



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



TINA3-OO

~60° 40° oval beam optimized for CREE XP-E.
Assembly with holder and installation tape.

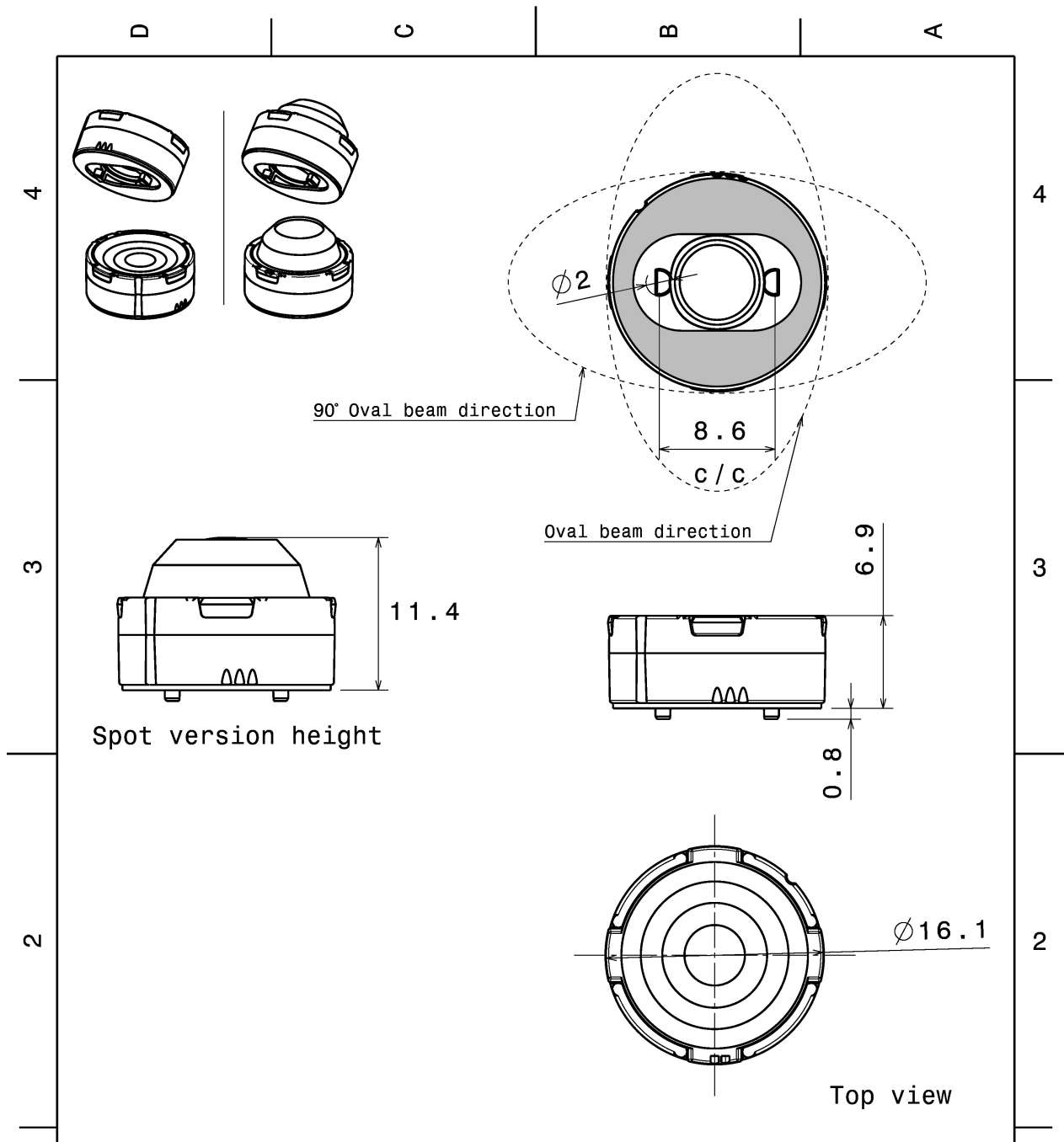
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	6.9 mm
Fastening	tape, pin
Colour	white
Box size	470 x 240 x 105 mm
Box weight	3.1 kg
Quantity in Box	2016 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
TINA3-OO	Lens	PMMA	clear
TINA3-HLD-PIN-TAPE-XP	Holder	PC	white
TINA-TAPE3	Tape	PU tape	black



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
TINA3 Datasheet

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SIZE	PART NUMBER
A4	-

SCALE	4:3	WEIGHT	-	SHEET	1/1
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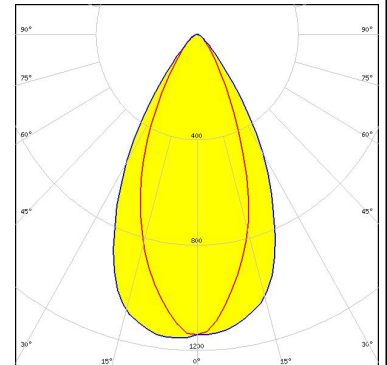
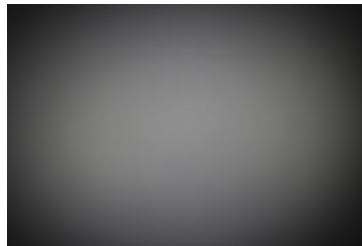
PHOTOMETRIC DATA (MEASURED):

CREE

LED XB-D
FWHM 54.0 + 42.0°
Efficiency 91 %
Peak intensity 0.980 cd/lm
Required components:

CREE

LED XB-H
FWHM 59.0 + 43.0°
Efficiency 88 %
Peak intensity 1.100 cd/lm
Required components:

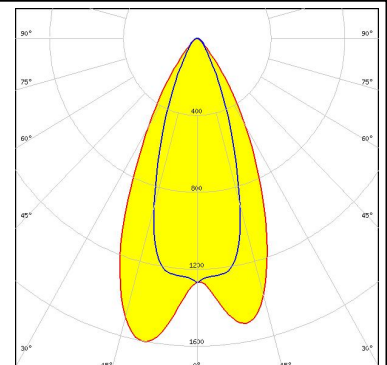


CREE

LED XP-E
FWHM 52.0 + 35.0°
Efficiency 93 %
Peak intensity 1.660 cd/lm
Required components:

CREE

LED XP-G
FWHM 51.0 + 39.0°
Efficiency 93 %
Peak intensity 1.600 cd/lm
Required components:



PHOTOMETRIC DATA (MEASURED):

LUMILEDS

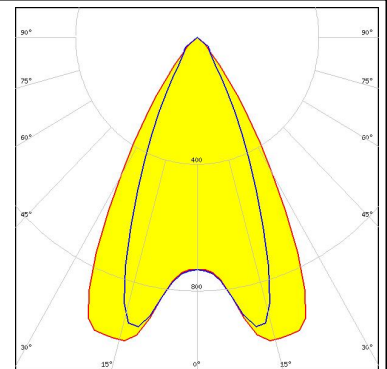
LED LUXEON A
FWHM 46.0 + 60.0°
Efficiency %
Peak intensity cd/lm
Required components:

LUMILEDS

LED LUXEON Rebel
FWHM 58.0 + 38.0°
Efficiency 83 %
Peak intensity 1.270 cd/lm
Required components:

LUMILEDS

LED LUXEON Rebel ES
FWHM 60.0 + 46.0°
Efficiency 92 %
Peak intensity 1.010 cd/lm
Required components:



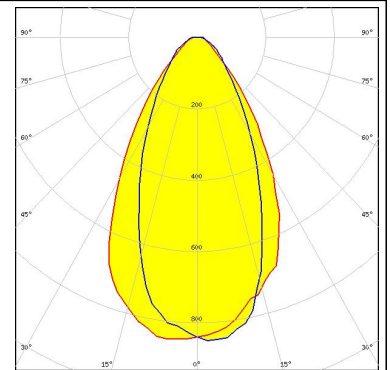
NICHIA

LED NVSxx19A
FWHM 62.0 + 48.0°
Efficiency 93 %
Peak intensity 0.860 cd/lm
Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Oslon Square EC
FWHM 62.0 + 50.0°
Efficiency 87 %
Peak intensity 0.840 cd/lm
Required components:



OSRAM
Opto Semiconductors

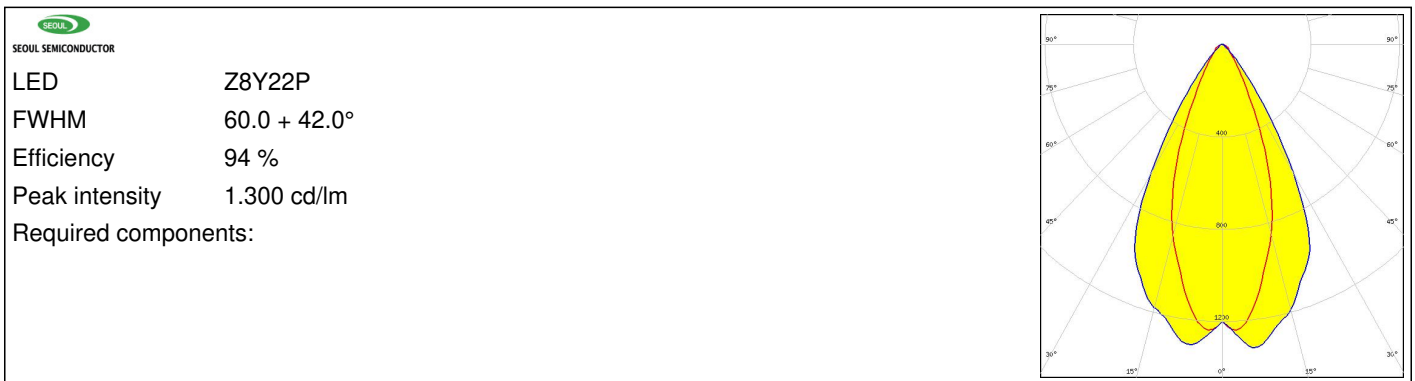
LED Oslon SSL 150
FWHM 53.0 + 36.0°
Efficiency 90 %
Peak intensity 1.500 cd/lm
Required components:

OSRAM
Opto Semiconductors

LED Oslon SSL 80
FWHM 36.0 + 52.0°
Efficiency 88 %
Peak intensity 1.380 cd/lm
Required components:

SetPlotArea(LA): 31 range error - min 20 max

PHOTOMETRIC DATA (SIMULATED):



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.

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