

## LINNEA-90

~90° + 90° wide beam optimized for 1.0 mm metal sheet or profile. Variant made from PC.



### TECHNICAL SPECIFICATIONS:

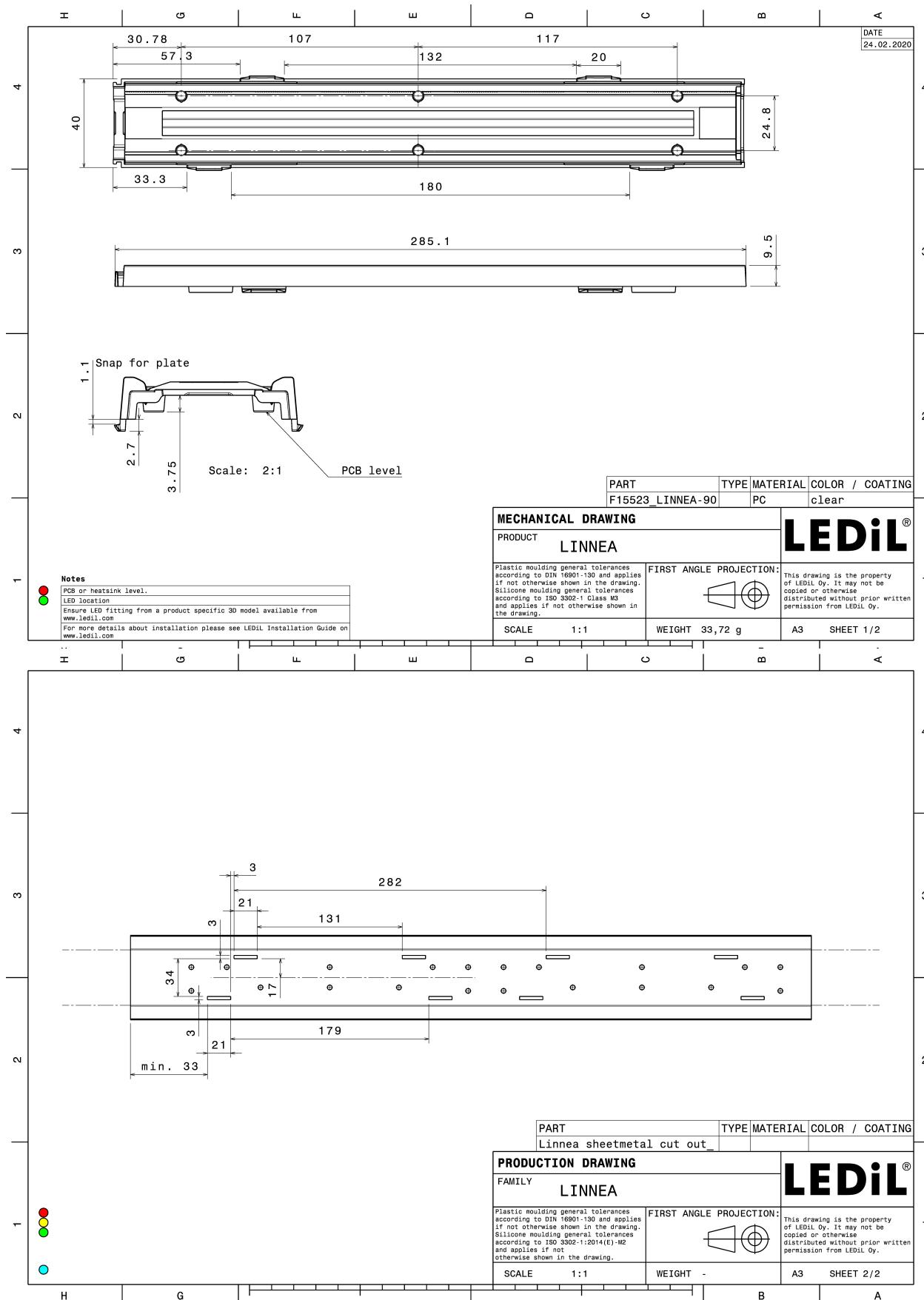
Dimensions	285.0 x 40.0 mm
Height	9.5 mm
Fastening	clips
ROHS compliant	yes ⓘ

### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LINNEA-90	Linear lens	PC	clear	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F15523_LINNEA-90 » Box size: 398 x 298 x 265 mm	162	36	36	6.6

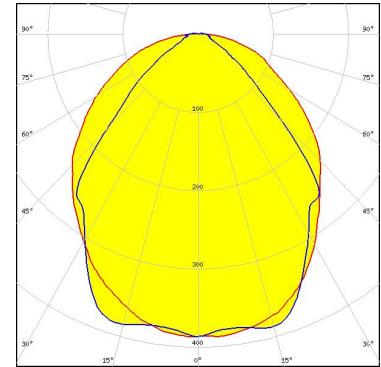


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

## PHOTOMETRIC DATA (MEASURED):

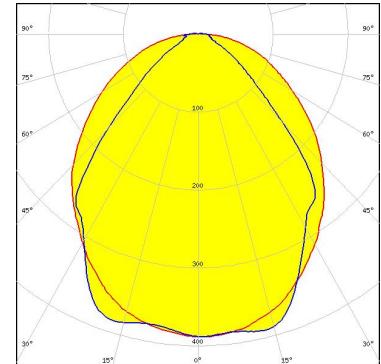
**a**led

LED CALOSNU405-M7W1  
 FWHM 104.0 + 87.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



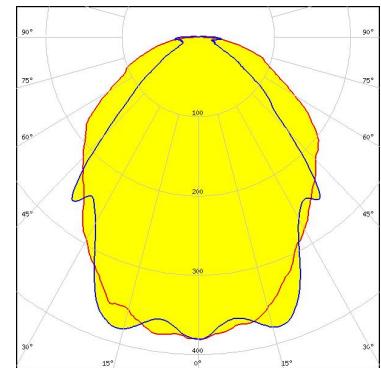
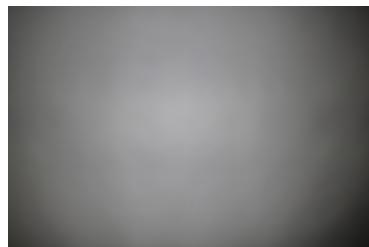
**a**led

LED CALOSNU410-M7W1  
 FWHM 104.0 + 86.0°  
 Efficiency 83 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



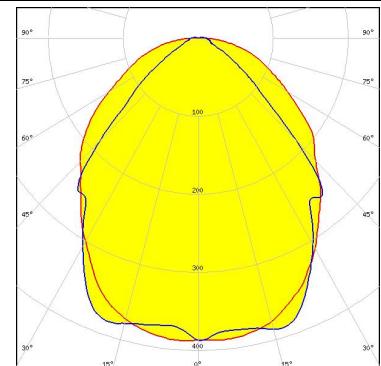
**CREE** ▲

LED XP-E  
 FWHM 104.0 + 88.0°  
 Efficiency 81 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**Helvar**

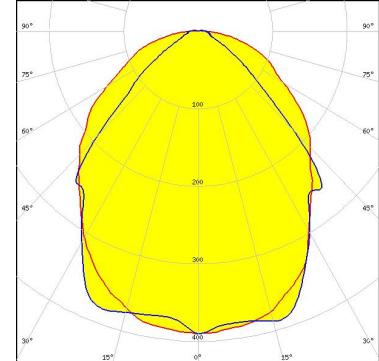
LED L-iC-282-827-865-011A  
 FWHM 102.0 + 89.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

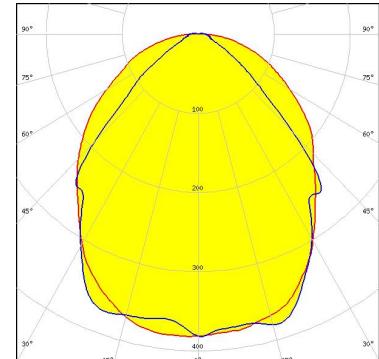
### Helvar

LED LP-282-840-009A 60/300  
 FWHM 100.0 + 89.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



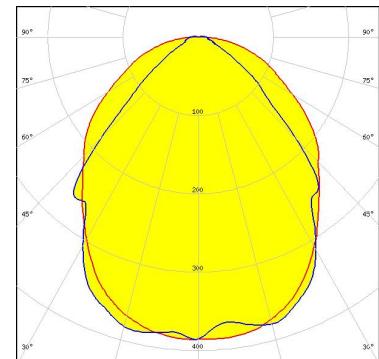
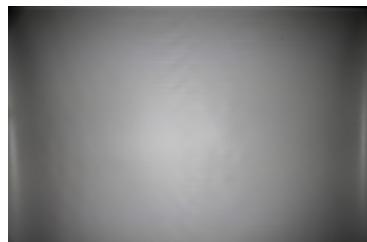
### Helvar

LED LS-282-840-011A  
 FWHM 102.0 + 90.0°  
 Efficiency 81 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



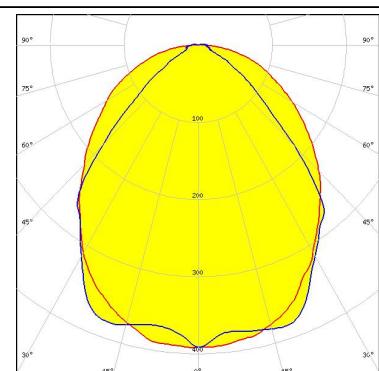
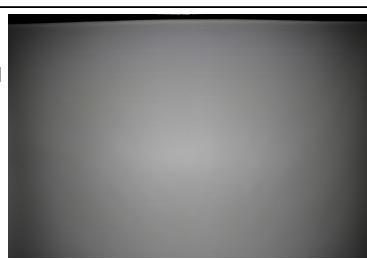
### Helvar

LED LX-282-840-023A  
 FWHM 102.0 + 89.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### MST | Your solutions

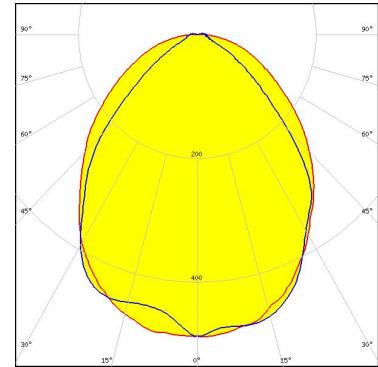
LED LinLED 280x24mm 1100lm 8x0 4C 30V Opt G1  
 FWHM 88.0 + 100.0°  
 Efficiency 83 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



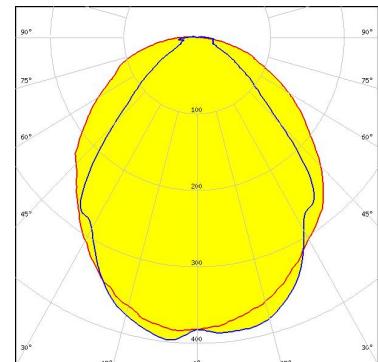
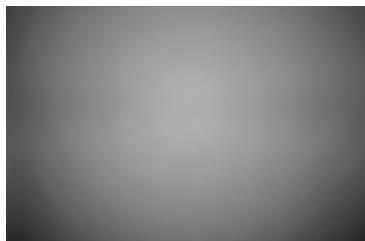
## PHOTOMETRIC DATA (MEASURED):



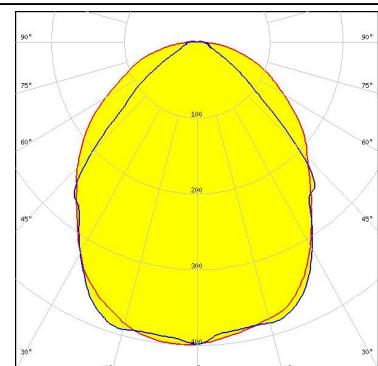
LED NF2x757D  
 FWHM 86.0 + 99.0°  
 Efficiency 0 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



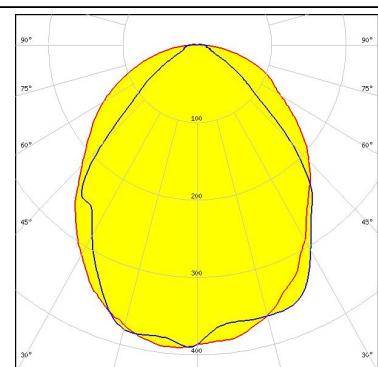
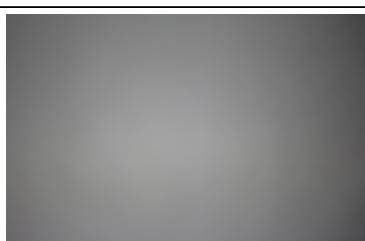
LED NF2x757G  
 FWHM 105.0 + 85.0°  
 Efficiency 83 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NFSW757H  
 FWHM 100.0 + 90.0°  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



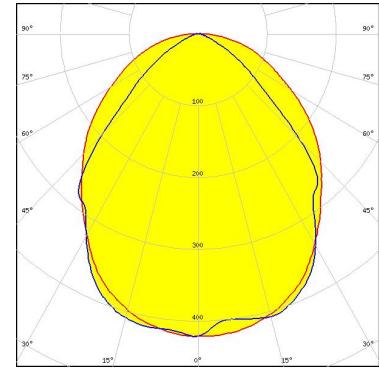
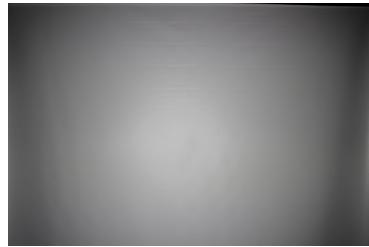
LED NFSx757G  
 FWHM 98.0 + 88.0°  
 Efficiency 81 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

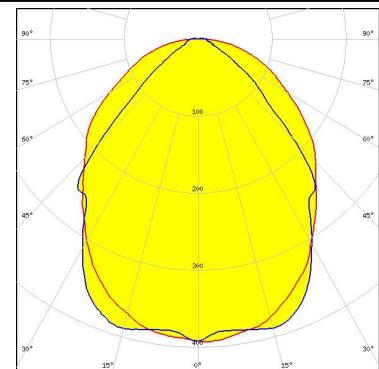
### OSRAM

LED PL-LIN-IND-Z1 2800 560x24  
 FWHM 101.0 + 89.0°  
 Efficiency 87 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



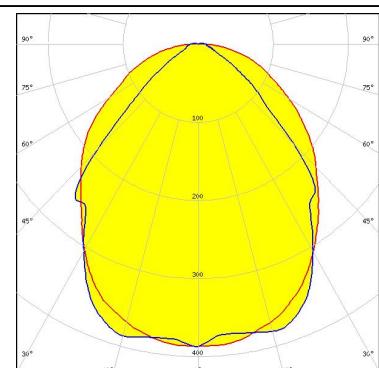
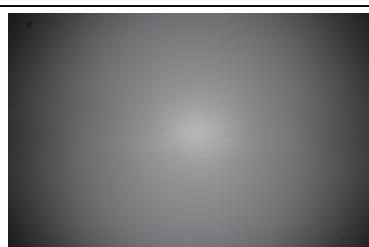
### OSRAM

LED PL-LIN-Z5 1100 280x20  
 FWHM 101.0 + 89.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



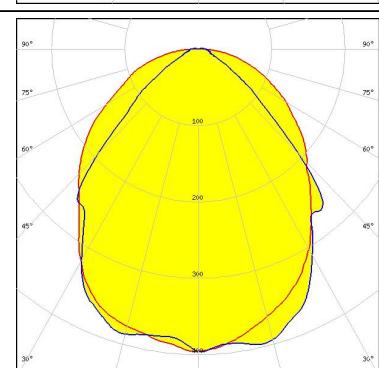
### OSRAM

LED PL-LIN-Z5 2000 280x20  
 FWHM 101.0 + 89.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OSRAM

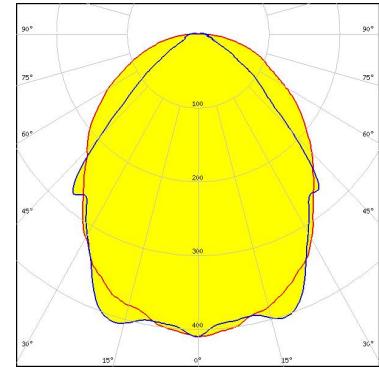
Opto Semiconductors  
 LED Duris S5 (2 chip)  
 FWHM 99.0 + 89.0°  
 Efficiency 83 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

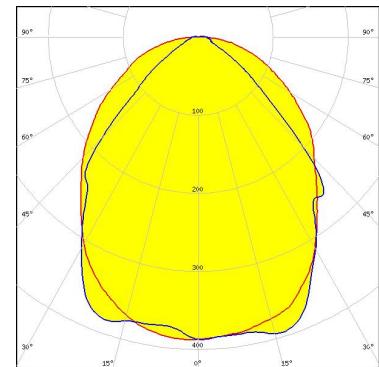
**OSRAM**  
Opto Semiconductors

LED Duris S5 (Single chip)  
FWHM 98.0 + 89.0°  
Efficiency 85 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



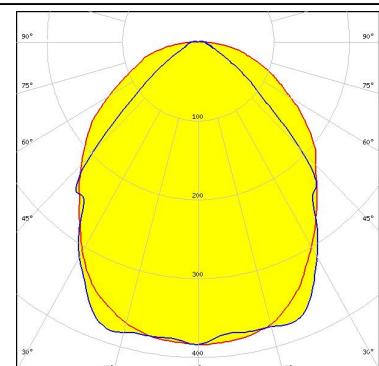
**PHILIPS**

LED Fortimo LED Strip 1ft 1100lm FC HV4 & LV4  
FWHM 100.0 + 89.0°  
Efficiency 82 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



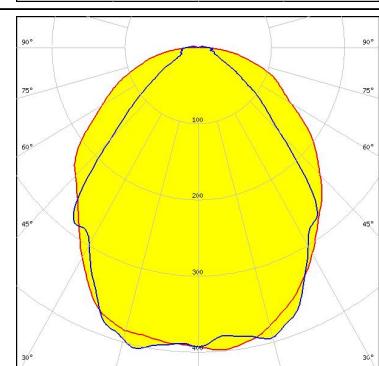
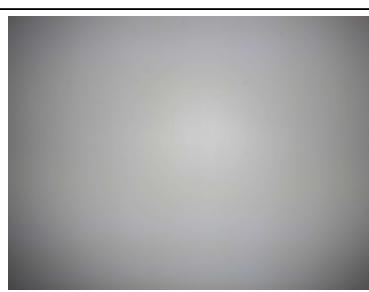
**PHILIPS**

LED Fortimo LED Strip 1ft 650lm FC HV4 & LV4  
FWHM 102.0 + 90.0°  
Efficiency 82 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**SAMSUNG**

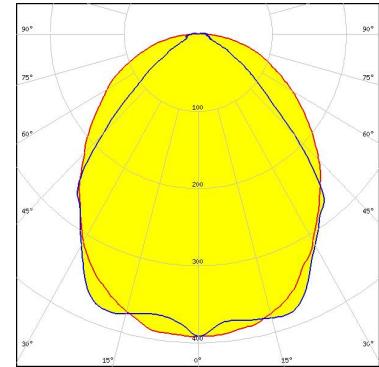
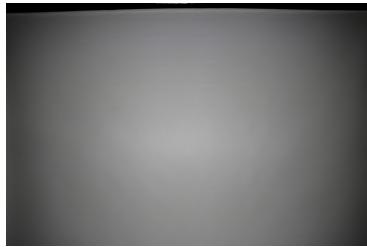
LED LM28xB Series  
FWHM 105.0 + 86.0°  
Efficiency 84 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (MEASURED):

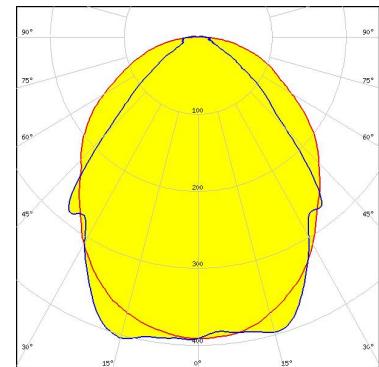
### SAMSUNG

LED LM561B Plus  
 FWHM 88.0 + 100.0°  
 Efficiency 83 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



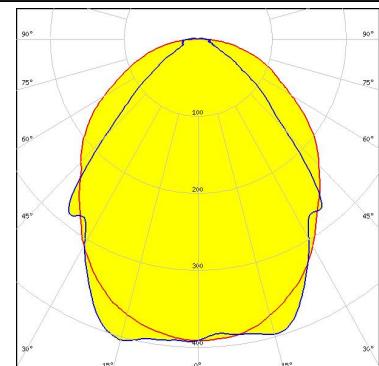
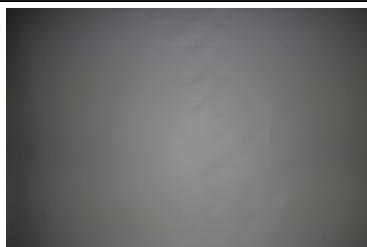
### SAMSUNG

LED LT-H282C  
 FWHM 103.0 + 87.0°  
 Efficiency 84 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



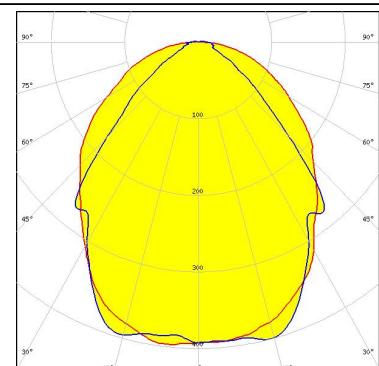
### SAMSUNG

LED LT-H562C  
 FWHM 103.0 + 87.0°  
 Efficiency 84 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

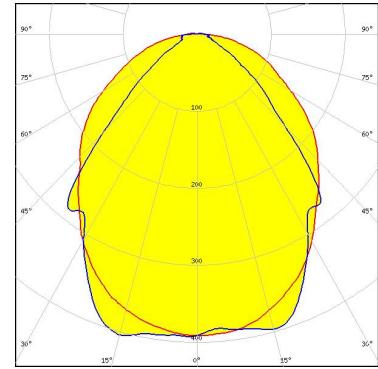
LED LT-Q282B  
 FWHM 101.0 + 87.0°  
 Efficiency 84 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

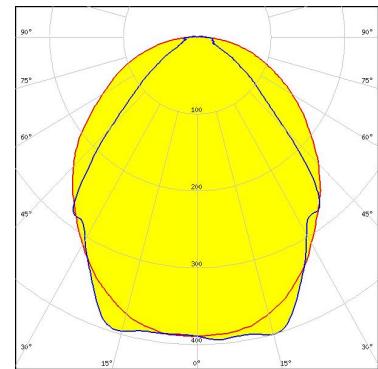
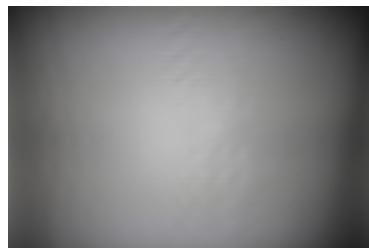
### SAMSUNG

LED LT-S282H  
 FWHM 104.0 + 86.0°  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



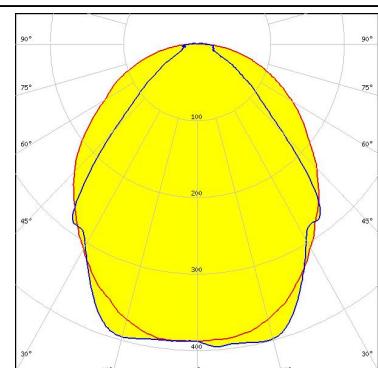
### SAMSUNG

LED LT-S562H  
 FWHM 104.0 + 86.0°  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



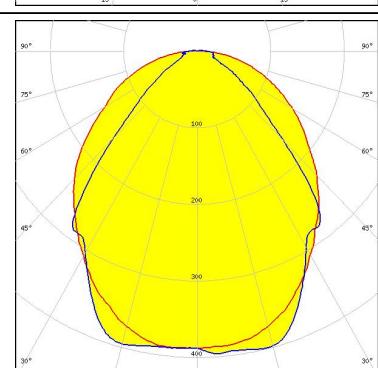
### SAMSUNG

LED LT-V282E  
 FWHM 103.0 + 86.0°  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

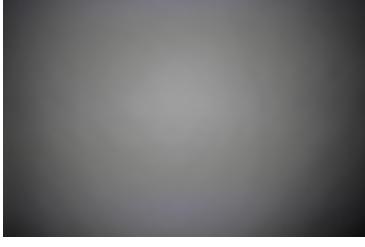
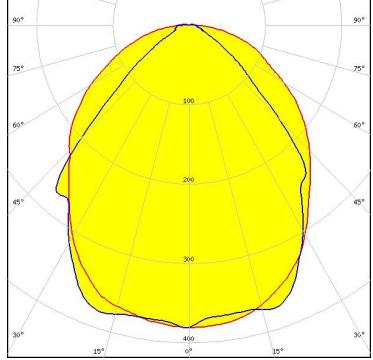
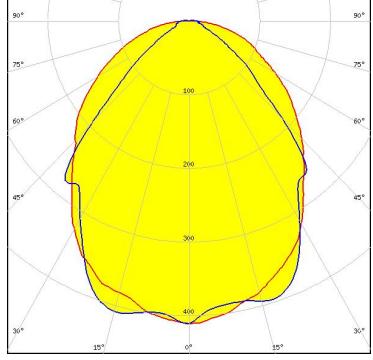
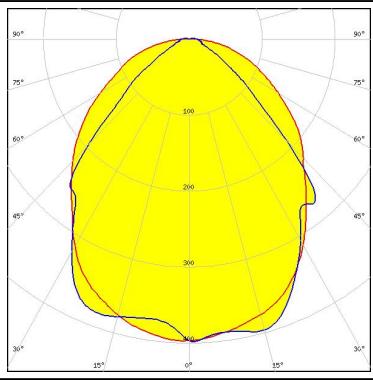
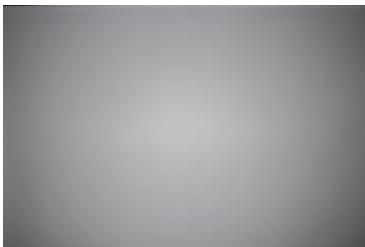
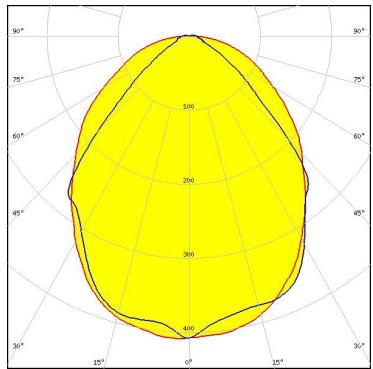


### SAMSUNG

LED LT-V562E  
 FWHM 103.0 + 86.0°  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



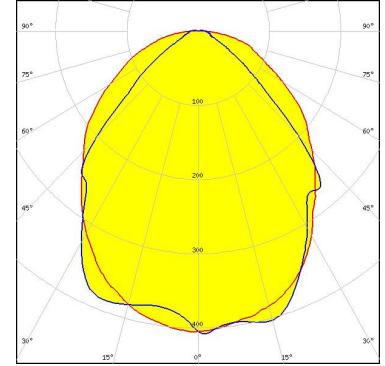
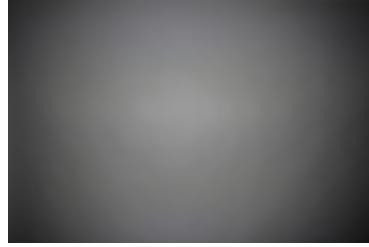
## PHOTOMETRIC DATA (MEASURED):

 <b>SEOUL SEMICONDUCTOR</b> LED SEOUL 5630D FWHM 93.0° Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:		
 <b>SEOUL SEMICONDUCTOR</b> LED SEOUL DC 3030 FWHM 99.0 + 88.0° Efficiency 85 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:		
<b>TRIDONIC</b> LED LLE G4 24x280mm 1250lm FWHM 100.0 + 89.0° Efficiency 83 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:		
<b>TRIDONIC</b> LED LLE G4 24x280mm 2000lm ADV FWHM 98.0 + 88.0° Efficiency 83 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:		

## PHOTOMETRIC DATA (MEASURED):

### TRIDONIC

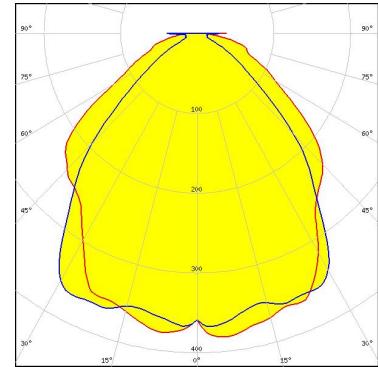
LED LLE G4 24x280mm 650lm  
FWHM 99.0 + 89.0°  
Efficiency 84 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (SIMULATED):

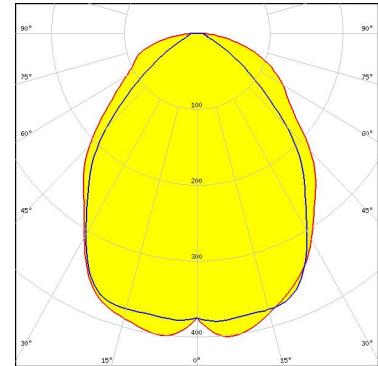
### CREE

LED XP-G3  
 FWHM 105.0 + 89.0°  
 Efficiency 81 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



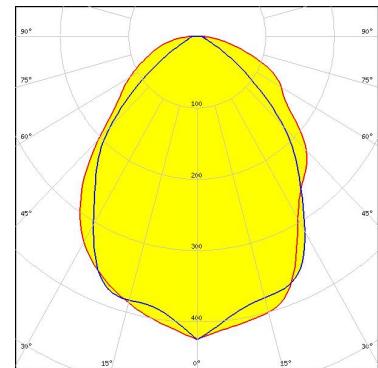
### LUMILEDS

LED LUXEON 3030 2D (Round LES)  
 FWHM 93.0 + 84.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



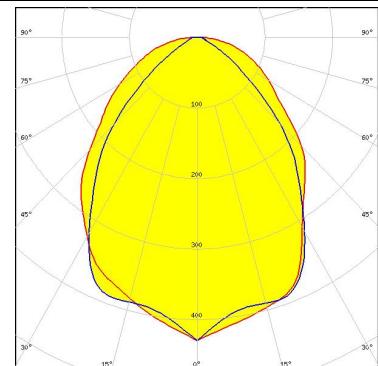
### OSRAM

Opto Semiconductors  
 LED Duris E 2835  
 FWHM 83.0 + 91.0°  
 Efficiency 82 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SEOUL SEMICONDUCTOR

LED SEOUL DC 3030C  
 FWHM 91.0 + 82.0°  
 Efficiency 82 %  
 Peak intensity 0.4 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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Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

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