



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!



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## LISA2-RS-PIN

~19° spot beam. 6.8 mm high variant with location pin installation.

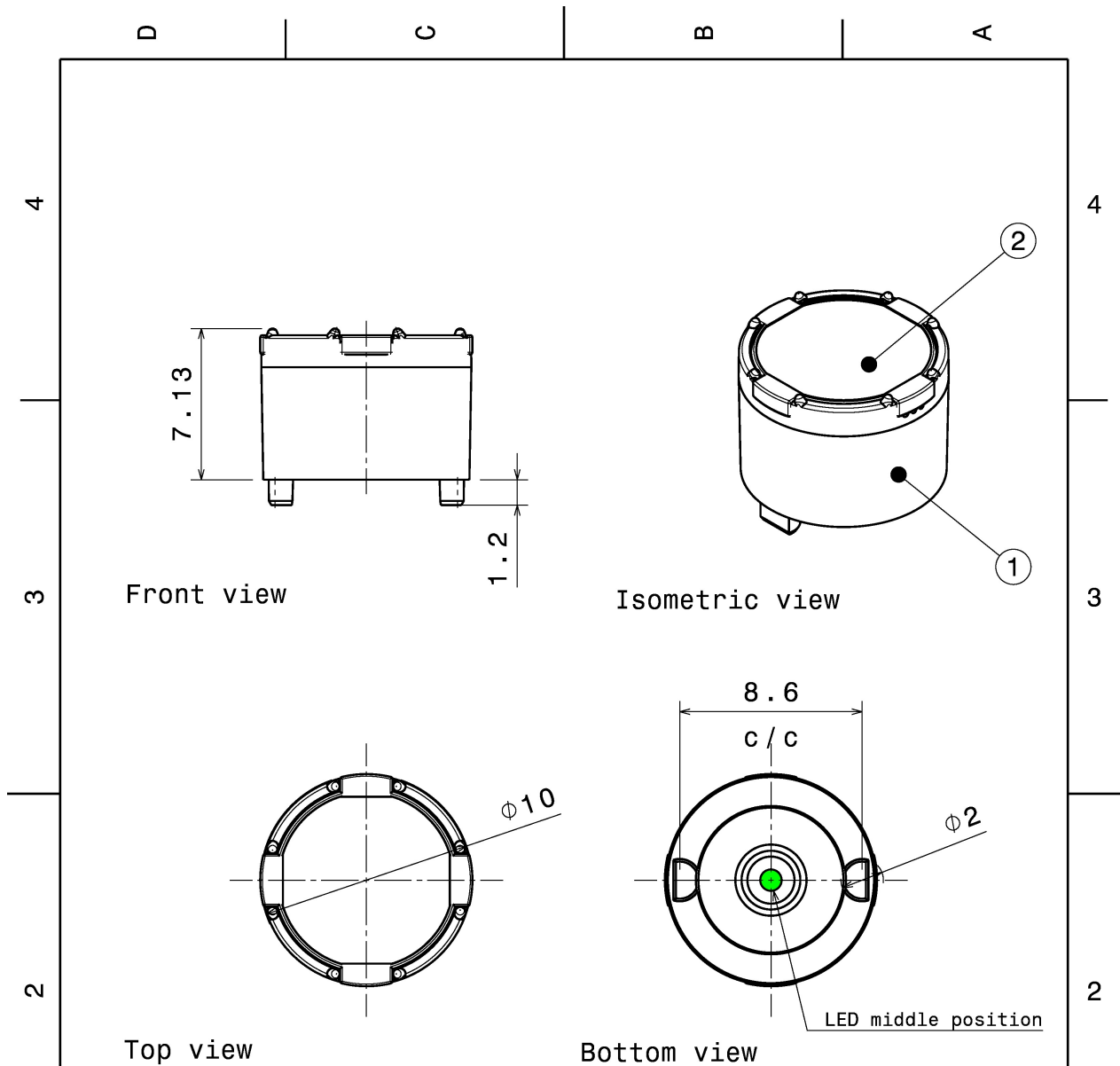
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	310 x 230 x 60 mm
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

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



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 Oy  
 Salorankatu 10  
 FIN 24240 SALO  
 Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**Lisa2-PIN-XP assembly**

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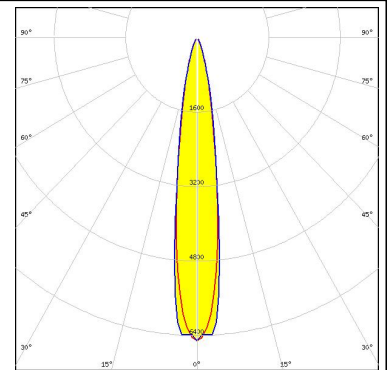
SIZE	PART NUMBER
A4	-

SCALE	4:1	WEIGHT	0,5 g	SHEET	1/1
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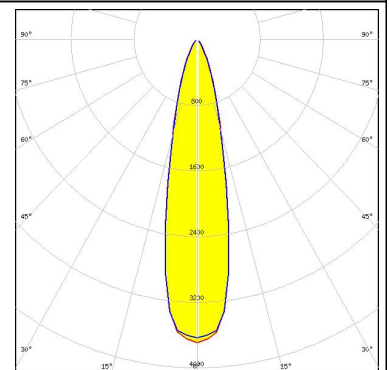
#### PHOTOMETRIC DATA (MEASURED):



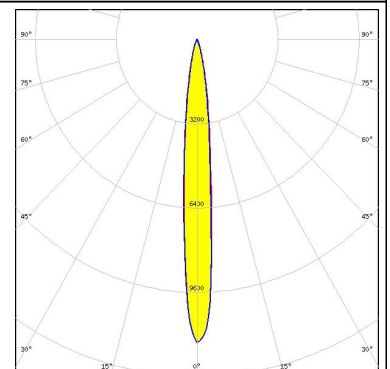
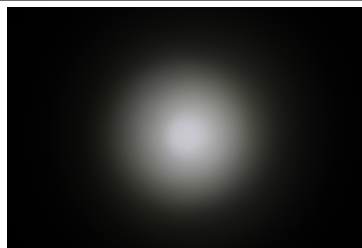
LED XP-E  
 FWHM 16.0°  
 Efficiency 90 %  
 Peak intensity 6.500 cd/lm  
 Required components:



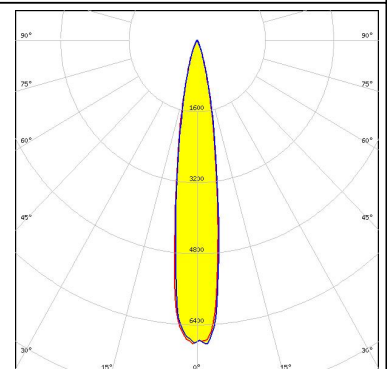
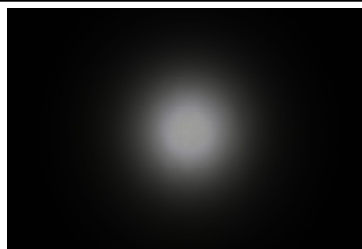
LED XP-G  
 FWHM 24.0°  
 Efficiency 90 %  
 Peak intensity cd/lm  
 Required components:



LED XQ-E HI  
 FWHM 11.0°  
 Efficiency 86 %  
 Peak intensity 11.500 cd/lm  
 Required components:



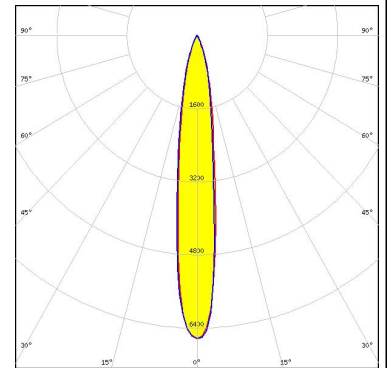
LED LUXEON C  
 FWHM 16.0°  
 Efficiency 87 %  
 Peak intensity 6.800 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

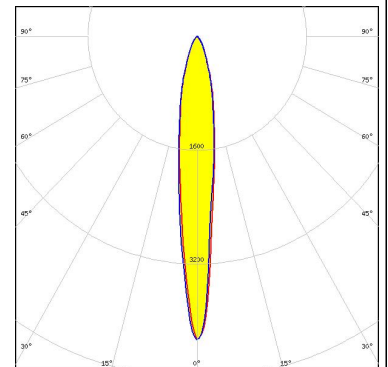
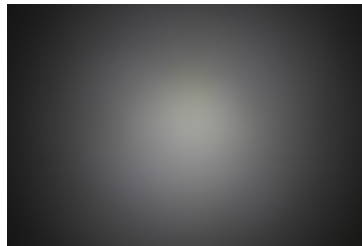
#### LUMILEDS

LED LUXEON Z ES  
FWHM 15.0°  
Efficiency 84 %  
Peak intensity 6.600 cd/lm  
Required components:



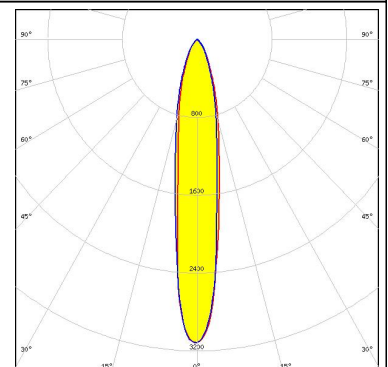
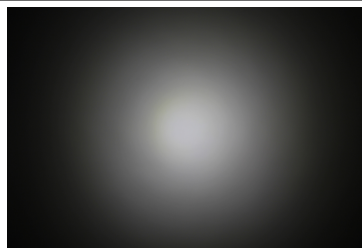
#### NICHIA

LED NCSxE17A  
FWHM 13.0°  
Efficiency 72 %  
Peak intensity 4.300 cd/lm  
Required components:



#### **SAMSUNG**

LED LH181B  
FWHM 16.0°  
Efficiency 71 %  
Peak intensity 3.100 cd/lm  
Required components:



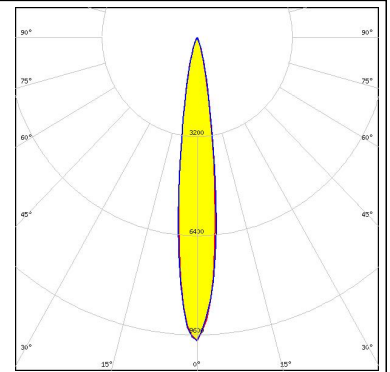
#### **SHARP**

LED Double Dome (GM2BB)  
FWHM 18.0°  
Efficiency 90 %  
Peak intensity cd/lm  
Required components:

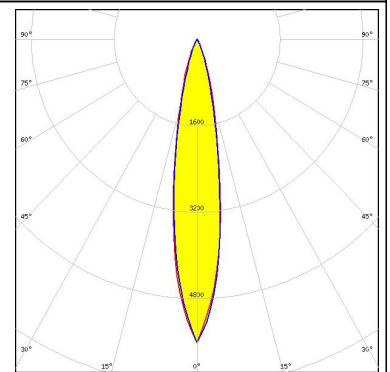
#### PHOTOMETRIC DATA (SIMULATED):



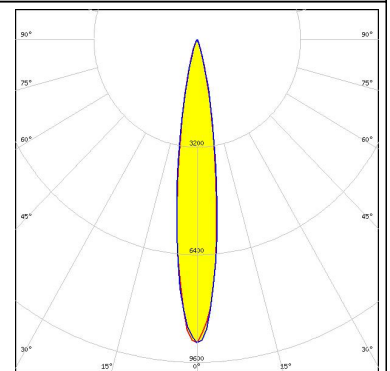
LED XQ-E  
 FWHM 14.5°  
 Efficiency 91 %  
 Peak intensity 10.100 cd/lm  
 Required components:



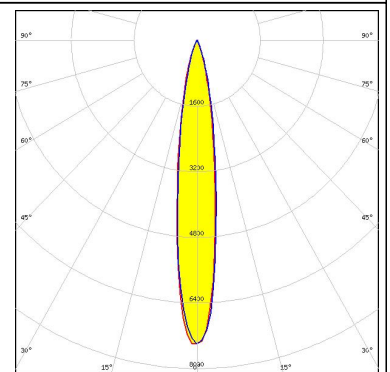
LED Oslon Square EC  
 FWHM 18.0°  
 Efficiency 90 %  
 Peak intensity 5.600 cd/lm  
 Required components:



LED Oslon SSL 150  
 FWHM 16.0°  
 Efficiency 92 %  
 Peak intensity 9.040 cd/lm  
 Required components:



LED Oslon SSL 80  
 FWHM 16.0°  
 Efficiency 90 %  
 Peak intensity 7.490 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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