



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!



## Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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

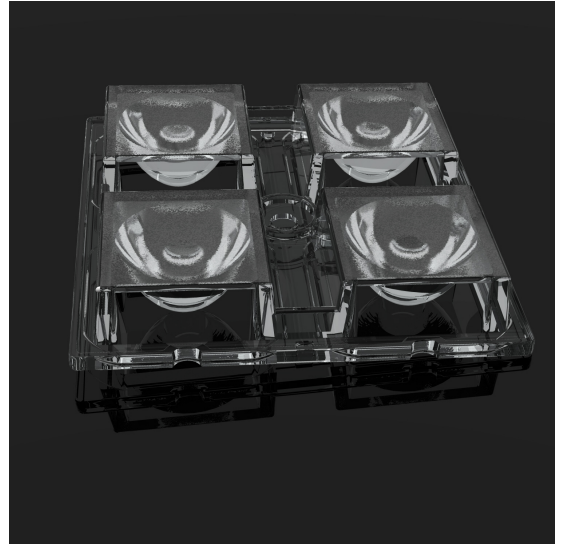


## HB-2X2-M-BLIND

~25° medium beam without centre screw hole  
for easier potting

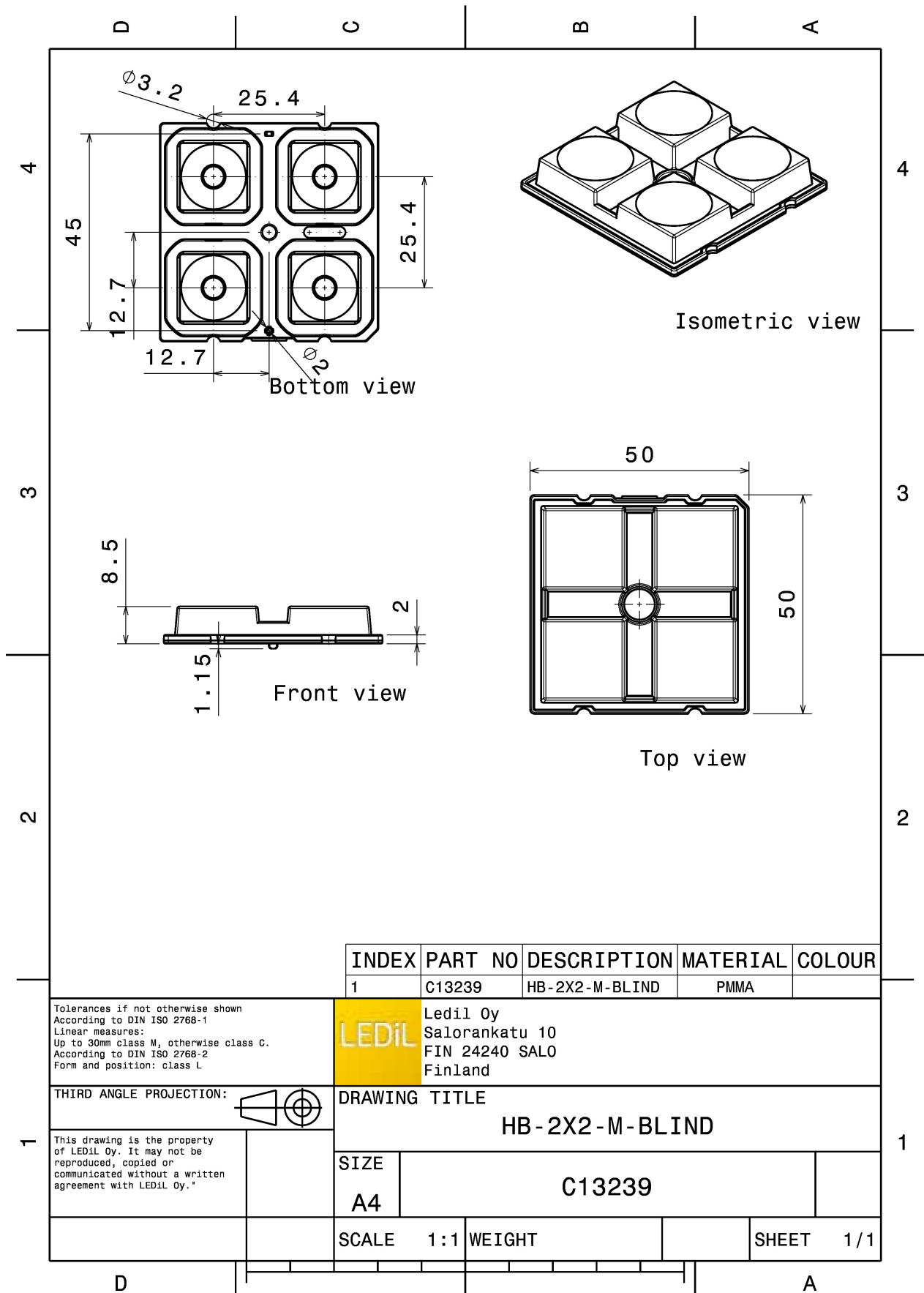
### TECHNICAL SPECIFICATIONS:

Dimensions	50x50 mm
Height	8.5 mm
Fastening	glue, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	9.3 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
HB-2X2-M-BLIND	Lens array	PMMA	clear



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13239	HB-2X2-M-BLIND	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  
**HB-2X2-M-BLIND**

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SIZE  
**A4**

**C13239**

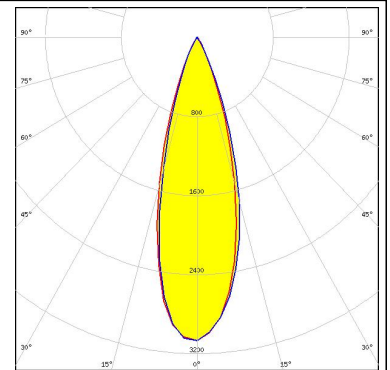
SCALE 1:1 WEIGHT SHEET 1/1



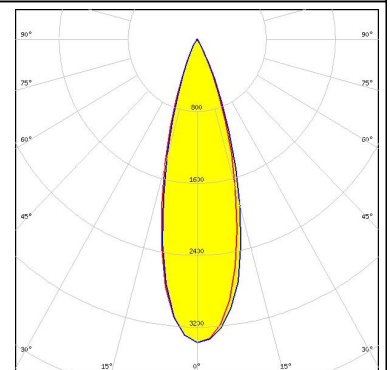
#### PHOTOMETRIC DATA (MEASURED):



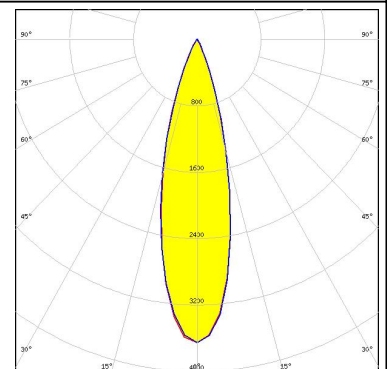
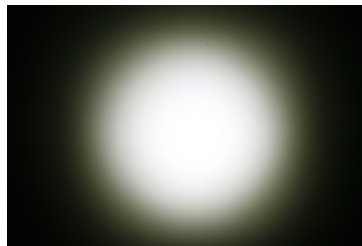
LED XP-G  
 FWHM 31.0°  
 Efficiency 91 %  
 Peak intensity 3.100 cd/lm  
 Required components:



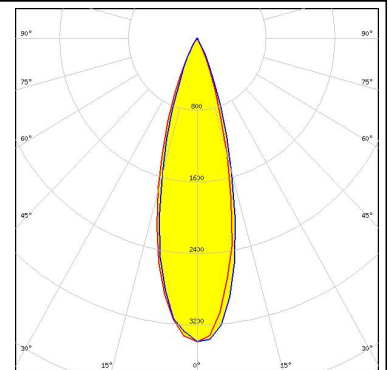
LED XP-G2  
 FWHM 33.0°  
 Efficiency 93 %  
 Peak intensity 3.400 cd/lm  
 Required components:



LED XT-E  
 FWHM 25.0°  
 Efficiency 92 %  
 Peak intensity 3.700 cd/lm  
 Required components:



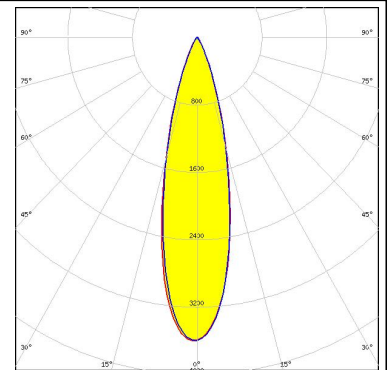
LED H35C1 (LEMWA33)  
 FWHM 29.0°  
 Efficiency 91 %  
 Peak intensity 3.400 cd/lm  
 Required components:



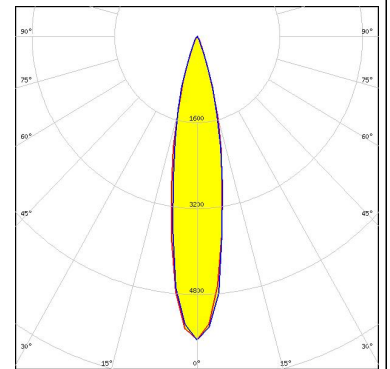
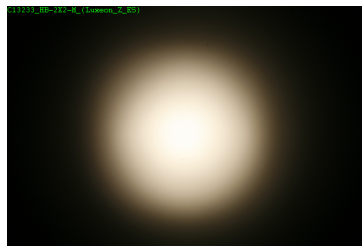
#### PHOTOMETRIC DATA (MEASURED):



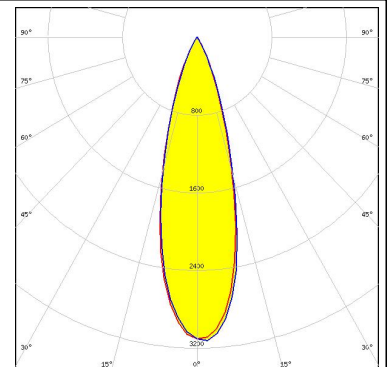
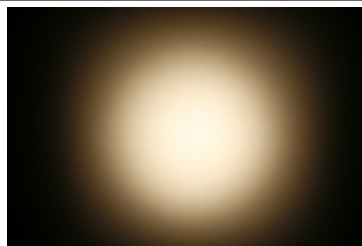
LED LUXEON Q  
 FWHM 26.0°  
 Efficiency 94 %  
 Peak intensity 3.600 cd/lm  
 Required components:



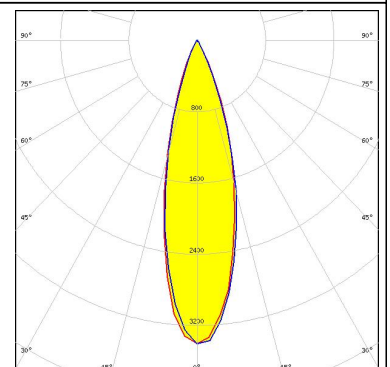
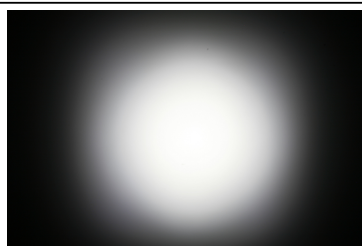
LED LUXEON Z ES  
 FWHM 21.0°  
 Efficiency 91 %  
 Peak intensity 5.640 cd/lm  
 Required components:



LED NVSxx19B/NVSxx19C  
 FWHM 29.0°  
 Efficiency 91 %  
 Peak intensity 3.100 cd/lm  
 Required components:



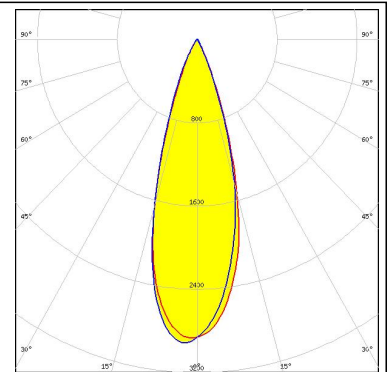
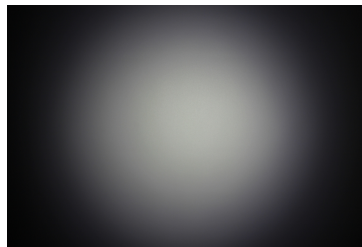
LED Oslon Square PC  
 FWHM 30.0°  
 Efficiency 91 %  
 Peak intensity 3.400 cd/lm  
 Required components:



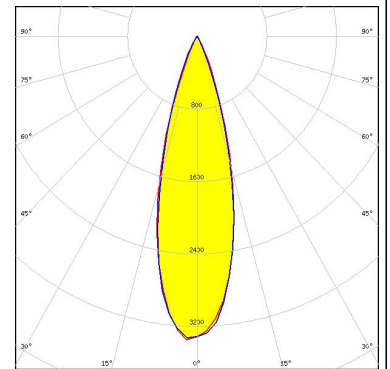
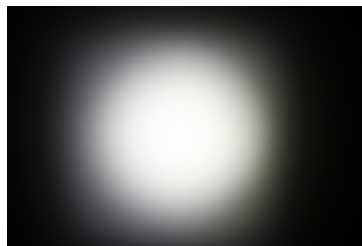
#### PHOTOMETRIC DATA (MEASURED):

#### SAMSUNG

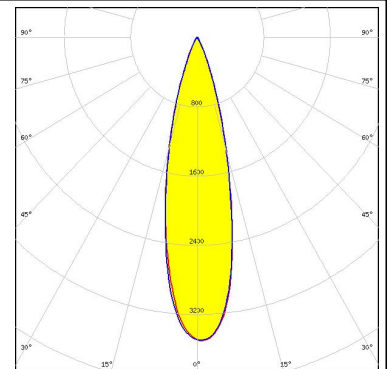
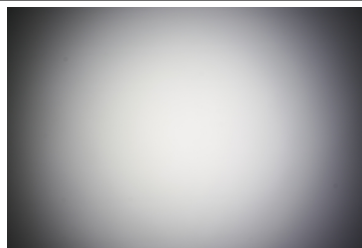
LED LH351Z  
 FWHM 32.0°  
 Efficiency 93 %  
 Peak intensity 2.900 cd/lm  
 Required components:



LED Z5M1/Z5M2  
 FWHM 30.0°  
 Efficiency 90 %  
 Peak intensity 3.400 cd/lm  
 Required components:

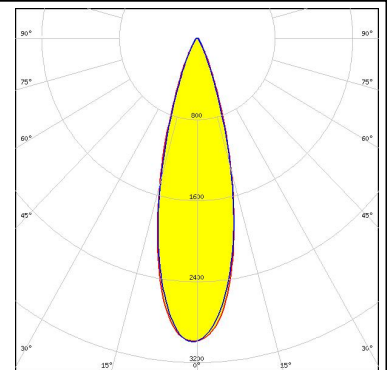


LED TL1L4  
 FWHM 25.0°  
 Efficiency 85 %  
 Peak intensity 3.500 cd/lm  
 Required components:



#### TRIDONIC

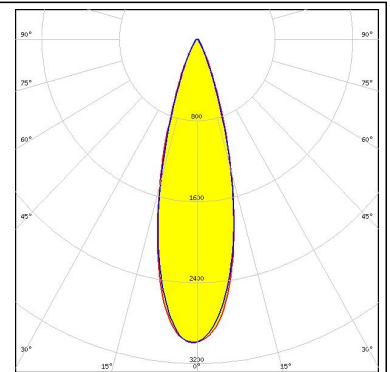
LED RLE G1 49x121mm 2000lm xxx EXC OTD  
 FWHM 29.0°  
 Efficiency 94 %  
 Peak intensity 3.000 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

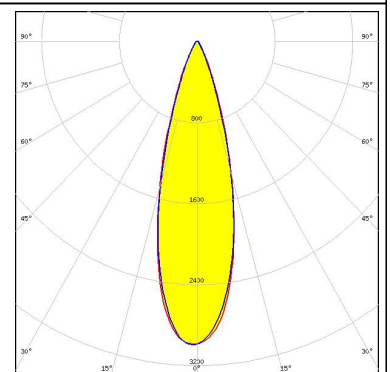
#### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD  
FWHM 29.0°  
Efficiency 94 %  
Peak intensity 3.000 cd/lm  
Required components:



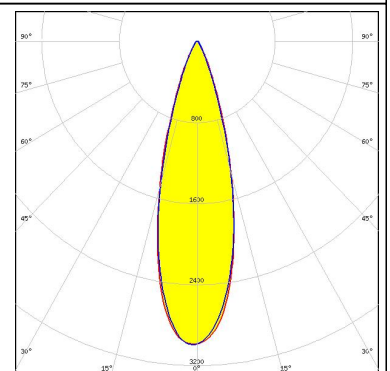
#### TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM 29.0°  
Efficiency 94 %  
Peak intensity 3.000 cd/lm  
Required components:



#### TRIDONIC

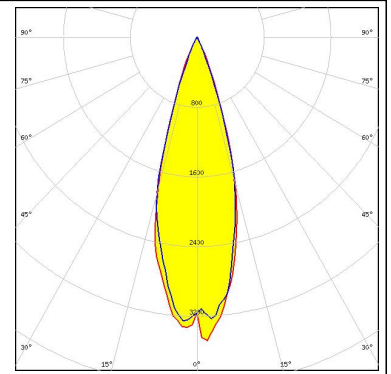
LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM 29.0°  
Efficiency 94 %  
Peak intensity 3.000 cd/lm  
Required components:



## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Oslon Square Gen3  
FWHM 32.0°  
Efficiency 93 %  
Peak intensity 3.970 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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