



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

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



CRYSTAL-MINE

~4.9° spot beam especially designed for mining headlamps. Assembly with holder.

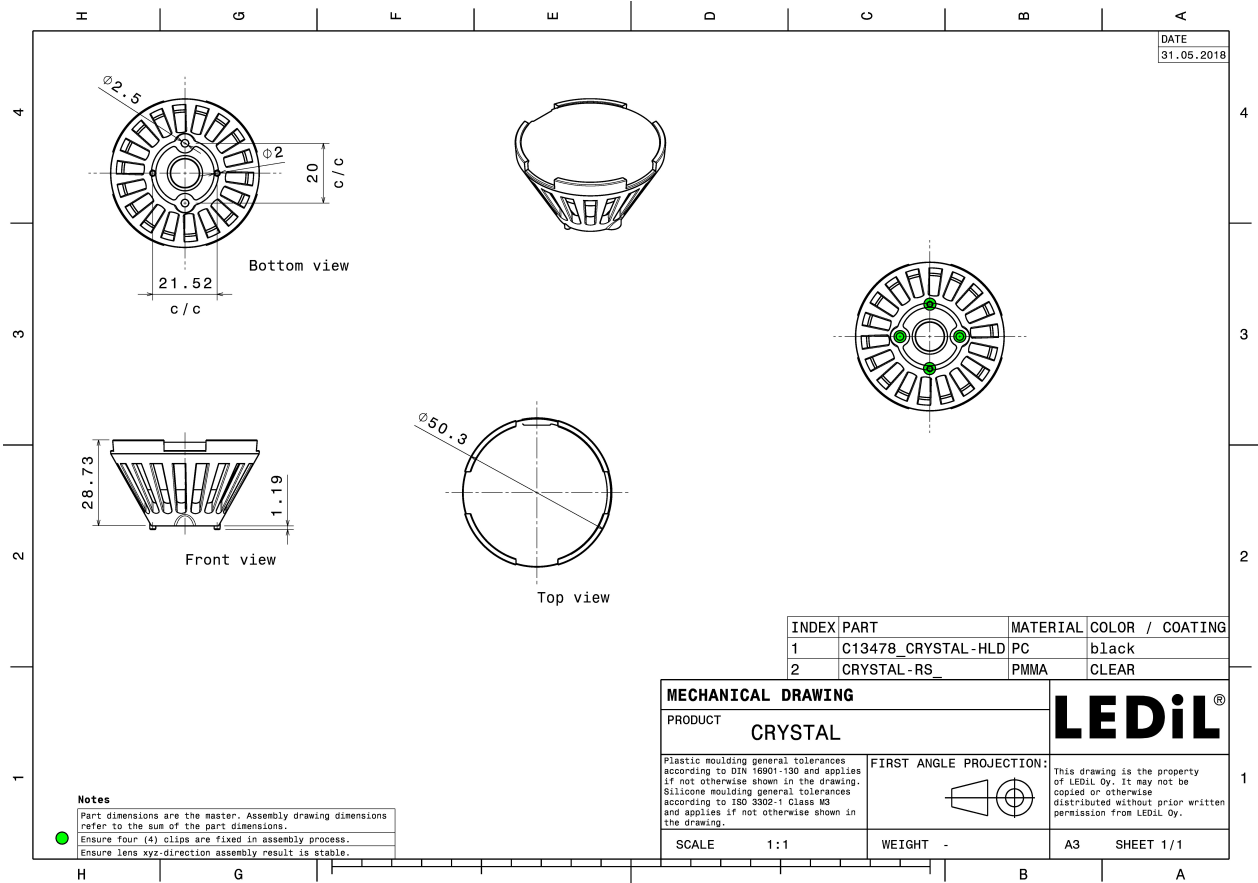
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 50.3 mm
Height	28.7 mm
Fastening	pin, screw
Colour	white
Box size	
Box weight	0 kg
Quantity in Box	288 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

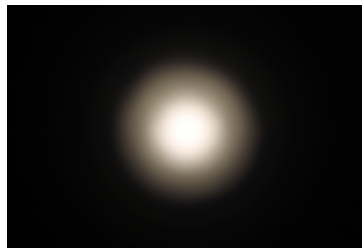
Component	Type	Material	Colour
CRYSTAL-MINE	Lens	PMMA	clear
CRYSTAL-HLD	Holder	PC	white



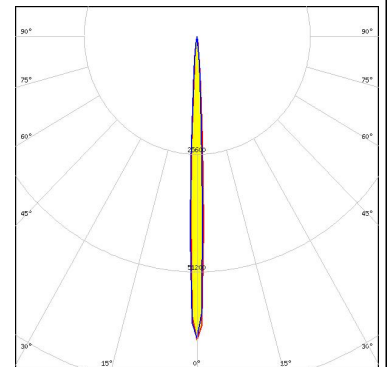
PHOTOMETRIC DATA (MEASURED):



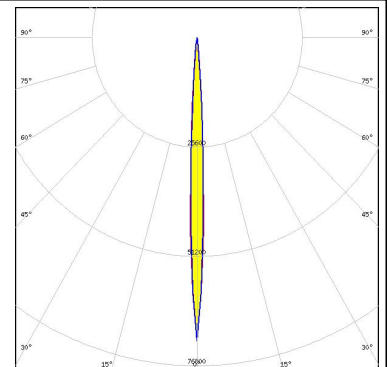
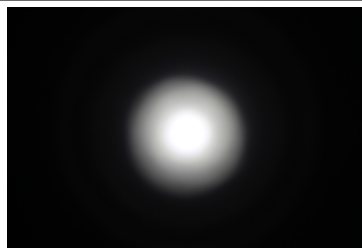
LED XM-L2
FWHM 6.9°
Efficiency 90 %
Peak intensity 35.000 cd/lm
Required components:



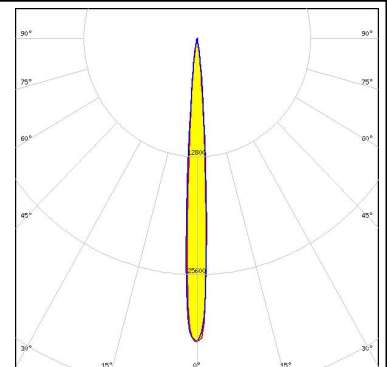
LED XP-G
FWHM 4.7°
Efficiency 90 %
Peak intensity 66.900 cd/lm
Required components:



LED XP-G2
FWHM 4.6°
Efficiency 90 %
Peak intensity 65.200 cd/lm
Required components:



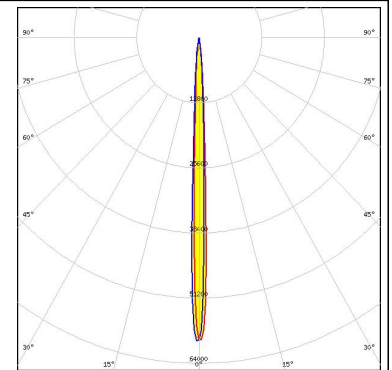
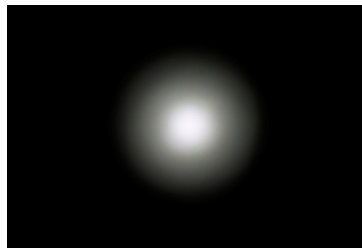
LED XP-L
FWHM 7.0°
Efficiency 86 %
Peak intensity 33.000 cd/lm
Required components:



PHOTOMETRIC DATA (MEASURED):



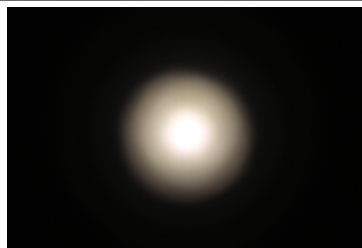
LED XP-L HI
FWHM 4.5°
Efficiency 92 %
Peak intensity 60.000 cd/lm
Required components:



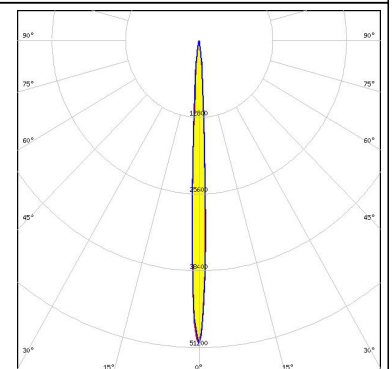
LED LUXEON A
FWHM 4.9°
Efficiency 89 %
Peak intensity 58.200 cd/lm
Required components:



LED LUXEON T
FWHM 4.9°
Efficiency 89 %
Peak intensity 55.100 cd/lm
Required components:



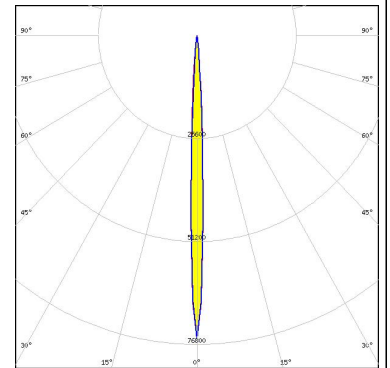
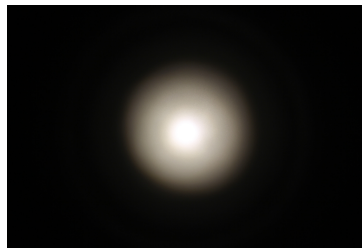
LED LUXEON TX
FWHM 5.0°
Efficiency 94 %
Peak intensity 50.600 cd/lm
Required components:



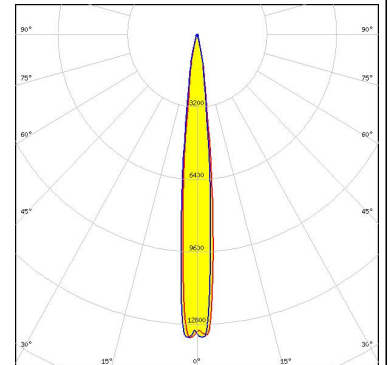
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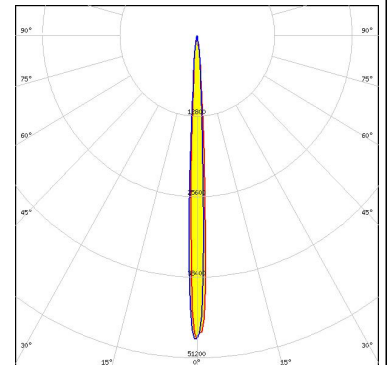
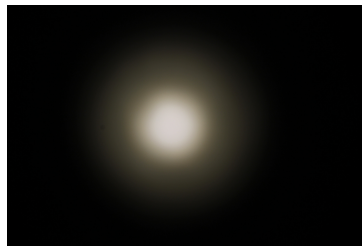
LED NCSxx19B
 FWHM 3.6°
 Efficiency 90 %
 Peak intensity 73.300 cd/lm
 Required components:



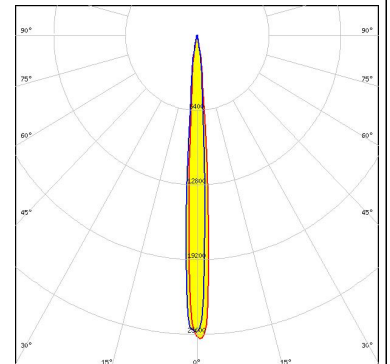
LED NV4x144A
 FWHM 11.0°
 Efficiency 90 %
 Peak intensity 13.400 cd/lm
 Required components:



LED NVSxx19B/NVSxx19C
 FWHM 6.0°
 Efficiency 93 %
 Peak intensity 48.000 cd/lm
 Required components:



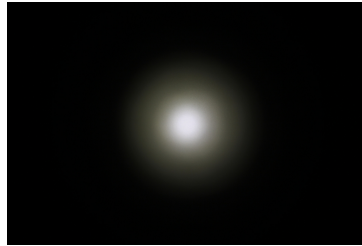
LED NWSx229A
 FWHM 7.0°
 Efficiency 91 %
 Peak intensity 26.000 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED LH351B
FWHM 5.1°
Efficiency 90 %
Peak intensity 51.770 cd/lm
Required components:



SAMSUNG

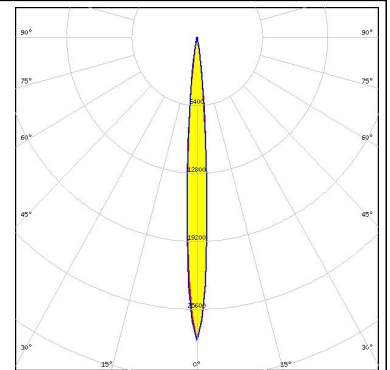
LED LH351Z
FWHM 4.2°
Efficiency 90 %
Peak intensity 71.400 cd/lm
Required components:



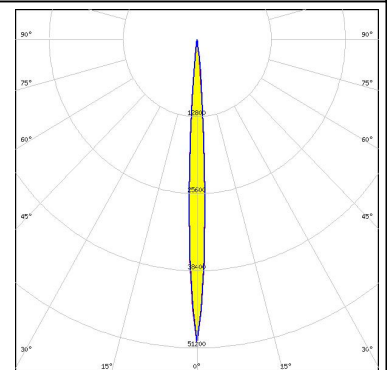
PHOTOMETRIC DATA (SIMULATED):



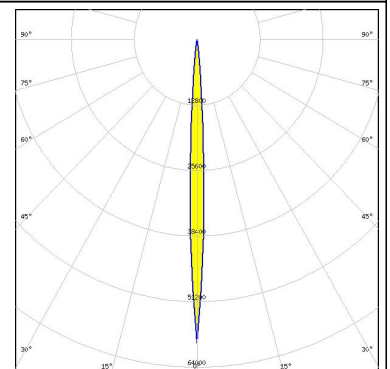
LED XHP35 HD
 FWHM 7.8°
 Efficiency 94 %
 Peak intensity 28.600 cd/lm
 Required components:



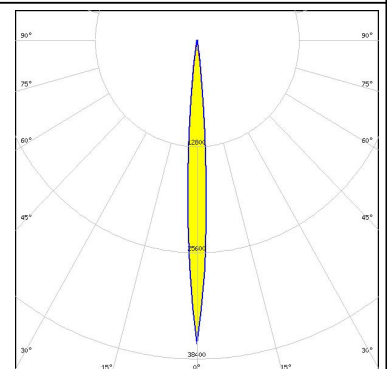
LED XHP35 HI
 FWHM 6.2°
 Efficiency 94 %
 Peak intensity 50.400 cd/lm
 Required components:



LED OSCONIQ P 3737 (2W version)
 FWHM 5.5°
 Efficiency 94 %
 Peak intensity 59.300 cd/lm
 Required components:



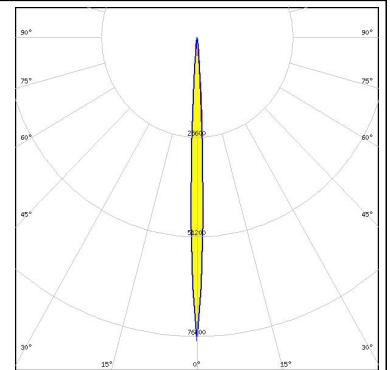
LED OSCONIQ P 3737 (3W version)
 FWHM 5.5°
 Efficiency 94 %
 Peak intensity 59.300 cd/lm
 Required components:



PHOTOMETRIC DATA (SIMULATED):

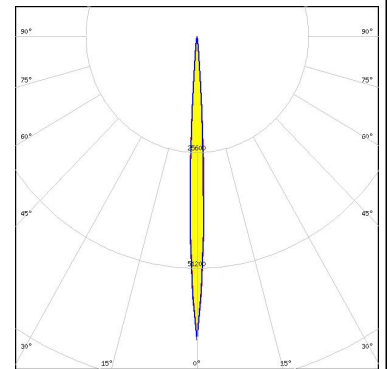
OSRAM
Opto Semiconductors

LED Oslon Square Flat
 FWHM 4.8°
 Efficiency 94 %
 Peak intensity 78.000 cd/lm
 Required components:



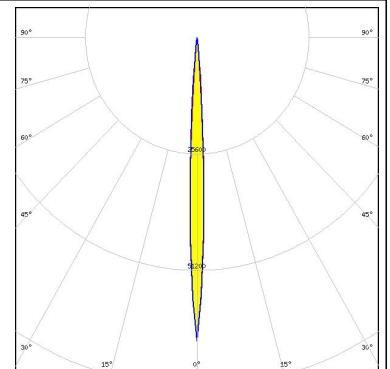
OSRAM
Opto Semiconductors

LED Oslon Square Gen3
 FWHM 5.4°
 Efficiency 94 %
 Peak intensity 67.000 cd/lm
 Required components:



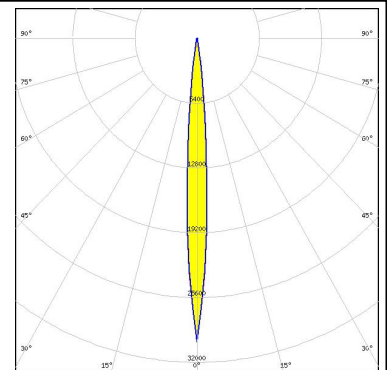
SEOL
SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2
 FWHM 5.4°
 Efficiency 94 %
 Peak intensity 66.700 cd/lm
 Required components:



SEOL
SEOUL SEMICONDUCTOR

LED Z8Y22P
 FWHM 7.8°
 Efficiency 94 %
 Peak intensity 29.900 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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