



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



TINA2-O

~35° 15° oval beam optimized for CREE XP-E.
Assembly with holder and installation tape.

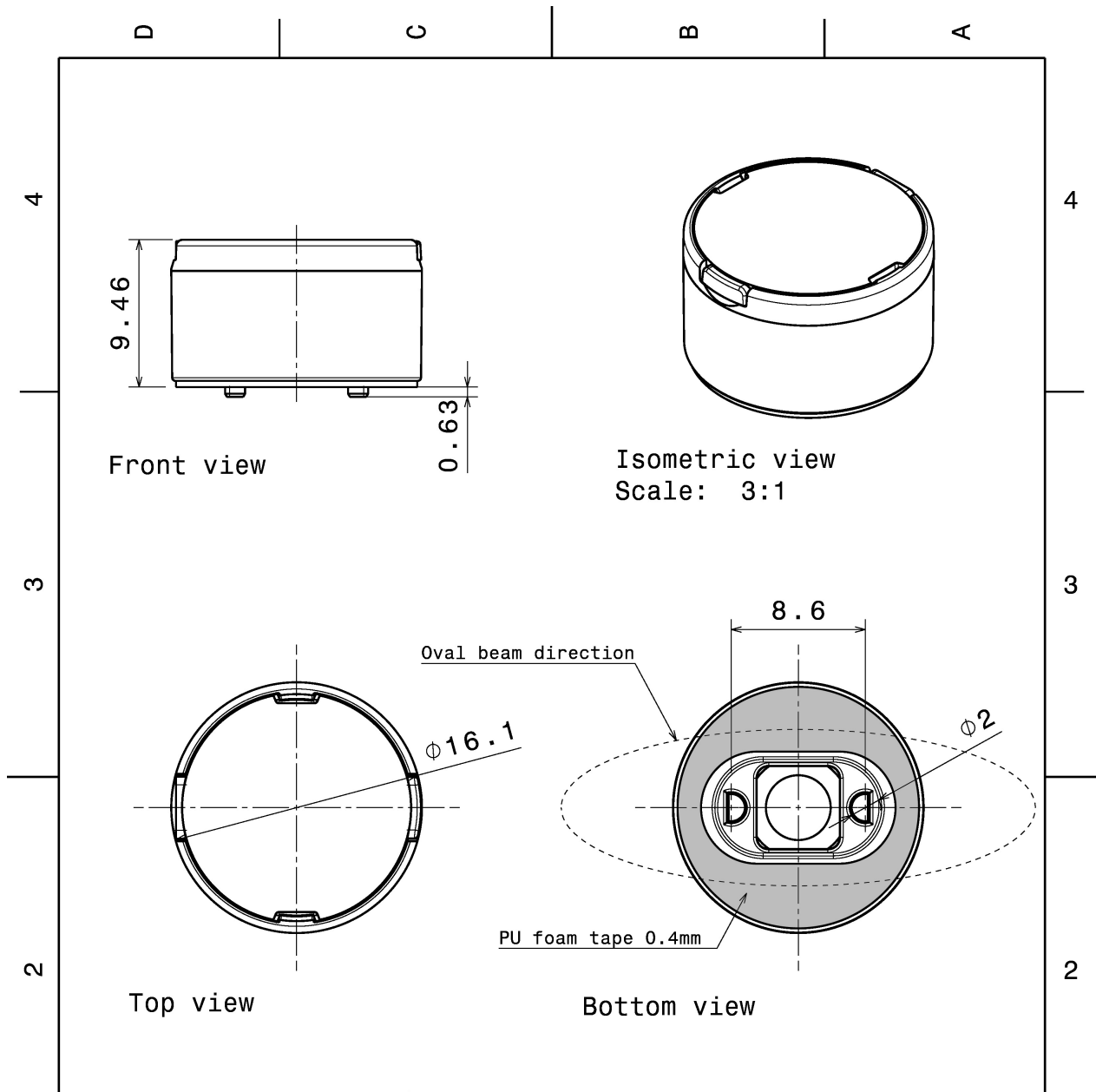
TECHNICAL SPECIFICATIONS:

| | |
|-----------------|--------------------|
| Dimensions | Ø 16 mm |
| Height | 9.5 mm |
| Fastening | tape, pin |
| Colour | black |
| Box size | 451 x 241 x 298 mm |
| Box weight | 8.5 kg |
| Quantity in Box | 4140 pcs |
| ROHS compliant | yes ⓘ |



MATERIAL SPECIFICATIONS:

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



| INDEX | PART NO | DESCRIPTION | MATERIAL | COLOUR |
|-------|---------|---------------|----------|--------|
| 1 | - | TINA2-lens | PMMA | |
| 2 | C12373 | TINA2-HLD-WHT | PC | white |

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 series datasheet

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SIZE PART NUMBER

A4

1,3 g

SCALE

3:1

WEIGHT

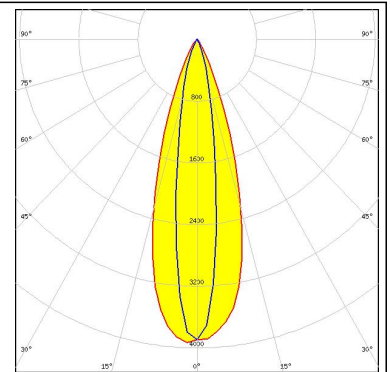
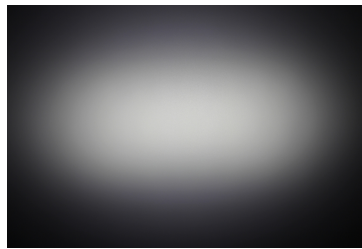
SHEET

1/1

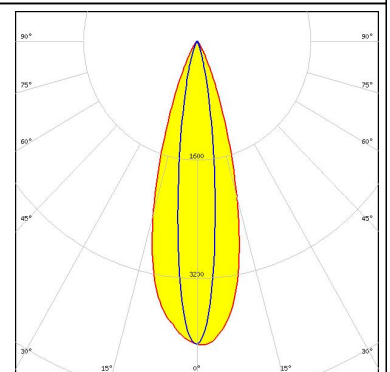
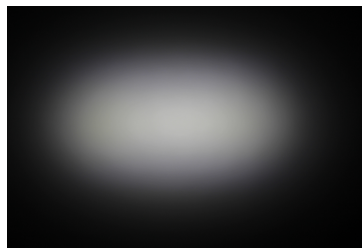
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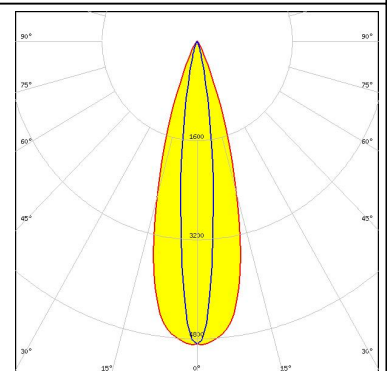
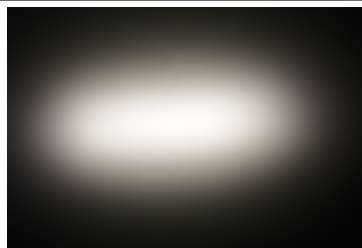
LED XB-H
 FWHM 34.0 + 17.0°
 Efficiency 84 %
 Peak intensity 3.900 cd/lm
 Required components:



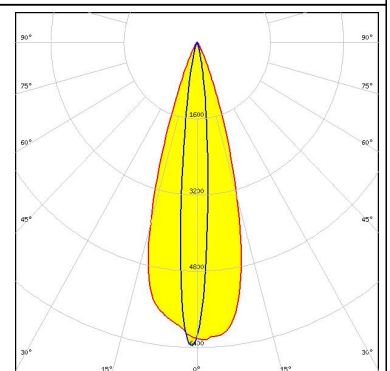
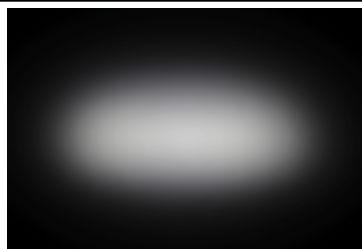
LED XD16
 FWHM 32.0 + 15.0°
 Efficiency 80 %
 Peak intensity 4.100 cd/lm
 Required components:



LED XQ-E HI
 FWHM 33.0 + 13.0°
 Efficiency 80 %
 Peak intensity 5.000 cd/lm
 Required components:



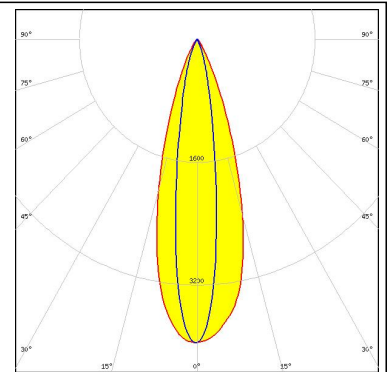
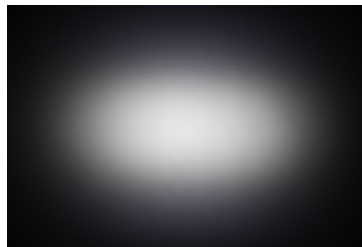
LED LUXEON CZ
 FWHM 32.0 + 10.0°
 Efficiency 88 %
 Peak intensity 6.400 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

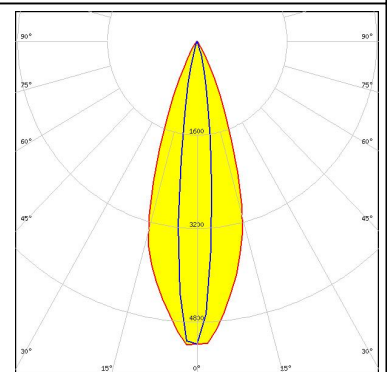
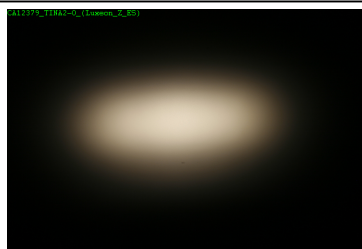
LUMILEDS

LED LUXEON TX
 FWHM 32.0 + 16.0°
 Efficiency 85 %
 Peak intensity 3.960 cd/lm
 Required components:



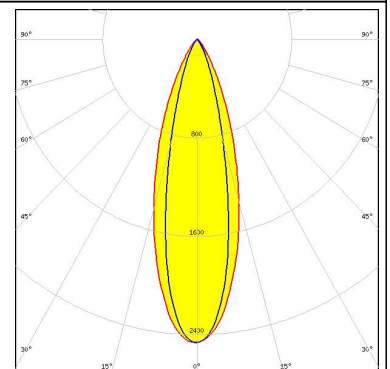
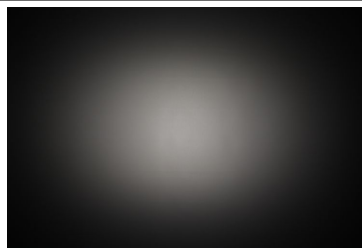
LUMILEDS

LED LUXEON Z ES
 FWHM 36.0 + 13.0°
 Efficiency 85 %
 Peak intensity 5.300 cd/lm
 Required components:



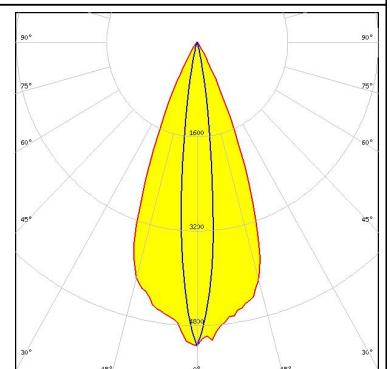
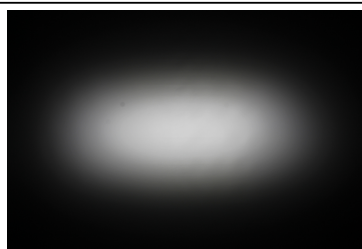
NICHIA

LED NWSx229A
 FWHM 33.0 + 24.0°
 Efficiency 82 %
 Peak intensity 2.500 cd/lm
 Required components:



OSRAM Opto Semiconductors

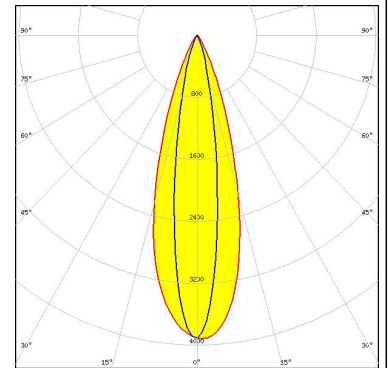
LED Oslon Black Flat
 FWHM 31.0 + 12.0°
 Efficiency 87 %
 Peak intensity 6.000 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

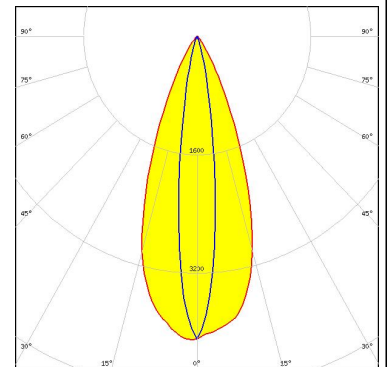
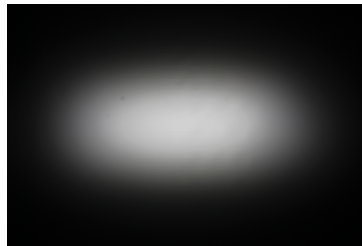
OSRAM
Opto Semiconductors

LED Oslon Square EC
 FWHM 33.0 + 17.0°
 Efficiency 84 %
 Peak intensity 3.920 cd/lm
 Required components:



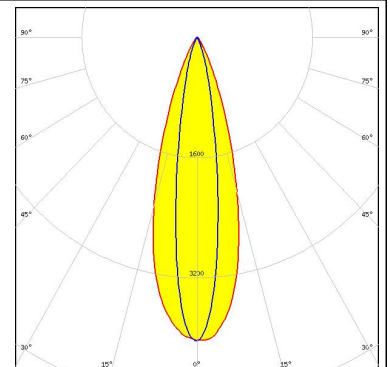
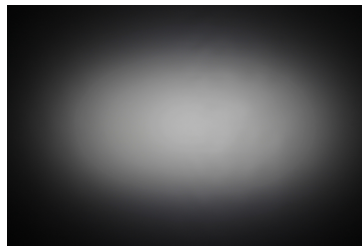
OSRAM
Opto Semiconductors

LED Oslon Square Flat
 FWHM 31.0 + 12.0°
 Efficiency 87 %
 Peak intensity 5.900 cd/lm
 Required components:



OSRAM
Opto Semiconductors

LED Oslon Square Gen3
 FWHM 32.0 + 16.0°
 Efficiency 87 %
 Peak intensity 4.000 cd/lm
 Required components:



OSRAM
Opto Semiconductors

LED Oslon Square PC
 FWHM 33.0 + 13.0°
 Efficiency 87 %
 Peak intensity 3.750 cd/lm
 Required components:

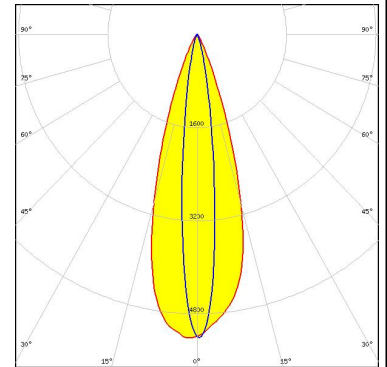
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED Oslon SSL 150
FWHM 38.0 + 13.0°
Efficiency 87 %
Peak intensity 3.700 cd/lm
Required components:

OSRAM
Opto Semiconductors

LED Oslon SSL 150
FWHM 33.0 + 13.0°
Efficiency 86 %
Peak intensity 5.200 cd/lm
Required components:



OSRAM
Opto Semiconductors

LED Oslon SSL 80
FWHM 35.0 + 12.0°
Efficiency 86 %
Peak intensity 3.800 cd/lm
Required components:

OSRAM
Opto Semiconductors

LED SFH 4715S
FWHM 40.0 + 16.0°
Efficiency %
Peak intensity cd/lm
Required components:

PHOTOMETRIC DATA (MEASURED):

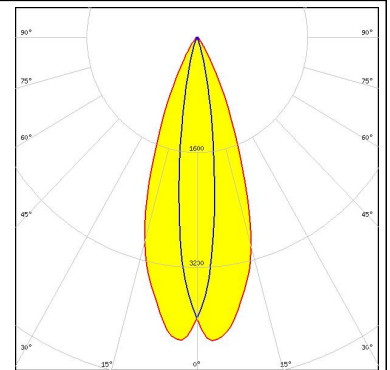
OSRAM
Opto Semiconductors

| | |
|----------------------|--------------|
| LED | SFH 4725S |
| FWHM | 31.0 + 16.0° |
| Efficiency | % |
| Peak intensity | cd/lm |
| Required components: | |

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON C
FWHM 14.0 + 37.0°
Efficiency 93 %
Peak intensity 4.200 cd/lm
Required components:

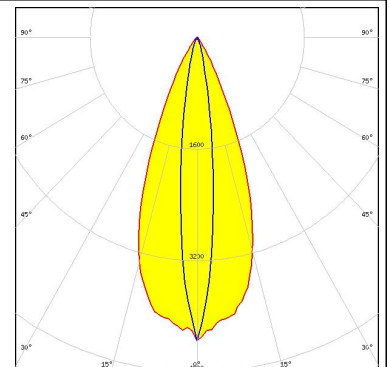


LUMILEDS

LED LUXEON IR Compact
FWHM 37.0 + 13.0°
Efficiency 82 %
Peak intensity 0.000 cd/lm
Required components:

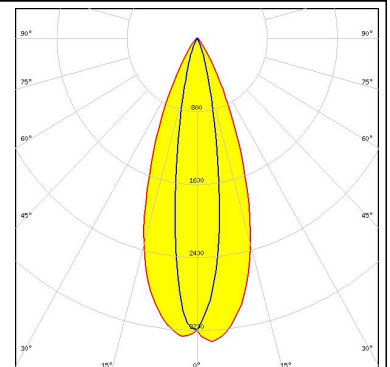
NICHIA

LED NFSx757G
FWHM 41.0 + 13.0°
Efficiency 90 %
Peak intensity 4.350 cd/lm
Required components:



NICHIA

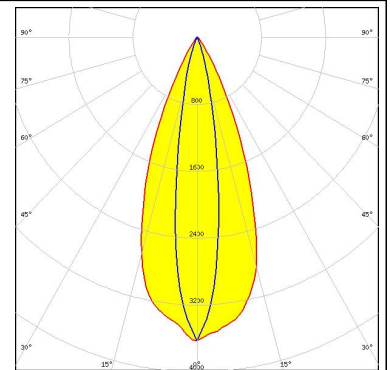
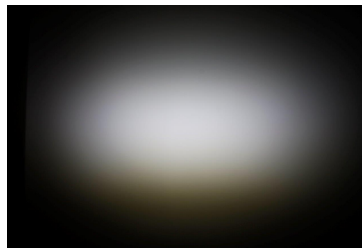
LED NVSxx19B/NVSxx19C
FWHM 39.0 + 17.0°
Efficiency 86 %
Peak intensity 3.300 cd/lm
Required components:



PHOTOMETRIC DATA (SIMULATED):

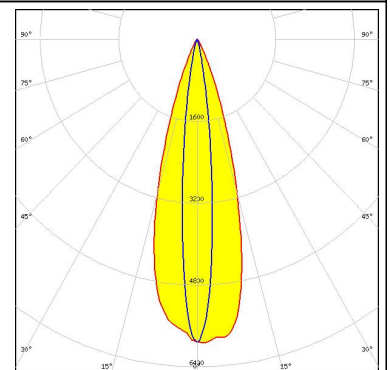
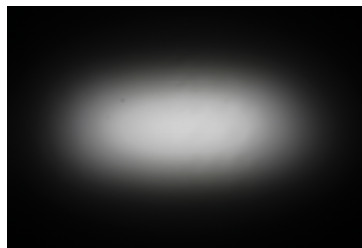
OSRAM
Opto Semiconductors

LED Duris S5 (2 chip)
FWHM 41.0 + 17.0°
Efficiency 91 %
Peak intensity 3.630 cd/lm
Required components:



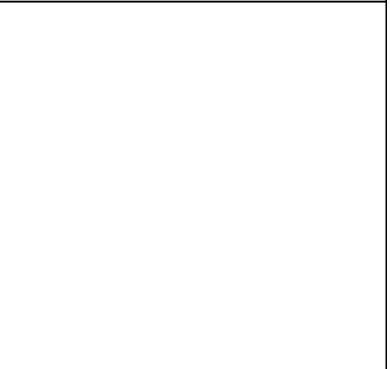
OSRAM
Opto Semiconductors

LED Oslon Black Flat
FWHM 31.0 + 12.0°
Efficiency 87 %
Peak intensity 6.200 cd/lm
Required components:



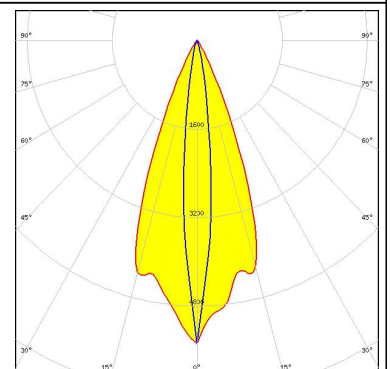
OSRAM
Opto Semiconductors

LED SFH 4770S
FWHM 41.0 + 16.0°
Efficiency 85 %
Peak intensity 3.500 cd/lm
Required components:



OSRAM
Opto Semiconductors

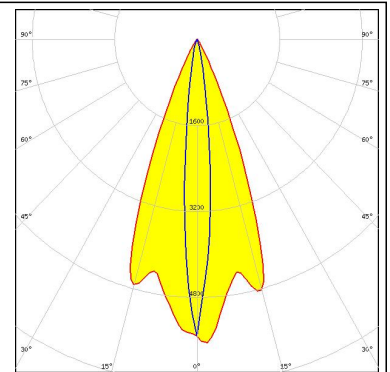
LED Synios P2720 1 mm
FWHM 41.0 + 11.0°
Efficiency 91 %
Peak intensity 5.480 cd/lm
Required components:



PHOTOMETRIC DATA (SIMULATED):

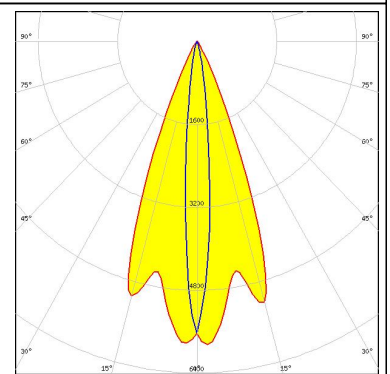
OSRAM
Opto Semiconductors

LED Synios P2720 1/2 mm
FWHM 41.0 + 10.0°
Efficiency 91 %
Peak intensity 5.650 cd/lm
Required components:



OSRAM
Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM 41.0 + 9.0°
Efficiency 91 %
Peak intensity 5.970 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:

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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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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