



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## MIRELLA-50-M-PIN

~30° medium beam

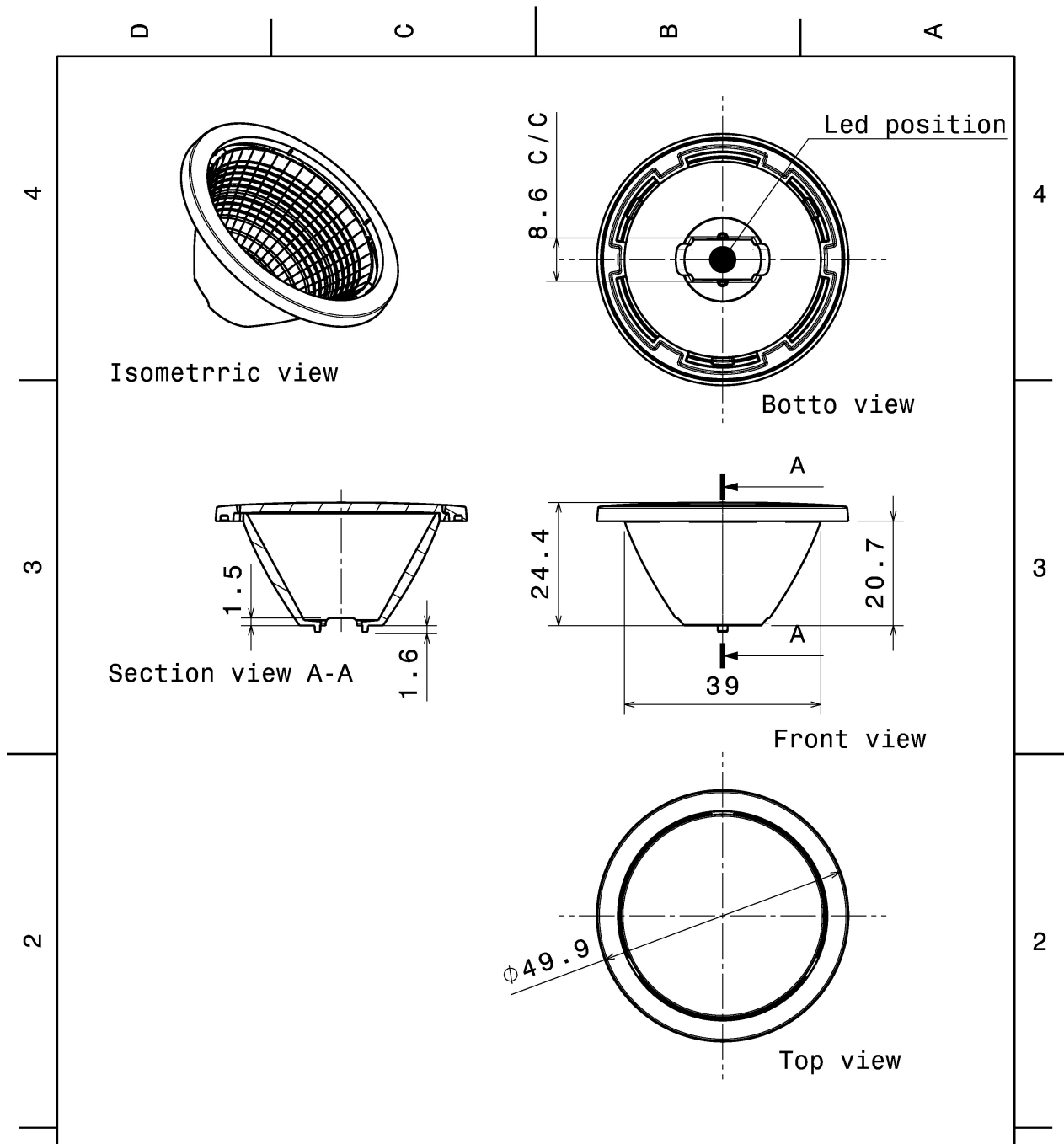
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	23.9 mm
Fastening	pin
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	3.1 kg
Quantity in Box	336 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
MIRELLA-50-M-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:


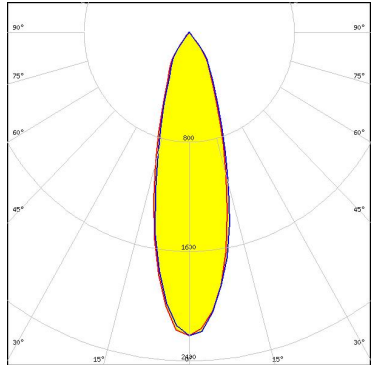
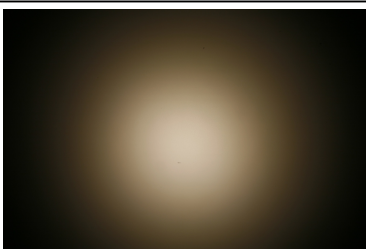
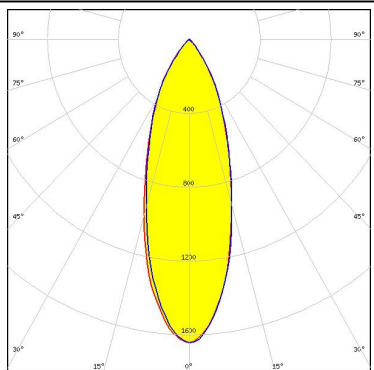
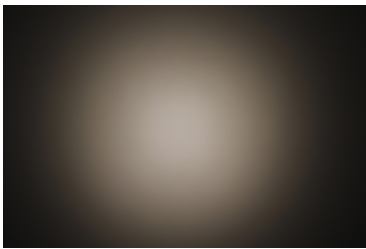
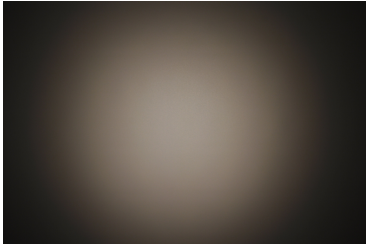
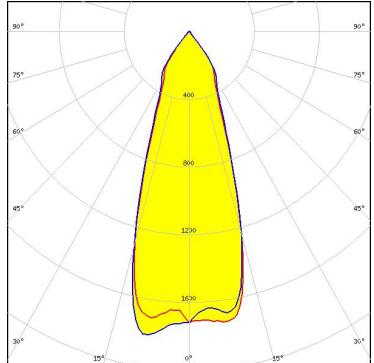
**DRAWING TITLE**  
Datasheet\_Mirella\_pin

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 29.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 2.200 cd/lm</p> <p>Required components: C13333_MIRELLA-CL</p>		
<p>bridgelux</p> <p>LED SM4</p> <p>FWHM 35.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 1.650 cd/lm</p> <p>Required components: C12479_MIRELLA-DL</p>		
<p><b>CREE</b> ⇄</p> <p>LED MHB-A/B</p> <p>FWHM 28.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.530 cd/lm</p> <p>Required components:</p>		
<p><b>CREE</b> ⇄</p> <p>LED MHB-A/B</p> <p>FWHM 35.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.820 cd/lm</p> <p>Required components: C12479_MIRELLA-DL</p>		

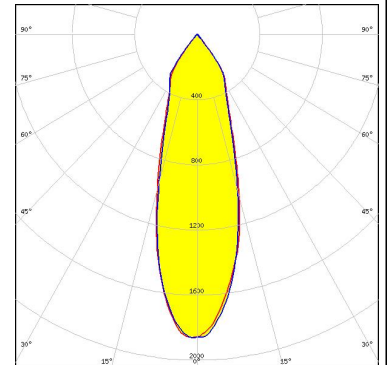
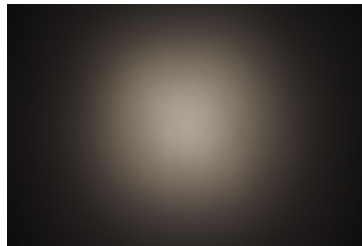
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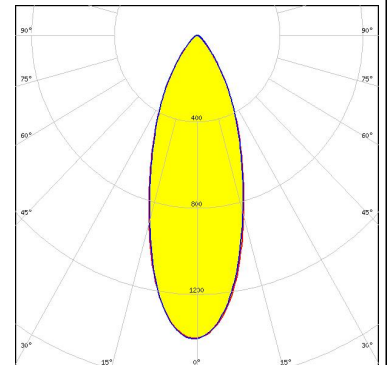
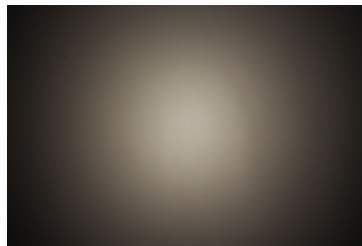
LED MHB-A/B  
FWHM 34.0°  
Efficiency 83 %  
Peak intensity 1.970 cd/lm  
Required components:  
C13333\_MIRELLA-CL



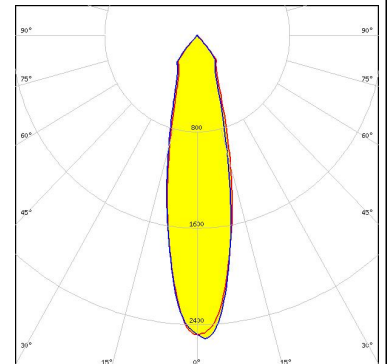
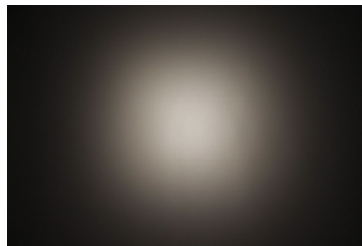
LED XHP50  
FWHM 32.0°  
Efficiency 85 %  
Peak intensity 1.900 cd/lm  
Required components:  
C13333\_MIRELLA-CL



LED XHP50  
FWHM 37.0°  
Efficiency 83 %  
Peak intensity 1.400 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



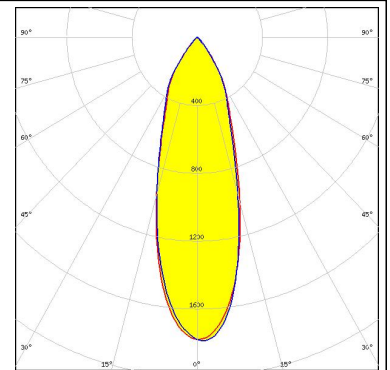
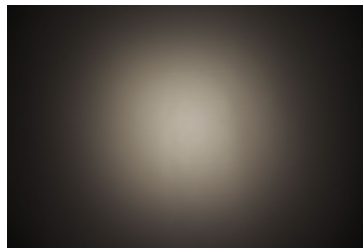
LED XHP50  
FWHM 25.0°  
Efficiency 90 %  
Peak intensity 2.500 cd/lm  
Required components:



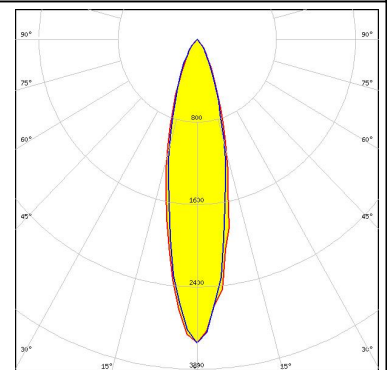
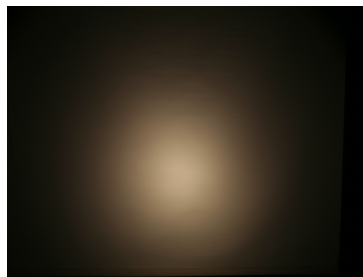
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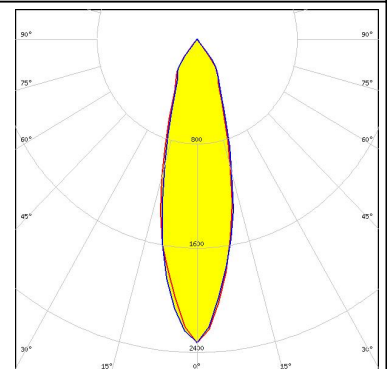
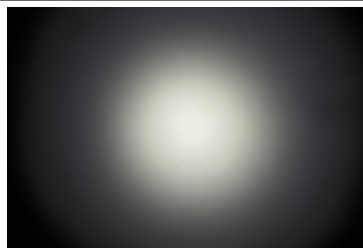
LED XHP50  
 FWHM 32.0°  
 Efficiency 86 %  
 Peak intensity 1.800 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



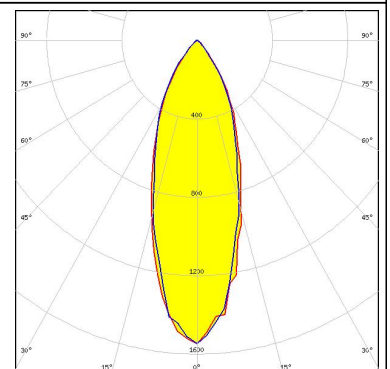
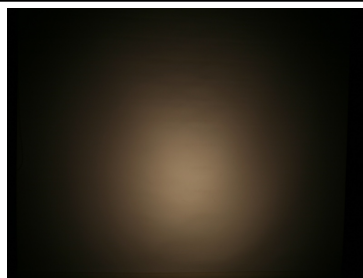
LED XM-L  
 FWHM 24.0°  
 Efficiency 89 %  
 Peak intensity 2.900 cd/lm  
 Required components:



LED XM-L  
 FWHM 28.0°  
 Efficiency 84 %  
 Peak intensity 2.300 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



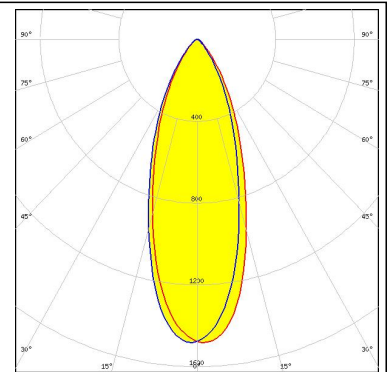
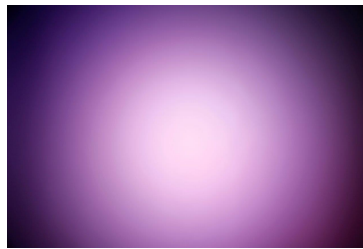
LED XM-L  
 FWHM 35.0°  
 Efficiency 80 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



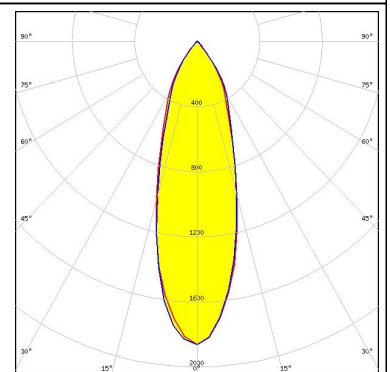
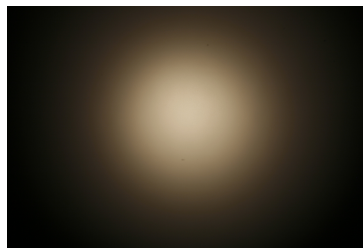
#### PHOTOMETRIC DATA (MEASURED):



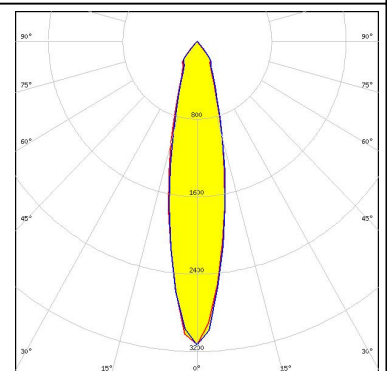
LED XM-L RGB  
 FWHM 37.0°  
 Efficiency 83 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 C13723\_MIRELLA-RZL



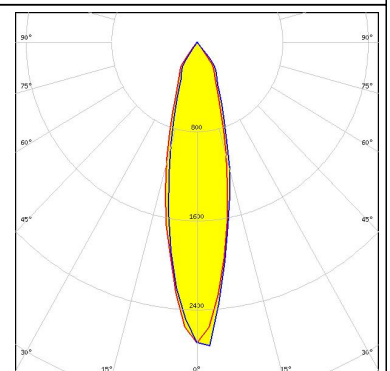
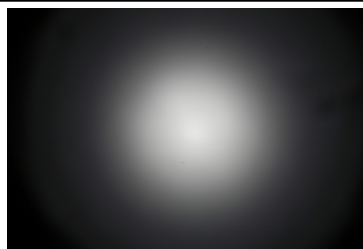
LED XM-L2  
 FWHM 33.0°  
 Efficiency 82 %  
 Peak intensity 1.900 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



LED XM-L2  
 FWHM 22.0°  
 Efficiency 91 %  
 Peak intensity 3.100 cd/lm  
 Required components:



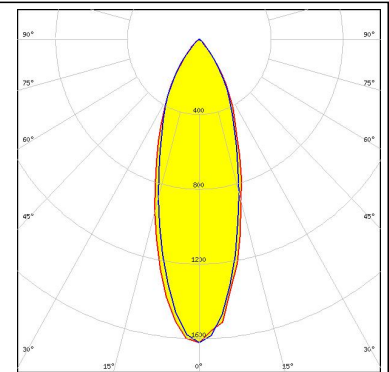
LED XP-G  
 FWHM 24.0°  
 Efficiency 83 %  
 Peak intensity 2.700 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



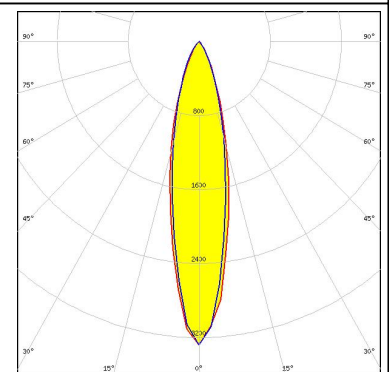
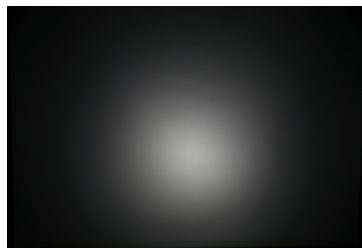
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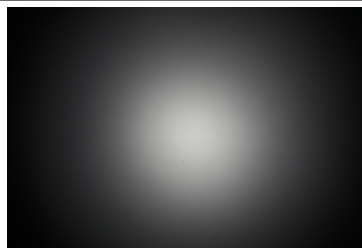
LED XP-G  
FWHM 34.0°  
Efficiency 81 %  
Peak intensity 1.620 cd/lm  
Required components:  
C12479\_MIRELLA-DL



LED XP-G  
FWHM 24.0°  
Efficiency 86 %  
Peak intensity 3.300 cd/lm  
Required components:



LED XP-G2  
FWHM 30.0°  
Efficiency 83 %  
Peak intensity 2.000 cd/lm  
Required components:  
C12479\_MIRELLA-DL



LED XP-G2  
FWHM 22.0°  
Efficiency 88 %  
Peak intensity 2.900 cd/lm  
Required components:

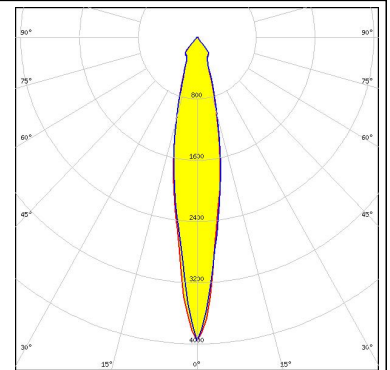




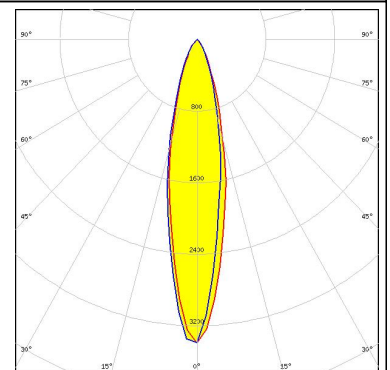
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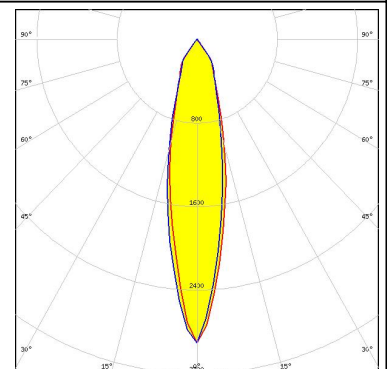
LED XP-L HI  
 FWHM 17.0°  
 Efficiency 88 %  
 Peak intensity 4.500 cd/lm  
 Required components:



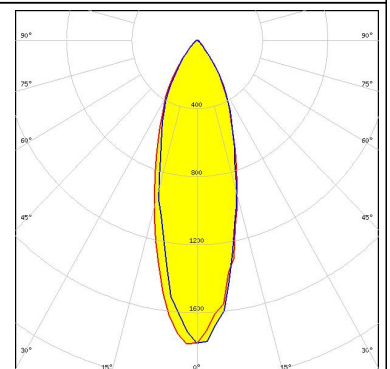
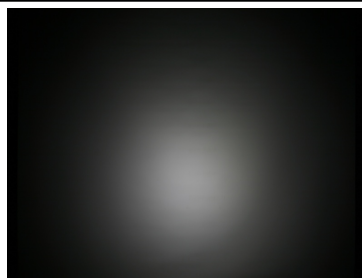
LED XT-E  
 FWHM 23.0°  
 Efficiency 85 %  
 Peak intensity 3.400 cd/lm  
 Required components:



LED XT-E  
 FWHM 22.0°  
 Efficiency 81 %  
 Peak intensity 2.900 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



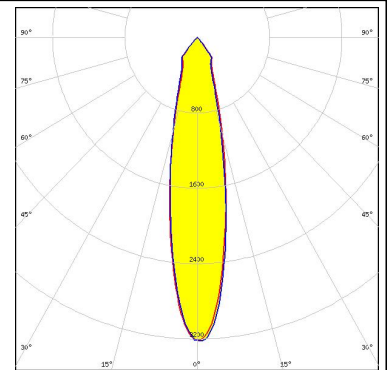
LED XT-E  
 FWHM 32.0°  
 Efficiency 78 %  
 Peak intensity 1.780 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



#### PHOTOMETRIC DATA (MEASURED):

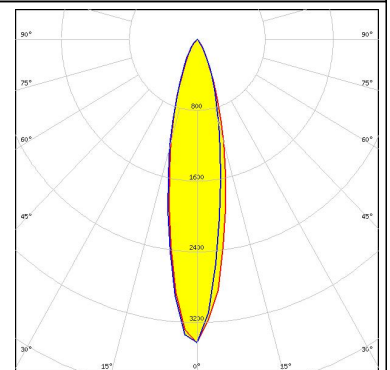
##### LUMILEDS

LED LUXEON 5050  
 FWHM 22.0°  
 Efficiency 90 %  
 Peak intensity 3.200 cd/lm  
 Required components:



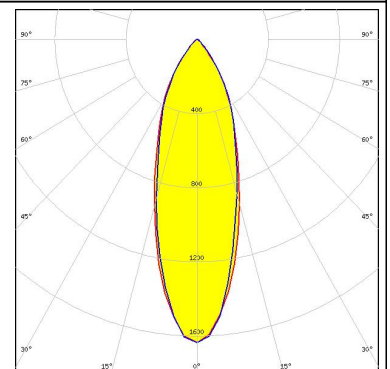
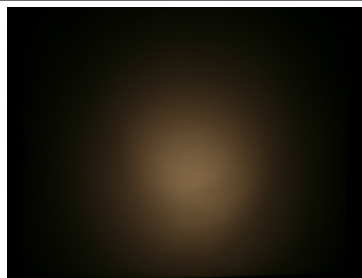
##### LUMILEDS

LED LUXEON A  
 FWHM 22.0°  
 Efficiency 87 %  
 Peak intensity 3.400 cd/lm  
 Required components:



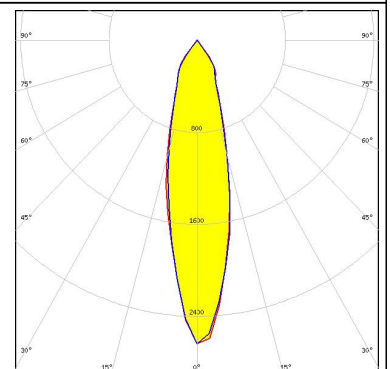
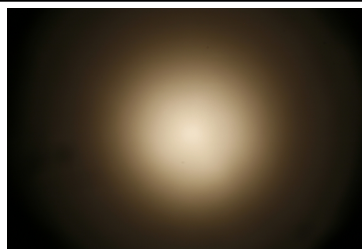
##### LUMILEDS

LED LUXEON A  
 FWHM 34.0°  
 Efficiency 80 %  
 Peak intensity 1.640 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



##### LUMILEDS

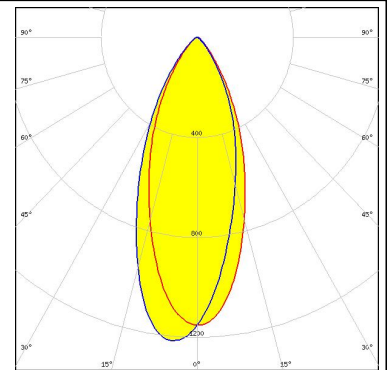
LED LUXEON A  
 FWHM 24.0°  
 Efficiency 84 %  
 Peak intensity 2.600 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



#### PHOTOMETRIC DATA (MEASURED):

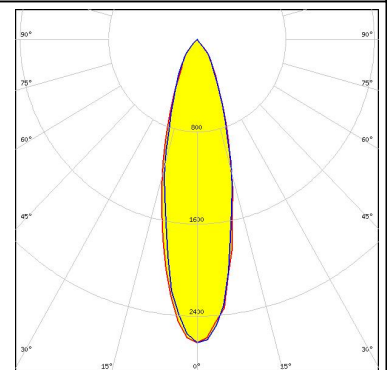
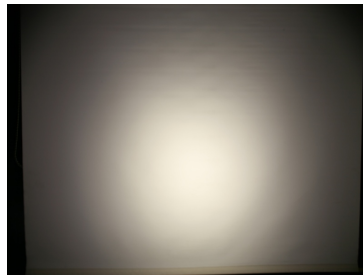
##### LUMILEDS

LED LUXEON C RGBW  
 FWHM 39.0°  
 Efficiency 74 %  
 Peak intensity 1.220 cd/lm  
 Required components:  
 C13723\_MIRELLA-RZL



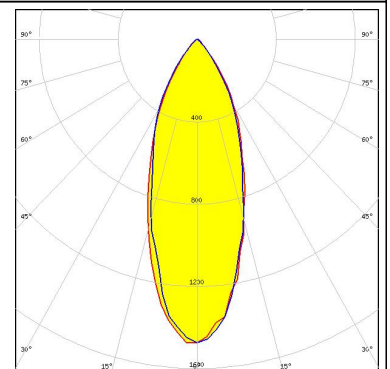
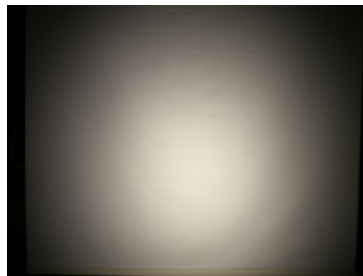
##### LUMILEDS

LED LUXEON M/MX  
 FWHM 24.0°  
 Efficiency 87 %  
 Peak intensity 2.630 cd/lm  
 Required components:



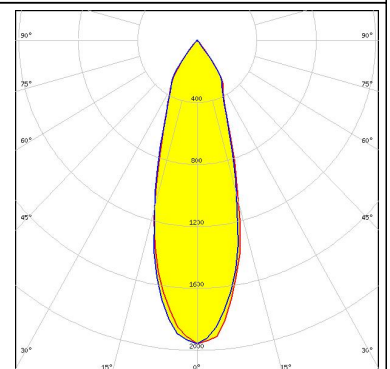
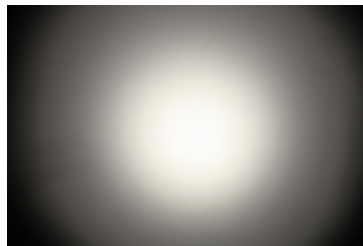
##### LUMILEDS

LED LUXEON M/MX  
 FWHM 38.0°  
 Efficiency 81 %  
 Peak intensity 1.500 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



##### LUMILEDS

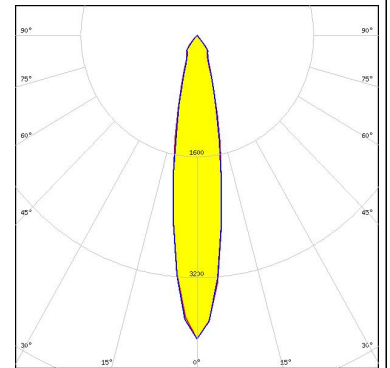
LED LUXEON M/MX  
 FWHM 33.0°  
 Efficiency 84 %  
 Peak intensity 2.000 cd/lm  
 Required components:  
 C13333\_MIRELLA-CL



**PHOTOMETRIC DATA (MEASURED):**

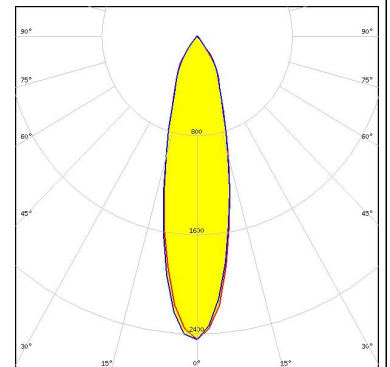
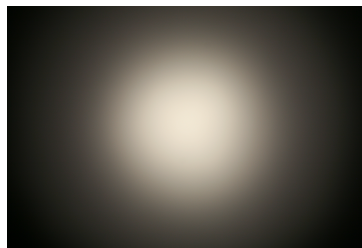
**LUMILEDS**

LED LUXEON MZ  
FWHM 20.0°  
Efficiency 88 %  
Peak intensity 4.000 cd/lm  
Required components:



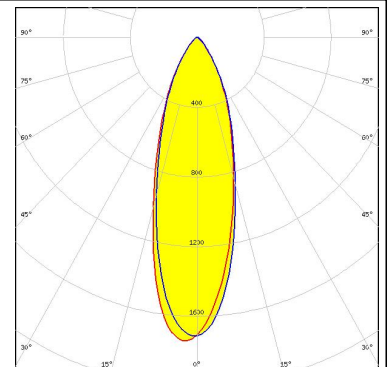
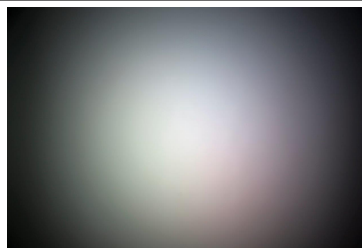
**LUMILEDS**

LED LUXEON MZ  
FWHM 27.0°  
Efficiency 84 %  
Peak intensity 2.400 cd/lm  
Required components:  
C12479\_MIRELLA-DL



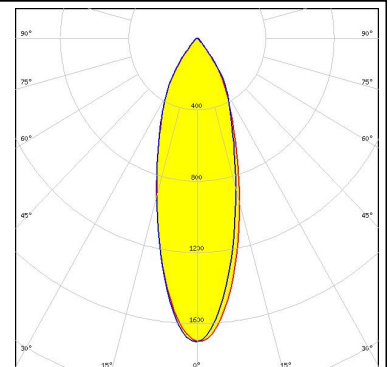
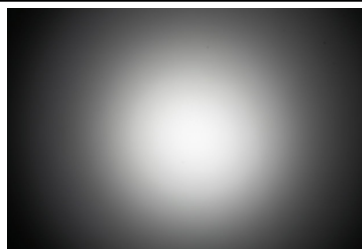
**LUMILEDS**

LED LUXEON Z RGB  
FWHM 31.0°  
Efficiency 83 %  
Peak intensity 1.700 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



**NICHIA**

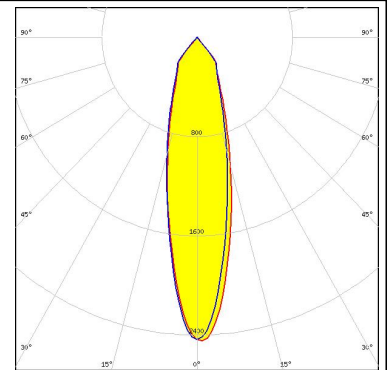
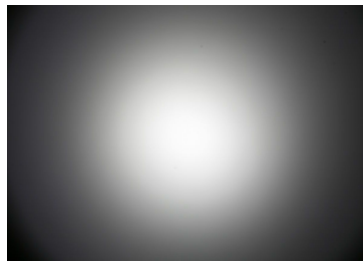
LED NS9x383  
FWHM 32.0°  
Efficiency 83 %  
Peak intensity 1.700 cd/lm  
Required components:  
C12479\_MIRELLA-DL



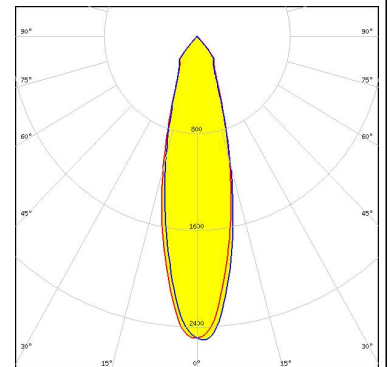
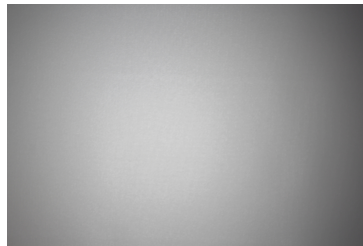
#### PHOTOMETRIC DATA (MEASURED):



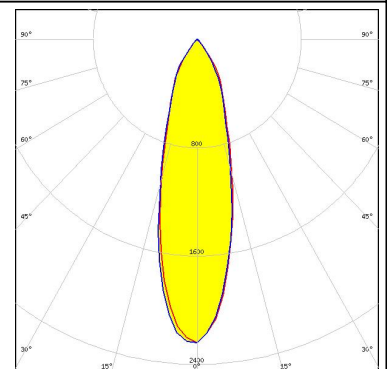
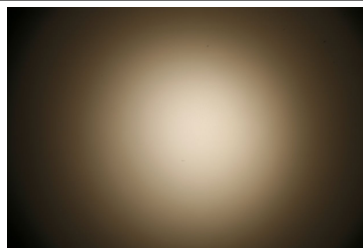
LED NS9x383  
 FWHM 24.0°  
 Efficiency 88 %  
 Peak intensity 2.450 cd/lm  
 Required components:



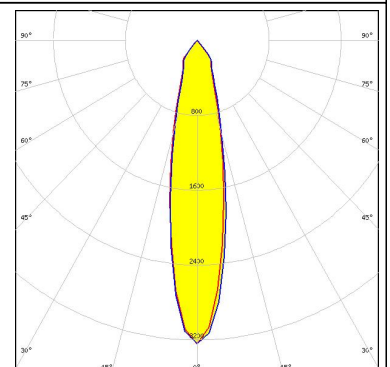
LED NV4x144A  
 FWHM 27.0°  
 Efficiency 89 %  
 Peak intensity 2.500 cd/lm  
 Required components:



LED Duris S8  
 FWHM 28.0°  
 Efficiency 84 %  
 Peak intensity 2.200 cd/lm  
 Required components:  
 C12479\_MIRELLA-DL



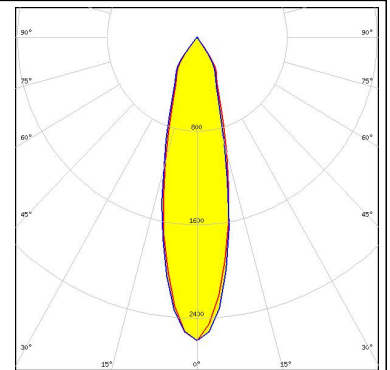
LED Duris S8  
 FWHM 22.0°  
 Efficiency 88 %  
 Peak intensity 3.200 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

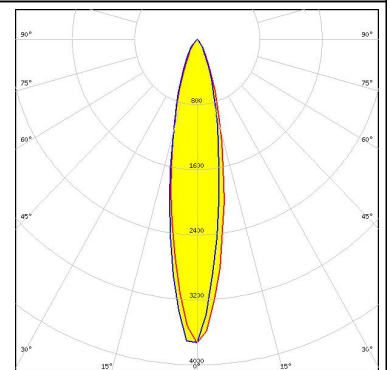
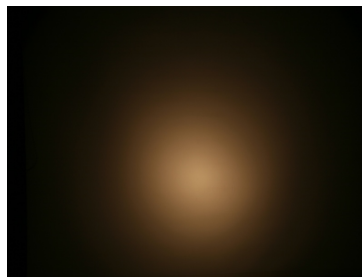
**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM 26.0°  
Efficiency 84 %  
Peak intensity 2.600 cd/lm  
Required components:  
C13333\_MIRELLA-CL



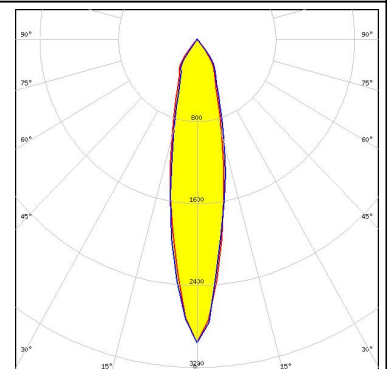
**OSRAM**  
Opto Semiconductors

LED Oslon Square EC  
FWHM 22.0°  
Efficiency 84 %  
Peak intensity 3.400 cd/lm  
Required components:



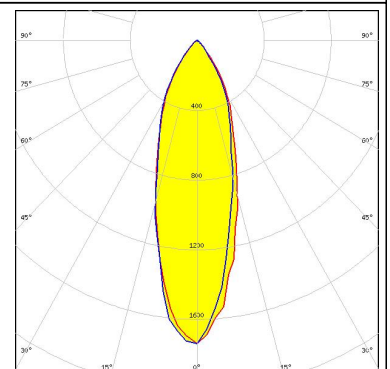
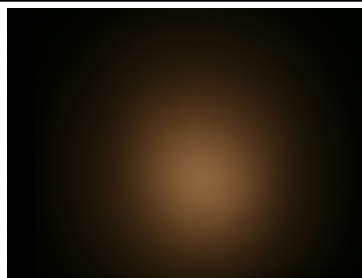
**OSRAM**  
Opto Semiconductors

LED Oslon Square EC  
FWHM 22.0°  
Efficiency 83 %  
Peak intensity 3.000 cd/lm  
Required components:  
C13333\_MIRELLA-CL



**OSRAM**  
Opto Semiconductors

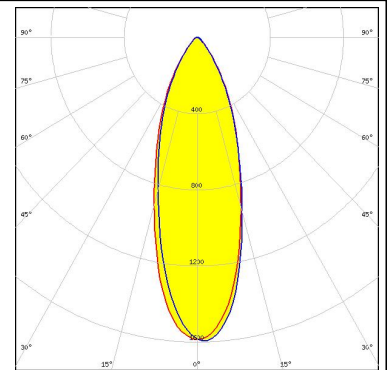
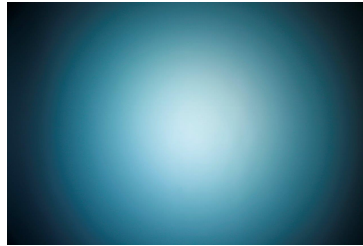
LED Oslon Square EC  
FWHM 32.0°  
Efficiency 79 %  
Peak intensity 1.700 cd/lm  
Required components:  
C12479\_MIRELLA-DL



**PHOTOMETRIC DATA (MEASURED):**

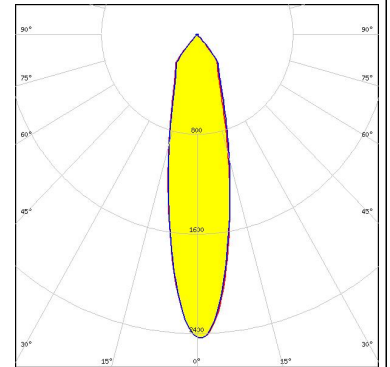
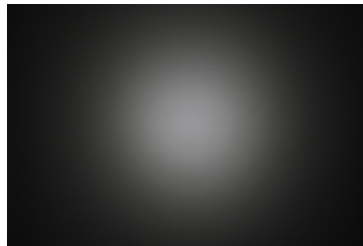
**OSRAM**  
Opto Semiconductors

LED Ostar-SMT RGB  
FWHM 34.0°  
Efficiency 83 %  
Peak intensity 1.600 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



**SAMSUNG**

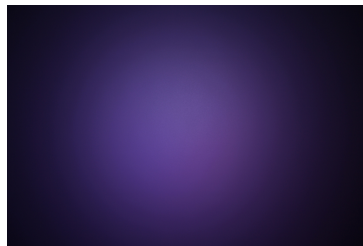
LED LH508A  
FWHM 24.0°  
Efficiency 88 %  
Peak intensity 2.400 cd/lm  
Required components:



**SEOL**

SEOUL SEMICONDUCTOR

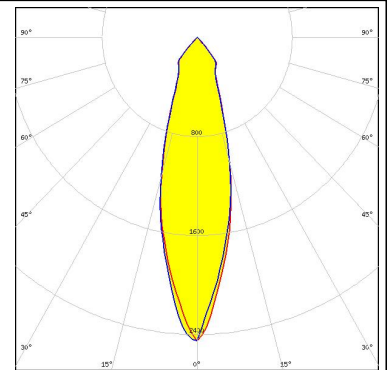
LED F50360 (RGB)  
FWHM 33.0°  
Efficiency 82 %  
Peak intensity 1.810 cd/lm  
Required components:  
C13723\_MIRELLA-RZL



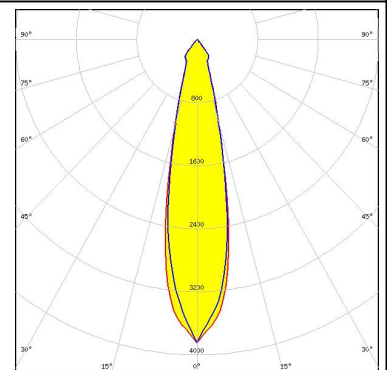
#### PHOTOMETRIC DATA (SIMULATED):



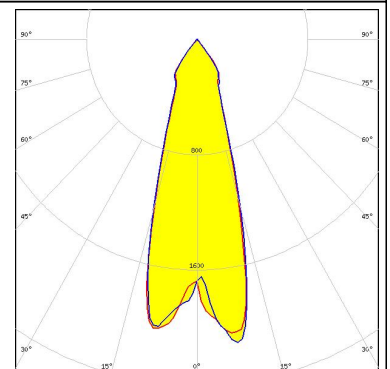
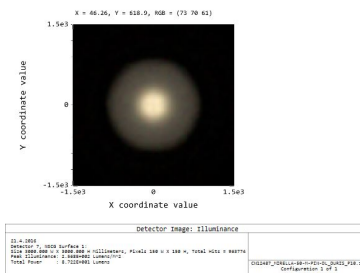
LED XHP35 HD  
 FWHM 28.0°  
 Efficiency 92 %  
 Peak intensity 2.500 cd/m  
 Required components:



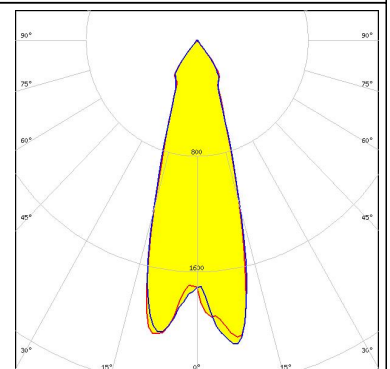
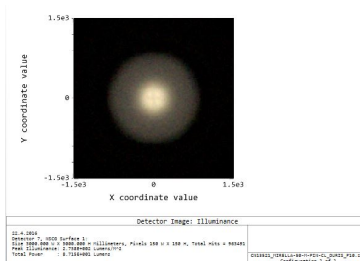
LED LUXEON 5258  
 FWHM 23.0°  
 Efficiency 91 %  
 Peak intensity 3.800 cd/m  
 Required components:



LED OSCONIQ P 7070  
 FWHM 31.0°  
 Efficiency 88 %  
 Peak intensity 2.360 cd/m  
 Required components:  
 C12479\_MIRELLA-DL



LED OSCONIQ P 7070  
 FWHM 29.0°  
 Efficiency 87 %  
 Peak intensity 2.310 cd/m  
 Required components:  
 C13333\_MIRELLA-CL

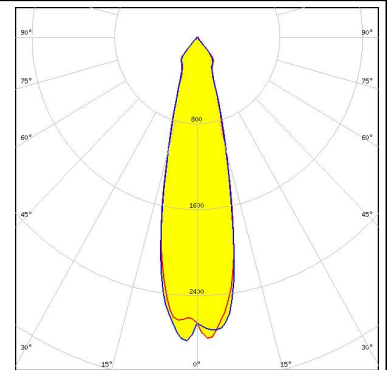
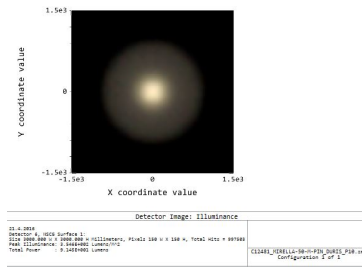




#### PHOTOMETRIC DATA (SIMULATED):

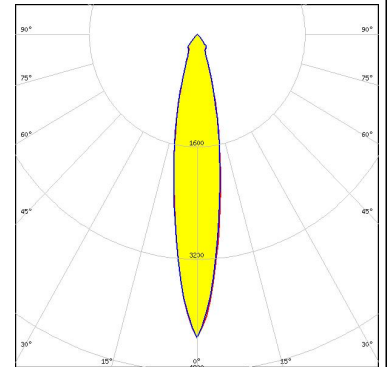
**OSRAM**  
Opto Semiconductors

LED                   OSCONIQ P 7070  
FWHM                26.0°  
Efficiency           91 %  
Peak intensity      2.890 cd/lm  
Required components:



**SEOL**  
SEOUL SEMICONDUCTOR

LED                   Z8Y22P  
FWHM                19.0°  
Efficiency           89 %  
Peak intensity      4.320 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.

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