

## LISA2-M-PIN

~20° medium beam. 6.8 mm high variant with location pin installation.

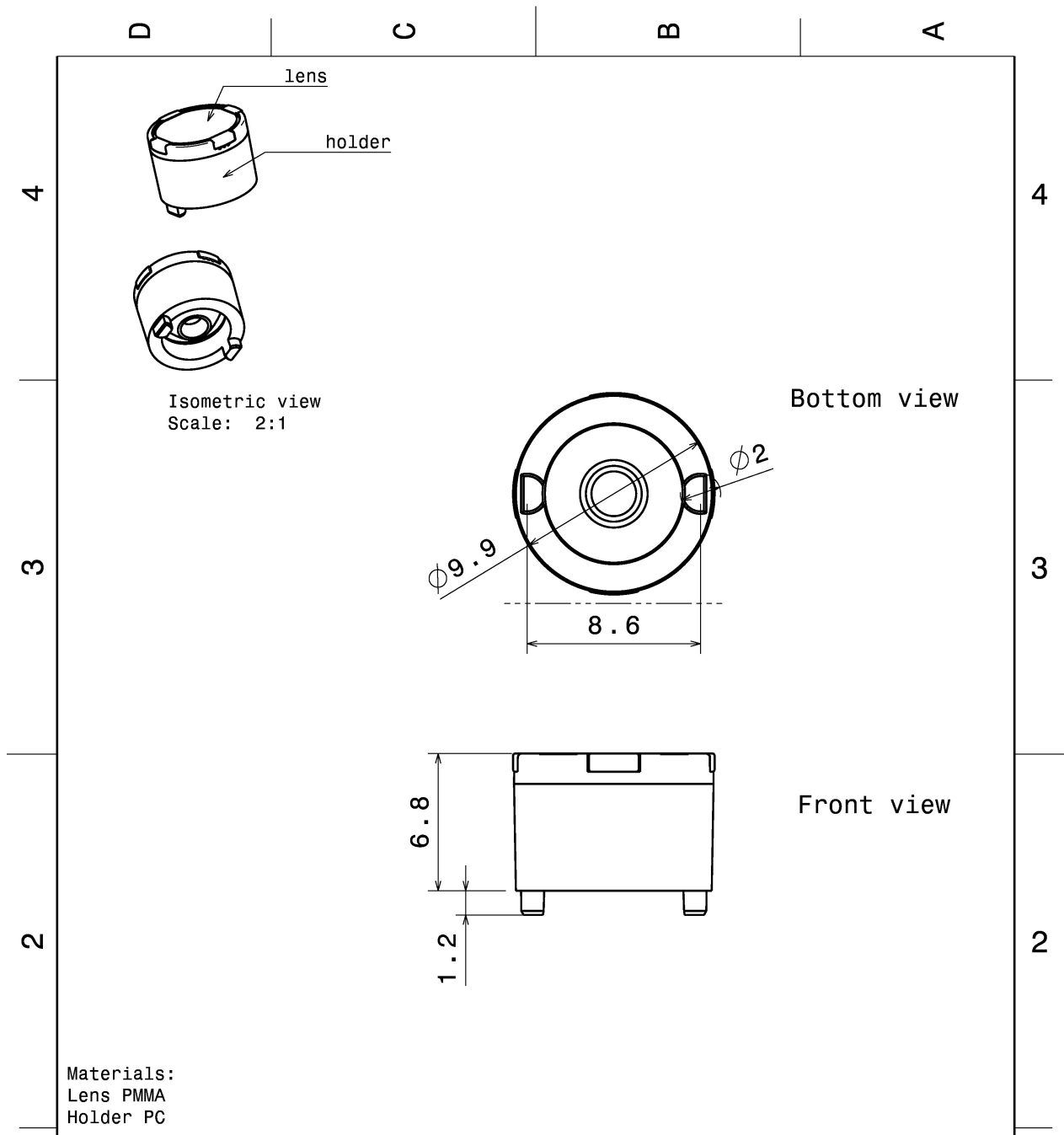
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-M	Lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

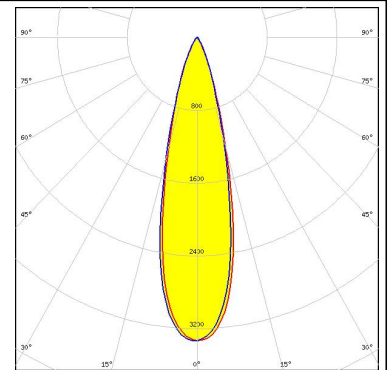


This drawing is our property. It can't be reproduced or communicated without our written agreement.				LediL Oy Salorankatu 10 FIN-24240 SALO Finland	
DRAWN BY pl		DATE 20.06.2012		DRAWING TITLE Datasheet Lisa2-Pin-XT Series Assy	
CHECKED BY	DATE	SIZE A4	DRAWING NUMBER		REV 1
DESIGNED BY pl	DATE 20.06.2012	SCALE 4:1	WEIGHT (g)	SHEET 1/1	

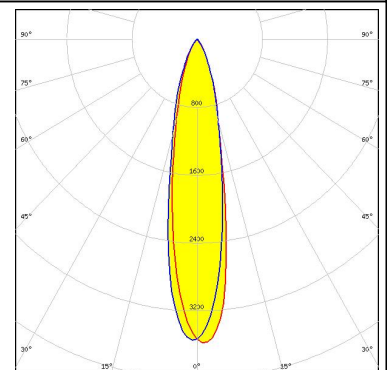
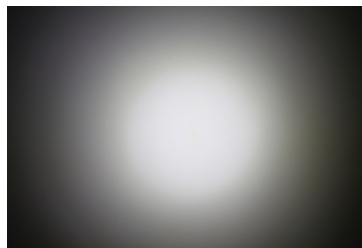
#### PHOTOMETRIC DATA (MEASURED):



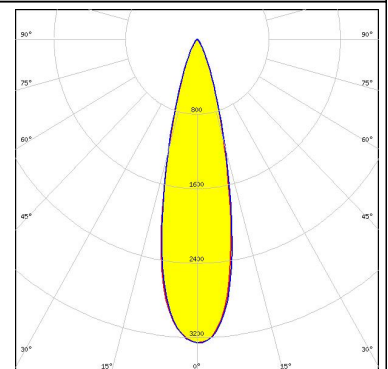
LED XP-G2  
 FWHM 25.0°  
 Efficiency 89 %  
 Peak intensity 3.500 cd/lm  
 Required components:



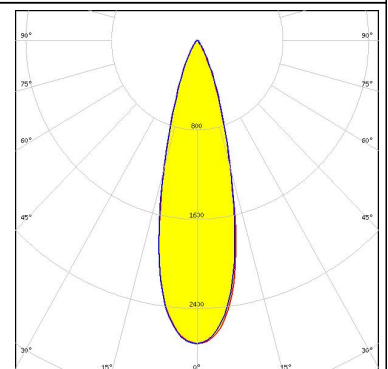
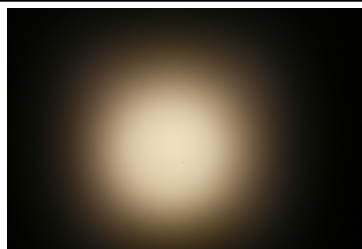
LED XP-G3  
 FWHM 21.0°  
 Efficiency 84 %  
 Peak intensity 3.600 cd/lm  
 Required components:



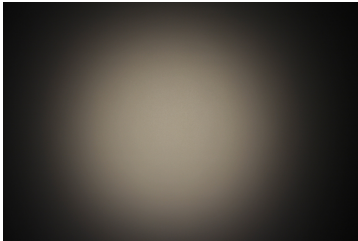
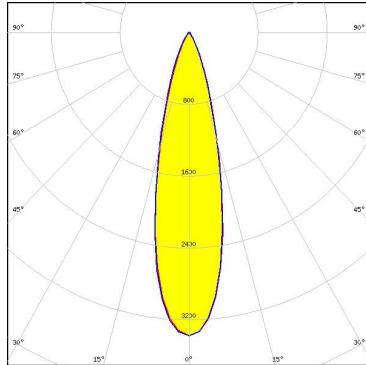
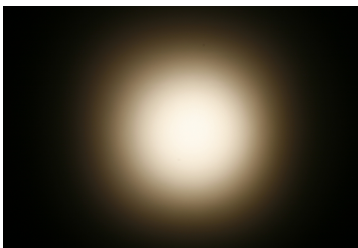
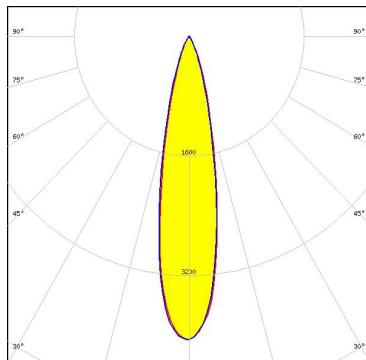

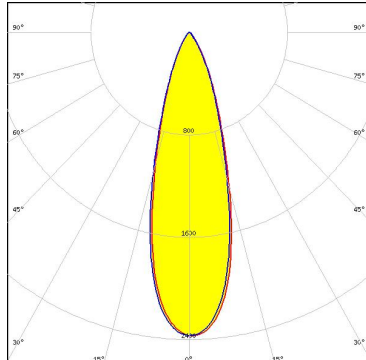
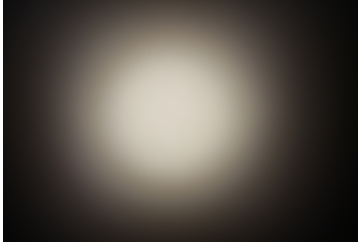
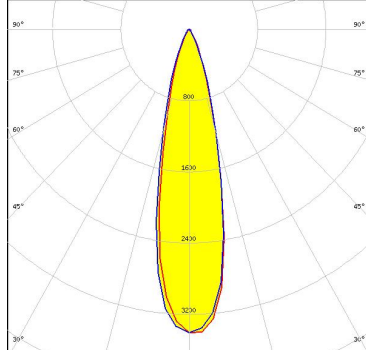
LED XT-E  
 FWHM 26.0°  
 Efficiency 89 %  
 Peak intensity 3.260 cd/lm  
 Required components:



LED LUXEON T  
 FWHM 28.0°  
 Efficiency 87 %  
 Peak intensity 2.700 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON TX            FWHM 26.0°            Efficiency 88 %            Peak intensity 3.380 cd/lm            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM 23.0°            Efficiency 85 %            Peak intensity 4.100 cd/lm            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM 30.0°            Efficiency 86 %            Peak intensity 2.400 cd/lm            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Oslon Square EC            FWHM 26.0°            Efficiency 84 %            Peak intensity 3.400 cd/lm            Required components:</p>		

### PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

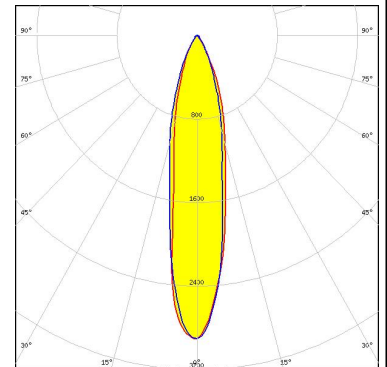
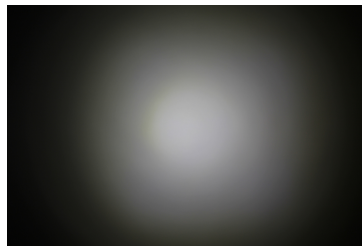
LED SFH 4715S  
FWHM 22.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:

**OSRAM**  
Opto Semiconductors

LED SFH 4725S  
FWHM 23.0°  
Efficiency 0 %  
Peak intensity 0.000 cd/lm  
Required components:

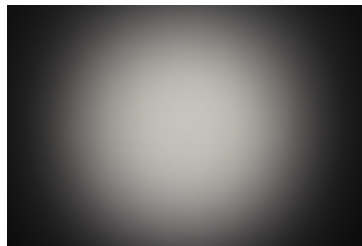
**SAMSUNG**

LED LH181B  
FWHM 20.0°  
Efficiency 78 %  
Peak intensity 2.900 cd/lm  
Required components:



**SAMSUNG**

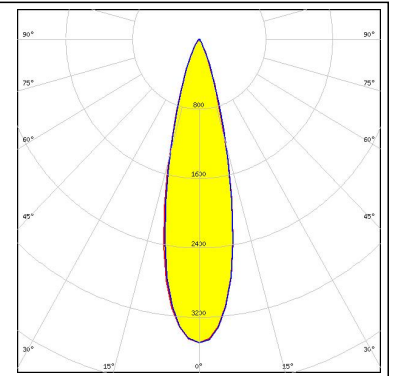
LED LH351B  
FWHM 31.0°  
Efficiency 87 %  
Peak intensity 2.600 cd/lm  
Required components:



## PHOTOMETRIC DATA (MEASURED):

### SAMSUNG

LED LH351Z  
FWHM 26.0°  
Efficiency 87 %  
Peak intensity 3.500 cd/lm  
Required components:



**PHOTOMETRIC DATA (SIMULATED):**

**LUMILEDS**

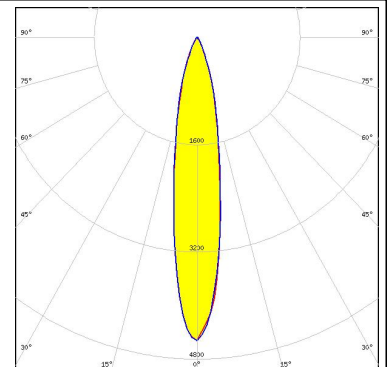
LED LUXEON IR Compact  
 FWHM 14.0°  
 Efficiency 82 %  
 Peak intensity 0.000 cd/lm  
 Required components:

**LUMILEDS**

LED LUXEON IR Domed 150  
 FWHM 20.0°  
 Efficiency 88 %  
 Peak intensity 0.000 cd/lm  
 Required components:

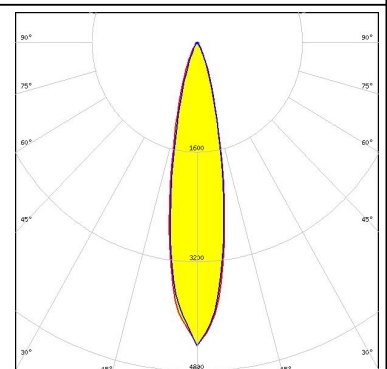
**NICHIA**

LED NVSxE21A  
 FWHM 18.0°  
 Efficiency 85 %  
 Peak intensity 4.530 cd/lm  
 Required components:

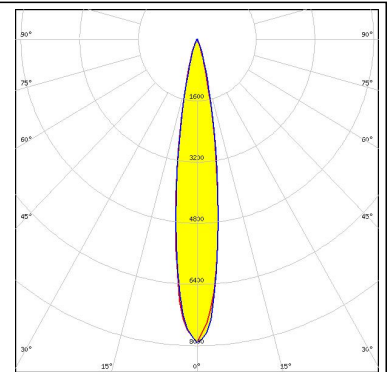
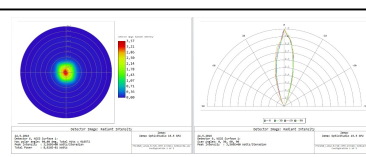
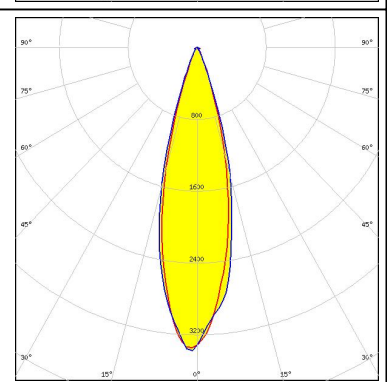
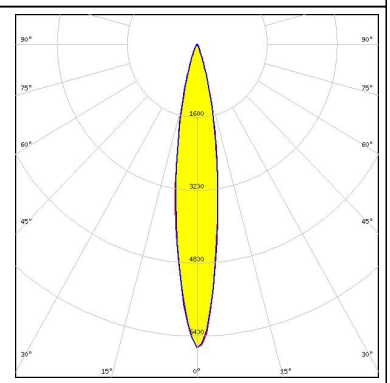
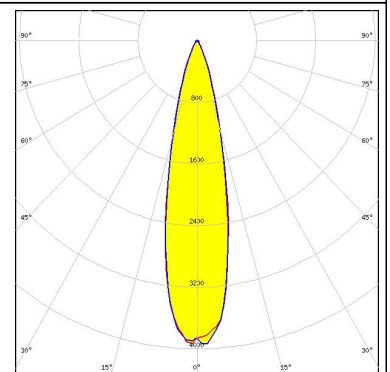


**OSRAM**  
Opto Semiconductors

LED Oslon Square Gen3  
 FWHM 21.0°  
 Efficiency 91 %  
 Peak intensity 4.430 cd/lm  
 Required components:

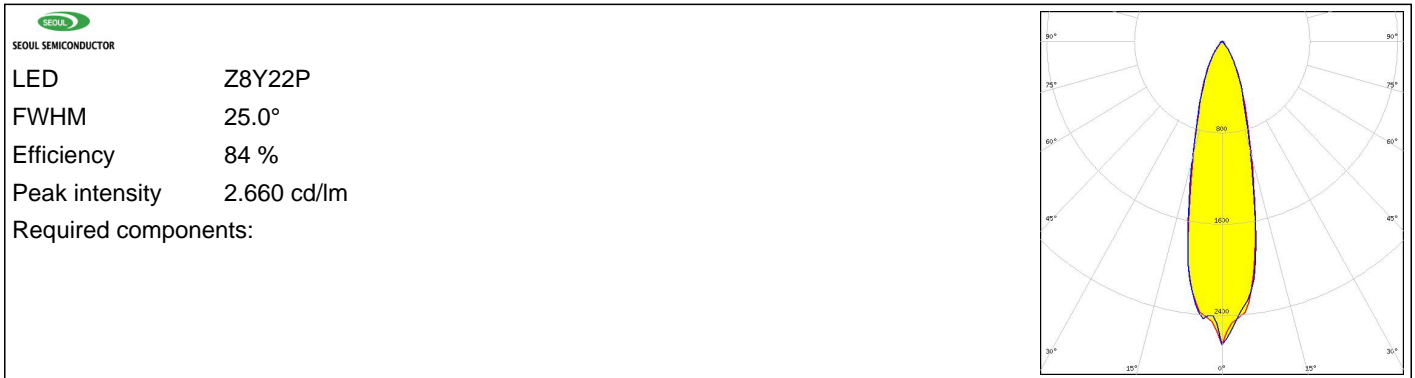


#### PHOTOMETRIC DATA (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED                    Oslon SSL 150</p> <p>FWHM                16.0°</p> <p>Efficiency            91 %</p> <p>Peak intensity      7.900 cd/lm</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED                    SFH 4715AS</p> <p>FWHM                26.0°</p> <p>Efficiency            89 %</p> <p>Peak intensity      cd/lm</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED                    SFH 4716AS</p> <p>FWHM                16.0°</p> <p>Efficiency            89 %</p> <p>Peak intensity      0.000 cd/lm</p> <p>Required components:</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED                    Z5M1/Z5M2</p> <p>FWHM                23.0°</p> <p>Efficiency            91 %</p> <p>Peak intensity      3.990 cd/lm</p> <p>Required components:</p>		



## 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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