

## FLORENCE-Z60

~60° wide beam. Ideal for retail and industrial lighting. Can be used for general office lighting with shade.

### TECHNICAL SPECIFICATIONS:

Dimensions	286.0 x 61.0 mm
Height	8.5 mm
Fastening	screw
ROHS compliant	yes ⓘ

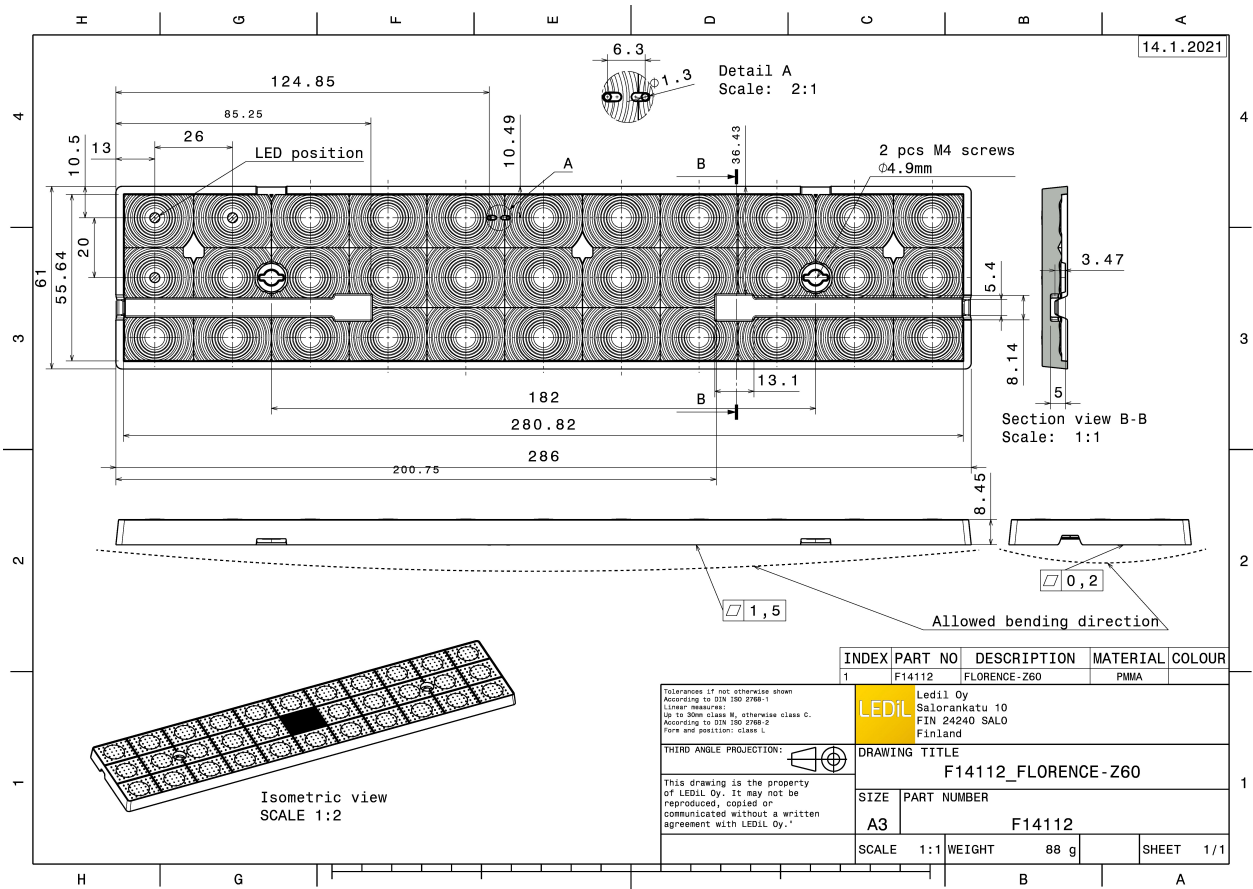
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
FLORENCE-Z60	Linear lens	PMMA	clear	

### ORDERING INFORMATION:

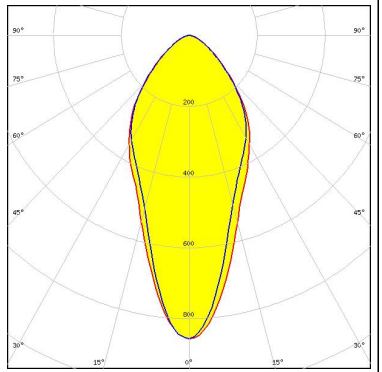
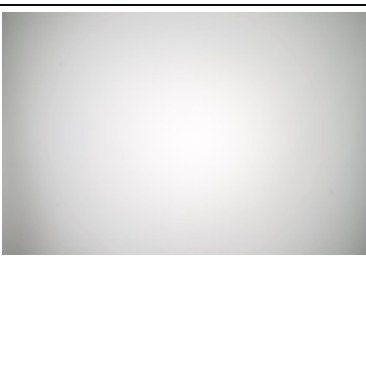
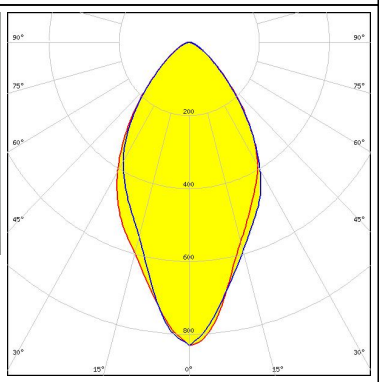
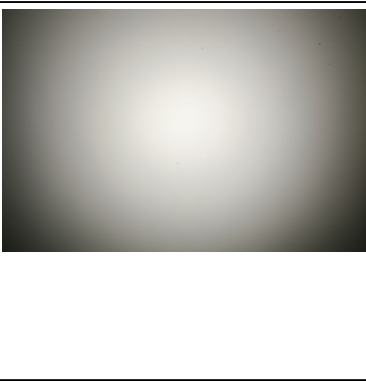
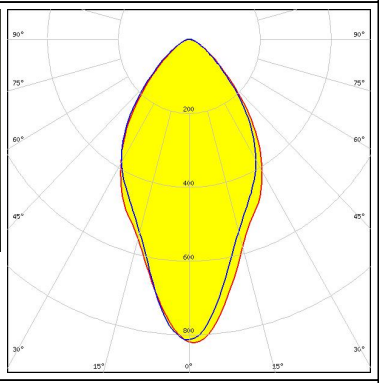

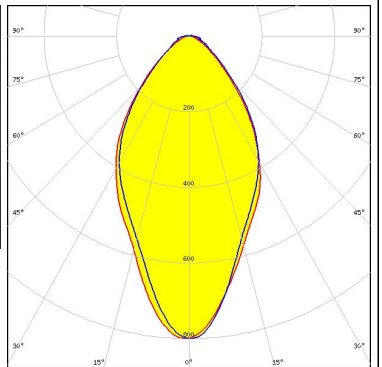
Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14112_FLORENCE-Z60 » Box size: 398 x 298 x 140 mm	72	18	6	7.3



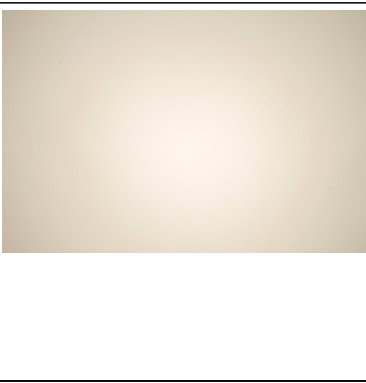
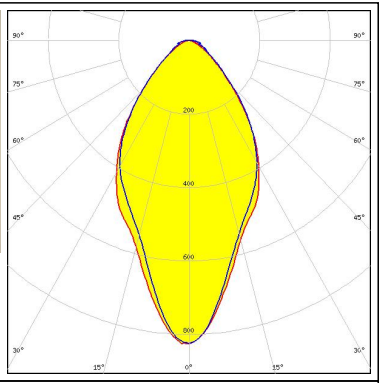
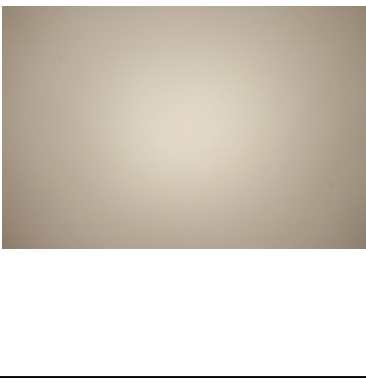
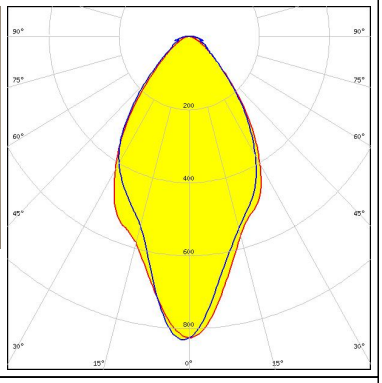
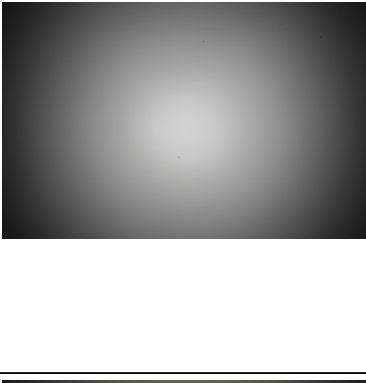
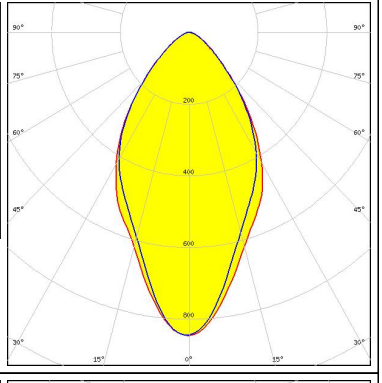
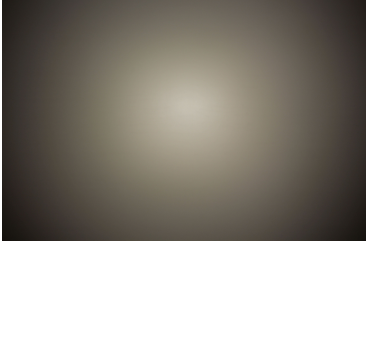
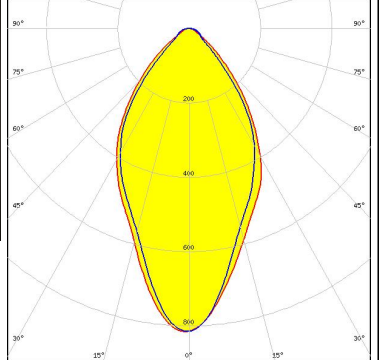


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)


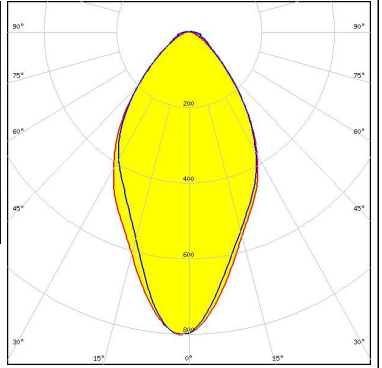
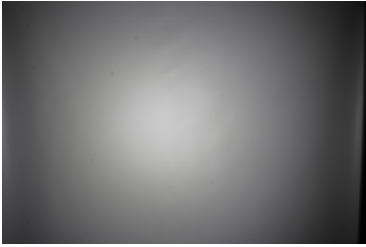
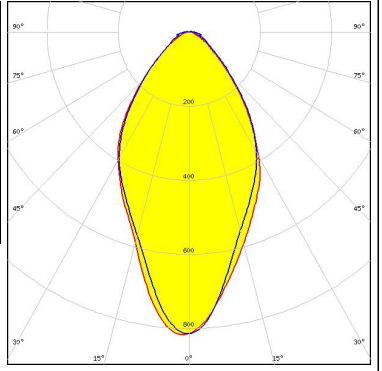
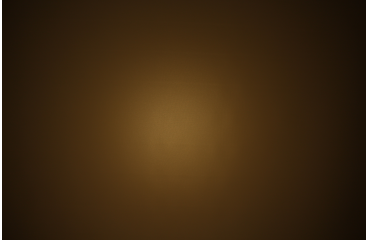
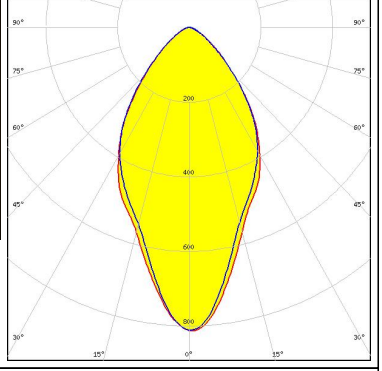
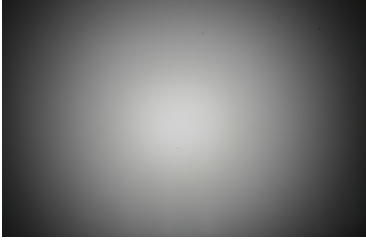
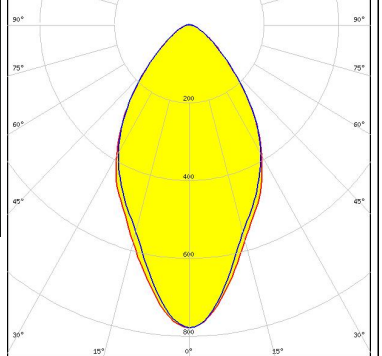
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> LED</p> <p>LED XH-B/G            FWHM / FWTM 43.0° / 111.0°            Efficiency 87 %            Peak intensity 0.9 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON 3030 2D (Round LES)            FWHM / FWTM 57.0° / 107.0°            Efficiency 88 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON 3535 2D            FWHM / FWTM 57.0° / 108.0°            Efficiency 89 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON 3535L HE            FWHM / FWTM 58.0° / 110.0°            Efficiency 93 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON XR-3535L (L202 - xxxx033C30001)</p> <p>FWHM / FWTM 59.0° / 108.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMINUS</b></p> <p>LED MP-2016</p> <p>FWHM / FWTM 58.0° / 105.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NF2x757D</p> <p>FWHM / FWTM 58.0° / 107.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.8 cd/m</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 59.0 + 55.0° / 107.0 + 98.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14646_FLORENCE-3R-SHD-WHT</p>		

#### PHOTOMETRIC DATA (MEASURED):

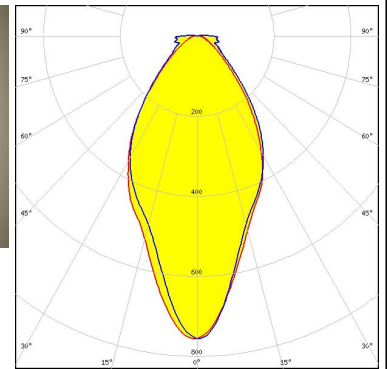
<p><b>NICHIA</b></p> <p>LED NFSW757H            FWHM / FWTM 58.0° / 110.0°            Efficiency 93 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b></p> <p>LED PL-BAR-G3 1100 280x55            FWHM / FWTM 57.0° / 109.0°            Efficiency 93 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b></p> <p>LED PLG2-BAR-1100-xxx-280x55-DC            FWHM / FWTM 57.0° / 108.0°            Efficiency 88 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris E5            FWHM / FWTM 59.0° / 109.0°            Efficiency 89 %            Peak intensity 0.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

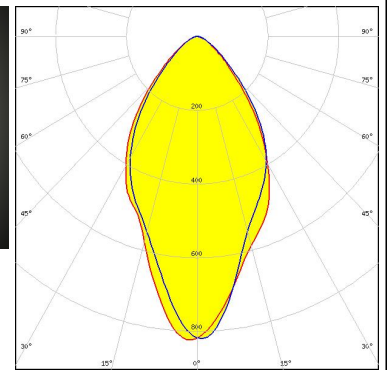
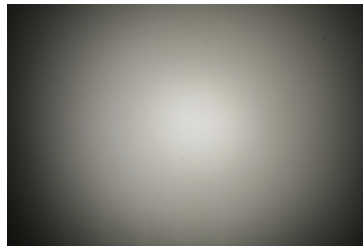
LED Duris S2  
 FWHM / FWTM 55.0° / 111.0°  
 Efficiency 90 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

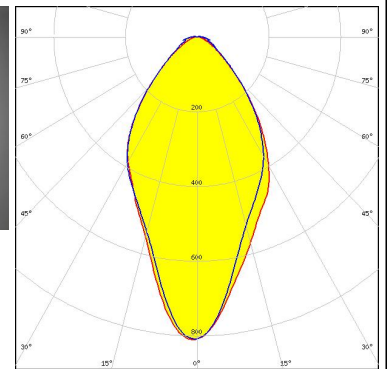
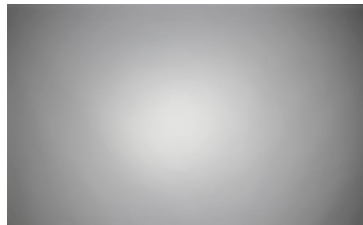
LED Duris S5 (Single chip)  
 FWHM / FWTM 58.0° / 107.0°  
 Efficiency 89 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

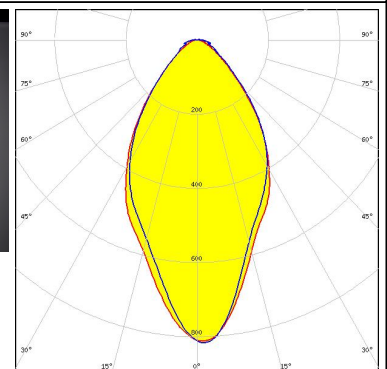
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 56.0° / 111.0°  
 Efficiency 93 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHILIPS

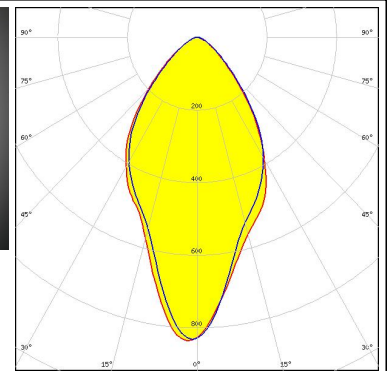
LED Fortimo LED Line 1ft 650lm 3R HV4 & LV4  
 FWHM / FWTM 58.0° / 108.0°  
 Efficiency 93 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

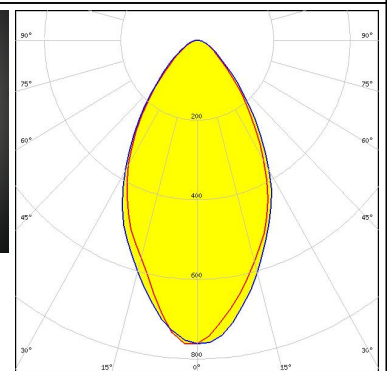
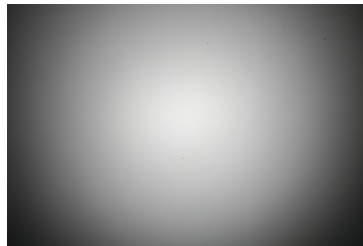
### SAMSUNG

LED LM231 A/B  
 FWHM / FWTM 56.0° / 107.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



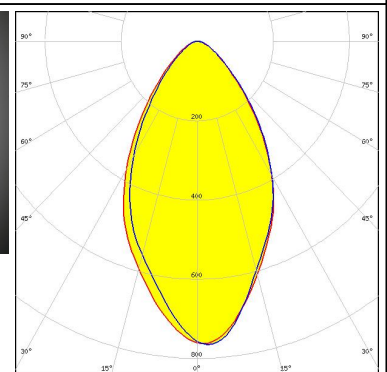
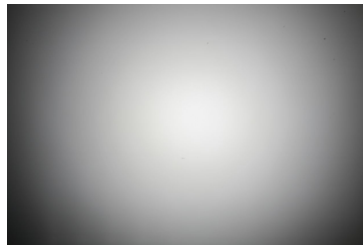
### SAMSUNG

LED LM362A  
 FWHM / FWTM 59.0° / 107.0°  
 Efficiency 85 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



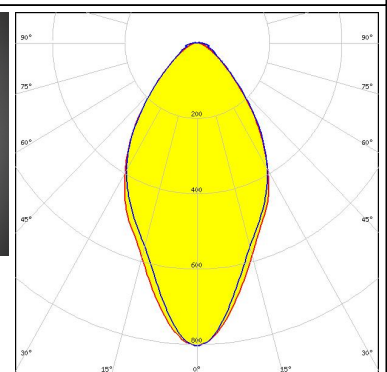
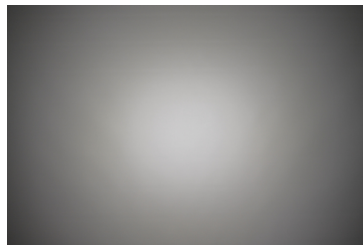
### SAMSUNG

LED LM561B  
 FWHM / FWTM 59.0° / 108.0°  
 Efficiency 86 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

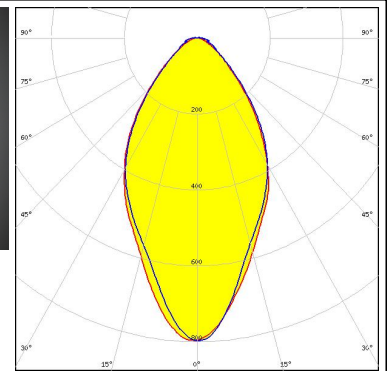
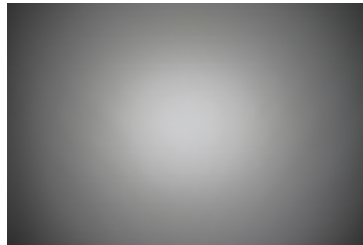
LED LM561B Plus  
 FWHM / FWTM 59.0° / 109.0°  
 Efficiency 93 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

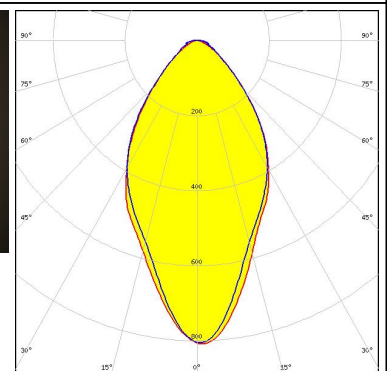
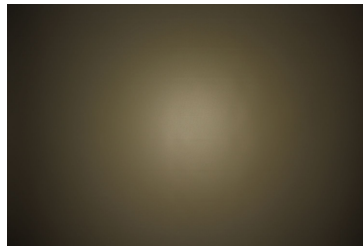
#### SAMSUNG

LED LM561C  
 FWHM / FWTM 59.0° / 110.0°  
 Efficiency 93 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

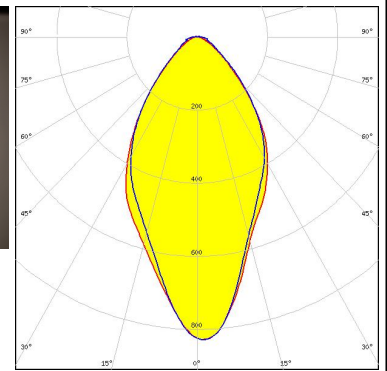
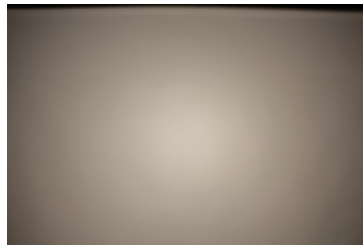


#### SAMSUNG

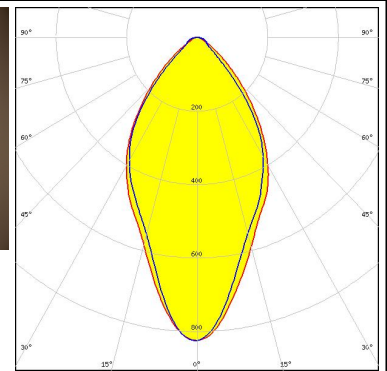
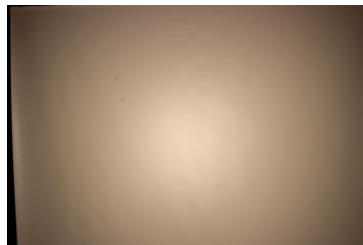
LED LT-R286A  
 FWHM / FWTM 58.0° / 110.0°  
 Efficiency 93 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR  
 LED SEOUL 3030  
 FWHM / FWTM 56.0° / 108.0°  
 Efficiency 92 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

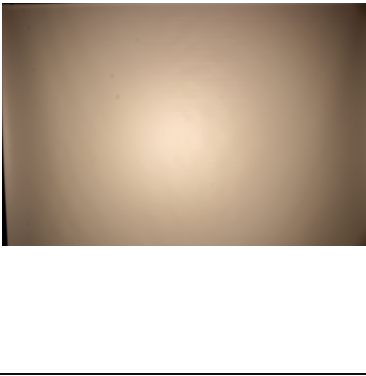
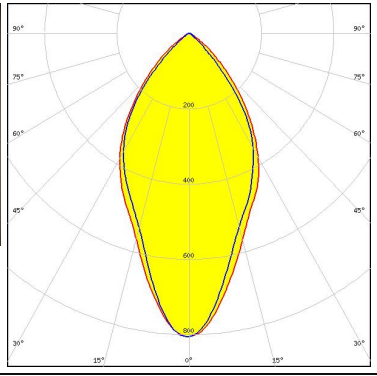

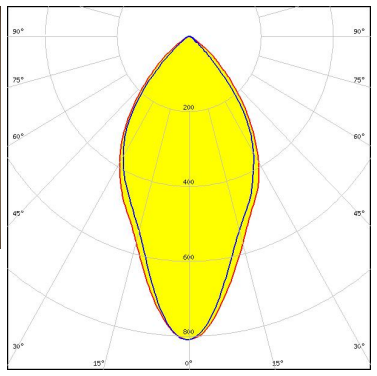
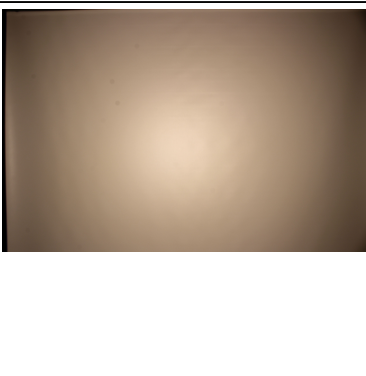
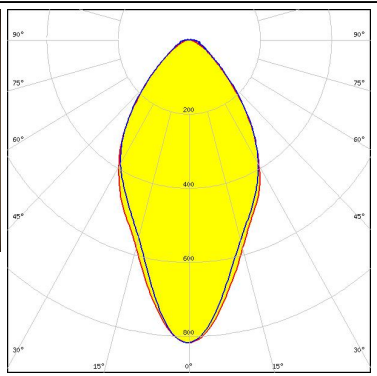
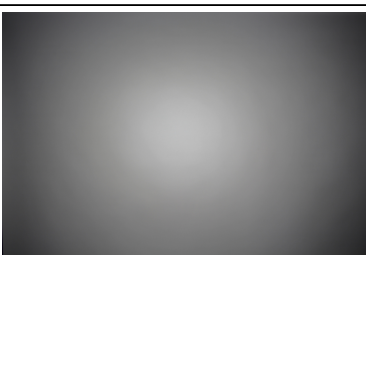
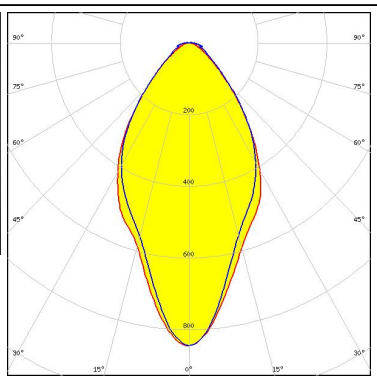


SEOUL SEMICONDUCTOR  
 LED SEOUL 5630C  
 FWHM / FWTM 58.0 + 54.0° / 106.0 + 97.0°  
 Efficiency 88 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C14646\_FLORENCE-3R-SHD-WHT





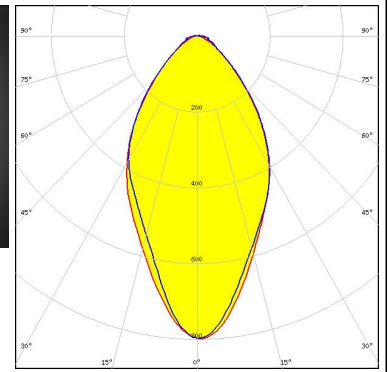
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    SEOUL 5630C</p> <p>FWHM / FWTM      57.0 + 52.0° / 103.0 + 94.0°</p> <p>Efficiency            78 %</p> <p>Peak intensity      0.8 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p> <p>    C14592_FLORENCE-3R-SHD-BLK</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    SEOUL 5630C</p> <p>FWHM / FWTM      57.0 + 53.0° / 104.0 + 95.0°</p> <p>Efficiency            80 %</p> <p>Peak intensity      0.8 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p> <p>    C14453_FLORENCE-3R-SHD-GR</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    SEOUL 5630C</p> <p>FWHM / FWTM      57.0° / 109.0°</p> <p>Efficiency            92 %</p> <p>Peak intensity      0.8 cd/m</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 3030</p> <p>FWHM / FWTM      59.0 + 55.0° / 106.0 + 108.0°</p> <p>Efficiency            93 %</p> <p>Peak intensity      0.9 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

#### TRIDONIC

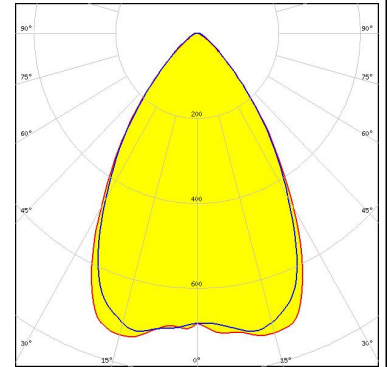
LED LLE G2 55x280mm 2000lm  
FWHM / FWTM 58.0° / 111.0°  
Efficiency 93 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



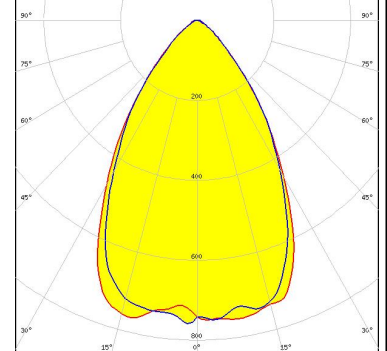
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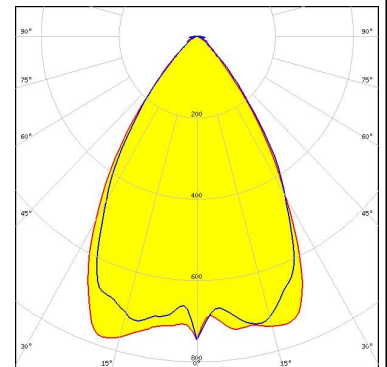
LED J Series 5050 Round LES  
 FWHM / FWTM 68.0° / 101.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



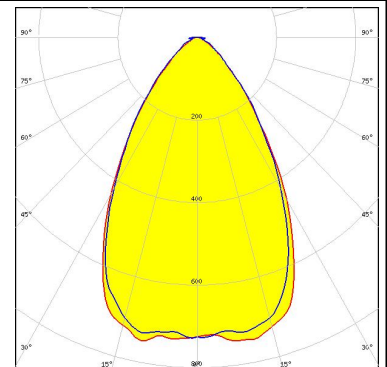
LED LUXEON 5050 Round LES  
 FWHM / FWTM 65.0° / 101.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



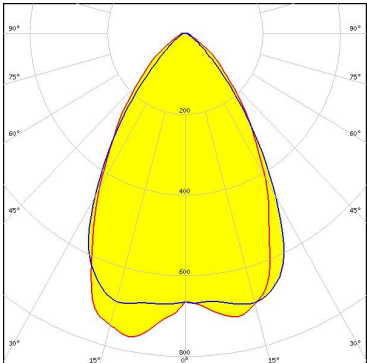
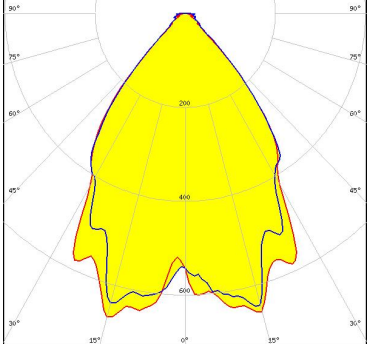
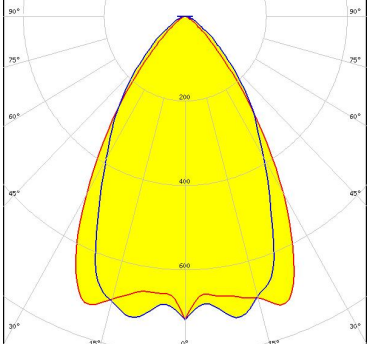
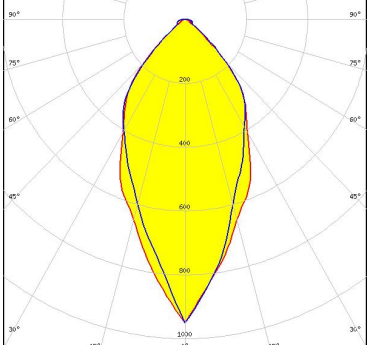
LED NF2x757G  
 FWHM / FWTM 62.0° / 94.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NFMW48xA  
 FWHM / FWTM 64.0° / 105.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

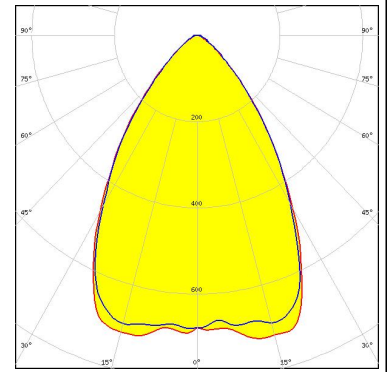
<p><b>NICHIA</b></p> <p>LED NFSx757G            FWHM / FWTM 63.0 + 68.0° / 110.0 + 100.0°            Efficiency 94 %            Peak intensity 0.8 cd/lm            LEDs/each optic 2            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM / FWTM 70.0° / 94.0°            Efficiency 87 %            Peak intensity 0.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris E 2835            FWHM / FWTM 68.0 + 57.0° / 100.0 + 97.0°            Efficiency 92 %            Peak intensity 0.7 cd/lm            LEDs/each optic 2            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris E 2835            FWHM / FWTM 50.0° / 99.0°            Efficiency 92 %            Peak intensity 1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

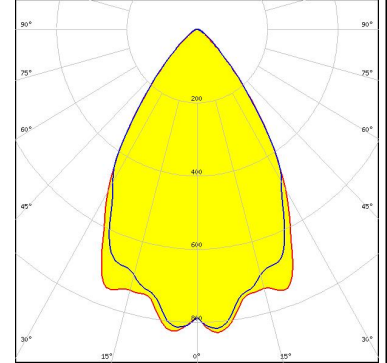
LED Duris S8  
 FWHM / FWTM 70.0° / 106.0°  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

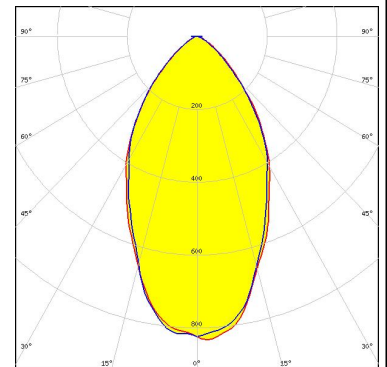
Opto Semiconductors

LED OSCONIQ C 2424  
 FWHM / FWTM 66.0° / 96.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



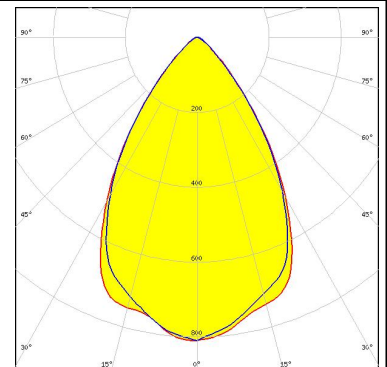
#### SAMSUNG

LED LH351D  
 FWHM / FWTM 59.0° / 106.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

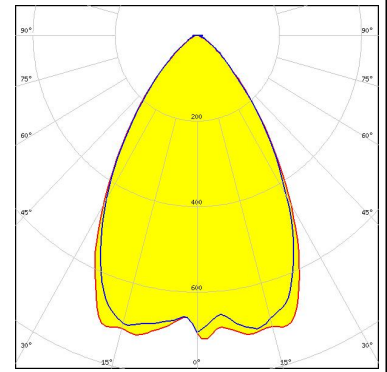
LED LM28xB Series  
 FWHM / FWTM 66.0° / 97.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

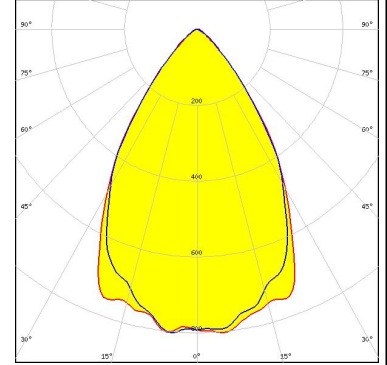
#### SAMSUNG

LED LM301B  
 FWHM / FWTM 68.0° / 106.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 2  
 Light colour White  
 Required components:



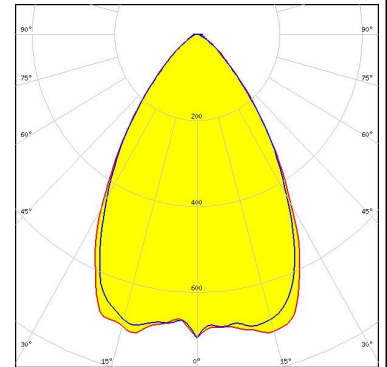
#### SAMSUNG

LED LM301B  
 FWHM / FWTM 66.0° / 98.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



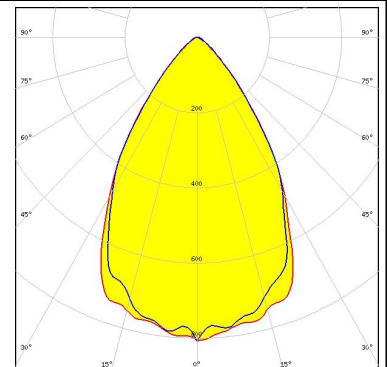
#### SAMSUNG

LED LM302Z plus  
 FWHM / FWTM 68.0° / 105.0°  
 Efficiency 93 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 2  
 Light colour White  
 Required components:

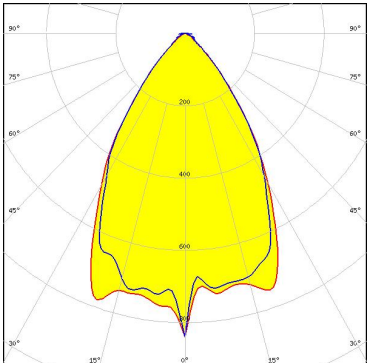
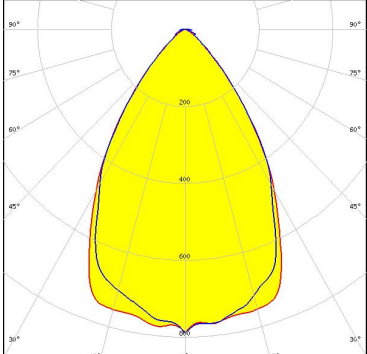
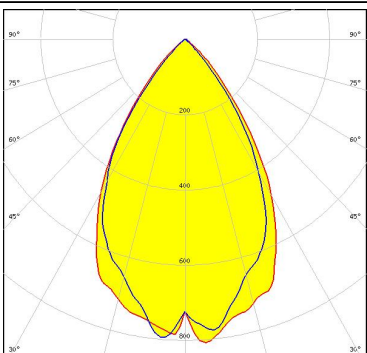


#### SAMSUNG

LED LM302Z plus  
 FWHM / FWTM 66.0° / 98.0°  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: SEOUL 5630D</p> <p>FWHM / FWTM: 65.0° / 95.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 0.8 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 3030C</p> <p>FWHM / FWTM: 66.0° / 98.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 0.8 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: Z8Y22</p> <p>FWHM / FWTM: 62.0° / 100.0°</p> <p>Efficiency: 93 %</p> <p>Peak intensity: 0.8 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 G2 55x280mm 2000lm</p> <p>FWHM / FWTM: 65.0 + 62.0° / 95.0 + 89.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 0.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components: C14592_FLORENCE-3R-SHD-BLK</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.

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