

## MIRELLA-50-W-PIN

~40° wide beam

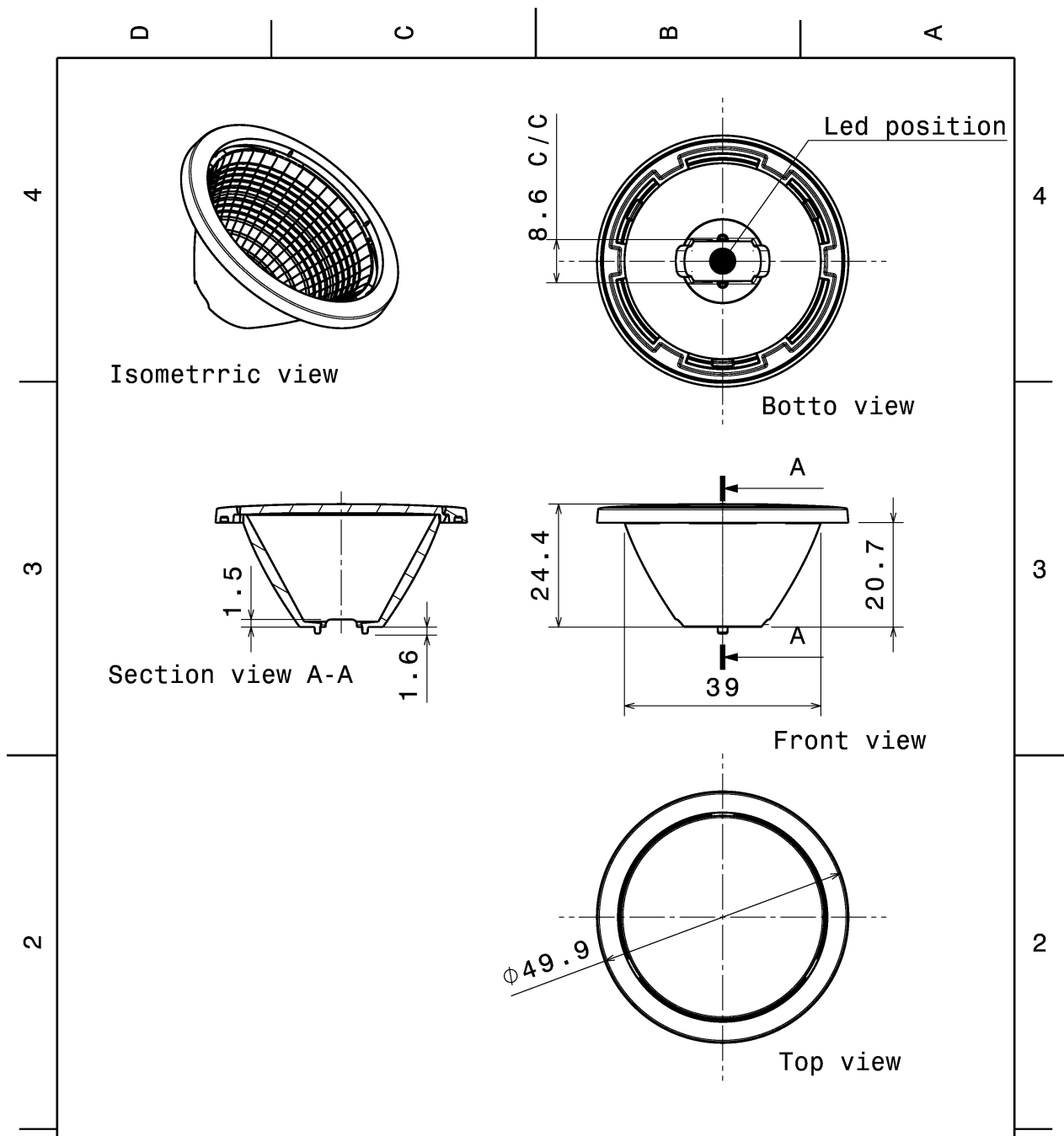
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	23.9 mm
Fastening	pin
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	2.7 kg
Quantity in Box	336 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
MIRELLA-50-W-PIN	Reflector	PC	metal	lacquer



Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:


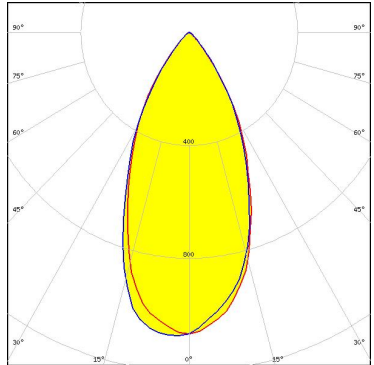
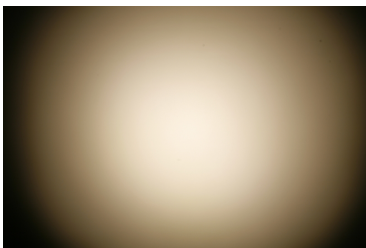
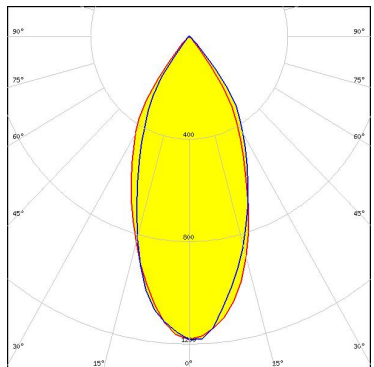

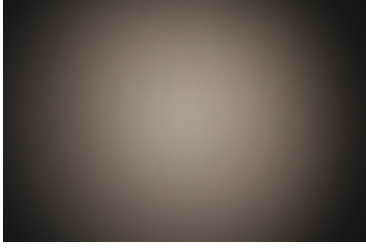
**DRAWING TITLE**  
Datasheet\_Mirella\_pin

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

<b>SIZE</b>	<b>PART NUMBER</b>
A4	-

<b>SCALE</b>	1:1	<b>WEIGHT</b>	-	<b>SHEET</b>	1/1
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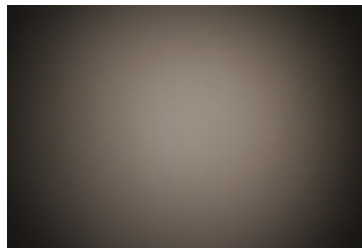
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED SM4</p> <p>FWHM 49.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 1.080 cd/lm</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED SM4</p> <p>FWHM 44.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 1.200 cd/lm</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p><b>CREE</b> ⇄</p> <p>LED MHB-A/B</p> <p>FWHM 49.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1.240 cd/lm</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p><b>CREE</b> ⇄</p> <p>LED MHB-A/B</p> <p>FWHM 45.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.370 cd/lm</p> <p>Required components:</p>		

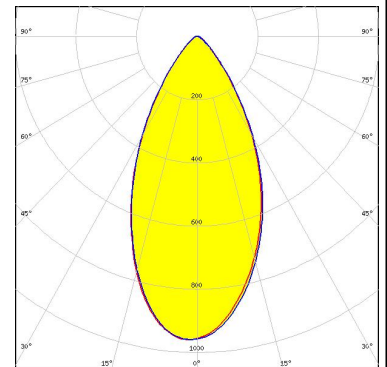
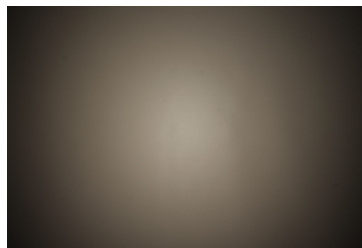
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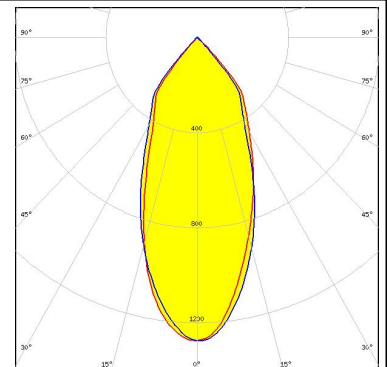
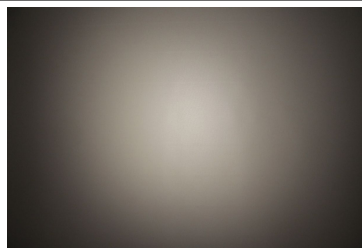
LED MHB-A/B  
FWHM 51.0°  
Efficiency 82 %  
Peak intensity 1.170 cd/lm  
Required components:  
C12479\_MIRELLA-DL



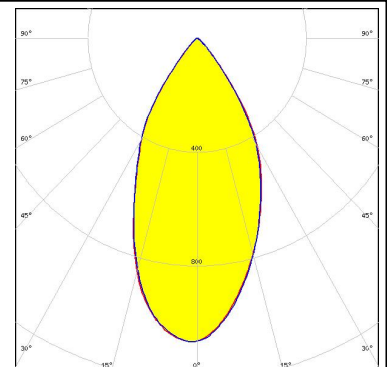
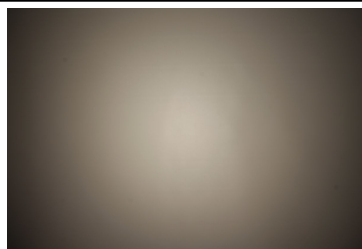
LED XHP50  
FWHM 51.0°  
Efficiency 81 %  
Peak intensity 0.960 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



LED XHP50  
FWHM 44.0°  
Efficiency 89 %  
Peak intensity 1.300 cd/lm  
Required components:



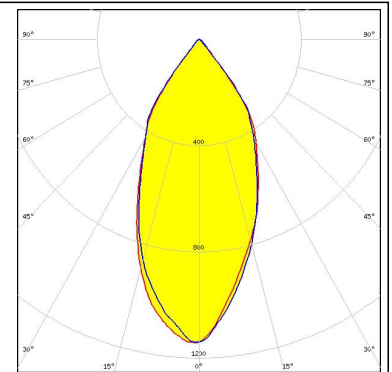
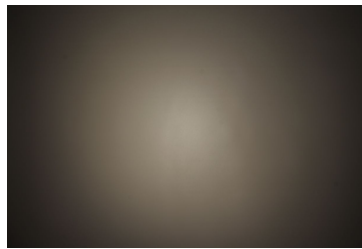
LED XHP50  
FWHM 51.0°  
Efficiency 84 %  
Peak intensity 1.100 cd/lm  
Required components:  
C12479\_MIRELLA-DL



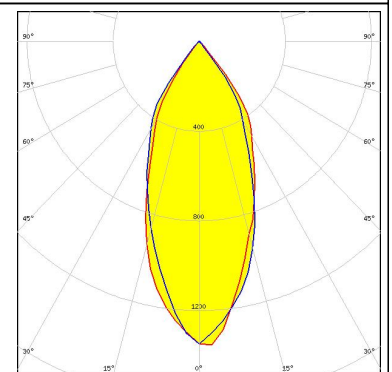
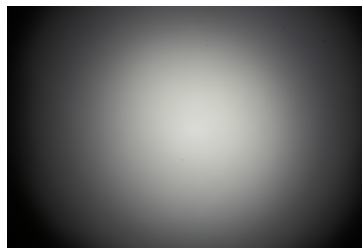
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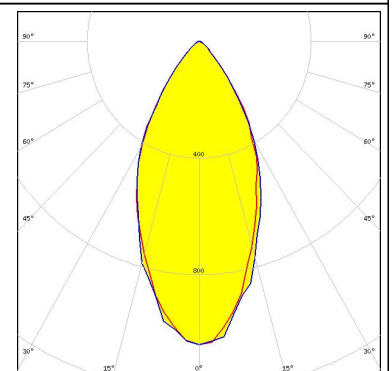
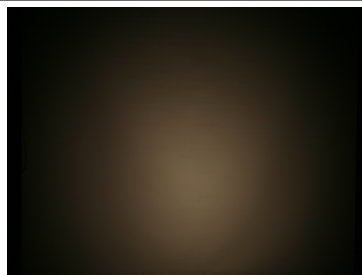
LED XHP50  
 FWHM 48.0°  
 Efficiency 83 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



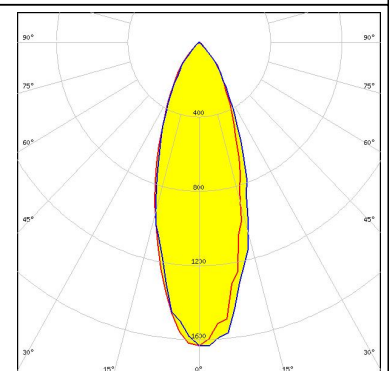
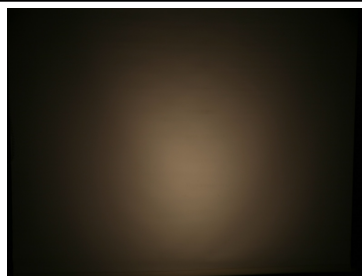
LED XM-L  
 FWHM 45.0°  
 Efficiency 86 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



LED XM-L  
 FWHM 46.0°  
 Efficiency 80 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



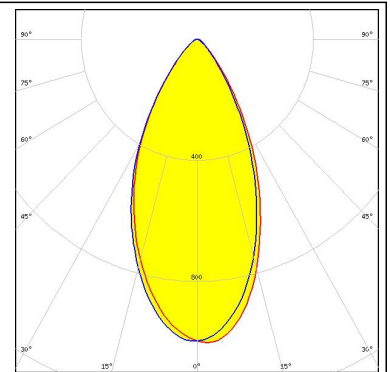
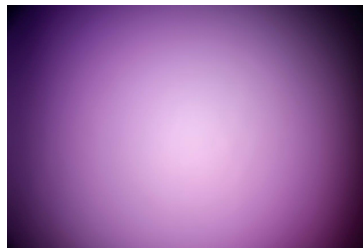
LED XM-L  
 FWHM 32.0°  
 Efficiency 88 %  
 Peak intensity 1.630 cd/lm  
 Required components:



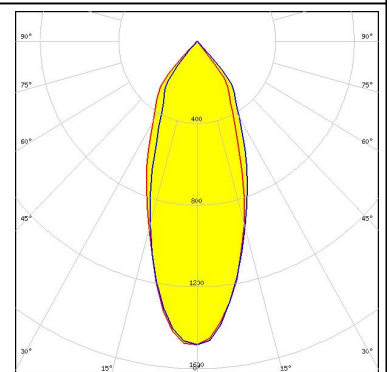
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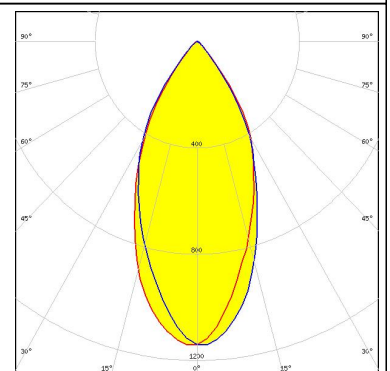
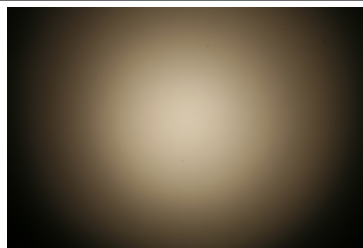
LED XM-L RGB  
 FWHM 50.0°  
 Efficiency 81 %  
 Peak intensity 1.000 cd/lm  
 Required components:  
 C13723\_MIRELLA-RZL



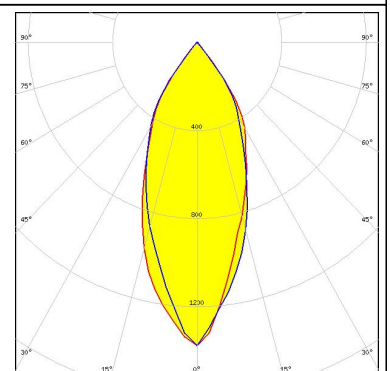
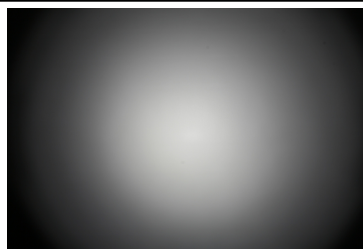
LED XM-L2  
 FWHM 39.0°  
 Efficiency 89 %  
 Peak intensity 1.500 cd/lm  
 Required components:



LED XM-L2  
 FWHM 49.0°  
 Efficiency 81 %  
 Peak intensity 1.100 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



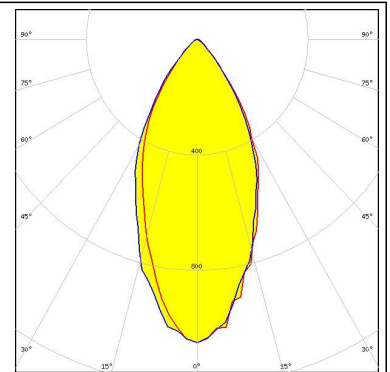
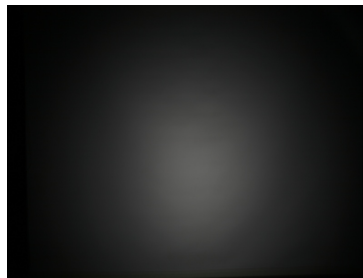
LED XP-G  
 FWHM 41.0°  
 Efficiency 81 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



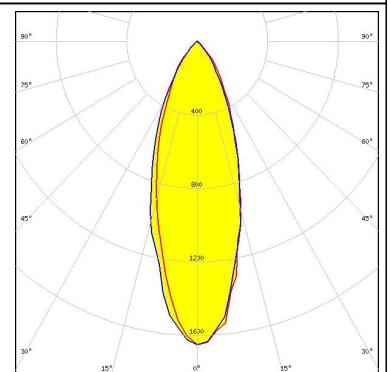
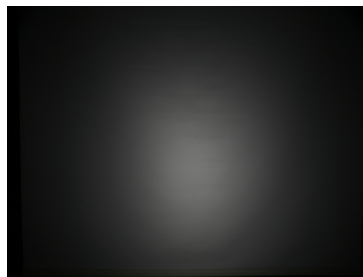
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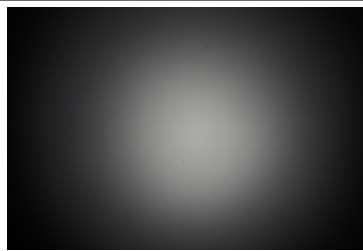
LED XP-G  
FWHM 50.0°  
Efficiency 80 %  
Peak intensity 1.050 cd/lm  
Required components:  
C12479\_MIRELLA-DL



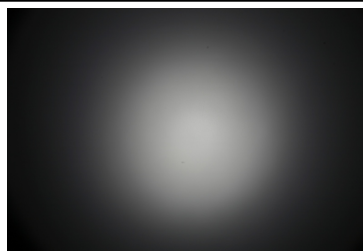
LED XP-G  
FWHM 34.0°  
Efficiency 86 %  
Peak intensity 1.700 cd/lm  
Required components:



LED XP-G2  
FWHM 45.0°  
Efficiency 83 %  
Peak intensity 1.300 cd/lm  
Required components:  
C12479\_MIRELLA-DL



LED XP-G2  
FWHM 36.0°  
Efficiency 88 %  
Peak intensity 1.700 cd/lm  
Required components:



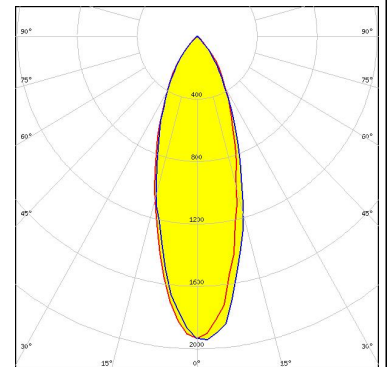
**PHOTOMETRIC DATA (MEASURED):**



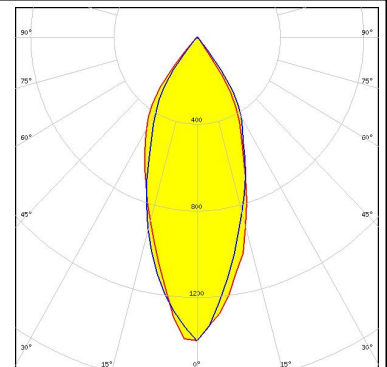
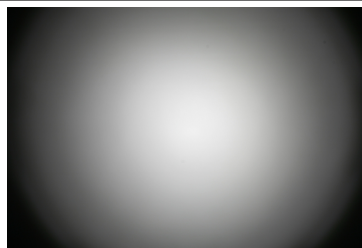
LED XP-L HI  
FWHM 35.0°  
Efficiency 87 %  
Peak intensity 1.700 cd/lm  
Required components:



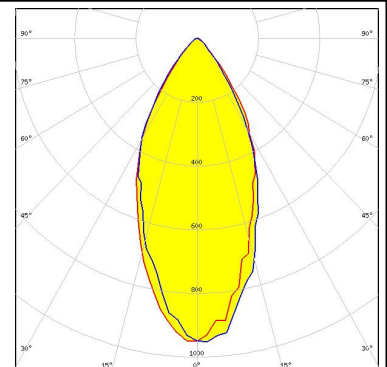
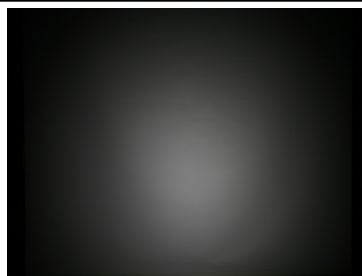
LED XT-E  
FWHM 31.0°  
Efficiency 84 %  
Peak intensity 1.200 cd/lm  
Required components:



LED XT-E  
FWHM 41.0°  
Efficiency 83 %  
Peak intensity 1.400 cd/lm  
Required components:  
C13333\_MIRELLA-CL



LED XT-E  
FWHM 46.0°  
Efficiency 77 %  
Peak intensity 0.950 cd/lm  
Required components:  
C12479\_MIRELLA-DL

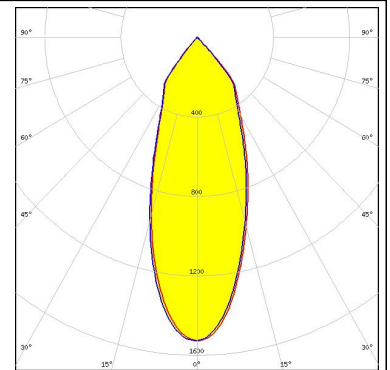




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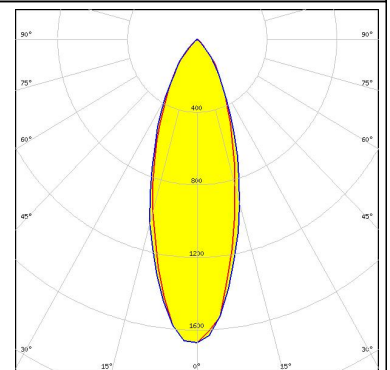
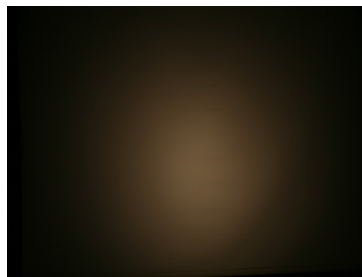
##### LUMILEDS

LED LUXEON 5050  
 FWHM 38.0°  
 Efficiency 89 %  
 Peak intensity 1.500 cd/lm  
 Required components:



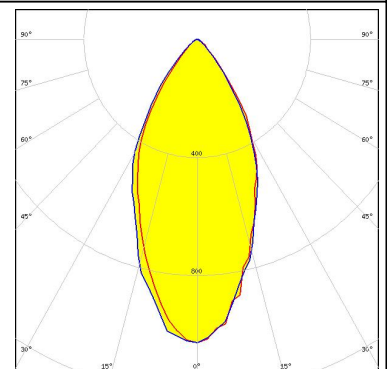
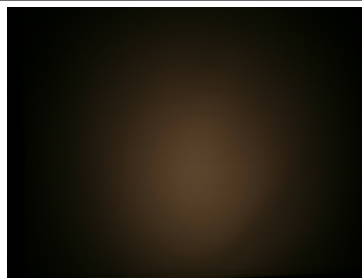
##### LUMILEDS

LED LUXEON A  
 FWHM 30.0°  
 Efficiency 86 %  
 Peak intensity 1.670 cd/lm  
 Required components:



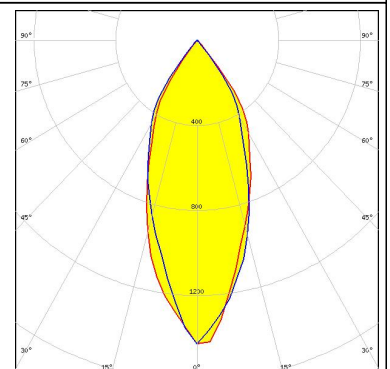
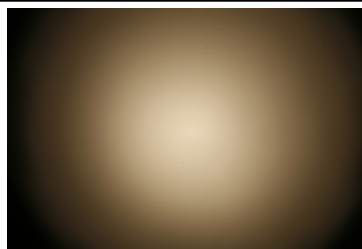
##### LUMILEDS

LED LUXEON A  
 FWHM 48.0°  
 Efficiency 80 %  
 Peak intensity 1.030 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



##### LUMILEDS

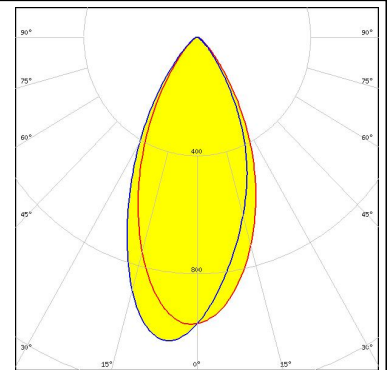
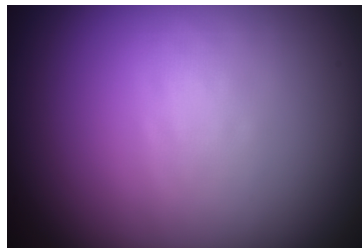
LED LUXEON A  
 FWHM 41.0°  
 Efficiency 84 %  
 Peak intensity 1.400 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



#### PHOTOMETRIC DATA (MEASURED):

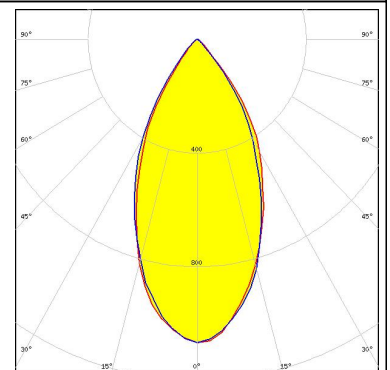
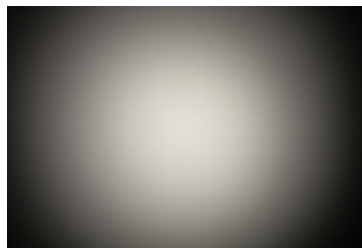
#### LUMILEDS

LED LUXEON C RGBW  
 FWHM 47.0°  
 Efficiency 77 %  
 Peak intensity 1.030 cd/lm  
 Required components:  
 C13723\_MIRELLA-RZL



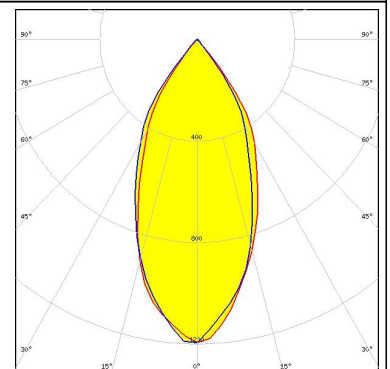
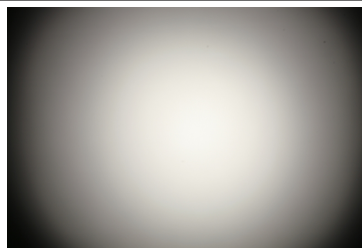
#### LUMILEDS

LED LUXEON M/MX  
 FWHM 54.0°  
 Efficiency 80 %  
 Peak intensity 0.980 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



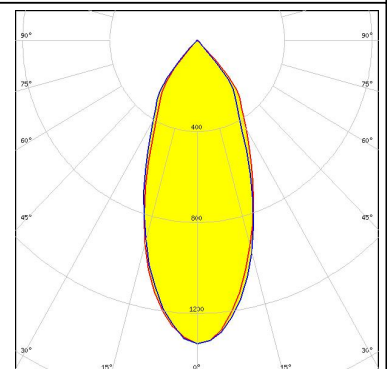
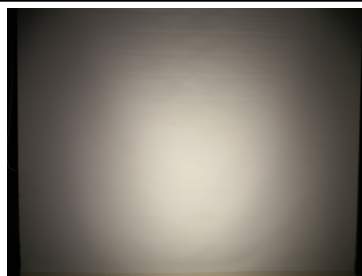
#### LUMILEDS

LED LUXEON M/MX  
 FWHM 47.0°  
 Efficiency 83 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL

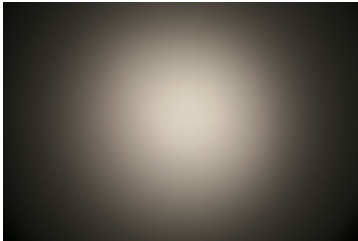
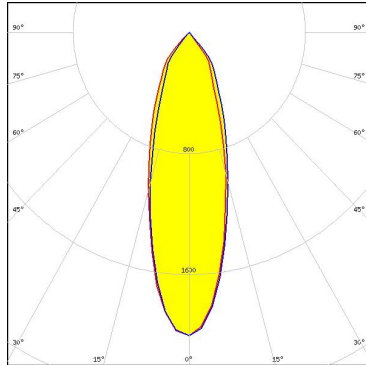
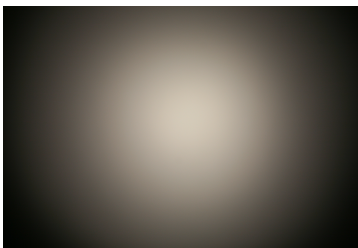
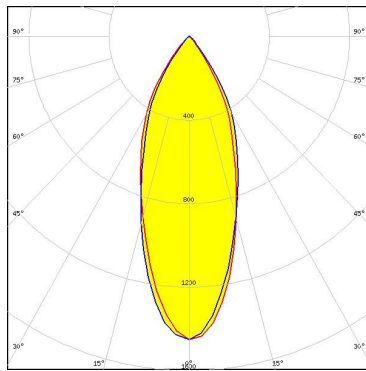
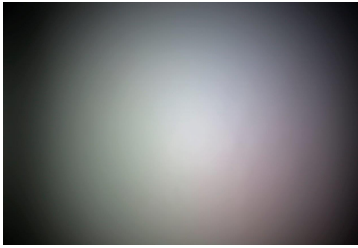
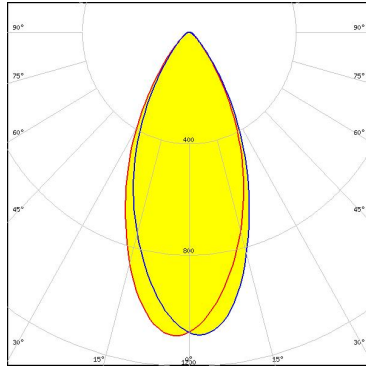

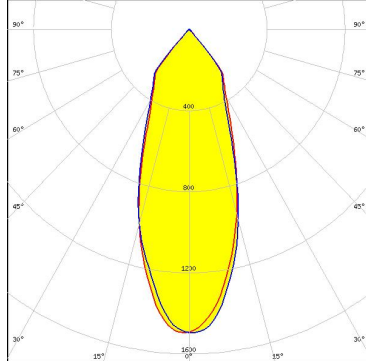


#### LUMILEDS

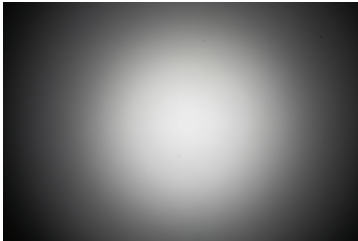
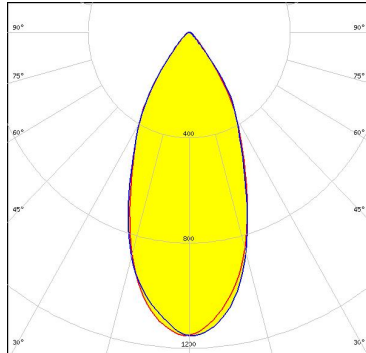

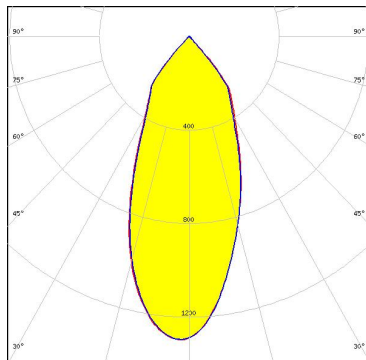
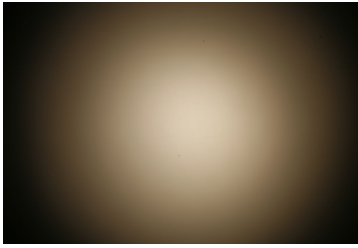
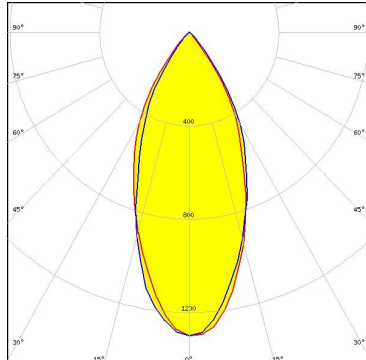
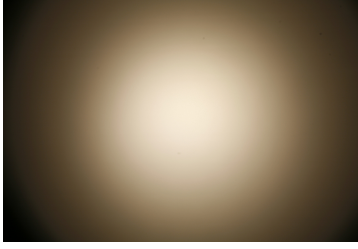
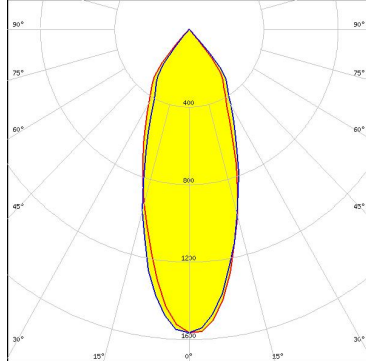
LED LUXEON M/MX  
 FWHM 39.0°  
 Efficiency 87 %  
 Peak intensity 1.400 cd/lm  
 Required components:



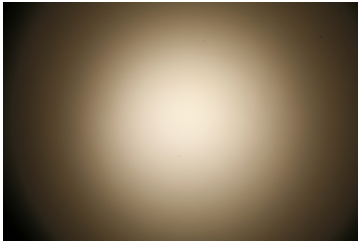
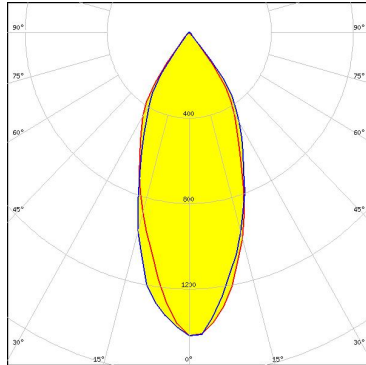
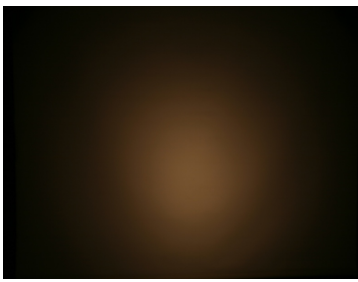
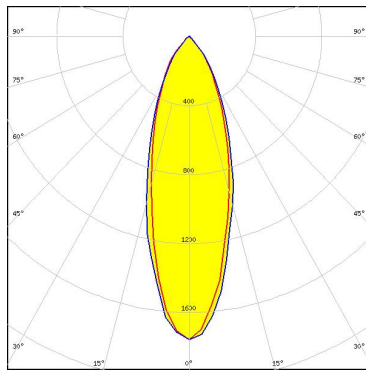

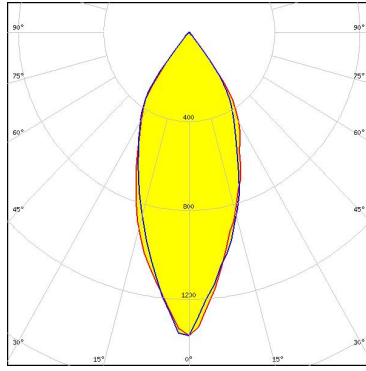
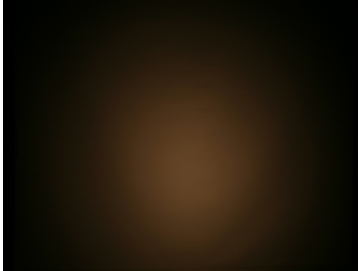
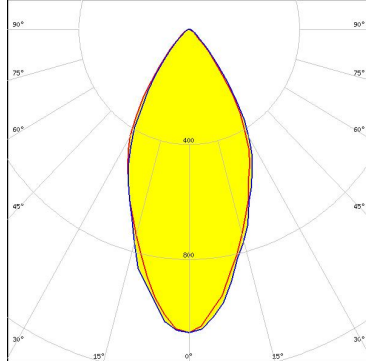
**PHOTOMETRIC DATA (MEASURED):**

<p><b>LUMILEDS</b></p> <p>LED LUXEON MZ            FWHM 32.0°            Efficiency 87 %            Peak intensity 2.000 cd/lm            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON MZ            FWHM 40.0°            Efficiency 82 %            Peak intensity 1.500 cd/lm            Required components:            C12479_MIRELLA-DL</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON Z RGB            FWHM 46.0°            Efficiency 80 %            Peak intensity 1.100 cd/lm            Required components:            C13723_MIRELLA-RZL</p>		
<p><b>NICHIA</b></p> <p>LED NS9x383            FWHM 39.0°            Efficiency 89 %            Peak intensity 1.500 cd/lm            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NS9x383            FWHM 46.0°            Efficiency 83 %            Peak intensity 1.150 cd/lm            Required components:            C12479_MIRELLA-DL</p>		
<p><b>NICHIA</b></p> <p>LED NV4x144A            FWHM 43.0°            Efficiency 87 %            Peak intensity 1.300 cd/lm            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S8            FWHM 44.0°            Efficiency 83 %            Peak intensity 1.300 cd/lm            Required components:            C12479_MIRELLA-DL</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S8            FWHM 39.0°            Efficiency 88 %            Peak intensity 1.600 cd/lm            Required components:</p>		

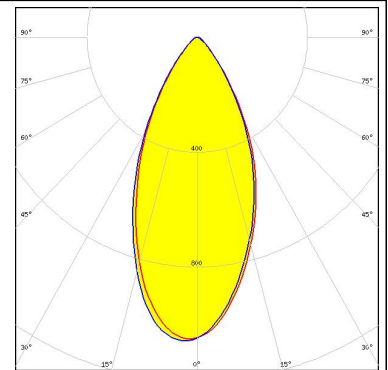
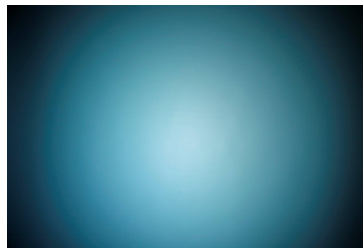
#### PHOTOMETRIC DATA (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S8 FWHM 42.0° Efficiency 84 % Peak intensity 1.400 cd/lm Required components: C13333_MIRELLA-CL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Oslon Square EC FWHM 32.0° Efficiency 85 % Peak intensity 1.760 cd/lm Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Oslon Square EC FWHM 41.0° Efficiency 83 % Peak intensity 1.400 cd/lm Required components: C13333_MIRELLA-CL</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Oslon Square EC FWHM 50.0° Efficiency 79 % Peak intensity 1.060 cd/lm Required components: C12479_MIRELLA-DL</p>		

#### PHOTOMETRIC DATA (MEASURED):

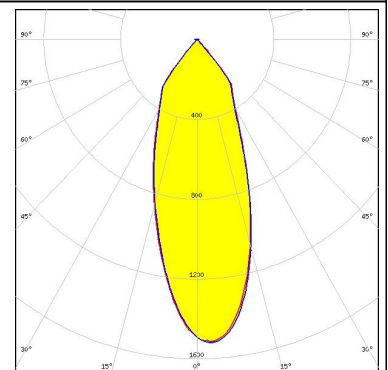
**OSRAM**  
Opto Semiconductors

LED Ostar-SMT RGB  
FWHM 48.0°  
Efficiency 81 %  
Peak intensity 1.100 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



**SAMSUNG**

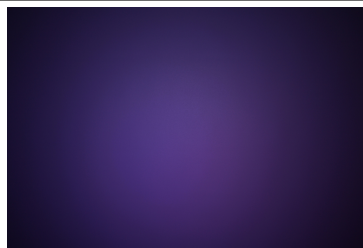
LED LH508A  
FWHM 38.0°  
Efficiency 87 %  
Peak intensity 1.500 cd/lm  
Required components:



**SEOL**

SEOUL SEMICONDUCTOR

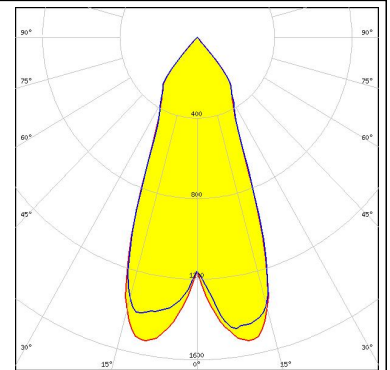
LED F50360 (RGB)  
FWHM 46.0°  
Efficiency 81 %  
Peak intensity 1.200 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



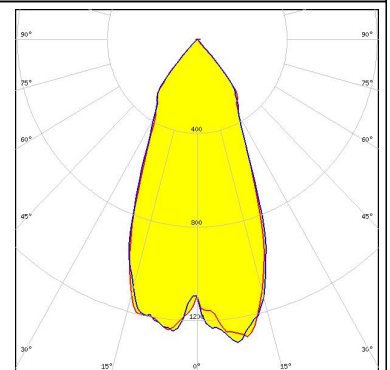
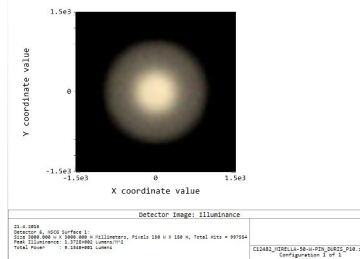
#### PHOTOMETRIC DATA (SIMULATED):



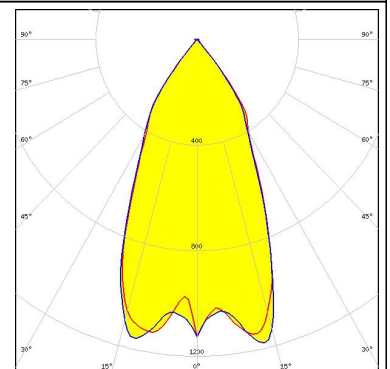
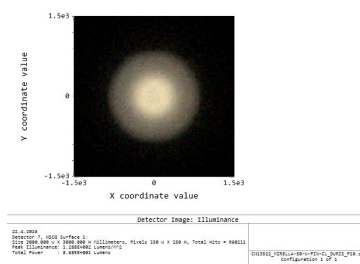
LED LUXEON 5258  
 FWHM 41.0°  
 Efficiency 91 %  
 Peak intensity 1.500 cd/lm  
 Required components:



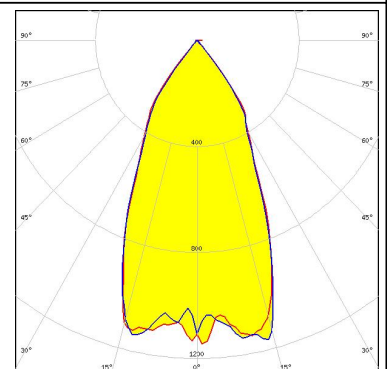
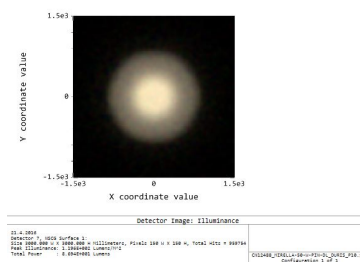
LED OSCONIQ P 7070  
 FWHM 45.0°  
 Efficiency 91 %  
 Peak intensity 1.320 cd/lm  
 Required components:



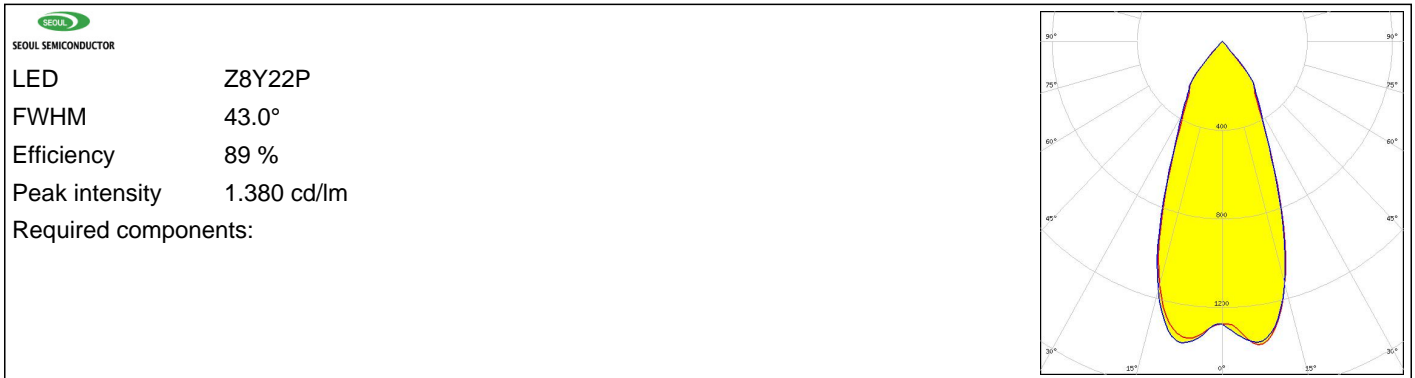
LED OSCONIQ P 7070  
 FWHM 46.0°  
 Efficiency 87 %  
 Peak intensity 1.190 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



LED OSCONIQ P 7070  
 FWHM 50.0°  
 Efficiency 87 %  
 Peak intensity 1.200 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



#### 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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