

## LISA2-W-PIN

~35° wide beam. 6.8 mm high variant with location pin installation.

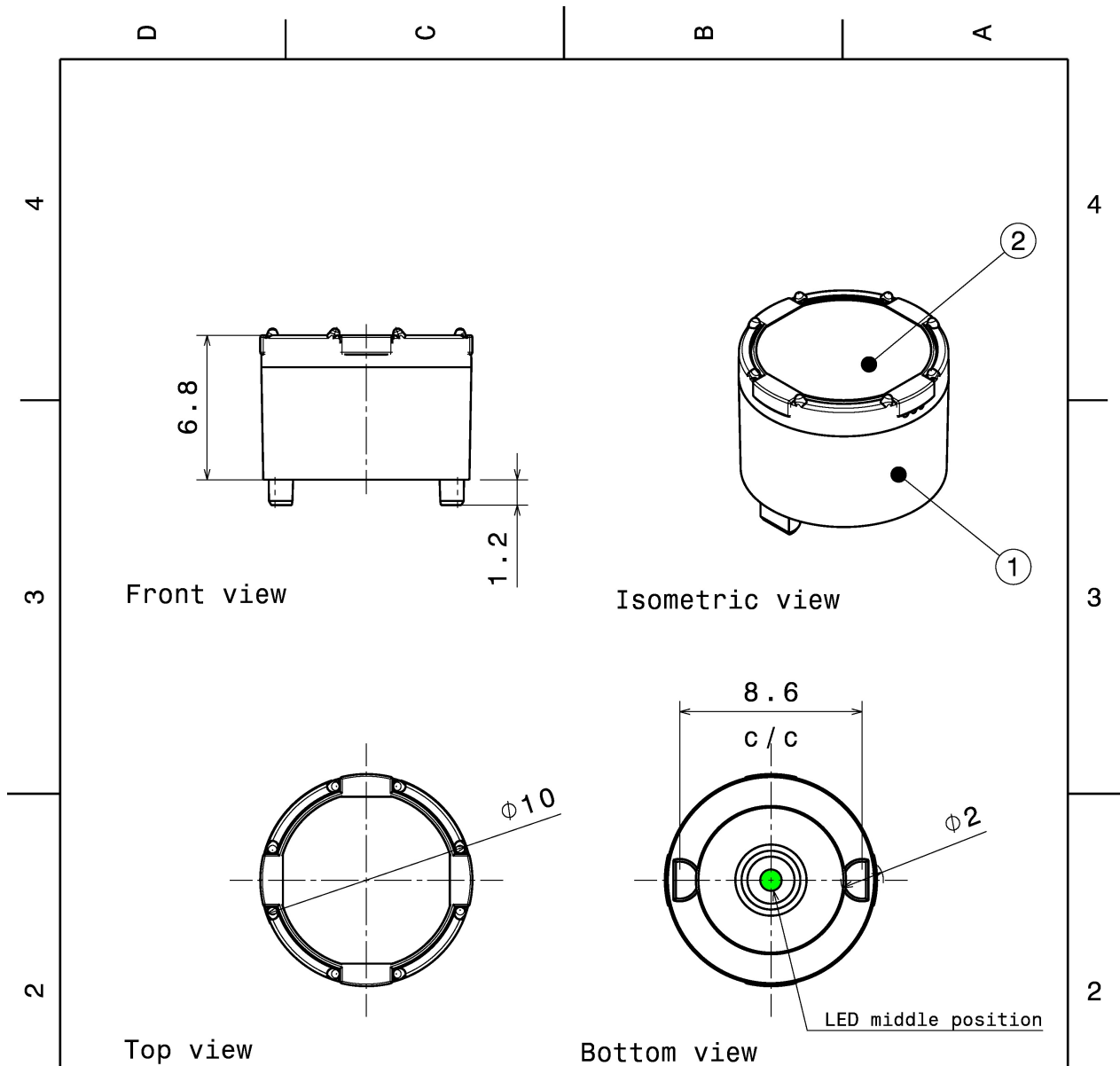
### TECHNICAL SPECIFICATIONS:

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-W	Single lens	PMMA	
LISA2-HLD-PIN	Holder	PC	



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F10989	LISA2-HLD-PIN	PC	black
2	-	LISA2_lens	PMMA	

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**

Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

Lisa2-PIN-XP assembly

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SIZE PART NUMBER

A4

-

SCALE

4:1

WEIGHT

0,5 g

SHEET

1/1

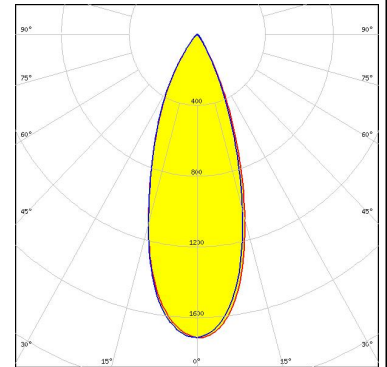
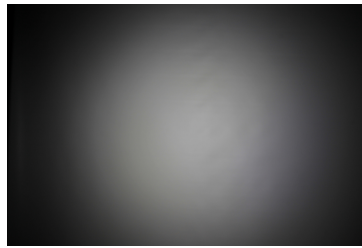
**PHOTOMETRIC DATA (MEASURED):**

**CREE** ⇄

LED XB-D  
FWHM 32.0°  
Efficiency 86 %  
Peak intensity 1.930 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

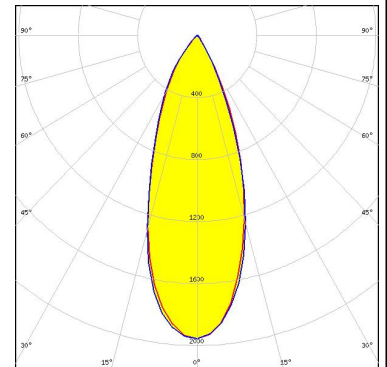
**CREE** ⇄

LED XD16  
FWHM 37.0°  
Efficiency 77 %  
Peak intensity 1.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**CREE** ⇄

LED XP-E  
FWHM 37.0°  
Efficiency 90 %  
Peak intensity 1.960 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**CREE** ⇄

LED XP-G  
FWHM 48.0°  
Efficiency 92 %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

### PHOTOMETRIC DATA (MEASURED):

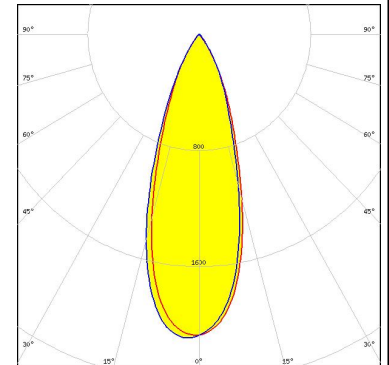
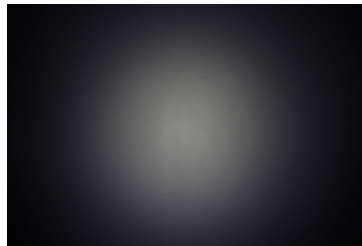
#### LUMILEDS

LED LUXEON A  
FWHM 46.0°  
Efficiency 88 %  
Peak intensity 1.200 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### LUMILEDS

LED LUXEON C  
FWHM 34.0°  
Efficiency 88 %  
Peak intensity 2.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

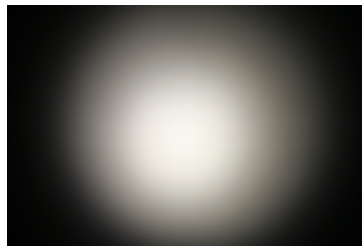


#### LUMILEDS

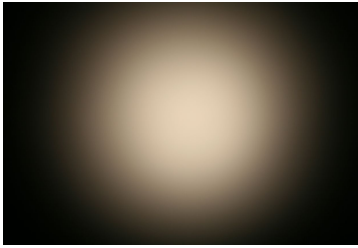
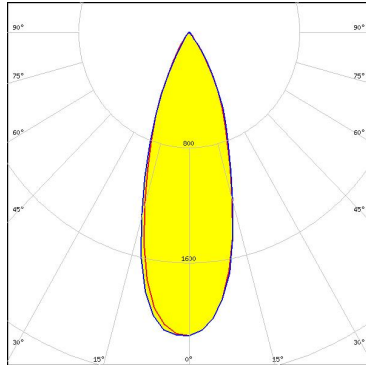
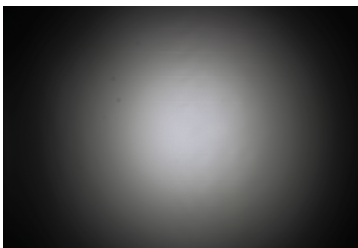
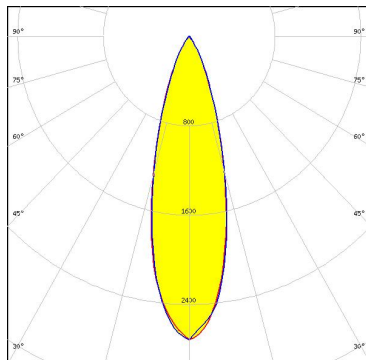

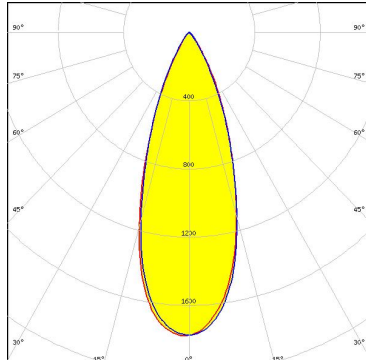
LED LUXEON Rebel ES  
FWHM 46.0°  
Efficiency 93 %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### LUMILEDS

LED LUXEON Z  
FWHM 27.0°  
Efficiency 87 %  
Peak intensity 2.860 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES            FWHM 35.0°            Efficiency 87 %            Peak intensity 2.100 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxE17A            FWHM 29.0°            Efficiency 80 %            Peak intensity 2.400 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH181B            FWHM 36.0°            Efficiency 80 %            Peak intensity 1.800 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SHARP</b></p> <p>LED Double Dome (GM2BB)            FWHM 44.0°            Efficiency 88 %            Peak intensity cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

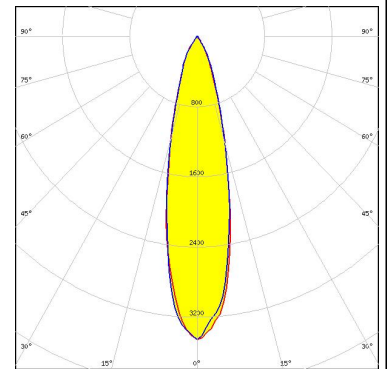
### PHOTOMETRIC DATA (SIMULATED):



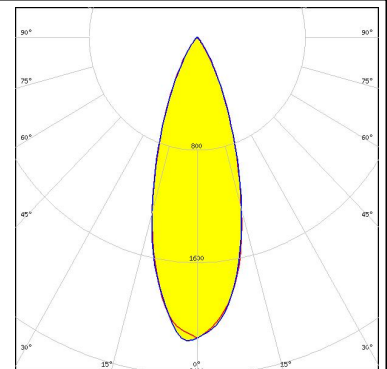
LED XQ-E HD  
FWHM 49.0°  
Efficiency 90 %  
Peak intensity 1.250 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XQ-E HI  
FWHM 23.0°  
Efficiency 89 %  
Peak intensity 3.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSxE21A  
FWHM 34.0°  
Efficiency 87 %  
Peak intensity 2.160 cd/lm  
LEDs/each optic 1  
Light colour White  
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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