



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



TINA2-D

~16° diffused spot beam optimized for CREE XP-E. Assembly with holder and installation tape.

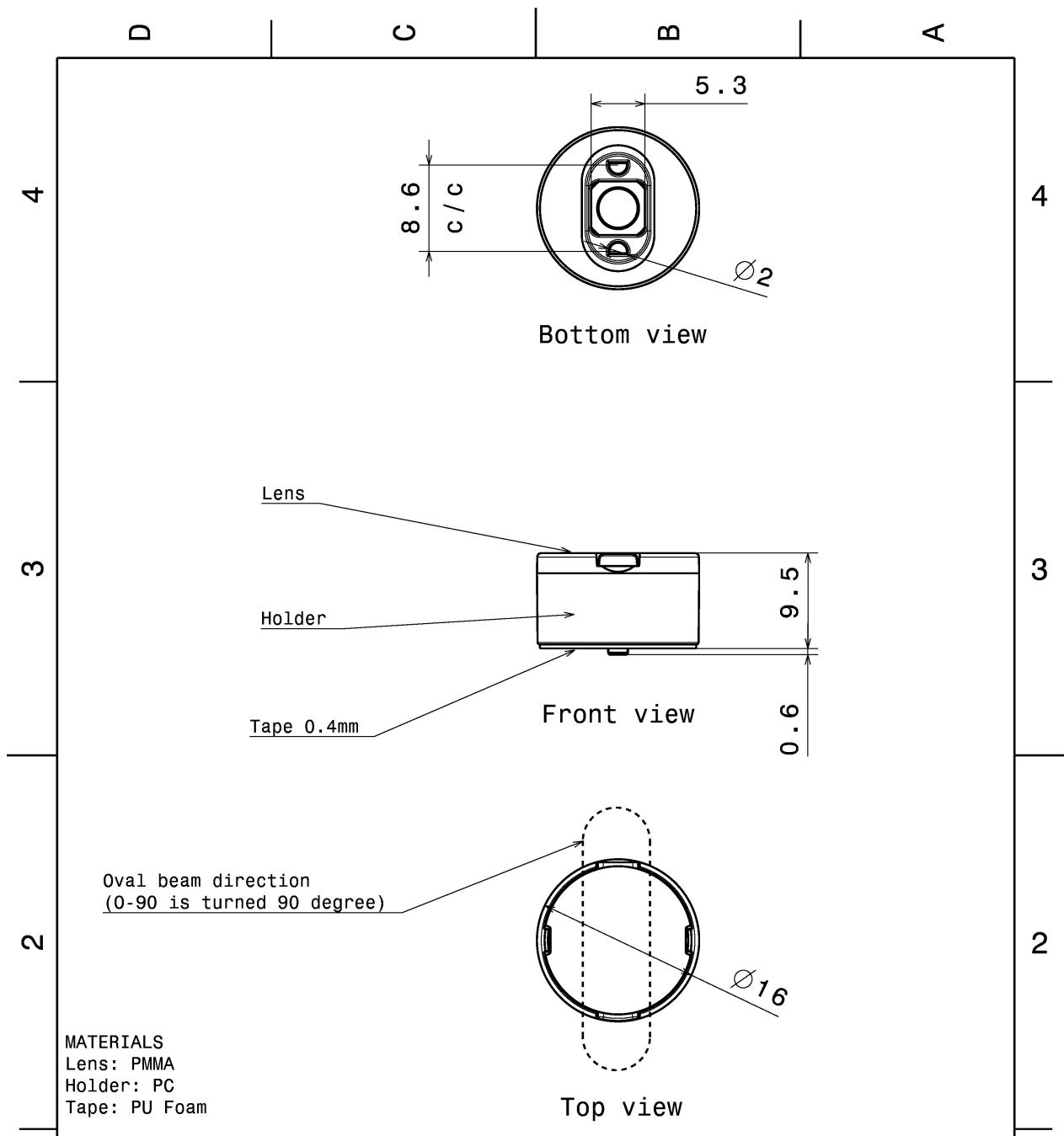
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	451 x 241 x 298 mm
Box weight	8.1 kg
Quantity in Box	4140 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
TINA2-XP-D	Lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black

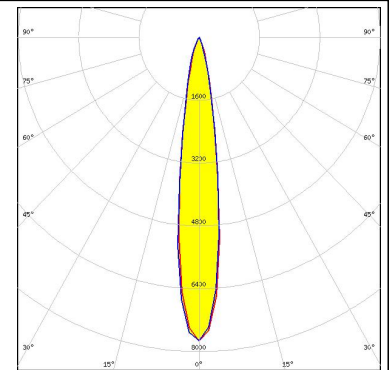


This drawing is our property. It can't be reproduced or communicated without our written agreement.		LEDiL		Ledil Oy Salorankatu 10 FIN-24100 SALO Finland	
DRAWING TITLE		Datasheet Tina2-OSL			
DRAWN BY ah	DATE 28.12.2011	SIZE A4	DRAWING NUMBER		REV 1
CHECKED BY sn	DATE 28.12.2011	SCALE 3:1	WEIGHT (g)	-	SHEET 1/1
DESIGNED BY ol	DATE xx				

PHOTOMETRIC DATA (MEASURED):

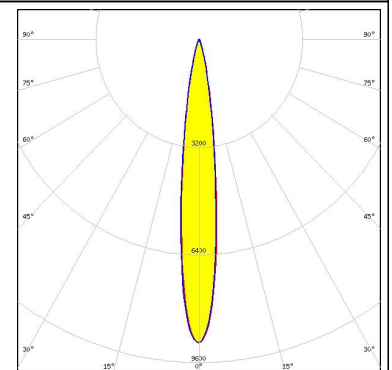
CREE 

LED XB-H
 FWHM 16.0°
 Efficiency 86 %
 Peak intensity 7.700 cd/lm
 Required components:



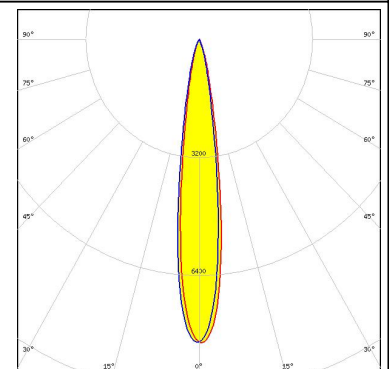
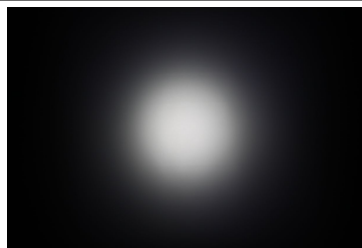
CREE 

LED XD16
 FWHM 14.0°
 Efficiency 82 %
 Peak intensity 9.000 cd/lm
 Required components:



 **LUMILEDS**

LED LUXEON TX
 FWHM 15.0°
 Efficiency 88 %
 Peak intensity 8.250 cd/lm
 Required components:



 **LUMILEDS**

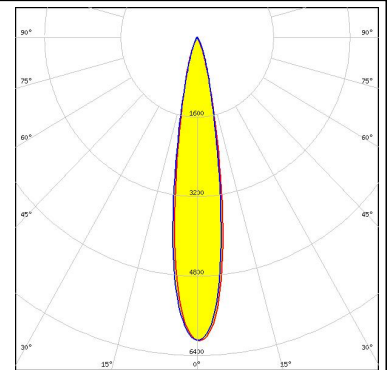
LED LUXEON Z ES
 FWHM 12.0°
 Efficiency %
 Peak intensity cd/lm
 Required components:



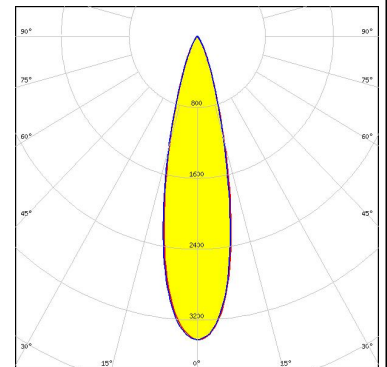
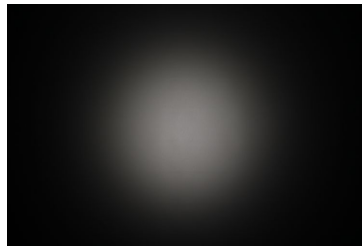
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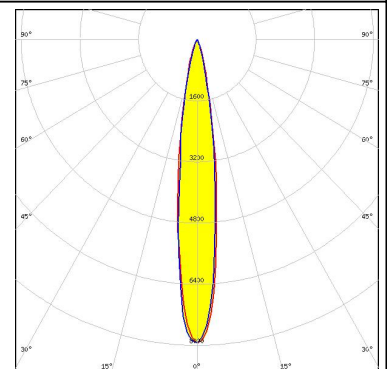
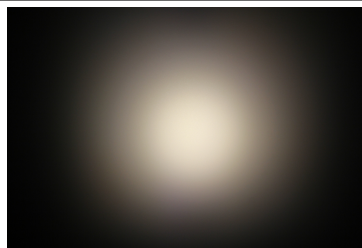
LED NVSxx19B/NVSxx19C
 FWHM 18.0°
 Efficiency 87 %
 Peak intensity 6.100 cd/lm
 Required components:



LED NWSx229A
 FWHM 25.0°
 Efficiency 85 %
 Peak intensity 3.400 cd/lm
 Required components:



LED Oslon Square EC
 FWHM 16.0°
 Efficiency 82 %
 Peak intensity 7.940 cd/lm
 Required components:



LED Oslon Square EC
 FWHM 16.0°
 Efficiency 87 %
 Peak intensity 6.200 cd/lm
 Required components:

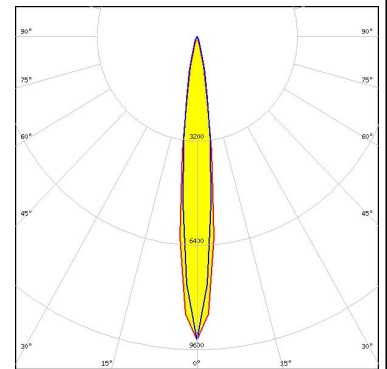
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Oslon Square PC
FWHM 13.0°
Efficiency 87 %
Peak intensity 6.300 cd/lm
Required components:

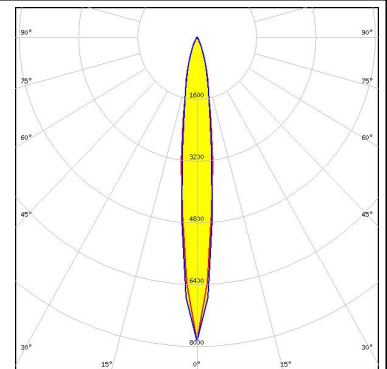
OSRAM
Opto Semiconductors

LED Oslon SSL 150
FWHM 14.0°
Efficiency 89 %
Peak intensity 9.300 cd/lm
Required components:



OSRAM
Opto Semiconductors

LED Oslon SSL 80
FWHM 12.0°
Efficiency 87 %
Peak intensity 7.855 cd/lm
Required components:



OSRAM
Opto Semiconductors

LED SFH 4715S
FWHM 17.0°
Efficiency %
Peak intensity cd/lm
Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED SFH 4725S

FWHM 15.0°

Efficiency %

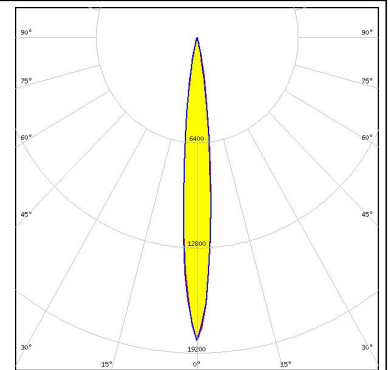
Peak intensity cd/lm

Required components:

PHOTOMETRIC DATA (SIMULATED):

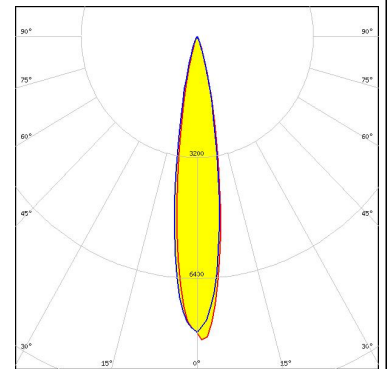
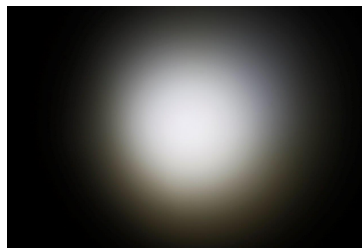
CREE 

LED XQ-E HI
 FWHM 11.0°
 Efficiency 91 %
 Peak intensity 18.500 cd/lm
 Required components:



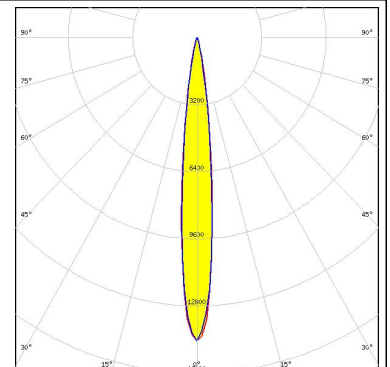
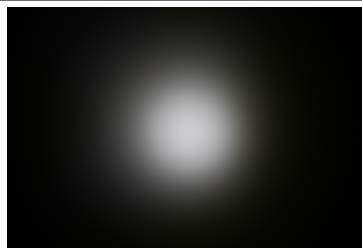
OSRAM
Opto Semiconductors

LED Duris S5 (2 chip)
 FWHM 17.0°
 Efficiency 92 %
 Peak intensity 8.030 cd/lm
 Required components:



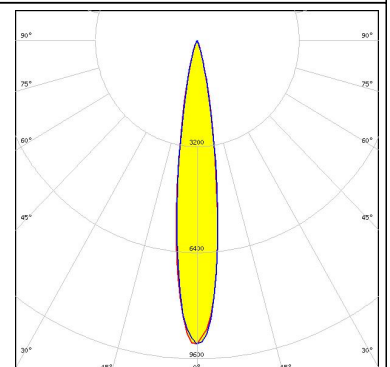
OSRAM
Opto Semiconductors

LED Oslon Square Flat
 FWHM 12.0°
 Efficiency 91 %
 Peak intensity 14.470 cd/lm
 Required components:



SAMSUNG

LED LH181B
 FWHM 16.0°
 Efficiency 92 %
 Peak intensity 9.200 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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