



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



LISA2-M-PIN

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

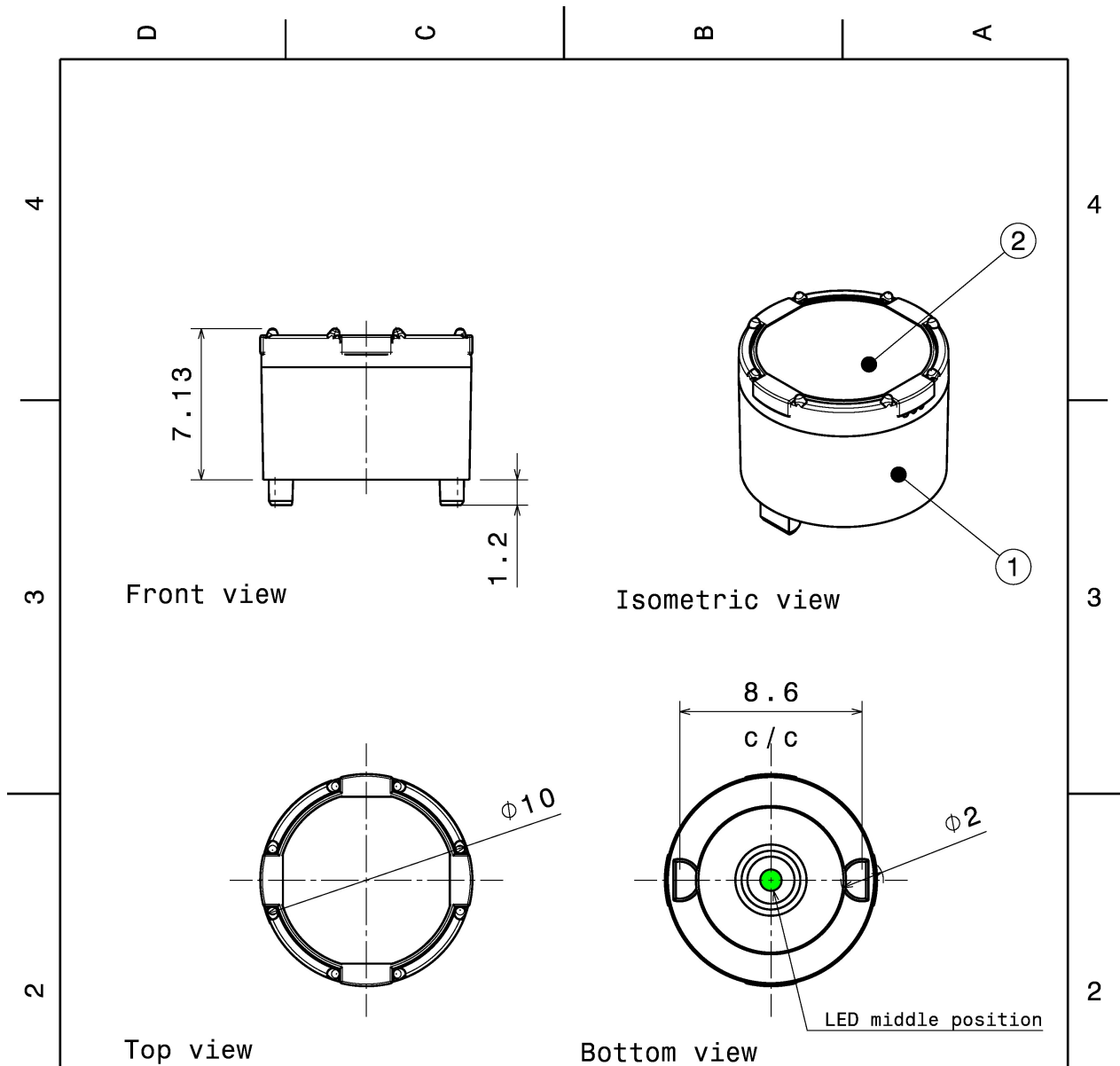
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	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-M	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

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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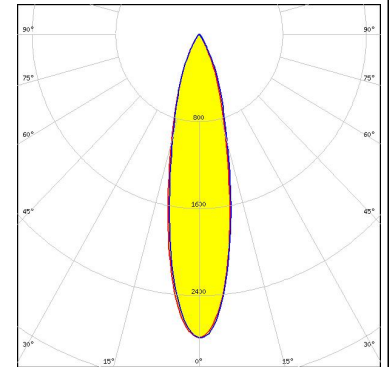
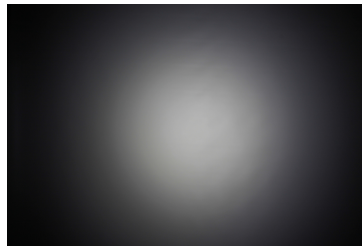
PHOTOMETRIC DATA (MEASURED):

CREE

LED XB-D
FWHM 26.0°
Efficiency 87 %
Peak intensity 2.740 cd/lm
Required components:

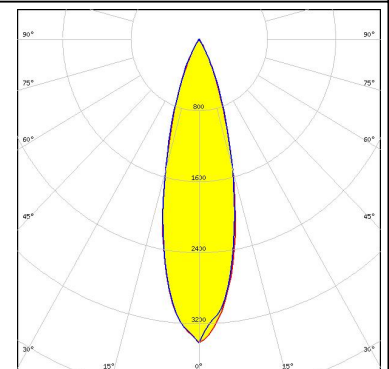
CREE

LED XD16
FWHM 24.0°
Efficiency 74 %
Peak intensity 2.800 cd/lm
Required components:



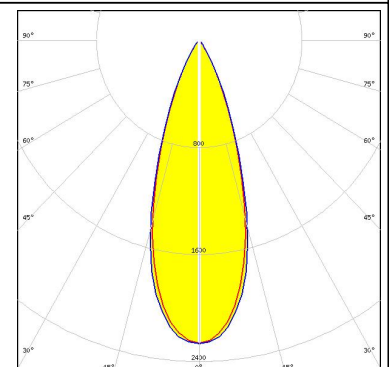
CREE

LED XP-E
FWHM 24.0°
Efficiency 92 %
Peak intensity 0.000 cd/lm
Required components:



CREE

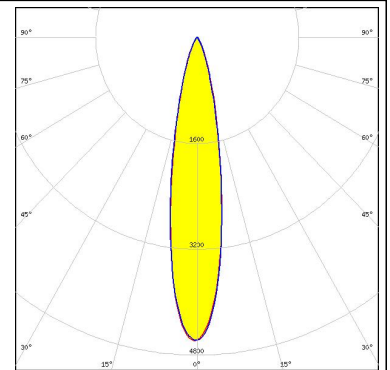
LED XP-G
FWHM 34.0°
Efficiency 91 %
Peak intensity 2.200 cd/lm
Required components:



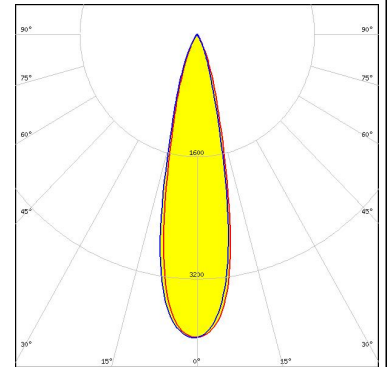
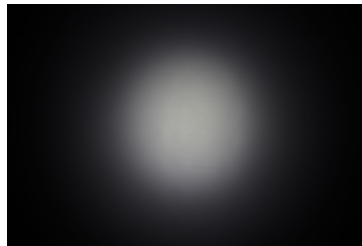
PHOTOMETRIC DATA (MEASURED):



LED XQ-E HI
FWHM 20.0°
Efficiency 85 %
Peak intensity 4.600 cd/lm
Required components:



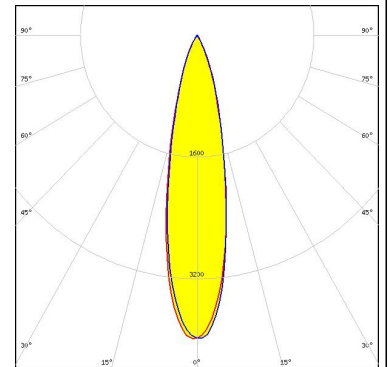
LED LUXEON C
FWHM 24.0°
Efficiency 89 %
Peak intensity 3.970 cd/lm
Required components:



LED LUXEON Z
FWHM 19.0°
Efficiency 86 %
Peak intensity 5.260 cd/lm
Required components:



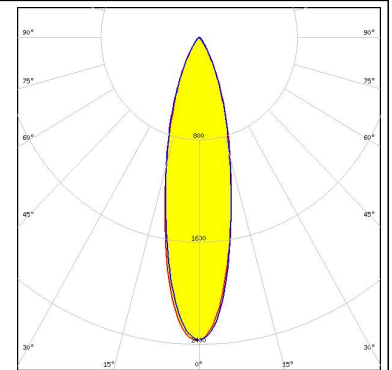
LED LUXEON Z ES
FWHM 23.0°
Efficiency 87 %
Peak intensity 4.000 cd/lm
Required components:



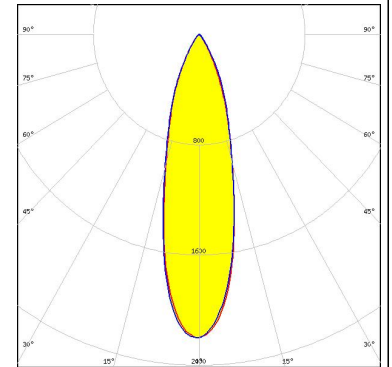
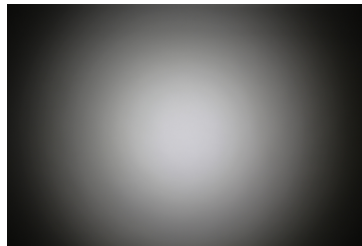
PHOTOMETRIC DATA (MEASURED):



LED NCSxE17A
FWHM 26.0°
Efficiency 74 %
Peak intensity 2.400 cd/lm
Required components:



LED LH181B
FWHM 27.0°
Efficiency 74 %
Peak intensity 2.200 cd/lm
Required components:



LED Double Dome (GM2BB)
FWHM 28.0°
Efficiency 88 %
Peak intensity cd/lm
Required components:

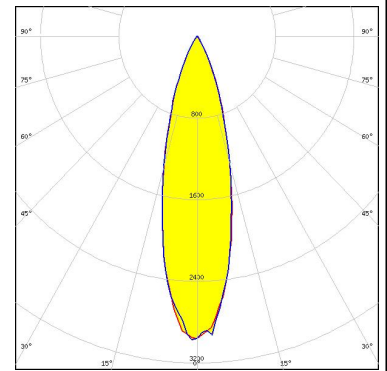
PHOTOMETRIC DATA (SIMULATED):

CREE 

LED XQ-E
FWHM 27.5°
Efficiency 91 %
Peak intensity 3.100 cd/lm
Required components:

NICHIA 

LED NVSxE21A
FWHM 27.0°
Efficiency 86 %
Peak intensity 3.020 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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