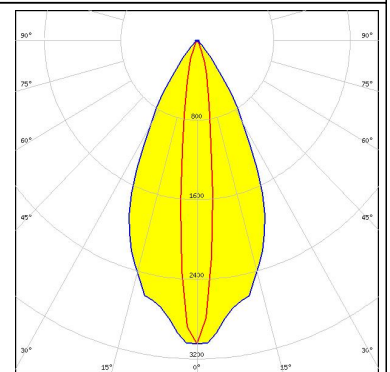
#### NICHIA

LED NCSxx19B  
 FWHM 55.0 + 11.0°  
 Efficiency 83 %  
 Peak intensity 3.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### NICHIA

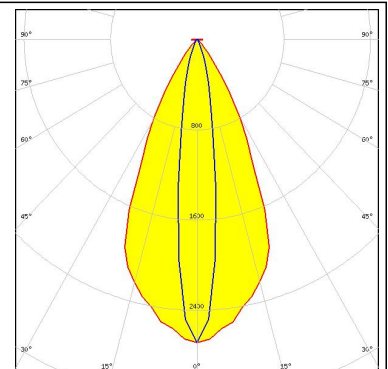
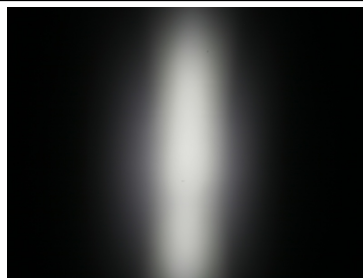
LED NVSxx19A  
 FWHM 50.0 + 12.0°  
 Efficiency 82 %  
 Peak intensity 3.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



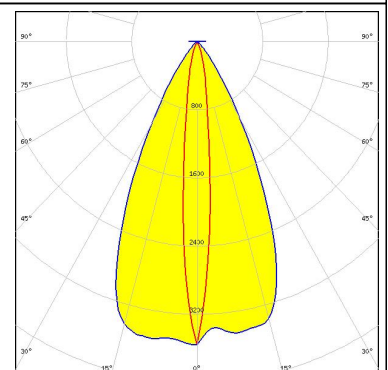
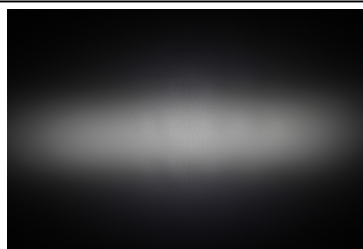
### PHOTOMETRIC DATA (MEASURED):



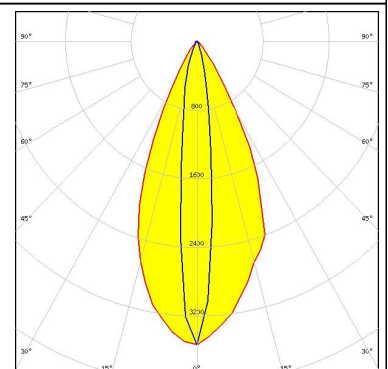
LED NVSxx19B/NVSxx19C  
 FWHM 48.0 + 15.0°  
 Efficiency 82 %  
 Peak intensity 2.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



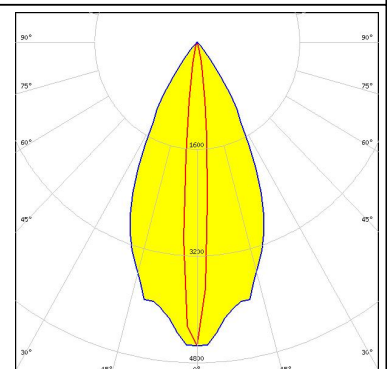
LED OSLOM Square CSSRM2/CSSRM3  
 FWHM 52.0 + 13.0°  
 Efficiency 80 %  
 Peak intensity 3.670 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM Square EC  
 FWHM 48.0 + 12.0°  
 Efficiency 86 %  
 Peak intensity 3.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM SSL 150  
 FWHM 50.0 + 8.0°  
 Efficiency 85 %  
 Peak intensity 4.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

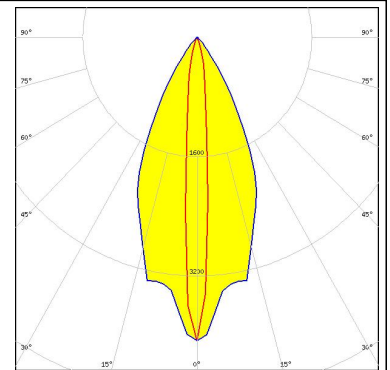




#### PHOTOMETRIC DATA (MEASURED):

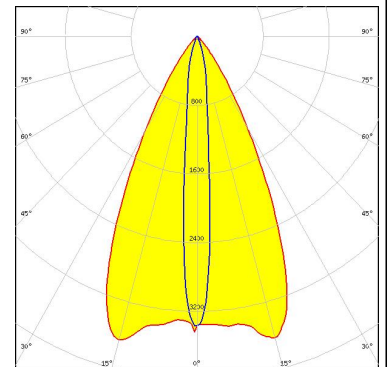
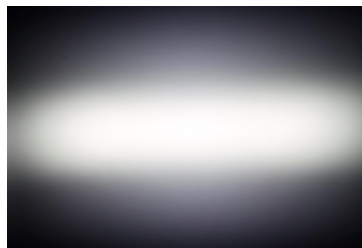
#### OSRAM

Opto Semiconductors  
 LED OSLON SSL 80  
 FWHM 47.0 + 8.0°  
 Efficiency 83 %  
 Peak intensity 4.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



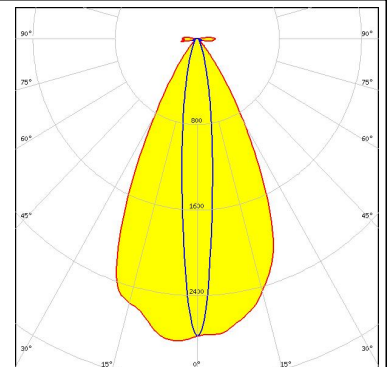
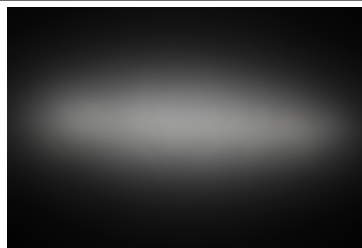
#### PHILIPS

LED Fortimo FastFlex 2x8 DS G3  
 FWHM 55.0 + 11.0°  
 Efficiency 86 %  
 Peak intensity 3.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



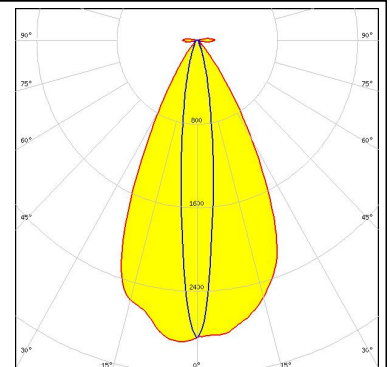
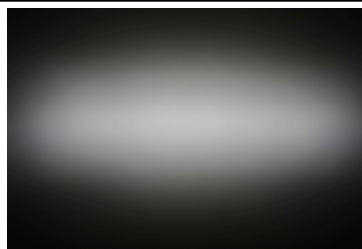
#### SAMSUNG

LED LH181A  
 FWHM 52.0 + 12.0°  
 Efficiency 93 %  
 Peak intensity 2.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

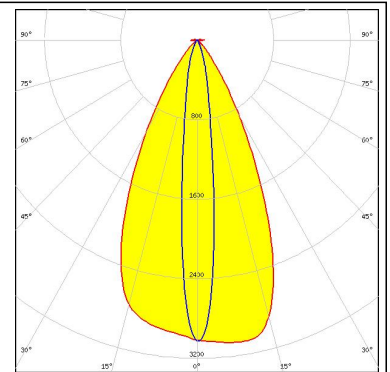
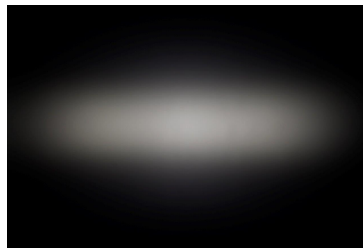
LED LH181B  
 FWHM 53.0 + 13.0°  
 Efficiency 90 %  
 Peak intensity 2.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

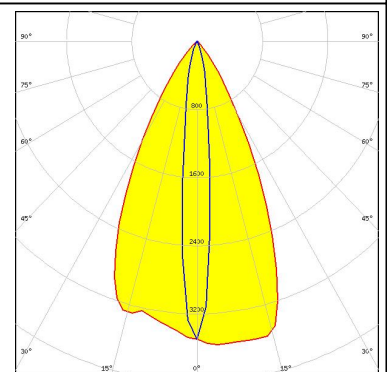
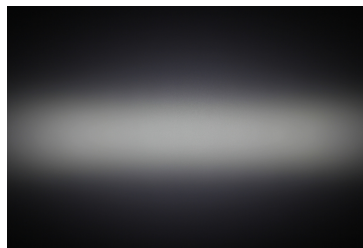
### SAMSUNG

LED LH351B  
 FWHM 51.0 + 13.0°  
 Efficiency 84 %  
 Peak intensity 3.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



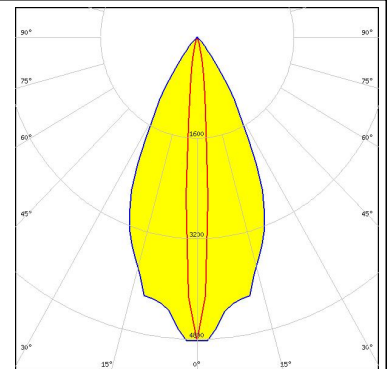
### SAMSUNG

LED LH351Z  
 FWHM 54.0 + 12.0°  
 Efficiency 83 %  
 Peak intensity 3.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



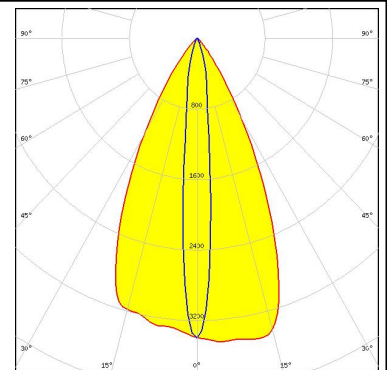
SEOUL SEMICONDUCTOR

LED Z5  
 FWHM 50.0 + 9.0°  
 Efficiency 86 %  
 Peak intensity 4.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

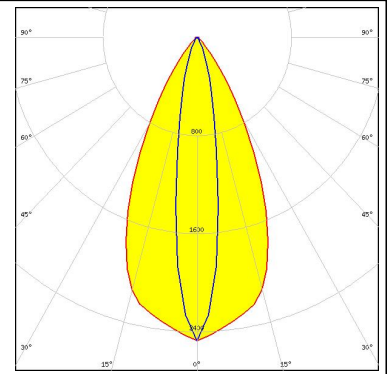
LED Z5M1/Z5M2  
 FWHM 53.0 + 11.0°  
 Efficiency 85 %  
 Peak intensity 3.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

### SHARP

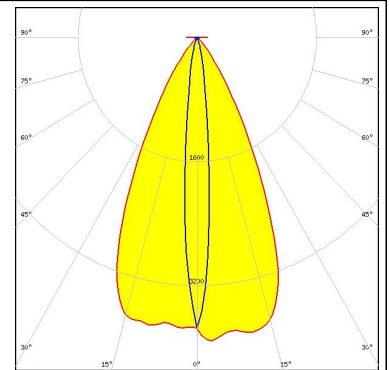
LED Double Dome (GM2BB)  
FWHM 50.0 + 16.0°  
Efficiency 85 %  
Peak intensity 2.500 cd/m  
LEDs/each optic 1  
Light colour White  
Required components:



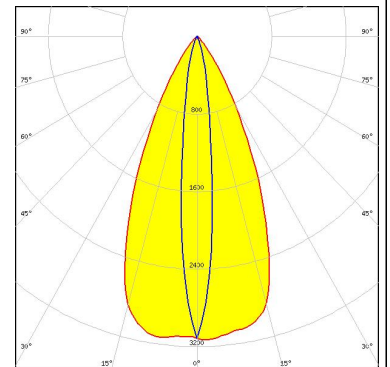
### PHOTOMETRIC DATA (SIMULATED):



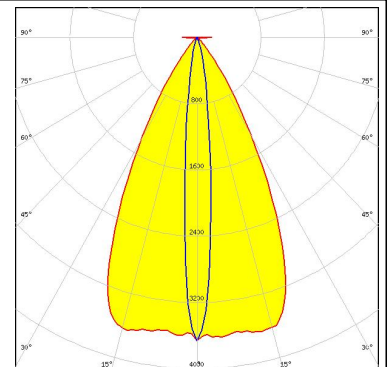
LED XB-D  
FWHM 52.0 + 10.0°  
Efficiency 88 %  
Peak intensity 3.918 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



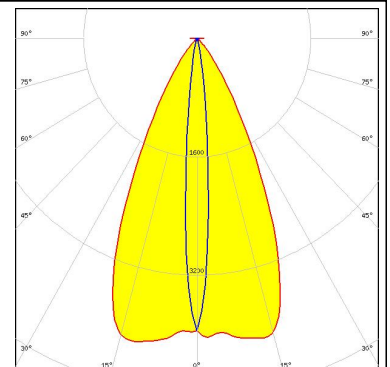
LED H35C0 (LEMWA33)  
FWHM 49.0 + 12.0°  
Efficiency 79 %  
Peak intensity 3.130 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 3030 HV  
FWHM 55.0 + 11.0°  
Efficiency 90 %  
Peak intensity 3.660 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON SunPlus 20 Line (150 deg)  
FWHM 52.0 + 10.0°  
Efficiency 87 %  
Peak intensity 4.198 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NF2x757G            FWHM 54.0 + 12.0°            Efficiency 91 %            Peak intensity 3.280 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NFSx757G            FWHM 54.0 + 10.0°            Efficiency 0 %            Peak intensity 3.720 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSCONIQ P 3030            FWHM 53.0 + 8.0°            Efficiency 89 %            Peak intensity 4.450 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSOLON Black Flat            FWHM 49.7 + 7.8°            Efficiency 93 %            Peak intensity 4.990 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

### 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)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Ledil:

[CA11266\\_HEIDI-O](#)