

## LISA2-R-PIN

White mini reflector with ~80° wide beam. 6.5 mm high with location pin installation.

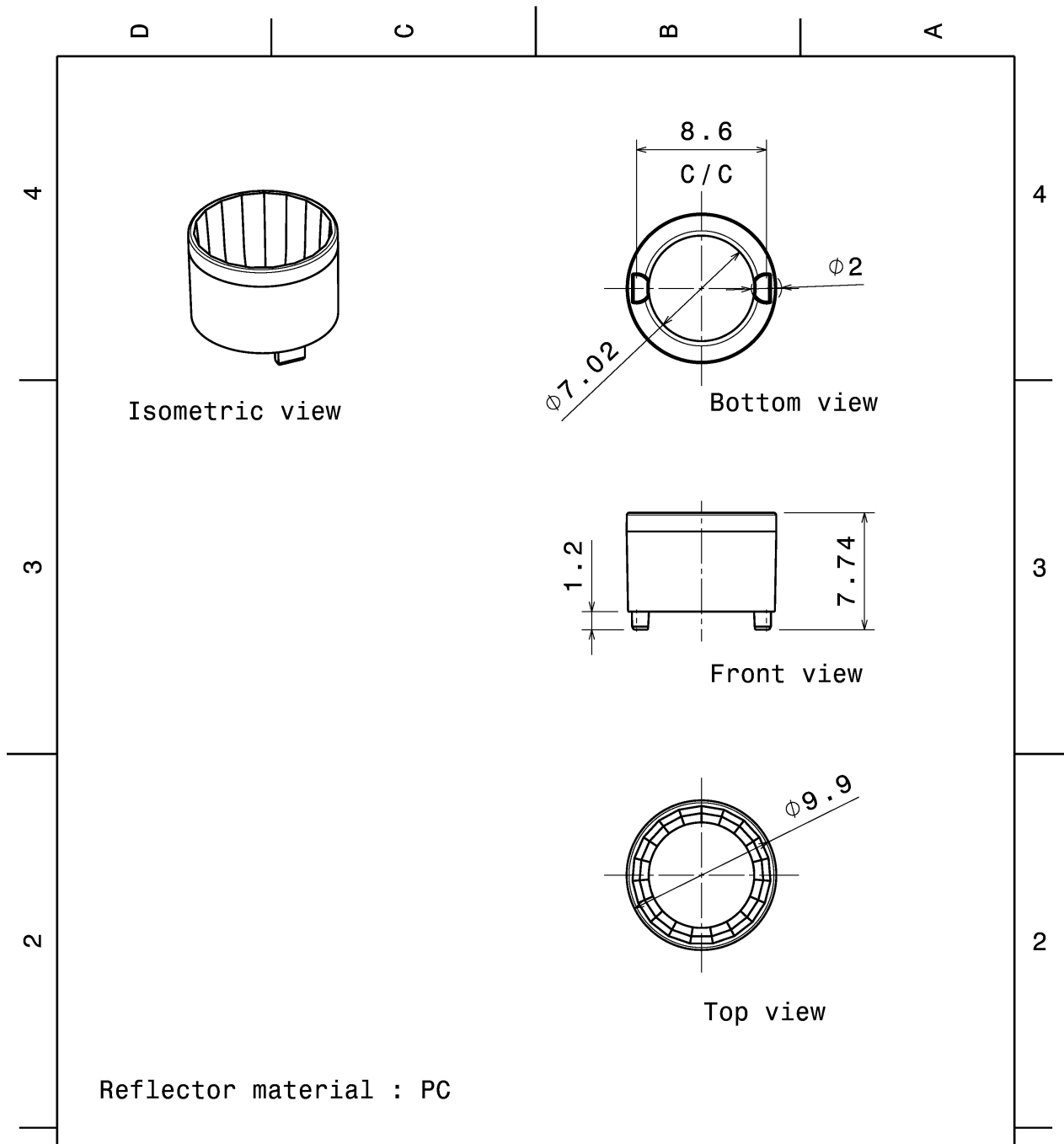
### TECHNICAL SPECIFICATIONS:

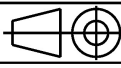
Dimensions	Ø 9.9 mm
Height	6.5 mm
Fastening	glue, pin
Colour	white
Box size	254 x 298 x 241 mm
Box weight	4.1 kg
Quantity in Box	10000 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Coating
LISA2-R-PIN	Reflector	HRPC	white	



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		<b>LEDiL</b>		Ledil Oy Salorankatu 10 FIN 24240 SALO Finland	
THIRD ANGLE PROJECTION: 		<b>DRAWING TITLE</b> Datasheet_Lisa2-reflector			
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> A4		<b>PART NUMBER</b> -	
		<b>SCALE</b> 3:1	<b>WEIGHT</b> -	<b>SHEET</b> 1/1	

### PHOTOMETRIC DATA (MEASURED):

#### CREE

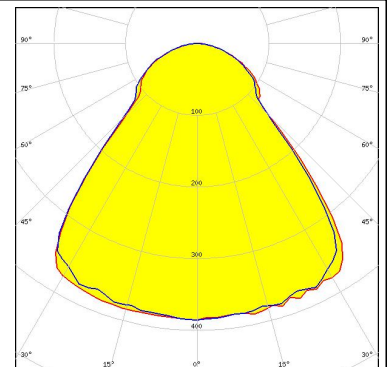
LED XB-D  
FWHM 81.0°  
Efficiency 87 %  
Peak intensity 0.380 cd/lm  
Required components:

#### CREE

LED XP-E  
FWHM 82.0°  
Efficiency 86 %  
Peak intensity 0.350 cd/lm  
Required components:

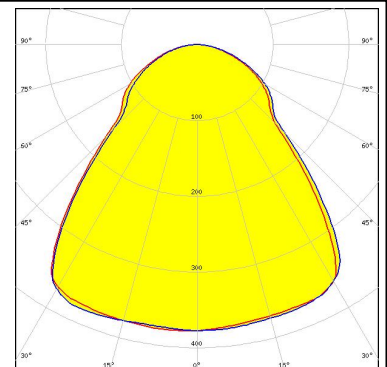
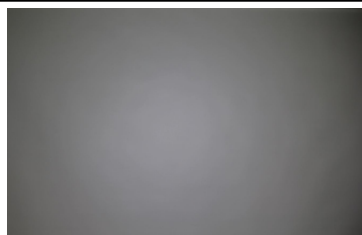
#### CREE

LED XP-G  
FWHM 86.0°  
Efficiency 89 %  
Peak intensity 0.330 cd/lm  
Required components:



#### CREE

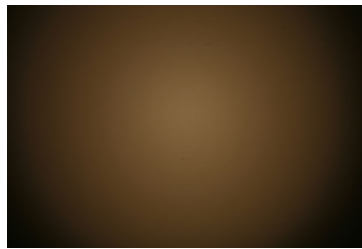
LED XP-G3  
FWHM 86.0°  
Efficiency 88 %  
Peak intensity 0.380 cd/lm  
Required components:



### PHOTOMETRIC DATA (MEASURED):



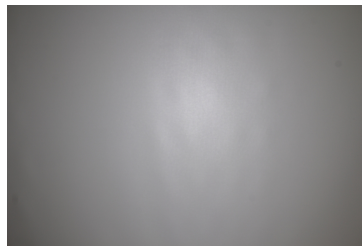
LED XT-E  
FWHM 80.0°  
Efficiency 85 %  
Peak intensity 0.460 cd/lm  
Required components:



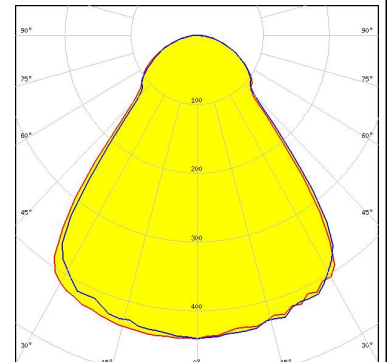
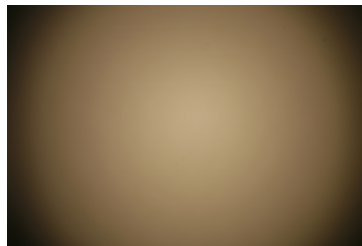
LED LUXEON A  
FWHM 83.0°  
Efficiency 88 %  
Peak intensity 0.370 cd/lm  
Required components:



LED LUXEON C  
FWHM 84.0°  
Efficiency 83 %  
Peak intensity 0.380 cd/lm  
Required components:



LED LUXEON Rebel  
FWHM 77.0°  
Efficiency 88 %  
Peak intensity 0.410 cd/lm  
Required components:



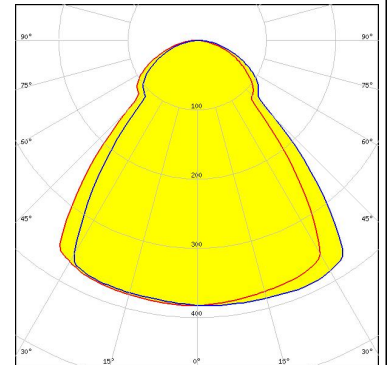
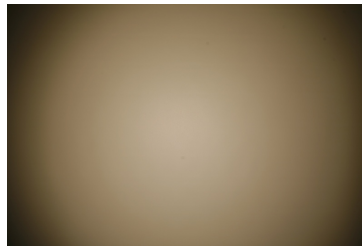
### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

LED LUXEON Rebel ES  
FWHM 83.0°  
Efficiency 90 %  
Peak intensity 0.360 cd/lm  
Required components:

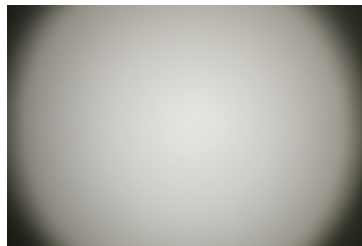
#### LUMILEDS

LED LUXEON T  
FWHM 82.0°  
Efficiency 82 %  
Peak intensity 0.400 cd/lm  
Required components:



#### LUMILEDS

LED LUXEON Z  
FWHM 78.0°  
Efficiency 86 %  
Peak intensity 0.440 cd/lm  
Required components:



#### NICHIA

LED NCSxx19A  
FWHM 78.0°  
Efficiency 84 %  
Peak intensity 0.460 cd/lm  
Required components:

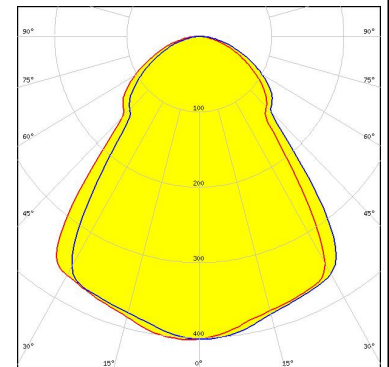
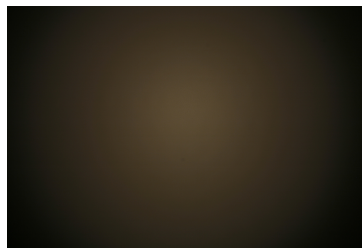
### PHOTOMETRIC DATA (MEASURED):



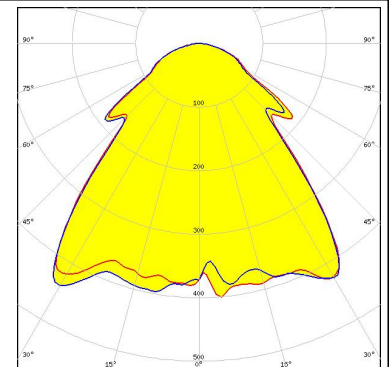
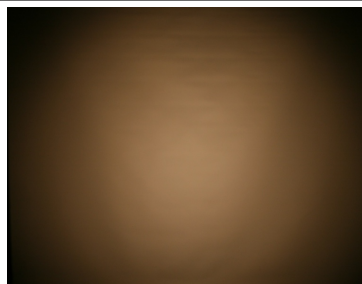
LED NVSxx19A  
FWHM 80.0°  
Efficiency 84 %  
Peak intensity 0.400 cd/lm  
Required components:



LED OSCONIQ P 2226  
FWHM 78.0°  
Efficiency 83 %  
Peak intensity 0.400 cd/lm  
Required components:



LED Oslon Square EC  
FWHM 82.0°  
Efficiency 85 %  
Peak intensity 0.370 cd/lm  
Required components:

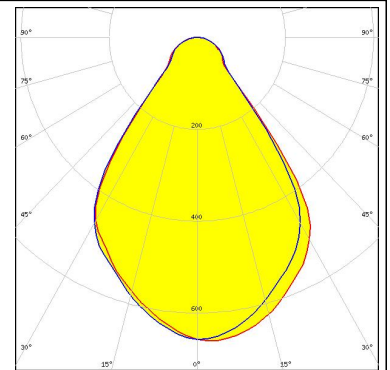


LED Oslon SSL 150  
FWHM 83.0°  
Efficiency 91 %  
Peak intensity 0.300 cd/lm  
Required components:

**PHOTOMETRIC DATA (MEASURED):**

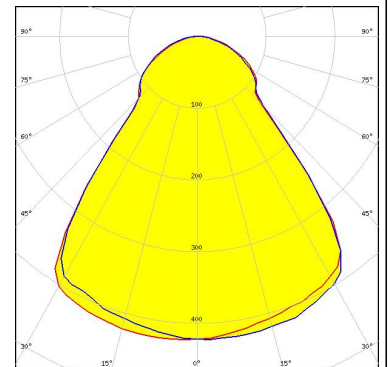
**OSRAM**  
Opto Semiconductors

LED Oslon SSL 80  
FWHM 76.0°  
Efficiency 92 %  
Peak intensity 0.500 cd/lm  
Required components:



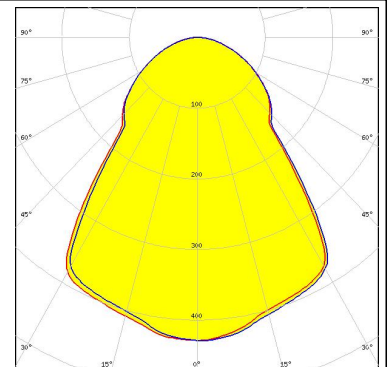
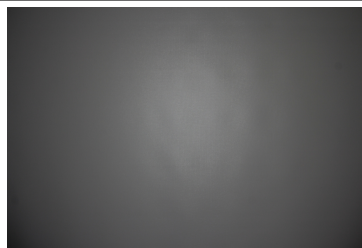
**SEOL**  
SEOUL SEMICONDUCTOR

LED Z5  
FWHM 80.0°  
Efficiency 84 %  
Peak intensity 0.360 cd/lm  
Required components:



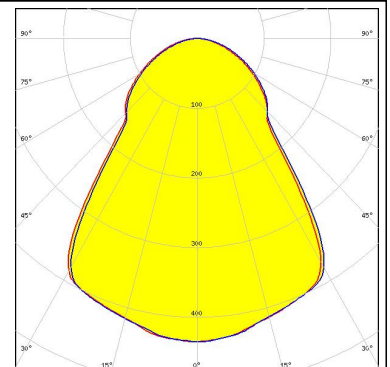
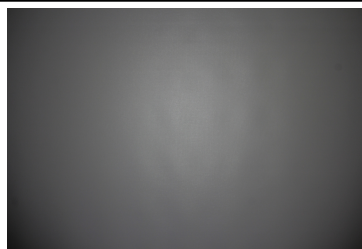
**SEOL**  
SEOUL SEMICONDUCTOR

LED Z8Y15  
FWHM 76.0°  
Efficiency 87 %  
Peak intensity 0.430 cd/lm  
Required components:



**SEOL**  
SEOUL SEMICONDUCTOR

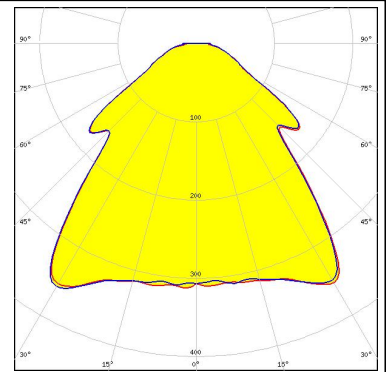
LED Z8Y19  
FWHM 76.0°  
Efficiency 86 %  
Peak intensity 0.435 cd/lm  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

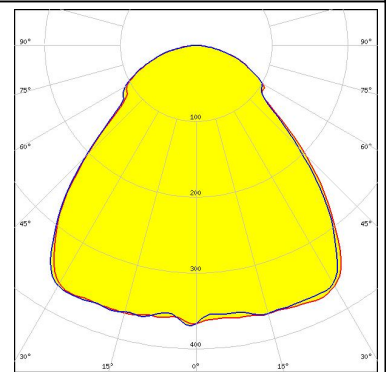
**CREE** 

LED XD16  
FWHM 82.0°  
Efficiency 83 %  
Peak intensity 0.360 cd/lm  
Required components:



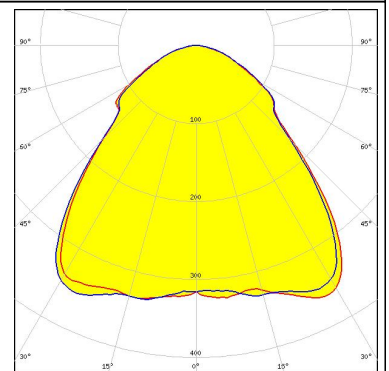
**CREE** 

LED XHP35 HD  
FWHM 91.0°  
Efficiency 92 %  
Peak intensity 0.370 cd/lm  
Required components:



**CREE** 

LED XP-L  
FWHM 81.0°  
Efficiency 83 %  
Peak intensity 0.360 cd/lm  
Required components:



**CREE** 

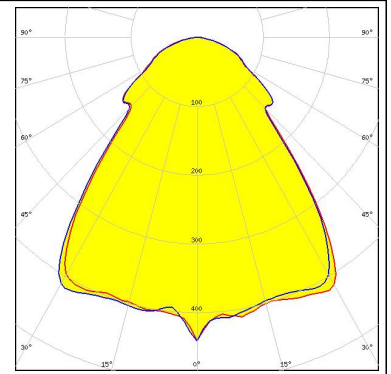
LED XQ-E  
FWHM 76.0°  
Efficiency 90 %  
Peak intensity 0.450 cd/lm  
Required components:



## PHOTOMETRIC DATA (SIMULATED):



LED LUXEON H50-2  
FWHM 80.0°  
Efficiency 90 %  
Peak intensity 0.440 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:

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