

## LINNEA-60

~60° + 90° 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 ⓘ

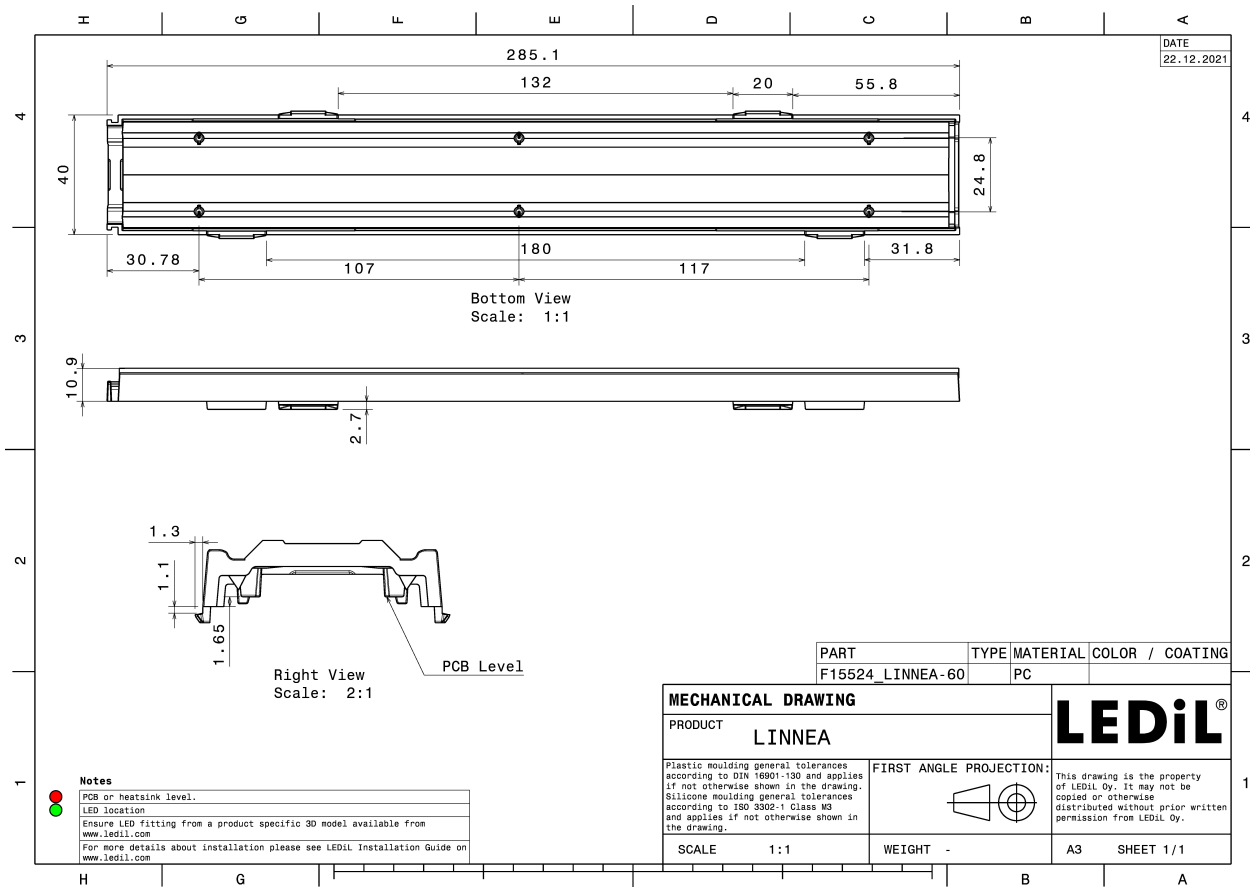
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LINNEA-60	Linear lens	PC	clear	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F15524_LINNEA-60 » Box size: 398 x 298 x 265 mm	153	36	36	7.7



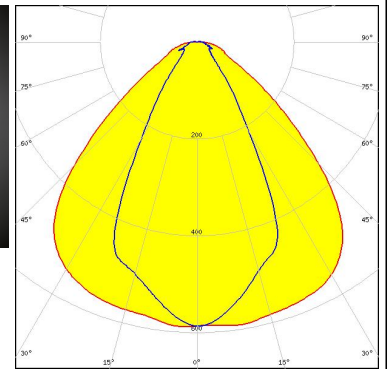
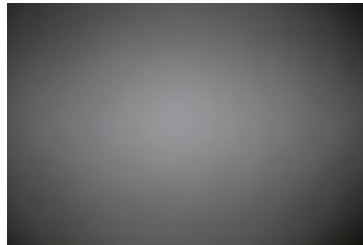


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

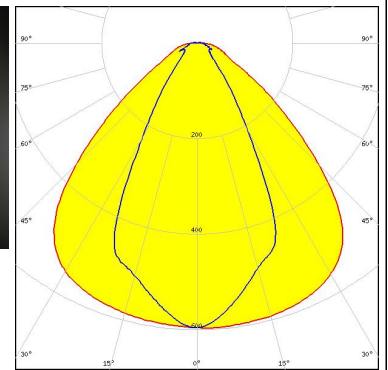
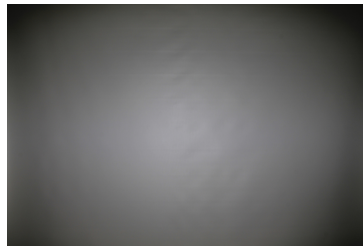
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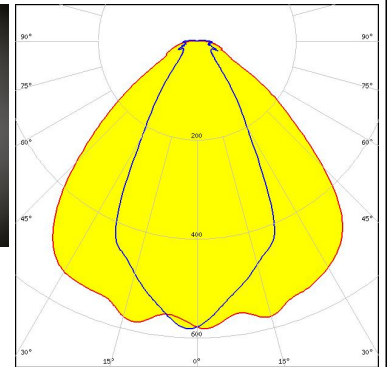
LED CALOSNU405-M7W1  
 FWHM / FWTM 96.0 + 55.0° / 141.0 + 87.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



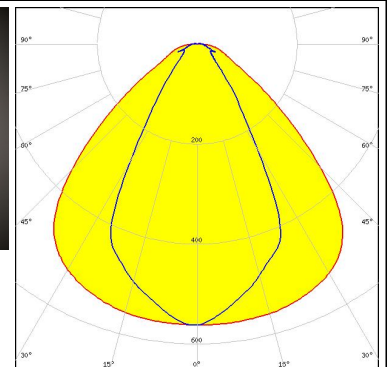
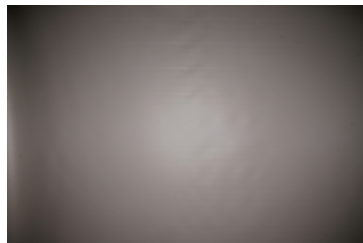
LED CALOSNU410-M7W1  
 FWHM / FWTM 95.0 + 55.0° / 139.0 + 86.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-E  
 FWHM / FWTM 96.0 + 54.0° / 139.0 + 86.0°  
 Efficiency 83 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



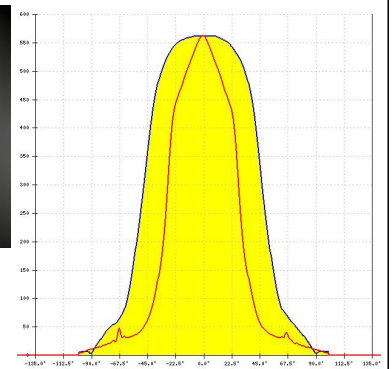
LED L-iC-282-827-865-011A  
 FWHM / FWTM 97.0 + 58.0° / 142.0 + 91.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

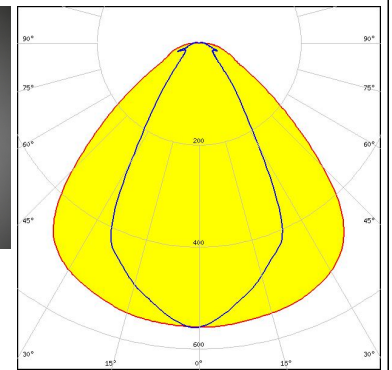
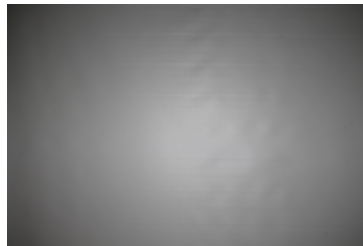
##### Helvar

LED LP-282-840-009A 60/300  
 FWHM / FWTM 97.0 + 58.0° / 142.0 + 91.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



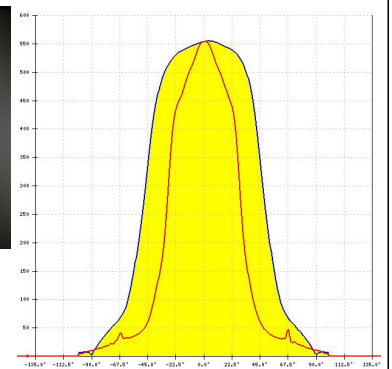
##### Helvar

LED LS-282-840-011A  
 FWHM / FWTM 97.0 + 58.0° / 145.0 + 91.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



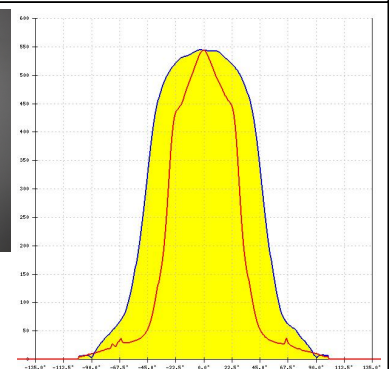
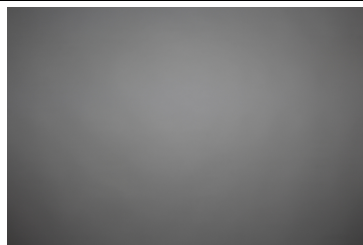
##### Helvar

LED LX-282-840-023A  
 FWHM / FWTM 96.0 + 59.0° / 144.0 + 92.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### MST Your solutions

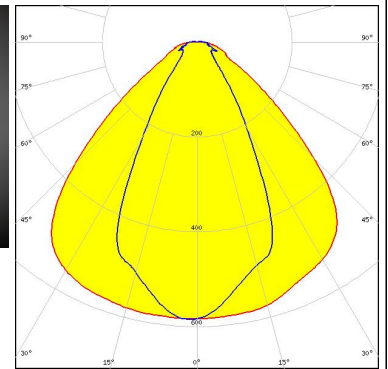
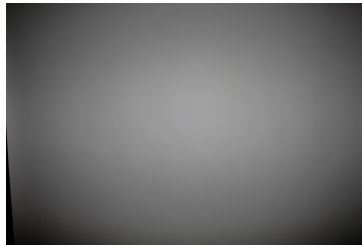
LED LinLED 280x24mm 1100lm 830 2C 30V LINNEA-GC G1  
 FWHM / FWTM 96.0 + 59.0° / 143.0 + 89.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



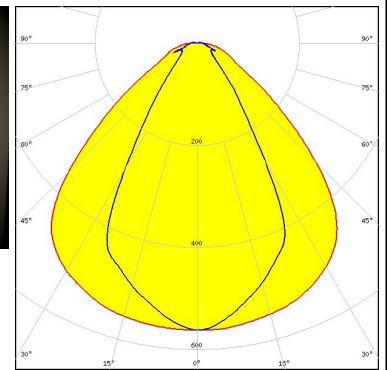
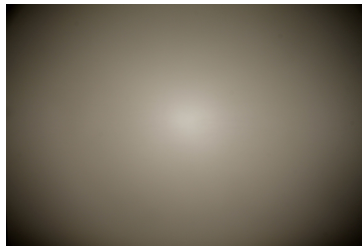
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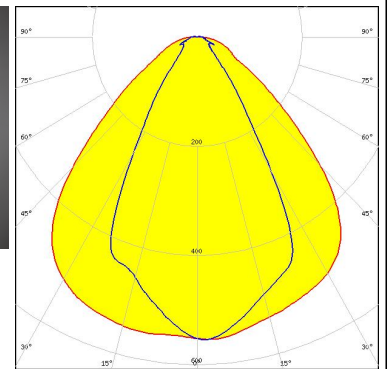
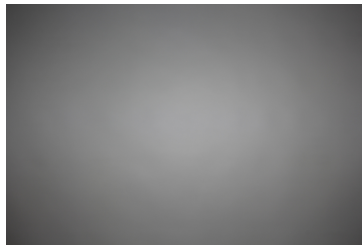
LED NF2x757G  
 FWHM / FWTM 96.0 + 54.0° / 141.0 + 87.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



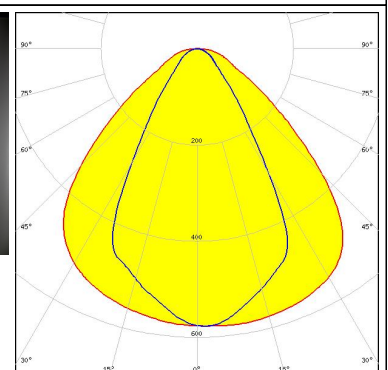
LED NFSW757H  
 FWHM / FWTM 96.0 + 60.0° / 145.0 + 93.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NFSx757G  
 FWHM / FWTM 96.0 + 59.0° / 145.0 + 88.0°  
 Efficiency 83 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



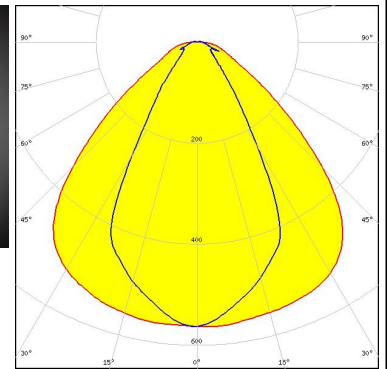
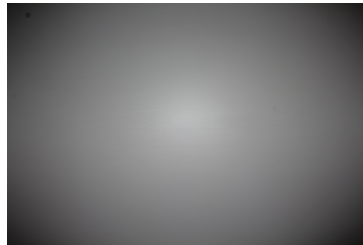
LED PL-LIN-IND-Z1 2800 560x24  
 FWHM / FWTM 96.0 + 60.0° / 144.0 + 96.0°  
 Efficiency 88 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

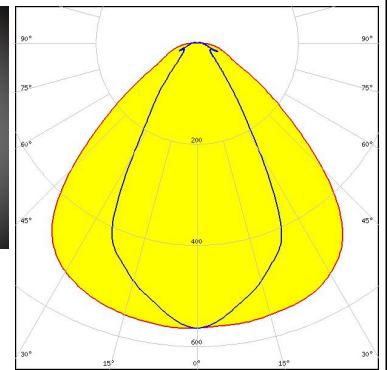
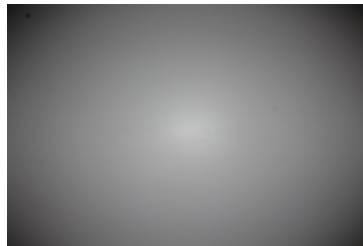
#### OSRAM

LED PL-LIN-Z5 1100 280x20  
 FWHM / FWTM 97.0 + 58.0° / 143.0 + 91.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

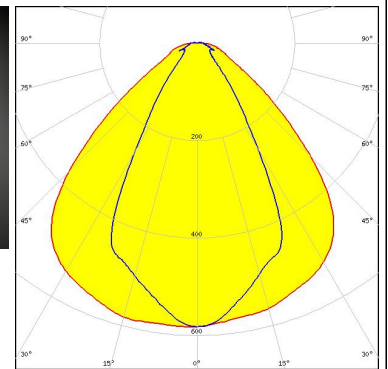
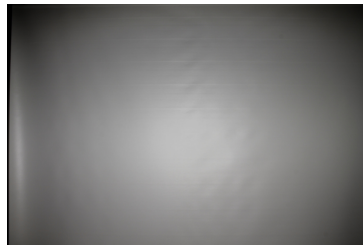
LED PL-LIN-Z5 2000 280x20  
 FWHM / FWTM 97.0 + 58.0° / 143.0 + 91.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

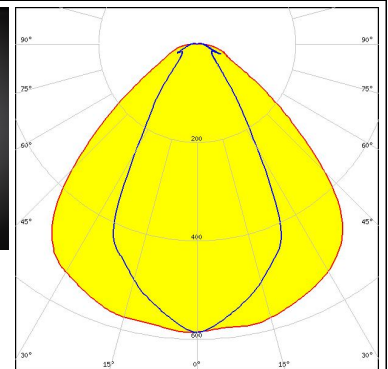
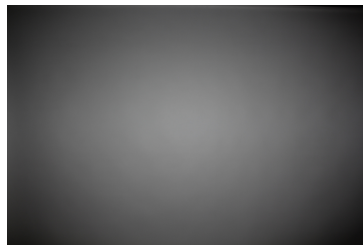
LED Duris S5 (2 chip)  
 FWHM / FWTM 95.0 + 57.0° / 140.0 + 88.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

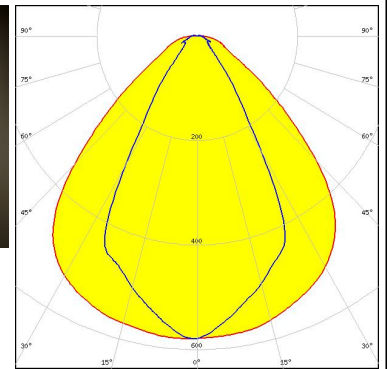
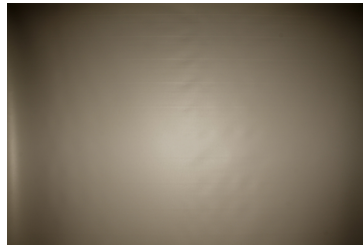
LED Duris S5 (Single chip)  
 FWHM / FWTM 96.0 + 57.0° / 143.0 + 91.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

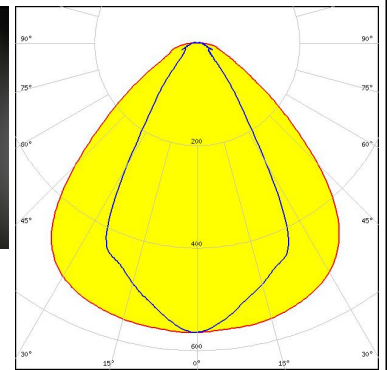
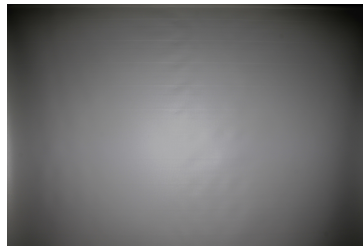
#### PHILIPS

LED Fortimo LED Strip 1ft 1100lm FC HV4 & LV4  
 FWHM / FWTM 95.0 + 59.0° / 141.0 + 88.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



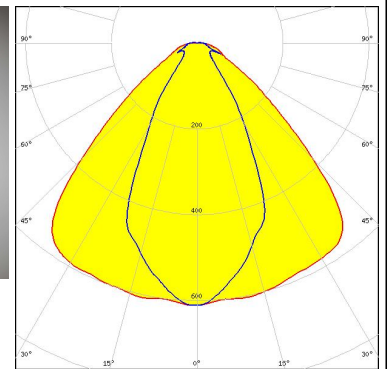
#### PHILIPS

LED Fortimo LED Strip 1ft 650lm FC HV4 & LV4  
 FWHM / FWTM 95.0 + 59.0° / 139.0 + 89.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



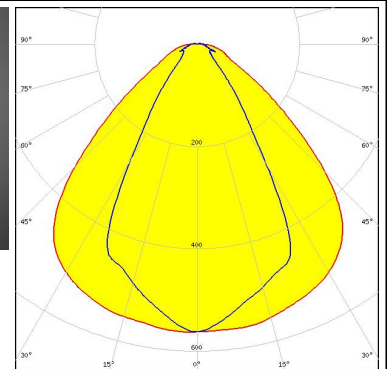
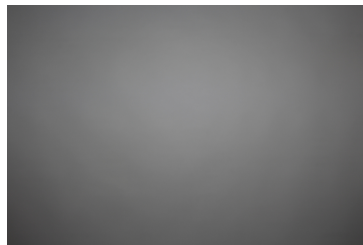
#### SAMSUNG

LED LM28xB Series  
 FWHM / FWTM 95.0 + 53.0° / 136.0 + 106.0°  
 Efficiency 84 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

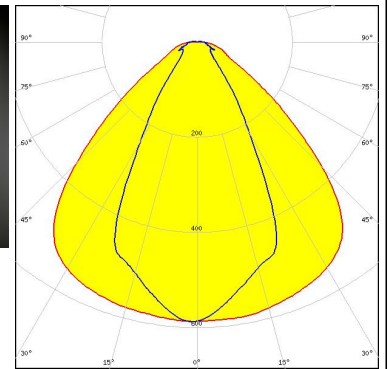
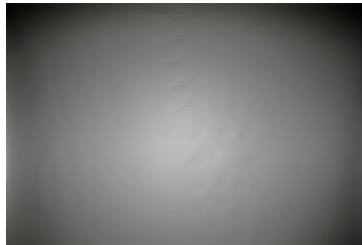
LED LM561B Plus  
 FWHM / FWTM 96.0 + 59.0° / 143.0 + 89.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

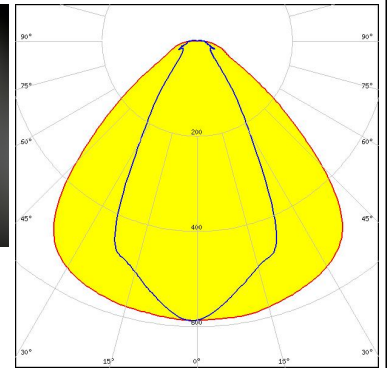
#### SAMSUNG

LED LT-H282C  
FWHM / FWTM 96.0 + 55.0° / 141.0 + 87.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



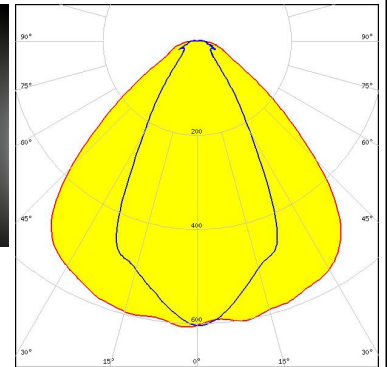
#### SAMSUNG

LED LT-H562C  
FWHM / FWTM 96.0 + 55.0° / 141.0 + 87.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



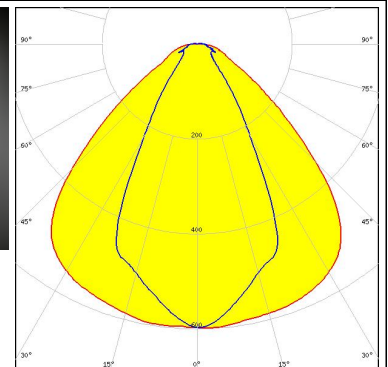
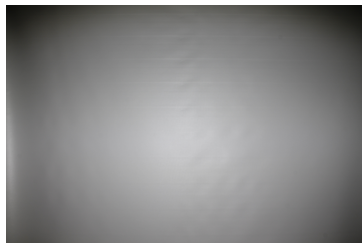
#### SAMSUNG

LED LT-Q282B  
FWHM / FWTM 95.0 + 54.0° / 138.0 + 86.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SAMSUNG

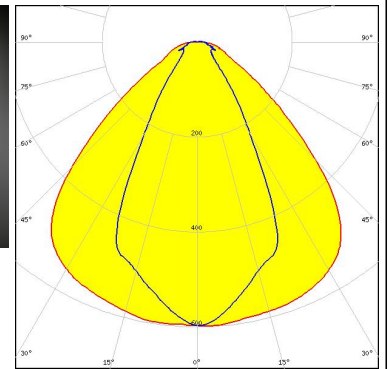
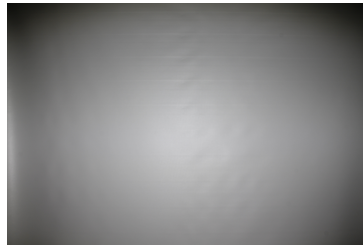
LED LT-S282H  
FWHM / FWTM 96.0 + 54.0° / 140.0 + 86.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

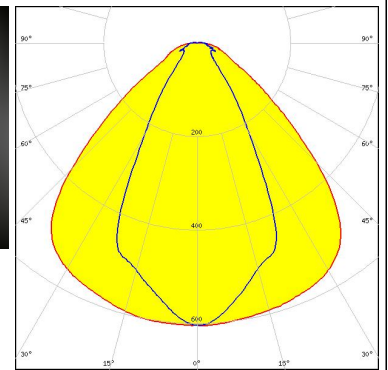
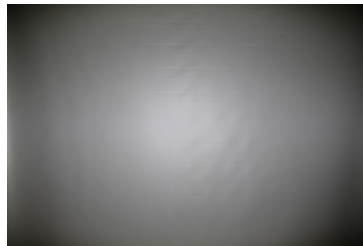
#### SAMSUNG

LED LT-S562H  
 FWHM / FWTM 96.0 + 54.0° / 140.0 + 86.0°  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



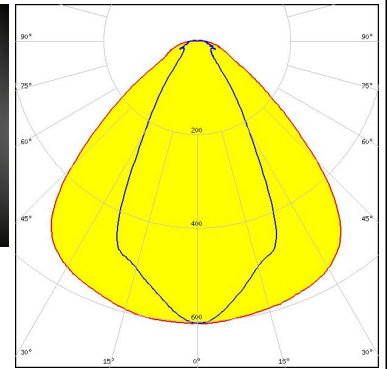
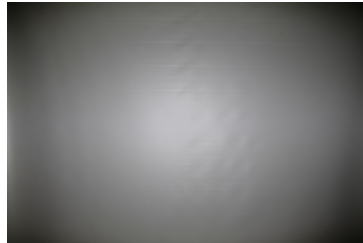
#### SAMSUNG

LED LT-V282E  
 FWHM / FWTM 96.0 + 54.0° / 140.0 + 86.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



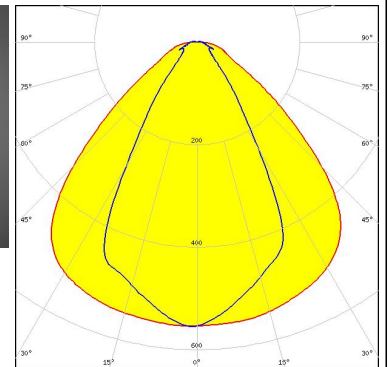
#### SAMSUNG

LED LT-V562E  
 FWHM / FWTM 96.0 + 54.0° / 140.0 + 86.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

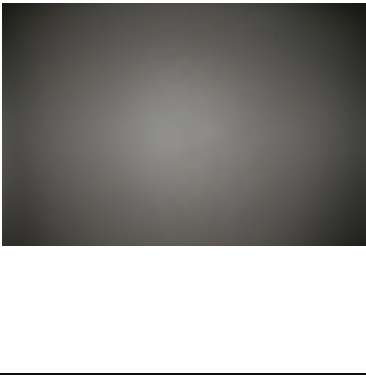
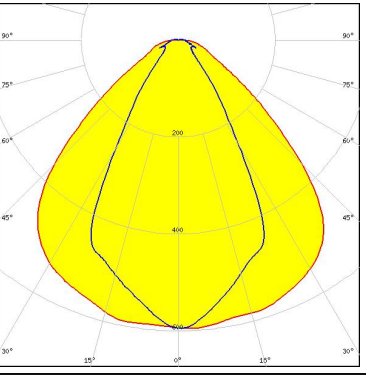
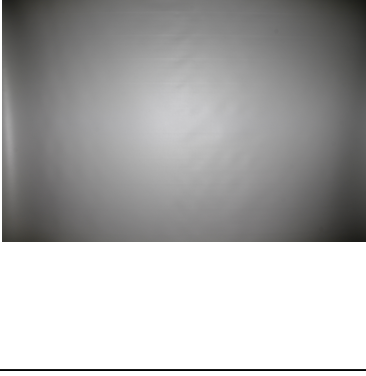
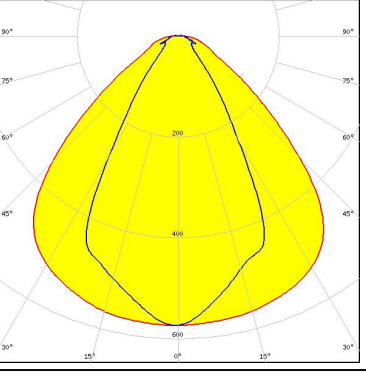

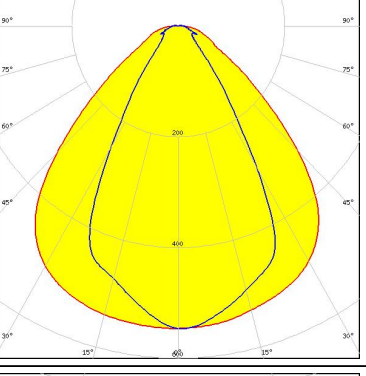

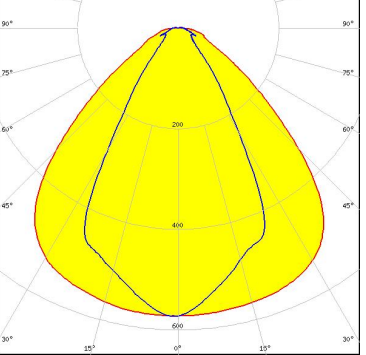


SEOUL SEMICONDUCTOR

LED SEOUL 5630D  
 FWHM / FWTM 73.0° / 112.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



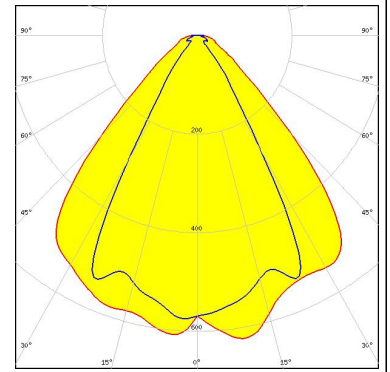
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOUL</b> SEOUL SEMICONDUCTOR</p> <p>LED                      SEOUL DC 3030</p> <p>FWHM / FWTM        96.0 + 57.0° / 139.0 + 88.0°</p> <p>Efficiency             86 %</p> <p>Peak intensity        0.6 cd/lm</p> <p>LEDs/each optic     1</p> <p>Light colour          White</p> <p>Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED                      LLE G4 24x280mm 1250lm</p> <p>FWHM / FWTM        96.0 + 58.0° / 141.0 + 88.0°</p> <p>Efficiency             85 %</p> <p>Peak intensity        0.6 cd/lm</p> <p>LEDs/each optic     1</p> <p>Light colour          White</p> <p>Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED                      LLE G4 24x280mm 2000lm ADV</p> <p>FWHM / FWTM        95.0 + 60.0° / 143.0 + 91.0°</p> <p>Efficiency             85 %</p> <p>Peak intensity        0.6 cd/lm</p> <p>LEDs/each optic     1</p> <p>Light colour          White</p> <p>Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED                      LLE G4 24x280mm 650lm</p> <p>FWHM / FWTM        95.0 + 59.0° / 140.0 + 89.0°</p> <p>Efficiency             85 %</p> <p>Peak intensity        0.6 cd/lm</p> <p>LEDs/each optic     1</p> <p>Light colour          White</p> <p>Required components:</p>		

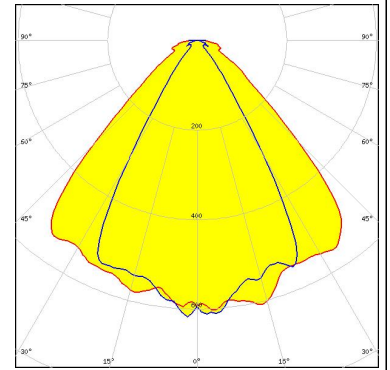
#### PHOTOMETRIC DATA (SIMULATED):



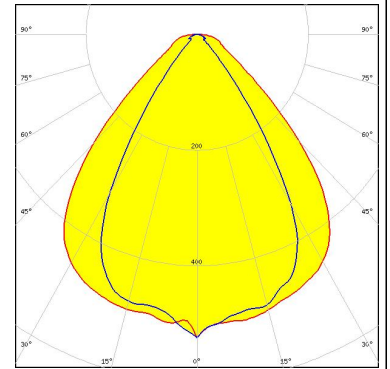
LED LUXEON 3030 2D (Round LES)  
 FWHM / FWTM 89.0 + 60.0° / 125.0 + 80.0°  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



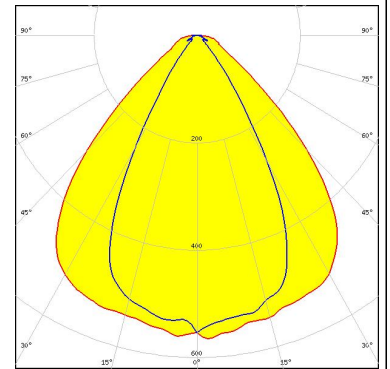
LED SEOUL DC 3030C  
 FWHM / FWTM 92.0 + 60.0° / 134.0 + 80.0°  
 Efficiency 85 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED SEOUL DC 3528  
 FWHM / FWTM 90.0 + 65.0° / 131.0 + 87.0°  
 Efficiency 78 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 2  
 Light colour White  
 Required components:




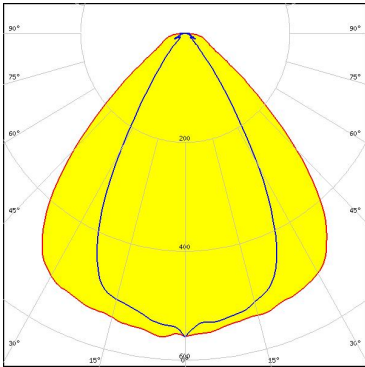

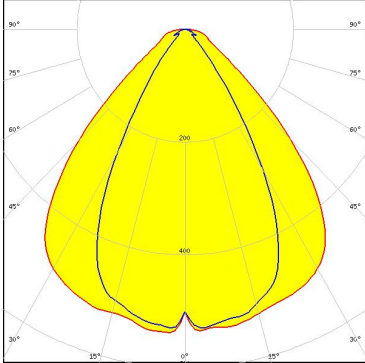
LED SEOUL DC 3528  
 FWHM / FWTM 92.0 + 59.0° / 128.0 + 82.0°  
 Efficiency 78 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: SEOUL DC 3528</p> <p>FWHM / FWTM: 92.0 + 59.0° / 127.0 + 82.0°</p> <p>Efficiency: 77 %</p> <p>Peak intensity: 0.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: SEOUL DC 3528</p> <p>FWHM / FWTM: 88.0 + 48.0° / 122.0 + 76.0°</p> <p>Efficiency: 76 %</p> <p>Peak intensity: 0.6 cd/lm</p> <p>LEDs/each optic: 2</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: SEOUL DC 3528</p> <p>FWHM / FWTM: 91.0 + 48.0° / 122.0 + 77.0°</p> <p>Efficiency: 76 %</p> <p>Peak intensity: 0.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: SEOUL DC 3528</p> <p>FWHM / FWTM: 90.0 + 60.0° / 128.0 + 85.0°</p> <p>Efficiency: 77 %</p> <p>Peak intensity: 0.5 cd/lm</p> <p>LEDs/each optic: 2</p> <p>Light colour: White</p> <p>Required components:</p>	

### PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL DC 3528 92.0 + 59.0° / 128.0 + 82.0° 77 % 0.6 cd/lm 1 White	
 SEOUL SEMICONDUCTOR	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL DC 3528 90.0 + 60.0° / 128.0 + 85.0° 77 % 0.5 cd/lm 2 White	

### 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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