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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

TINA2-RS

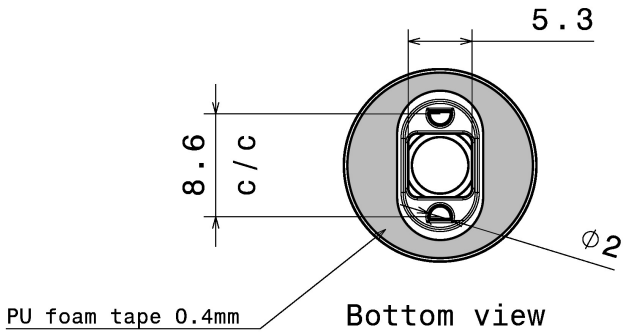
~14° spot beam. Assembly with holder and installation tape.

TECHNICAL SPECIFICATIONS:

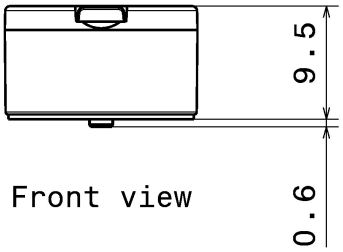
Dimensions	Ø 16 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	451 x 241 x 298 mm
Box weight	8.3 kg
Quantity in Box	4140 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

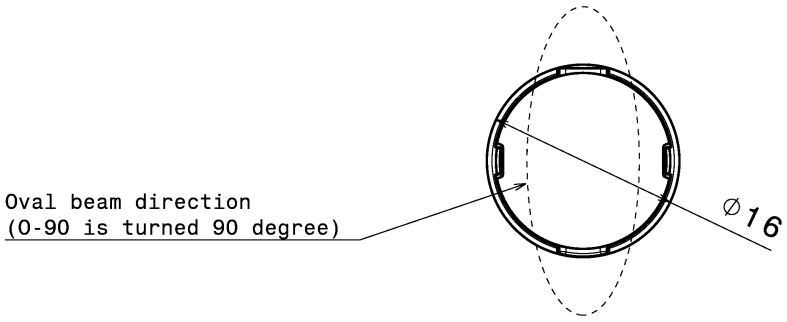
Component	Type	Material	Colour
TINA2-RS	Lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



Bottom view



Front view



Top view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C12372	TINA2-HLD-BLK	PC	black
2	-	TINA2-XP 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 Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
TINA2-XP series

SIZE A4

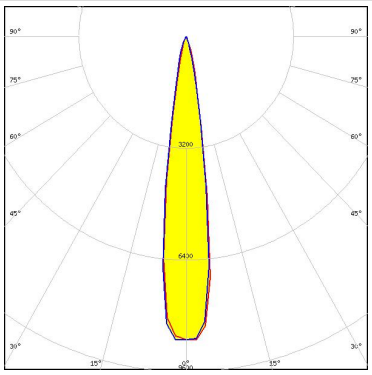
PART NUMBER -

SCALE 1:1 WEIGHT 1,7 g SHEET 1/1

PHOTOMETRIC DATA (MEASURED):

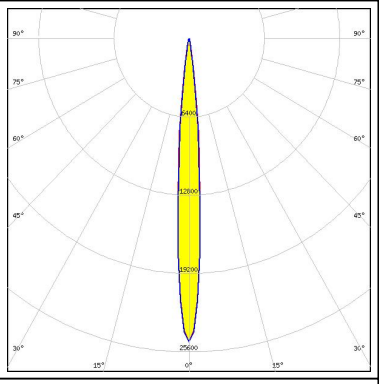
CREE

LED	XB-H
FWHM	17.0°
Efficiency	86 %
Peak intensity	8.700 cd/lm
Required components:	



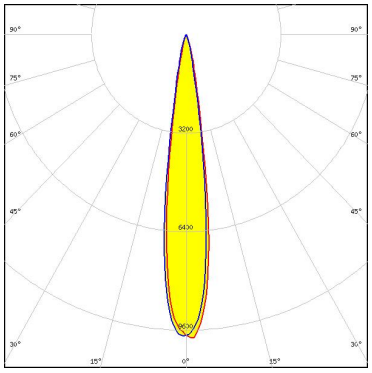
CREE

LED	XQ-E HI
FWHM	9.0°
Efficiency	81 %
Peak intensity	25.000 cd/lm
Required components:	



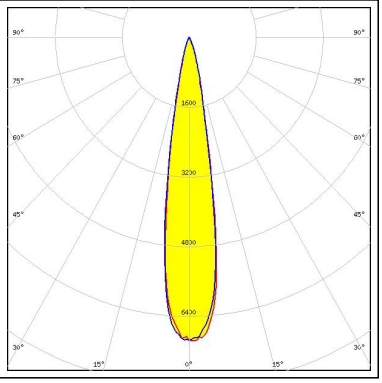
LUMILEDS

LED	LUXEON TX
FWHM	15.0°
Efficiency	89 %
Peak intensity	9.860 cd/lm
Required components:	



NICHIA

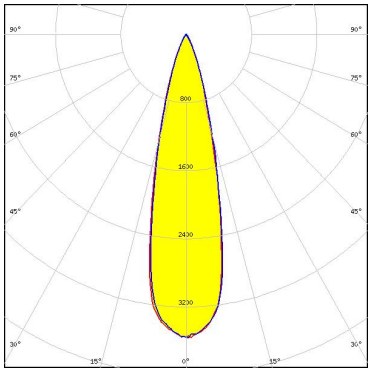
LED	NVSxx19B/NVSxx19C
FWHM	18.0°
Efficiency	88 %
Peak intensity	7.000 cd/lm
Required components:	



PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	NWSx229A
FWHM	25.0°
Efficiency	86 %
Peak intensity	3.600 cd/lm
Required components:	



OSRAM
Opto Semiconductors

LED	Oslon Square EC
FWHM	13.0°
Efficiency	88 %
Peak intensity	9.300 cd/lm
Required components:	

OSRAM
Opto Semiconductors

LED	Oslon Square PC
FWHM	12.0°
Efficiency	88 %
Peak intensity	9.210 cd/lm
Required components:	

OSRAM
Opto Semiconductors

LED	Oslon SSL 150
FWHM	11.0°
Efficiency	90 %
Peak intensity	19.500 cd/lm
Required components:	

PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED	Oslon SSL 80
FWHM	10.0°
Efficiency	88 %
Peak intensity	16.000 cd/lm

Required components:

OSRAM Opto Semiconductors

LED	SFH 4715S
FWHM	14.0°
Efficiency	%
Peak intensity	cd/lm

Required components:

OSRAM Opto Semiconductors

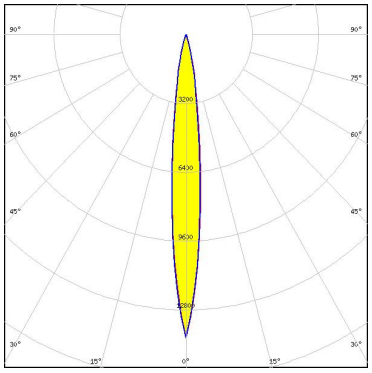
LED	SFH 4716S
FWHM	11.0°
Efficiency	%
Peak intensity	cd/lm

Required components:

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON C
FWHM	11.0°
Efficiency	92 %
Peak intensity	14.000 cd/lm
Required components:	

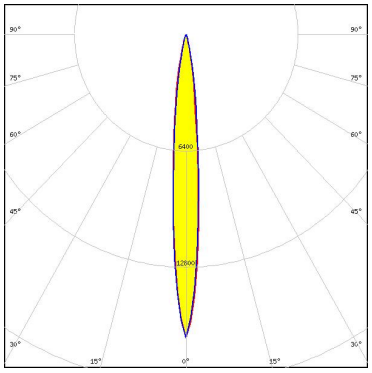


LUMILEDS

LED	LUXEON IR Compact
FWHM	10.0°
Efficiency	84 %
Peak intensity	0.000 cd/lm
Required components:	

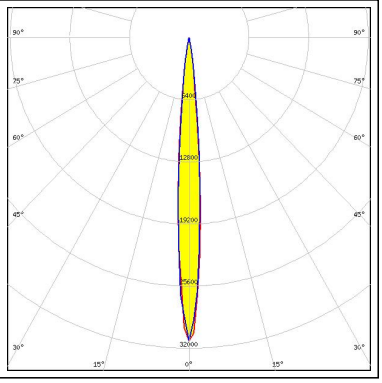
NICHIA

LED	NFSx757G
FWHM	10.0°
Efficiency	93 %
Peak intensity	16.690 cd/lm
Required components:	



OSRAM
Opto Semiconductors

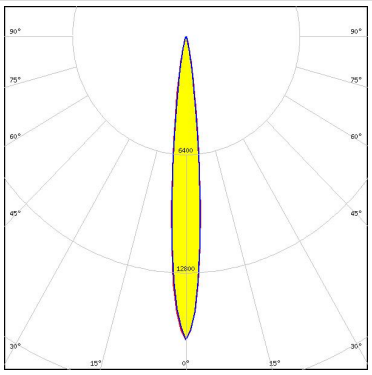
LED	Oslon Black Flat
FWHM	8.6°
Efficiency	92 %
Peak intensity	32.400 cd/lm
Required components:	



PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	Oslon Square Flat
FWHM	11.0°
Efficiency	91 %
Peak intensity	16.400 cd/lm
Required components:	

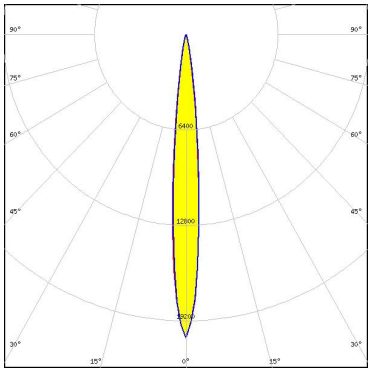


OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM	16.0°
Efficiency	87 %
Peak intensity	9.200 cd/lm
Required components:	

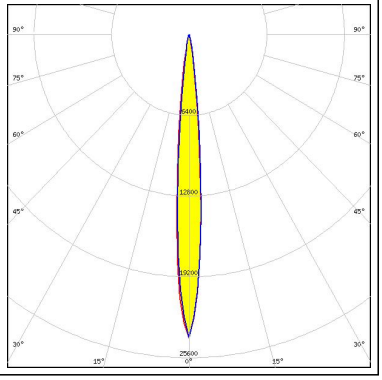
OSRAM
Opto Semiconductors

LED	Synios P2720 1 mm
FWHM	10.0°
Efficiency	92 %
Peak intensity	20.340 cd/lm
Required components:	



OSRAM
Opto Semiconductors

LED	Synios P2720 1/2 mm
FWHM	9.0°
Efficiency	92 %
Peak intensity	24.030 cd/lm
Required components:	

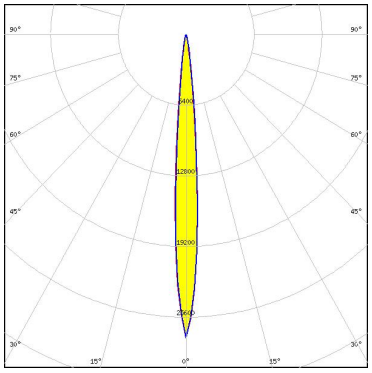


PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	Synios P2720 1/4 mm
FWHM	8.0°
Efficiency	92 %
Peak intensity	27.470 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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LEDiL Oy
Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.
228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support
www.ledil.com/
where_to_buy

Shipping locations
Salo, Finland
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