

## FLORENCE-Z90

~90° wide beam

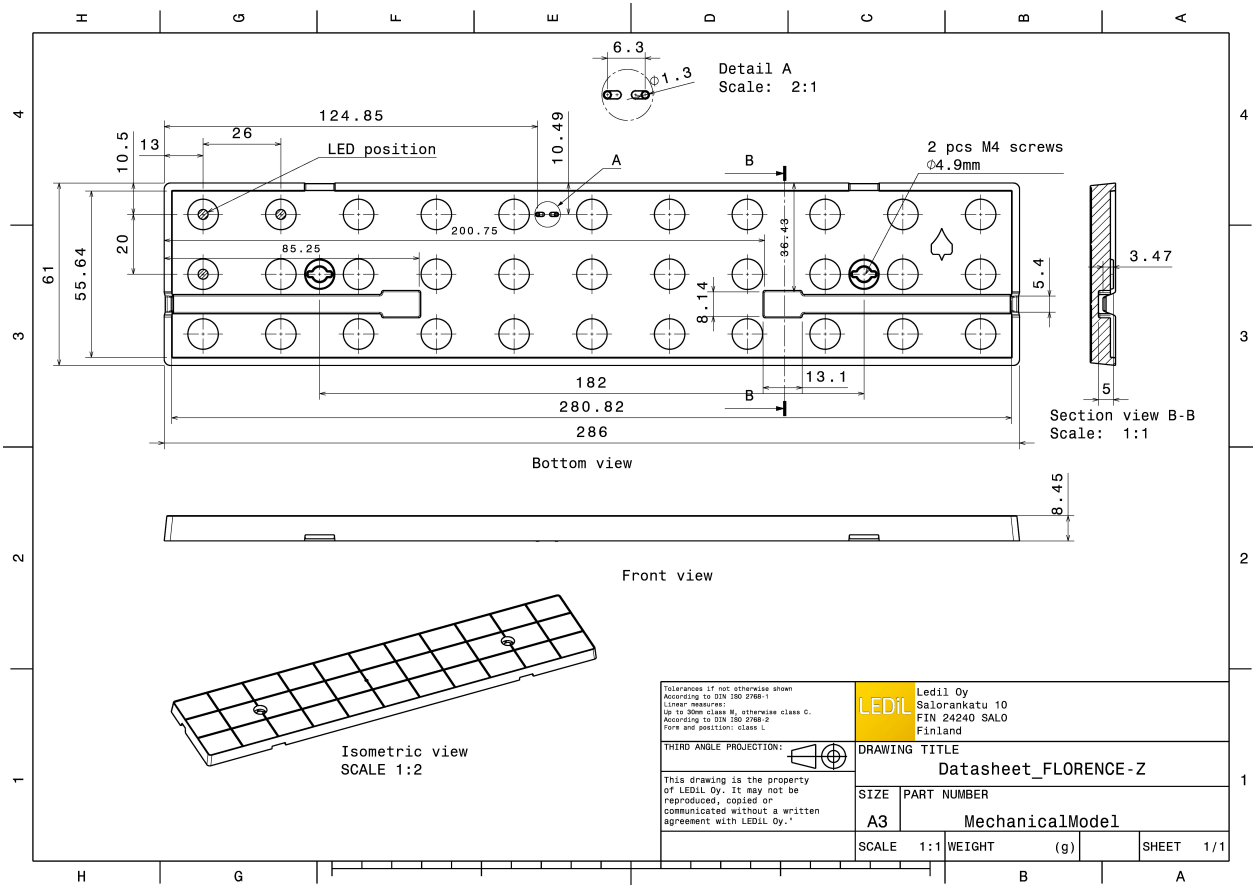
### TECHNICAL SPECIFICATIONS:

Dimensions	61 x 286 mm
Height	8.5 mm
Fastening	screw
Colour	clear
Box size	398 x 298 x 140 mm
Box weight	7.8 kg
Quantity in Box	72 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

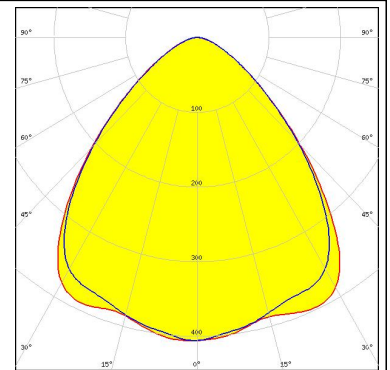
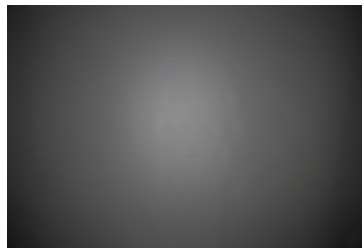
Component	Type	Material	Colour
FLORENCE-Z90	Lens array	PMMA	clear



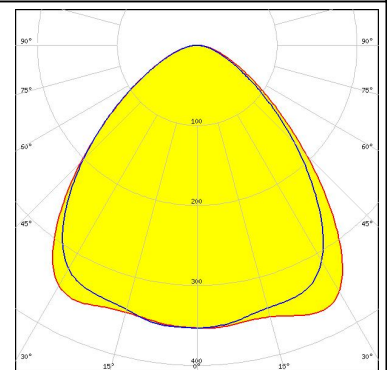
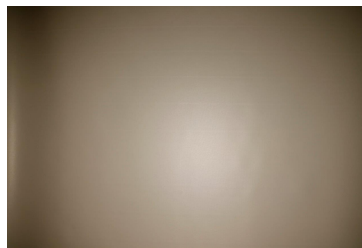
**PHOTOMETRIC DATA (MEASURED):**



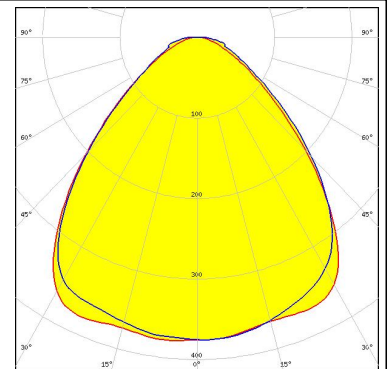
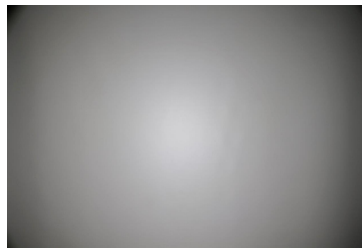
LED TRIDINO R3 8x0 1100 1ft HV  
 FWHM 92.0°  
 Efficiency 87 %  
 Peak intensity 0.410 cd/lm  
 Required components:



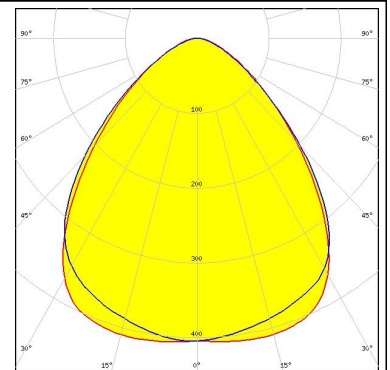
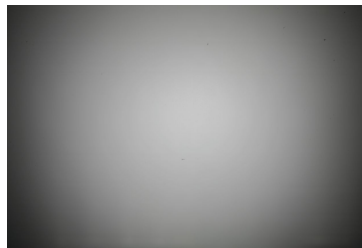
LED XH-B/G  
 FWHM 95.0°  
 Efficiency 82 %  
 Peak intensity 0.370 cd/lm  
 Required components:



LED LG 5630  
 FWHM 93.0°  
 Efficiency 87 %  
 Peak intensity 0.390 cd/lm  
 Required components:



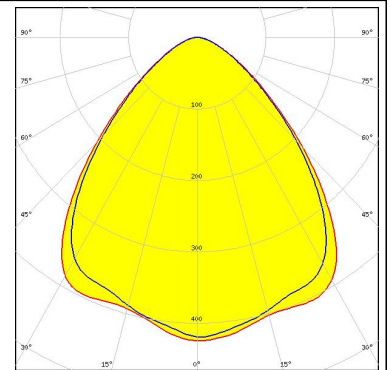
LED LG 6030  
 FWHM 92.0°  
 Efficiency 88 %  
 Peak intensity 0.410 cd/lm  
 Required components:



**PHOTOMETRIC DATA (MEASURED):**

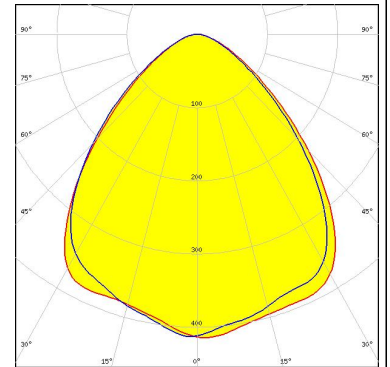
**LUMILEDS**

LED LUXEON 3030 2D  
FWHM 91.0°  
Efficiency 87 %  
Peak intensity 0.420 cd/lm  
Required components:



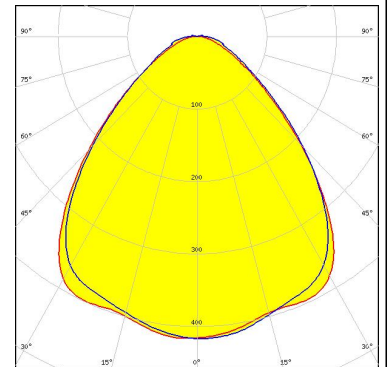
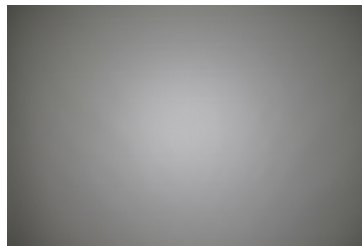
**LUMILEDS**

LED LUXEON 3535 2D  
FWHM 92.0°  
Efficiency 87 %  
Peak intensity 0.410 cd/lm  
Required components:



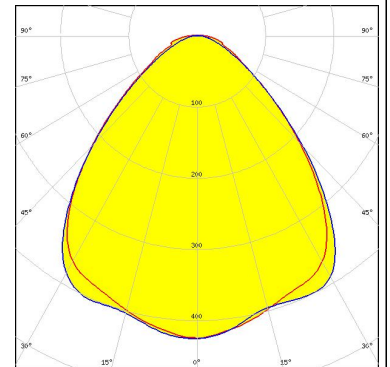
**LUMILEDS**

LED LUXEON 3535L HE  
FWHM 92.0°  
Efficiency 93 %  
Peak intensity 0.420 cd/lm  
Required components:


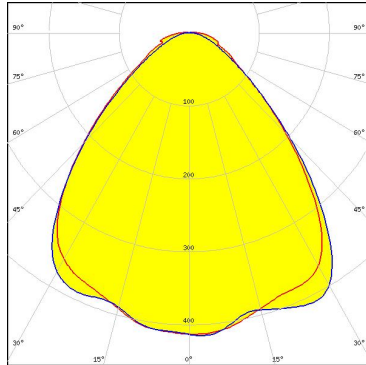
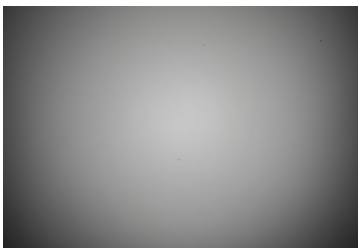
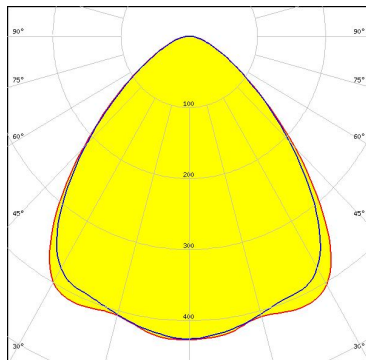
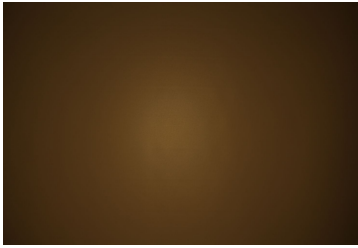
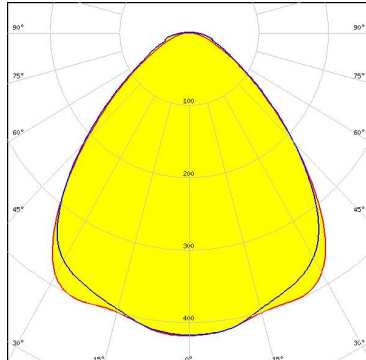
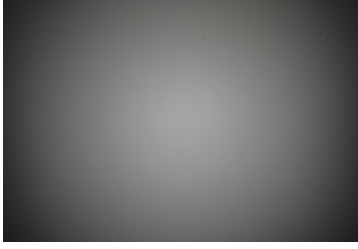
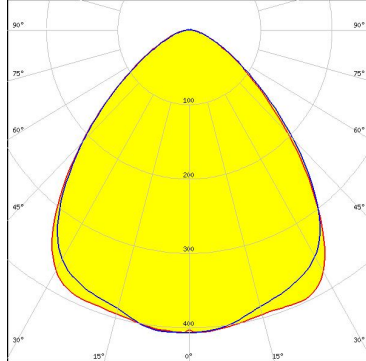


**LUMILEDS**

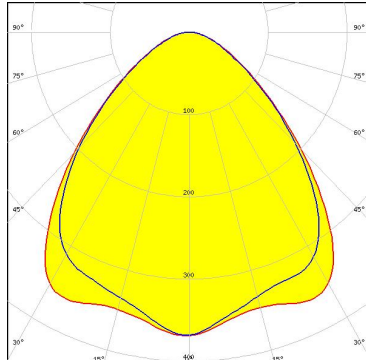
LED LUXEON XR-3535L (L202 - xxxx033C3000)  
FWHM 91.0°  
Efficiency 93 %  
Peak intensity 0.430 cd/lm  
Required components:



**PHOTOMETRIC DATA (MEASURED):**

<p><b>LUMINUS</b></p> <p>LED MP-2016            FWHM 90.0°            Efficiency 91 %            Peak intensity 0.420 cd/lm            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NF2x757D            FWHM 92.0°            Efficiency 90 %            Peak intensity 0.430 cd/lm            Required components:</p>		
<p><b>OSRAM</b></p> <p>LED PLG2-BAR-1100-xxx-280x55-DC            FWHM 92.0°            Efficiency 92 %            Peak intensity 0.420 cd/lm            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris E5            FWHM 92.0°            Efficiency 88 %            Peak intensity 0.400 cd/lm            Required components:</p>		

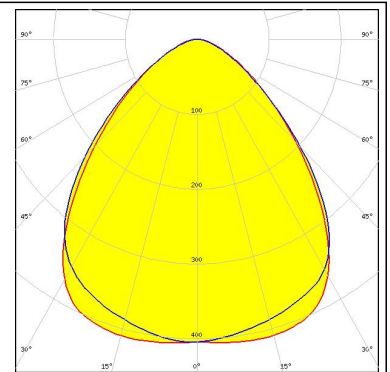
**PHOTOMETRIC DATA (MEASURED):**

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S2 FWHM 95.0° Efficiency 90 % Peak intensity 0.350 cd/lm Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S5 (Single chip) FWHM 91.0° Efficiency 88 % Peak intensity 0.410 cd/lm Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 2226 FWHM 94.0° Efficiency 83 % Peak intensity 0.370 cd/lm Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Oslon Square Gen3 FWHM 91.0° Efficiency 93 % Peak intensity 0.420 cd/lm Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

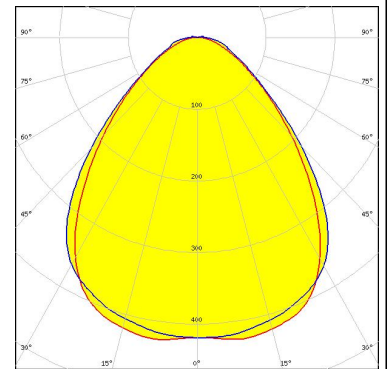
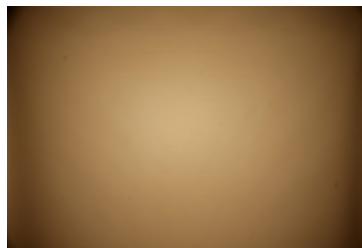
### PHILIPS

LED Fortimo LED Line 1ft 1100lm xx0 3R xV2/x  
FWHM 92.0°  
Efficiency 88 %  
Peak intensity 0.400 cd/lm  
Required components:



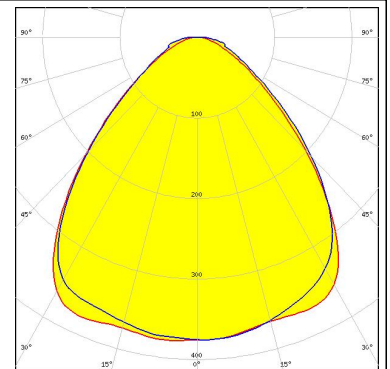
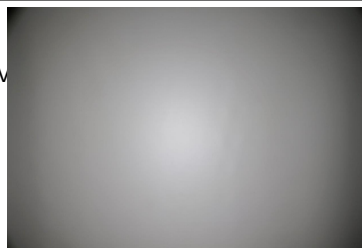
### PHILIPS

LED Fortimo LED Line 1ft 2000lm 8xx 3R HV2  
FWHM 90.0°  
Efficiency 93 %  
Peak intensity 0.430 cd/lm  
Required components:



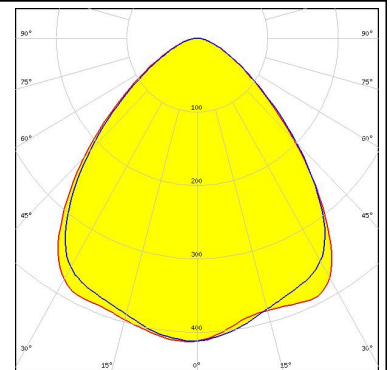
### PHILIPS

LED Fortimo LED Line 1ft 650lm 8x0 3R xV2/xV  
FWHM 93.0°  
Efficiency 87 %  
Peak intensity 0.390 cd/lm  
Required components:



### SAMSUNG

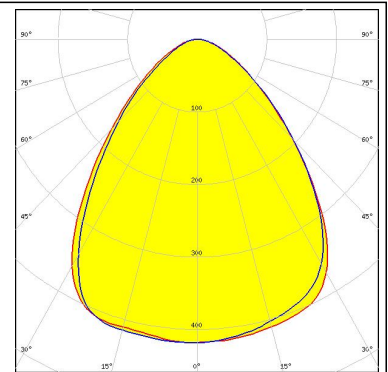
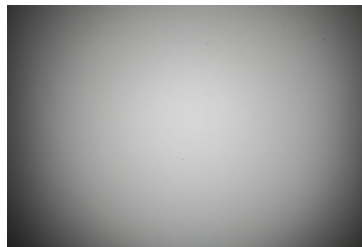
LED LM231 A/B  
FWHM 91.0°  
Efficiency 88 %  
Peak intensity 0.414 cd/lm  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

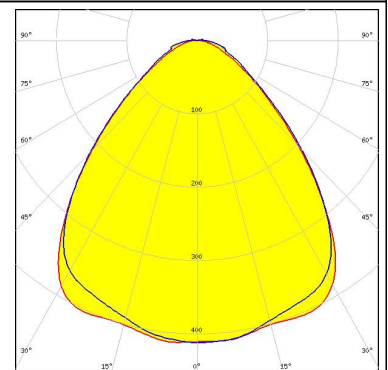
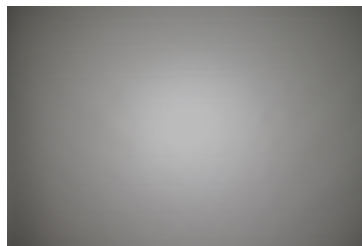
#### SAMSUNG

LED LM561B  
FWHM 86.0°  
Efficiency 85 %  
Peak intensity 0.420 cd/lm  
Required components:



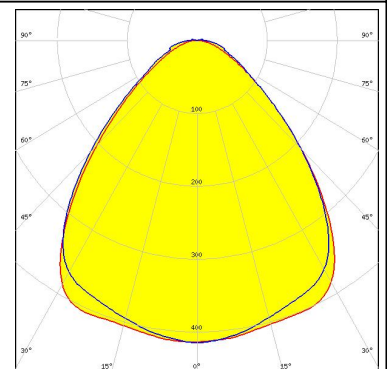
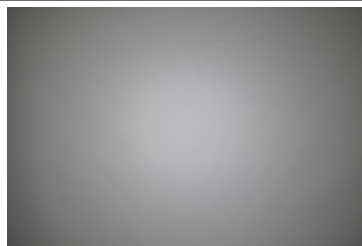
#### SAMSUNG

LED LM561B Plus  
FWHM 92.0°  
Efficiency 93 %  
Peak intensity 0.410 cd/lm  
Required components:



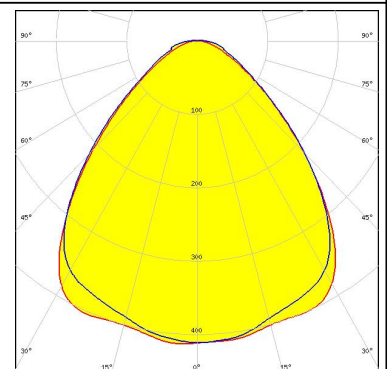
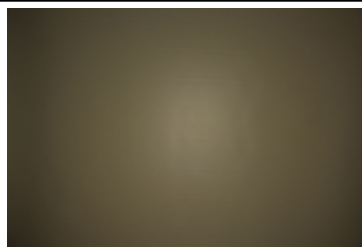
#### SAMSUNG

LED LM561C  
FWHM 92.0°  
Efficiency 93 %  
Peak intensity 0.420 cd/lm  
Required components:


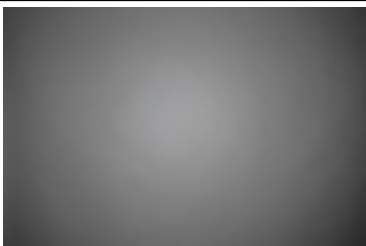
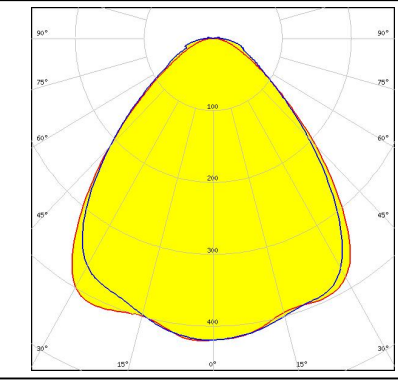

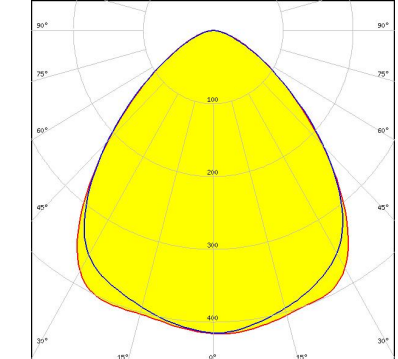


#### SAMSUNG

LED LT-R286A  
FWHM 93.0°  
Efficiency 93 %  
Peak intensity 0.410 cd/lm  
Required components:



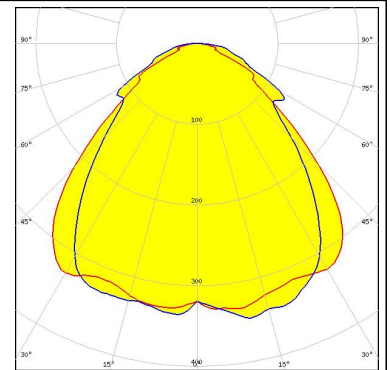
#### PHOTOMETRIC DATA (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED SunLike 3030 FWHM 90.0 + 89.0° Efficiency 93 % Peak intensity 0.420 cd/lm Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED STARK LLE-55-280-1650 CLASSIC FWHM 93.0° Efficiency 90 % Peak intensity 0.420 cd/lm Required components:</p>		

#### PHOTOMETRIC DATA (SIMULATED):

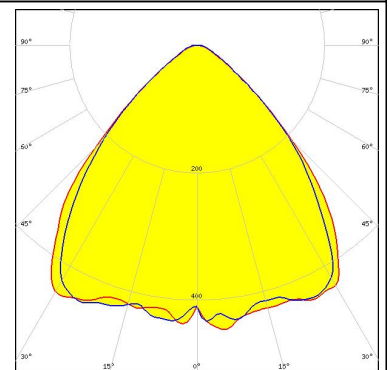
##### LG Innotek

LED LG 7030  
FWHM 91.0°  
Efficiency %  
Peak intensity 0.320 cd/lm  
Required components:



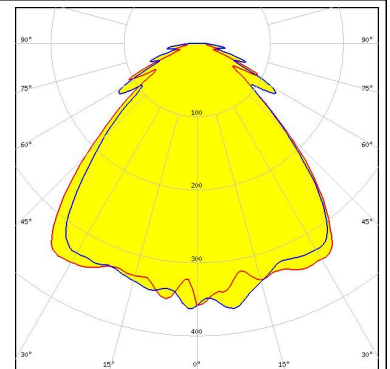
##### LUMILEDS

LED LUXEON 5050  
FWHM 90.0°  
Efficiency 91 %  
Peak intensity 0.460 cd/lm  
Required components:



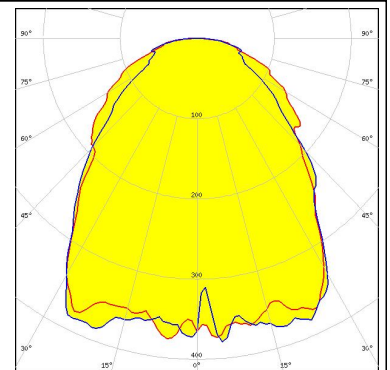
##### NICHIA

LED NF2x757G  
FWHM 90.0°  
Efficiency 80 %  
Peak intensity 0.370 cd/lm  
Required components:



##### NICHIA

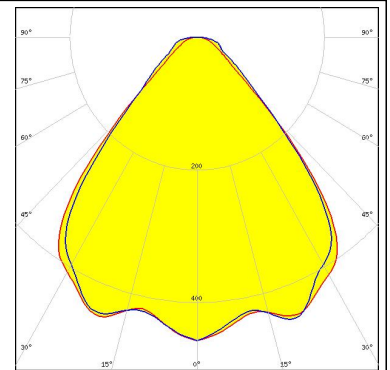
LED NVSxE21A  
FWHM 90.0°  
Efficiency 94 %  
Peak intensity 0.390 cd/lm  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

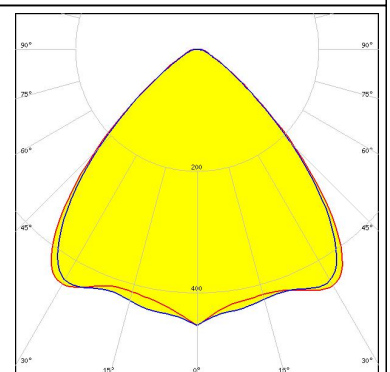
**OSRAM**  
Opto Semiconductors

LED Duris E 2835  
FWHM 85.0°  
Efficiency 87 %  
Peak intensity 0.460 cd/lm  
Required components:



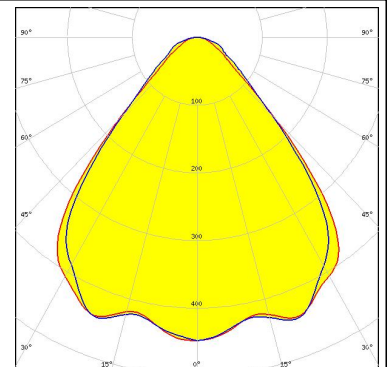
**SAMSUNG**

LED LM28xB Series  
FWHM 90.0°  
Efficiency 93 %  
Peak intensity 0.450 cd/lm  
Required components:



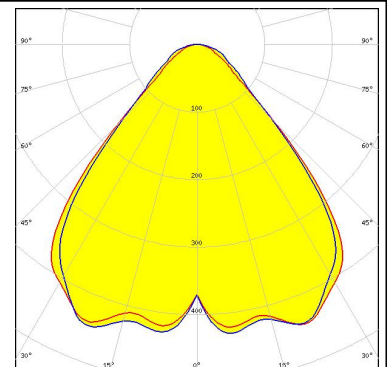
**SEOUL**  
SEMICONDUCTOR

LED SEOUL 5630C  
FWHM 86.0°  
Efficiency 85 %  
Peak intensity 0.450 cd/lm  
Required components:



**SEOUL**  
SEMICONDUCTOR

LED SEOUL 5630D  
FWHM 83.0°  
Efficiency 84 %  
Peak intensity 0.450 cd/lm  
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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#### LEDiL Oy

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#### Local sales and technical support

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