

## LINNEA-90-PMMA

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

### TECHNICAL SPECIFICATIONS:

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

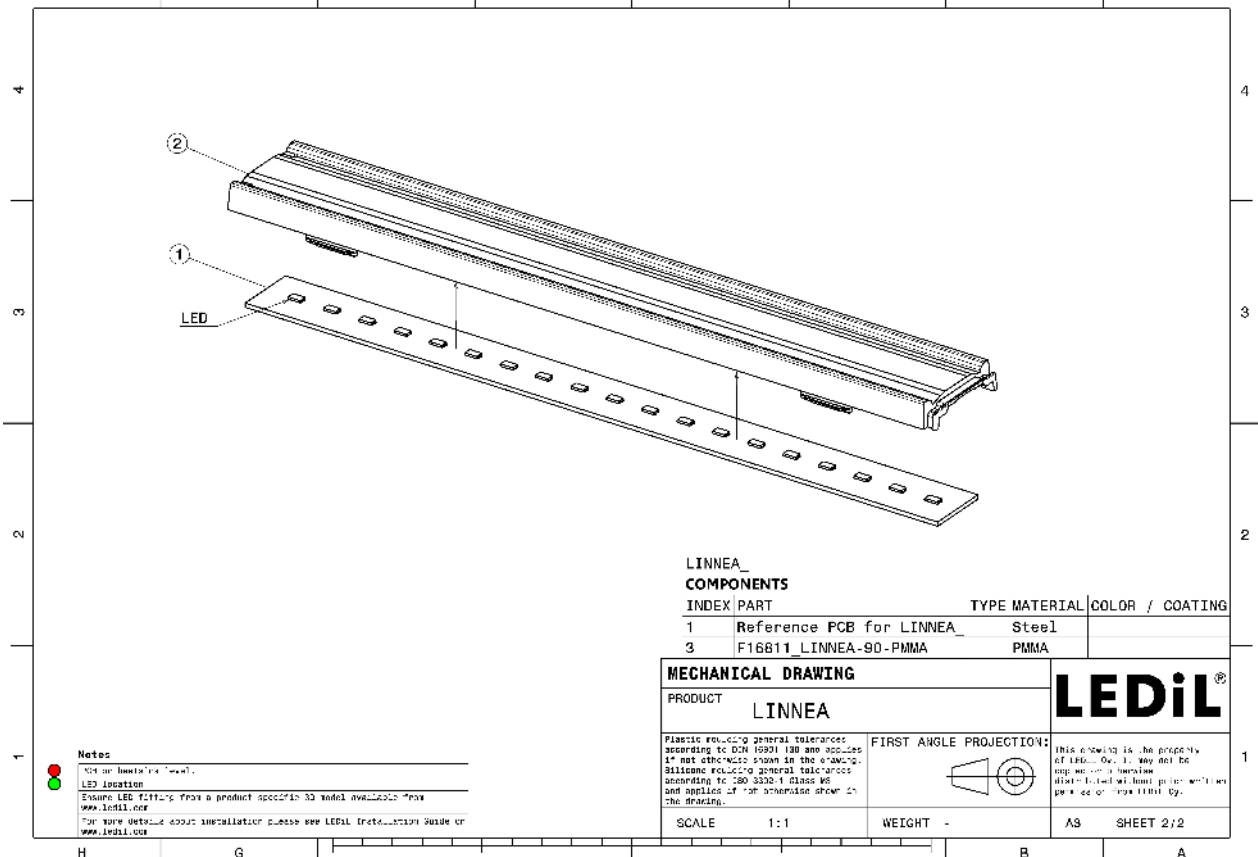
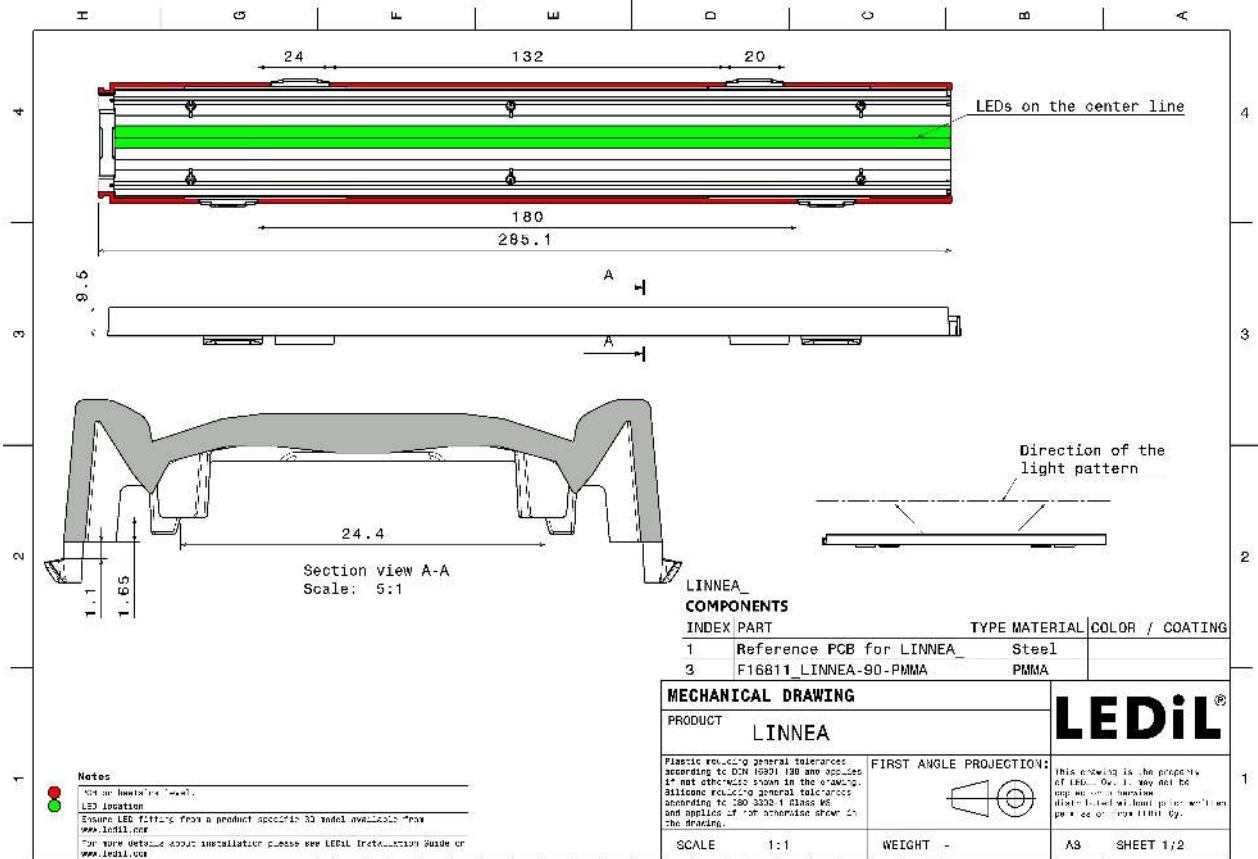
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:


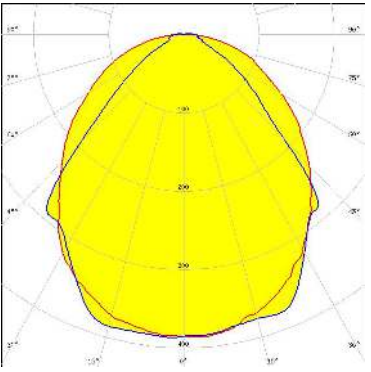
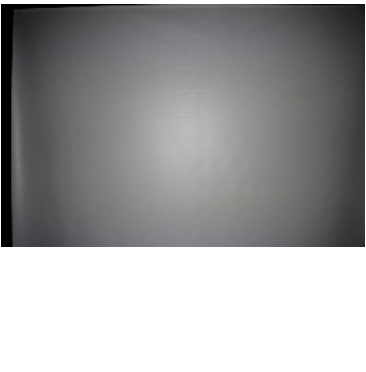
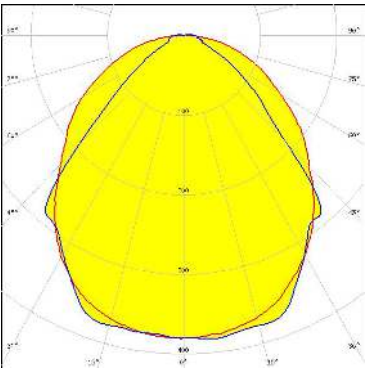

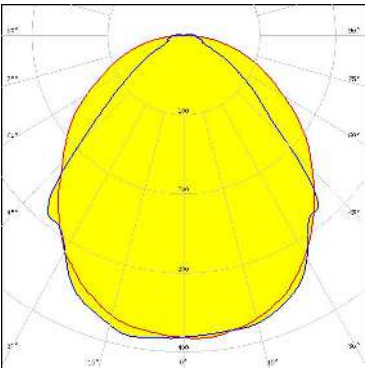
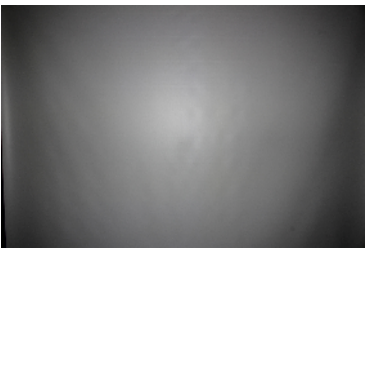
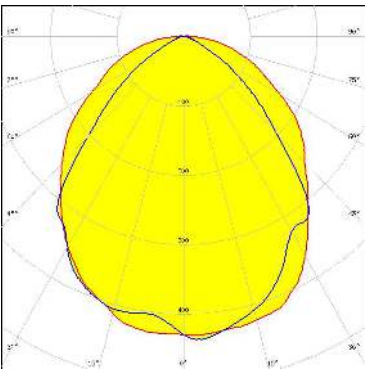
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F16811_LINNEA-90-PMMA » Box size: 398 x 298 x 265 mm	162	36	36	6.6



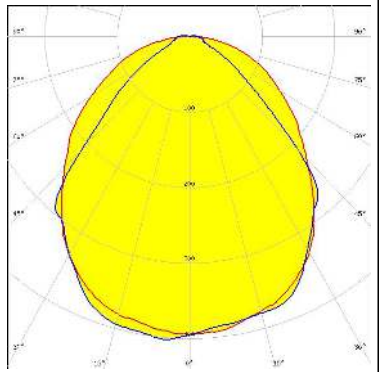

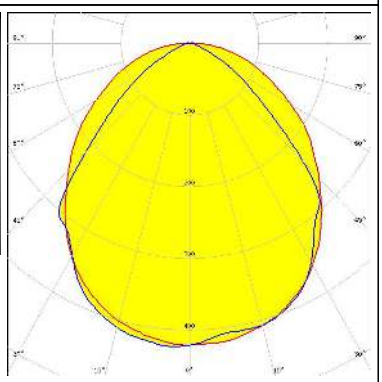

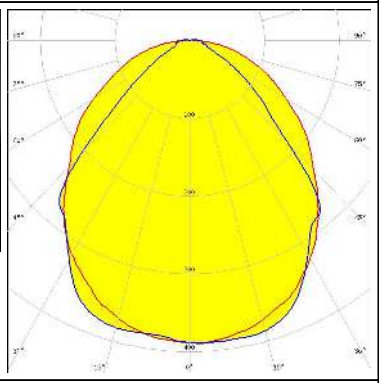

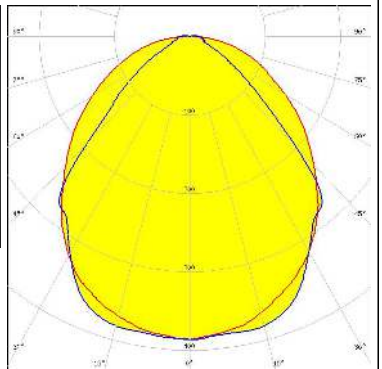


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

<p><b>Helvar</b></p> <p>LED LP-282-840-009A 60/300</p> <p>FWHM / FWTM 104.0 + 90.0° / 165.0 + 129.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>Helvar</b></p> <p>LED LS-282-840-011A</p> <p>FWHM / FWTM 106.0 + 90.0° / 165.0 + 129.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>Helvar</b></p> <p>LED LX-282-840-023A</p> <p>FWHM / FWTM 106.0 + 90.0° / 164.0 + 129.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.4 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 106.0 + 88.0° / 165.0 + 124.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NFSW757H</p> <p>FWHM / FWTM 104.0 + 91.0° / 165.0 + 129.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 0.4 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 106.0 + 92.0° / 164.0 + 127.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.4 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-Z5 1100 280x20</p> <p>FWHM / FWTM 104.0 + 90.0° / 164.0 + 129.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.4 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-Z5 2000 280x20</p> <p>FWHM / FWTM 104.0 + 91.0° / 165.0 + 129.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 0.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

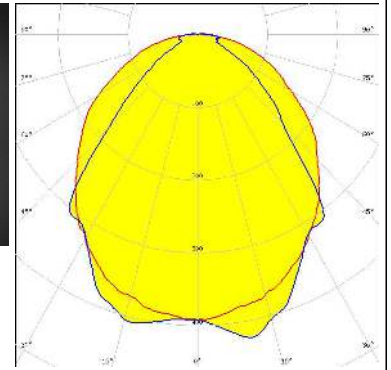


#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

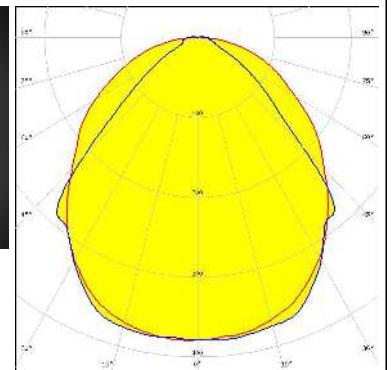
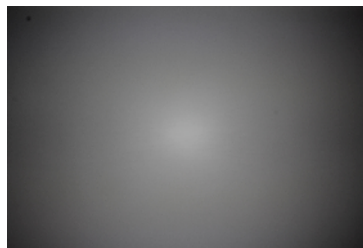
Opto Semiconductors

LED Duris E 2835  
 FWHM / FWTM 108.0 + 87.0° / 166.0 + 128.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



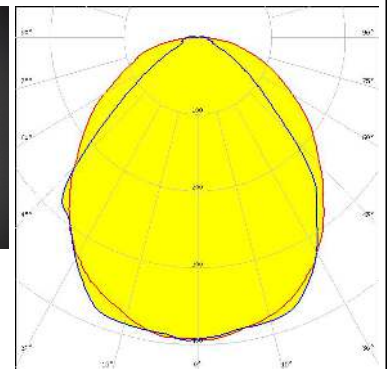
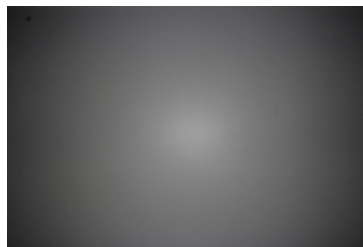
#### PHILIPS

LED Fortimo LED Strip 1ft 1100lm FC HV4 & LV4  
 FWHM / FWTM 107.0 + 91.0° / 165.0 + 128.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



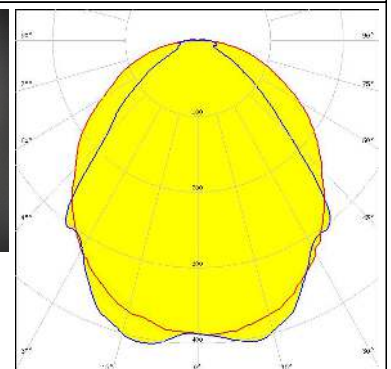
#### PHILIPS

LED Fortimo LED Strip 1ft 650lm FC HV4 & LV4  
 FWHM / FWTM 103.0 + 90.0° / 164.0 + 128.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

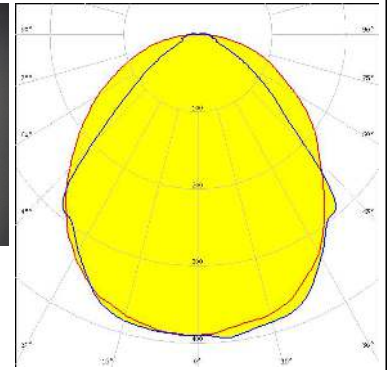
LED LM28xB Series  
 FWHM / FWTM 107.0 + 88.0° / 165.0 + 128.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

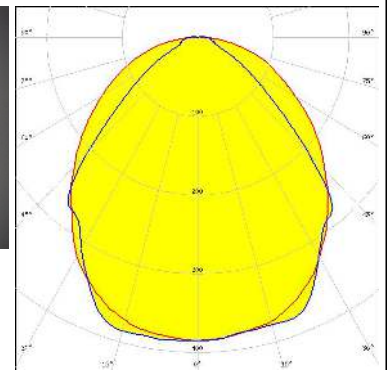
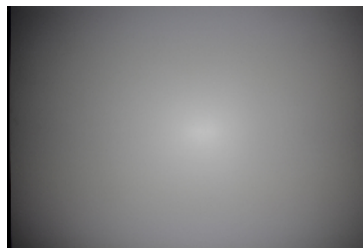
### SAMSUNG

LED LM301B  
 FWHM / FWTM 106.0 + 91.0° / 165.0 + 129.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



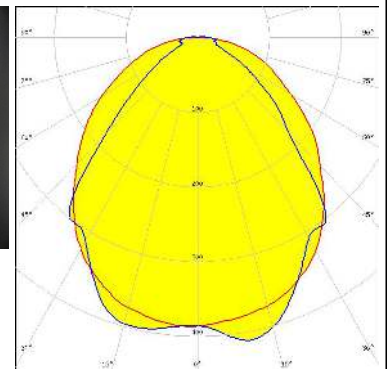
### SAMSUNG

LED LM561B Plus  
 FWHM / FWTM 105.0 + 92.0° / 164.0 + 129.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



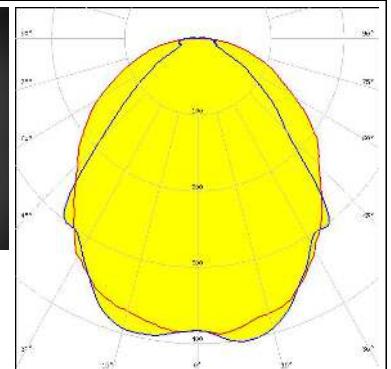
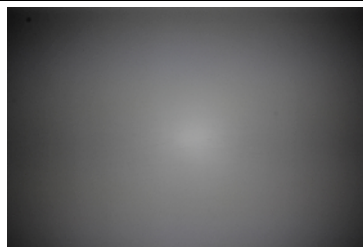
### SAMSUNG

LED LT-H282C  
 FWHM / FWTM 107.0 + 87.0° / 165.0 + 128.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

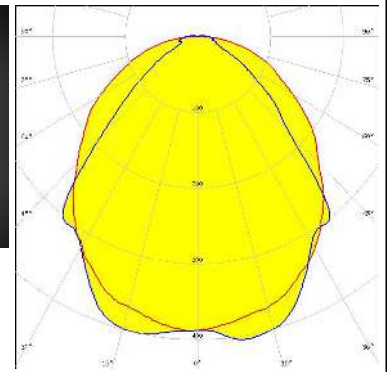
LED LT-Q282B  
 FWHM / FWTM 106.0 + 87.0° / 165.0 + 128.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

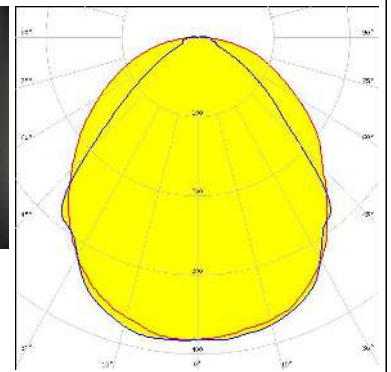
### SAMSUNG

LED LT-V282E  
 FWHM / FWTM 105.0 + 88.0° / 165.0 + 128.0°  
 Efficiency 89 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



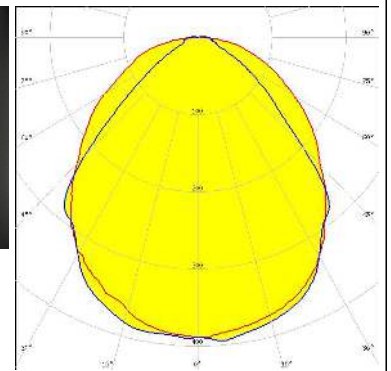
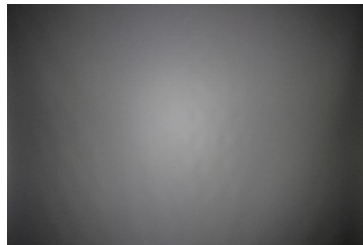
### TRIDONIC

LED LLE 24x280mm 1250lm HV ADV5  
 FWHM / FWTM 106.0 + 90.0° / 165.0 + 128.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

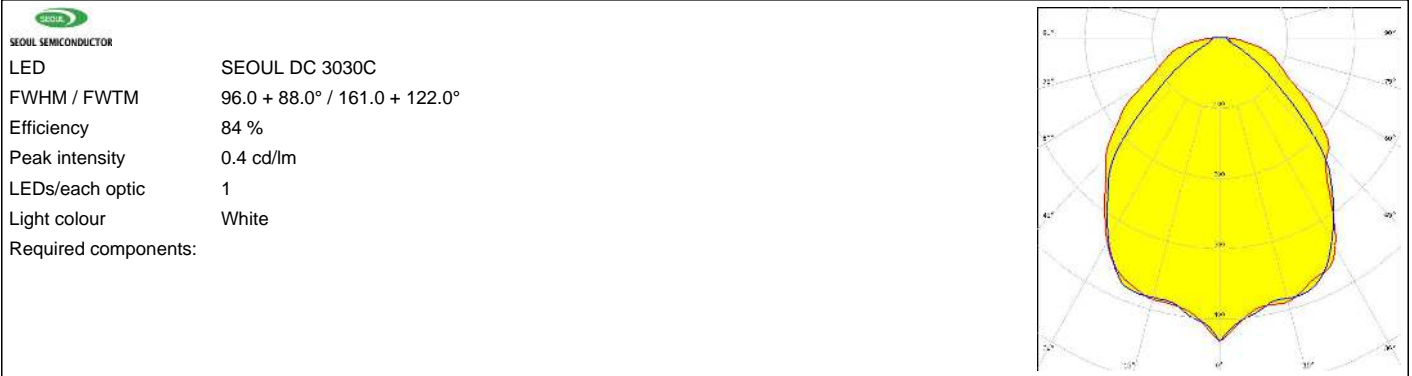


### TRIDONIC

LED LLE 24x280mm 650lm HV ADV5  
 FWHM / FWTM 104.0 + 91.0° / 164.0 + 129.0°  
 Efficiency 88 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):





### 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:

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