

## LINNEA-UP

Asymmetric beam for uplighting optimized for 1.0 mm metal sheet or profile. Variant made from PC.

### SPECIFICATION:

Dimensions	285.0 x 40.0 mm
Height	10.3 mm
Fastening	clips
ROHS compliant	yes ⓘ

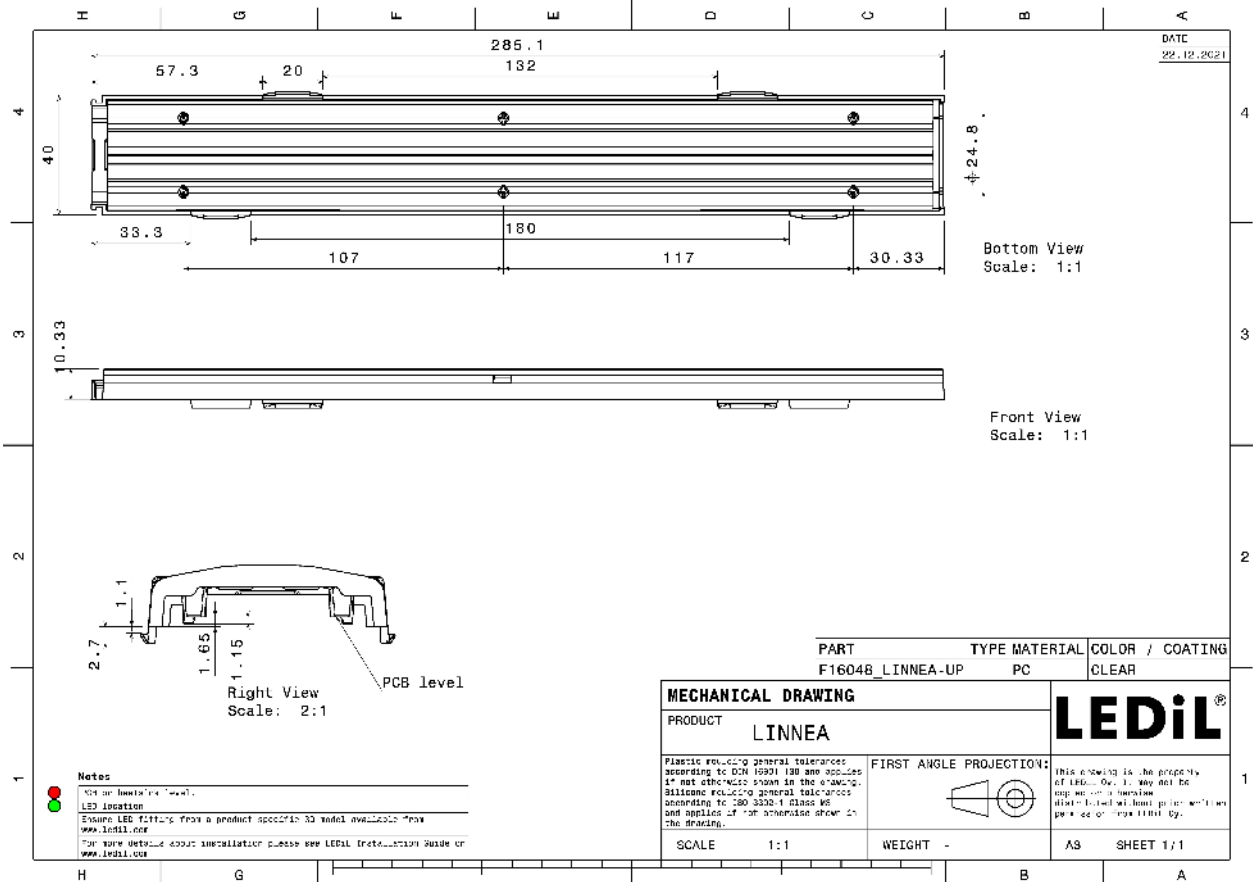


### MATERIALS:

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

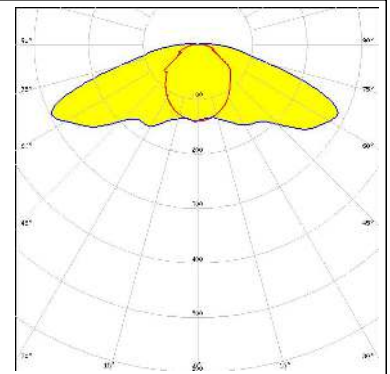
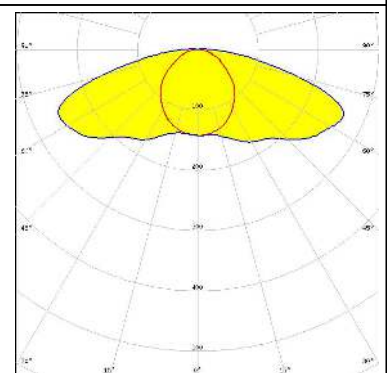
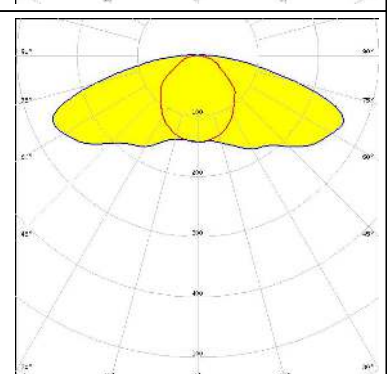
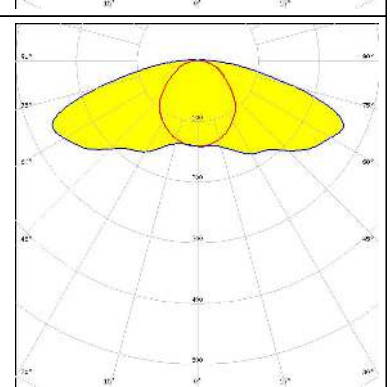
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F16048_LINNEA-UP » Box size: 398 x 298 x 265 mm	162	36	36	8.2

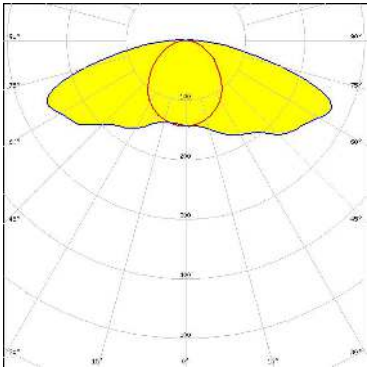
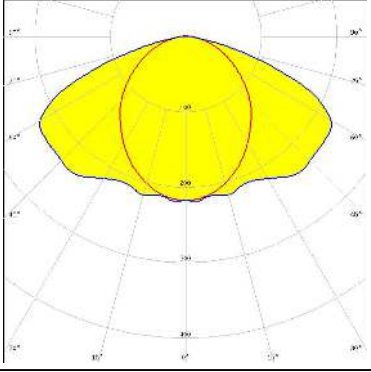
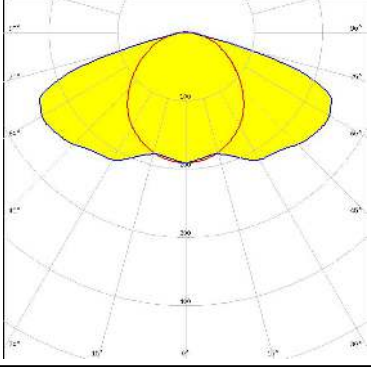
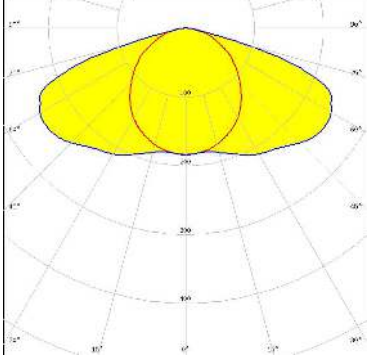


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)


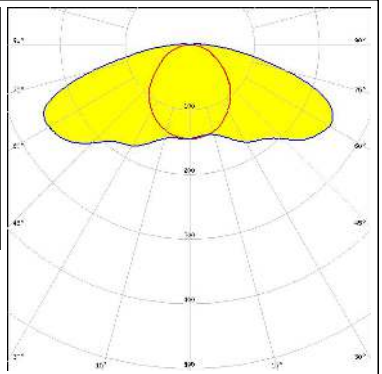
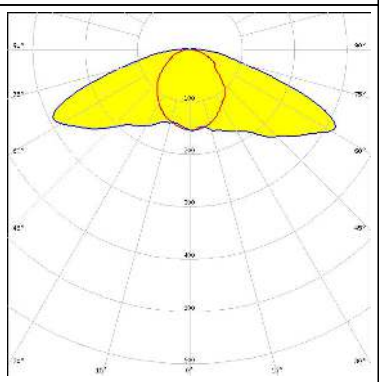
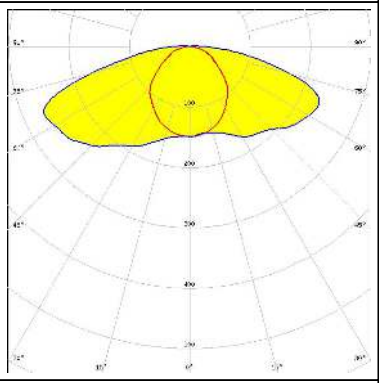
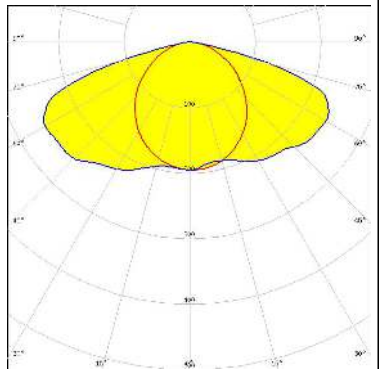
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED                    XP-E  FWHM / FWTM        Asymmetric  Efficiency             76 %  Peak intensity        0.3 cd/m  LEDs/each optic     1  Light colour          White  Required components:</p>	
<p><b>Helvar</b></p> <p>LED                    L-iC-282-827-865-011A  FWHM / FWTM        Asymmetric  Efficiency             74 %  Peak intensity        0.3 cd/m  LEDs/each optic     1  Light colour          White  Required components:</p>	
<p><b>Helvar</b></p> <p>LED                    LP-282-840-009A 60/300  FWHM / FWTM        Asymmetric  Efficiency             75 %  Peak intensity        0.3 cd/m  LEDs/each optic     1  Light colour          White  Required components:</p>	
<p><b>Helvar</b></p> <p>LED                    LS-282-840-011A  FWHM / FWTM        Asymmetric  Efficiency             74 %  Peak intensity        0.3 cd/m  LEDs/each optic     1  Light colour          White  Required components:</p>	

### OPTICAL RESULTS (MEASURED):

<p><b>Helvar</b></p> <p>LED LX-282-840-023A</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 75 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMITRONIX<sup>®</sup></b> <small>High-performance LED components for 6000K and 5000K</small></p> <p>LED LinearZ 280-112 Circadian TW</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 77 %</p> <p>Peak intensity 0.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components:</p>	
<p><b>LUMITRONIX<sup>®</sup></b> <small>High-performance LED components for 6000K and 5000K</small></p> <p>LED LinearZ 280-26</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 75 %</p> <p>Peak intensity 0.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMITRONIX<sup>®</sup></b> <small>High-performance LED components for 6000K and 5000K</small></p> <p>LED LinearZ 280-40 TW</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 76 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Tunable White</p> <p>Required components:</p>	

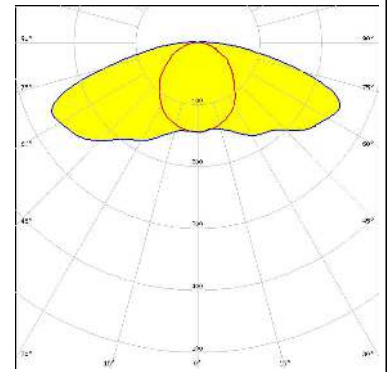
### OPTICAL RESULTS (MEASURED):

<p><b>MST</b> <i>Your solutions</i></p> <p>LED LinLED 280x24mm 1100lm 830 2C 30V LINNEA-GC G1</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 76 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NF2x757G</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 77 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NFSW757H</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 74 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b></p> <p>LED PL-LIN-IND-Z1 2800 560x24</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 78 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### OPTICAL RESULTS (MEASURED):

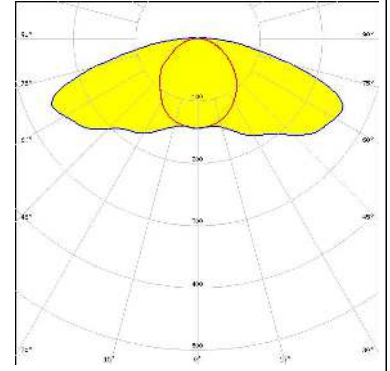
#### OSRAM

LED PL-LIN-Z5 1100 280x20  
 FWHM / FWTM Asymmetric  
 Efficiency 74 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



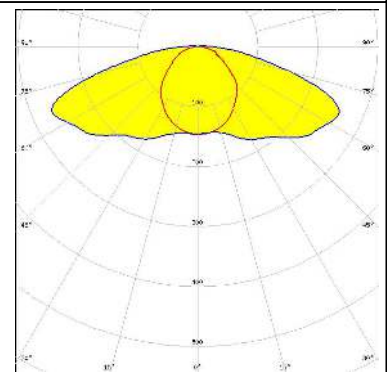
#### OSRAM

LED PL-LIN-Z5 2000 280x20  
 FWHM / FWTM Asymmetric  
 Efficiency 74 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



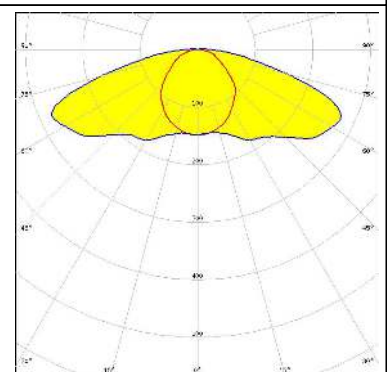
#### OSRAM

Osram Semiconductors  
 LED Duris S5 (2 chip)  
 FWHM / FWTM Asymmetric  
 Efficiency 75 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

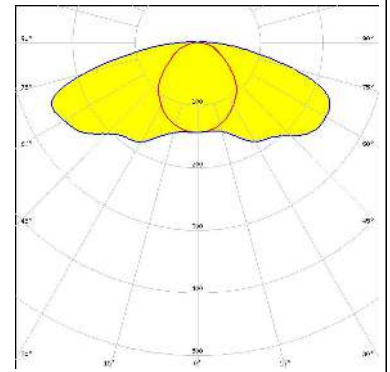
Osram Semiconductors  
 LED Duris S5 (Single chip)  
 FWHM / FWTM Asymmetric  
 Efficiency 76 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

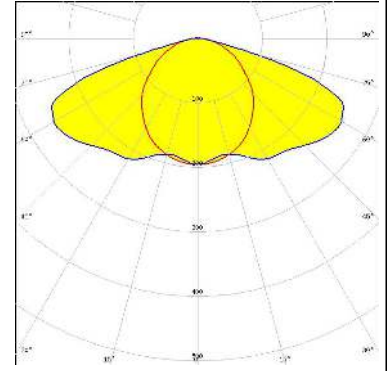
#### PHILIPS

LED Fortimo LED Strip 1ft 1100lm FC HV4 & LV4  
 FWHM / FWTM Asymmetric  
 Efficiency 73 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



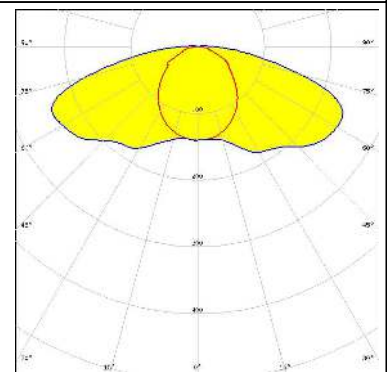
#### PHILIPS

LED Fortimo LED Strip 1ft 1100lm FC HV5 & LV5  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



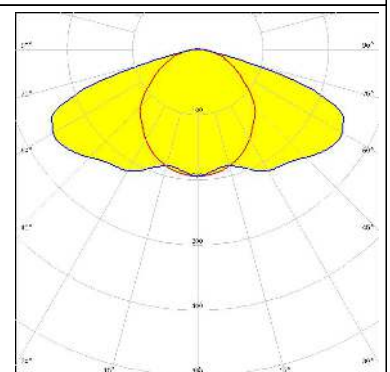
#### PHILIPS

LED Fortimo LED Strip 1ft 650lm FC HV4 & LV4  
 FWHM / FWTM Asymmetric  
 Efficiency 73 %  
 Peak intensity 0.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHILIPS

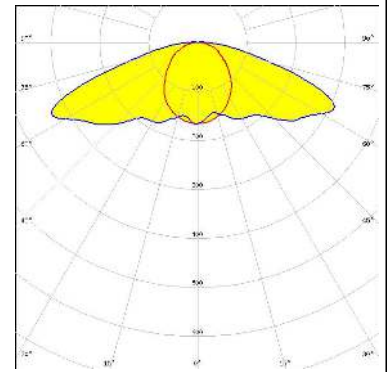
LED Fortimo LED Strip 1ft 650lm FC HV5 & LV5  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

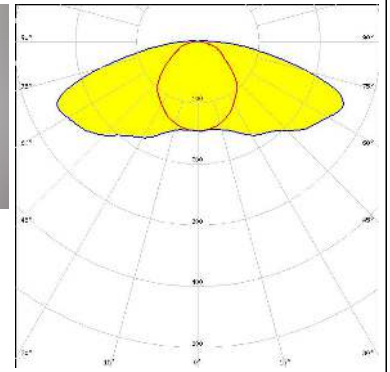
### SAMSUNG

LED LM28xB Series  
 FWHM / FWTM Asymmetric  
 Efficiency 82 %  
 Peak intensity 0.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



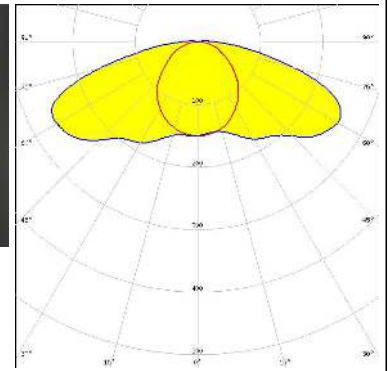
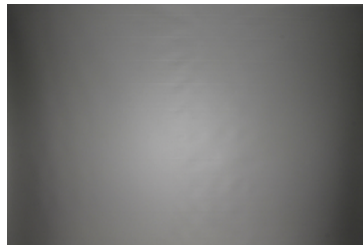
### SAMSUNG

LED LM301B  
 FWHM / FWTM Asymmetric  
 Efficiency 75 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



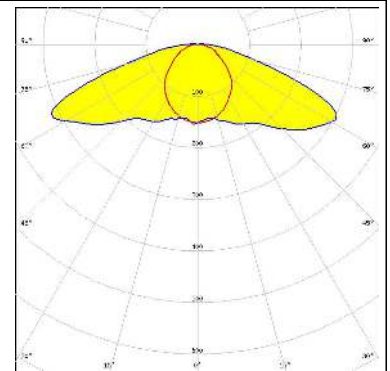
### SAMSUNG

LED LM561B Plus  
 FWHM / FWTM Asymmetric  
 Efficiency 76 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

LED LT-H282C  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

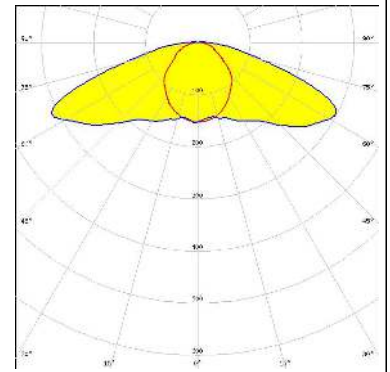




#### OPTICAL RESULTS (MEASURED):

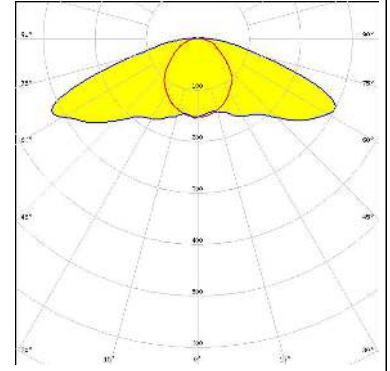
### SAMSUNG

LED LT-Q282B  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



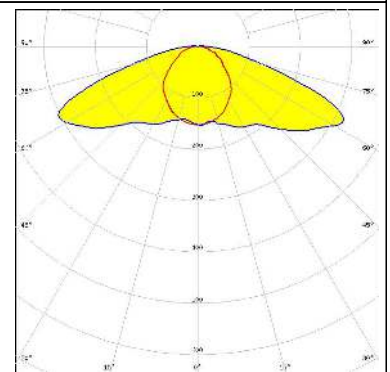
### SAMSUNG

LED LT-S282H  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



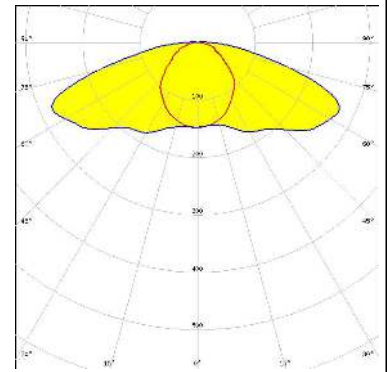
### SAMSUNG

LED LT-V282E  
 FWHM / FWTM Asymmetric  
 Efficiency 77 %  
 Peak intensity 0.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

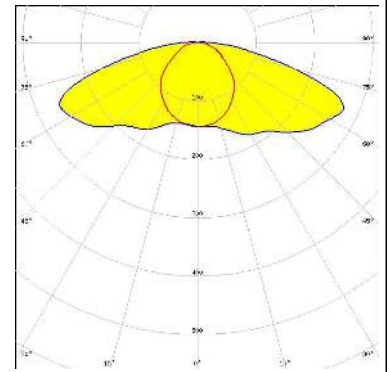
LED SEOUL DC 3030  
 FWHM / FWTM Asymmetric  
 Efficiency 76 %  
 Peak intensity 0.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

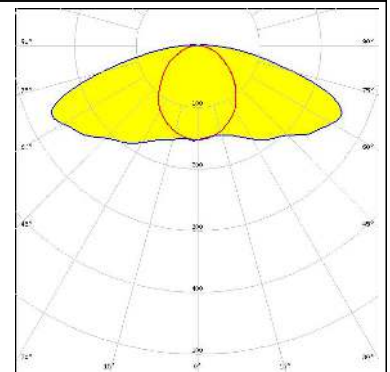
#### TRIDONIC

LED LLE G4 24x280mm 1250lm  
FWHM / FWTM Asymmetric  
Efficiency 75 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



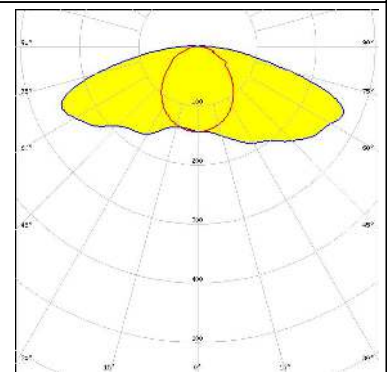
#### TRIDONIC

LED LLE G4 24x280mm 2000lm ADV  
FWHM / FWTM Asymmetric  
Efficiency 75 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:


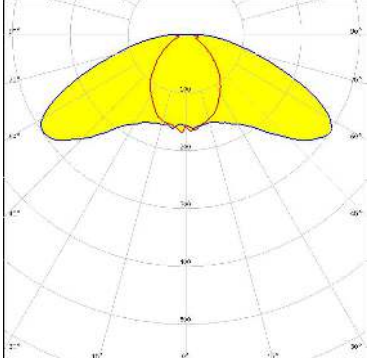

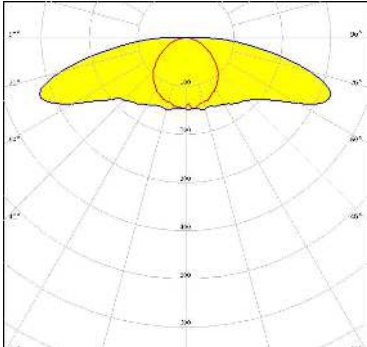


#### TRIDONIC

LED LLE G4 24x280mm 650lm  
FWHM / FWTM Asymmetric  
Efficiency 75 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### OPTICAL RESULTS (SIMULATED):

<p> LUMILEDS</p> <p>LED LUXEON 3030 2D (Round LES)</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 75 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED SEOUL DC 3030C</p> <p>FWHM / FWTM Asymmetric</p> <p>Efficiency 79 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>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.

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

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