



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

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



VERONICA-SQ-MINI-O

~15° 50° oval beam

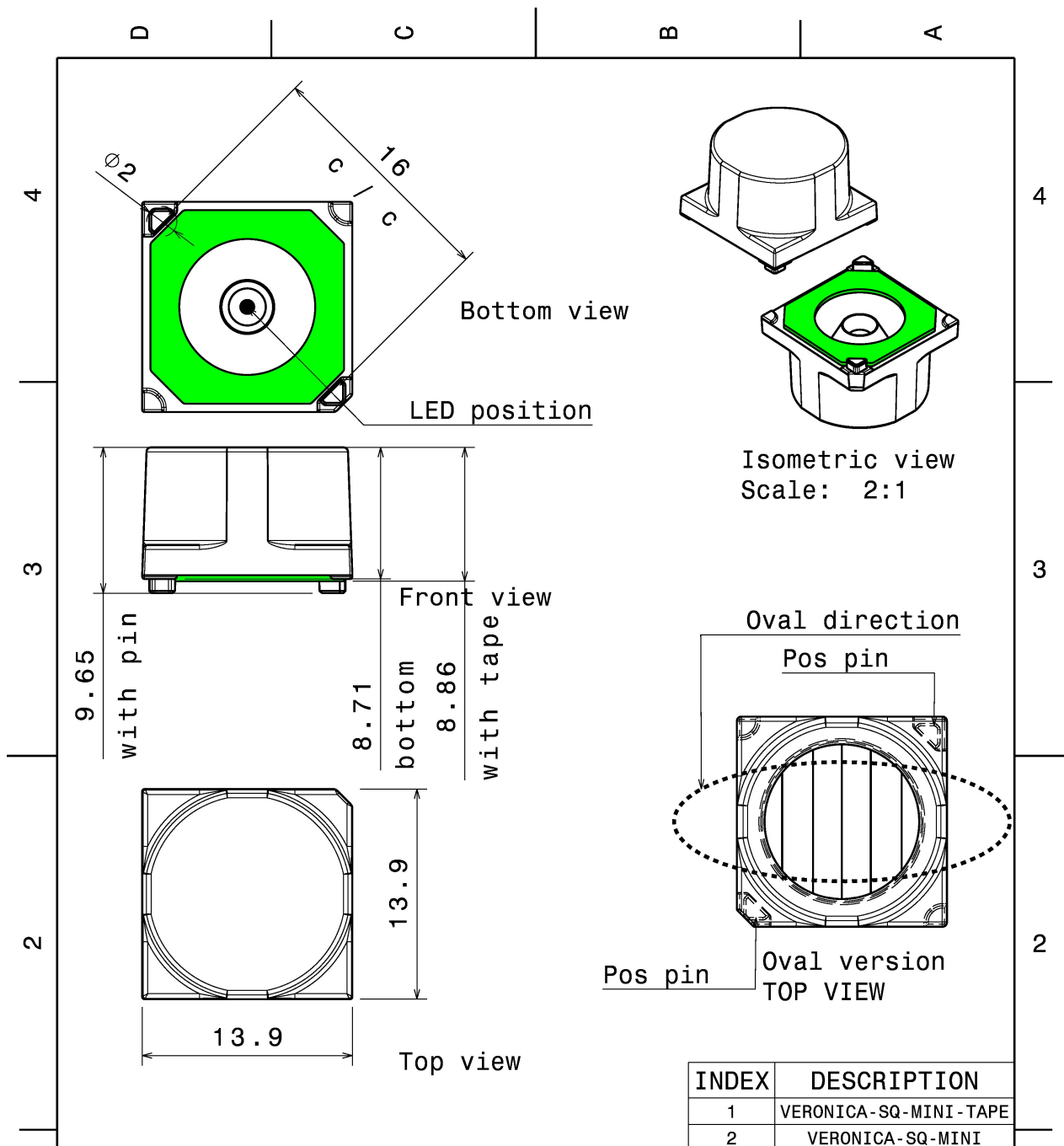
TECHNICAL SPECIFICATIONS:

| | |
|-----------------|--------------------|
| Dimensions | 13.9+13.9 mm |
| Height | 8.9 mm |
| Fastening | tape, pin |
| Colour | clear |
| Box size | 480 x 280 x 300 mm |
| Box weight | 8.9 kg |
| Quantity in Box | 5544 pcs |
| ROHS compliant | yes ⓘ |



MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour |
|-----------------------|------|--------------|--------|
| VERONICA-SQ-MINI-O | Lens | PMMA | clear |
| VERONICA-SQ-MINI-TAPE | Tape | Acrylic foam | clear |



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
 Joensuunkatu 13
 FIN 24100 SALO
 Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
VERONICA-SQ-MINI

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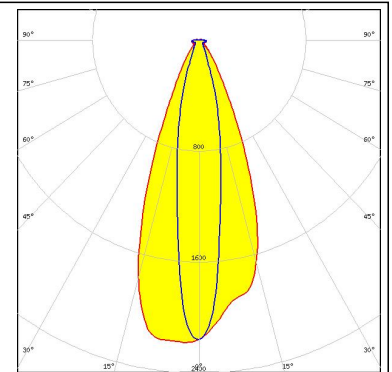
| | |
|------|-------------|
| SIZE | PART NUMBER |
| A4 | - |

| | | | | | |
|-------|-----|--------|--|-------|-----|
| SCALE | 3:1 | WEIGHT | | SHEET | 1/1 |
|-------|-----|--------|--|-------|-----|

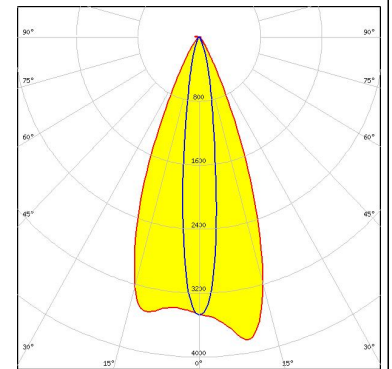
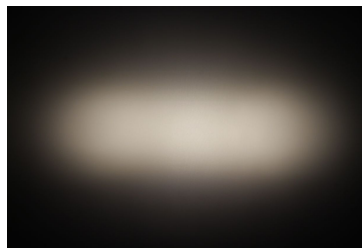
PHOTOMETRIC DATA (MEASURED):



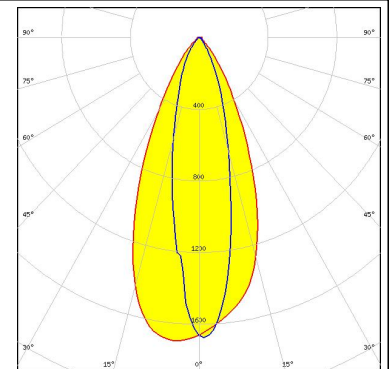
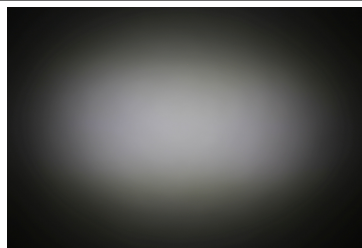
LED XD16
 FWHM 41.0 + 18.0°
 Efficiency 89 %
 Peak intensity 2.200 cd/lm
 Required components:



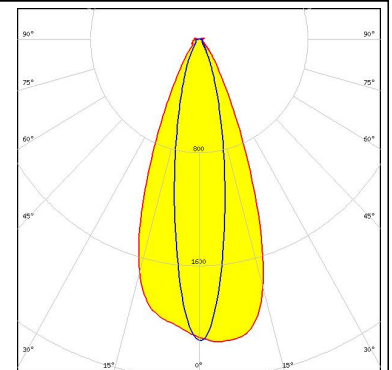
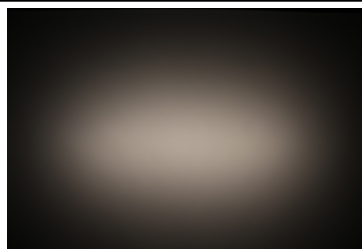
LED XP-E2
 FWHM 42.0 + 14.0°
 Efficiency 92 %
 Peak intensity 3.800 cd/lm
 Required components:



LED XP-G3
 FWHM 41.0 + 24.0°
 Efficiency 92 %
 Peak intensity 1.800 cd/lm
 Required components:



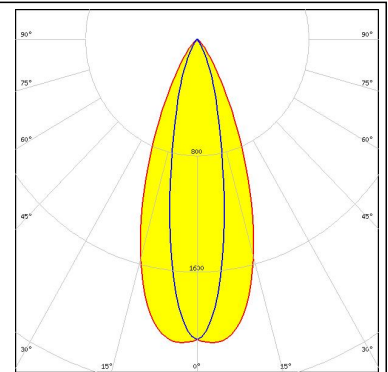
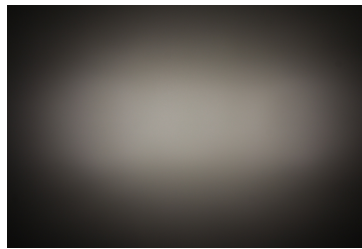
LED LUXEON Rebel
 FWHM 42.0 + 20.0°
 Efficiency 90 %
 Peak intensity 2.100 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

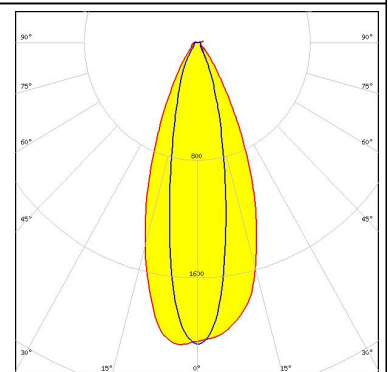
LUMILEDS

LED LUXEON Rebel ES
 FWHM 50.0 + 23.0°
 Efficiency 80 %
 Peak intensity 2.100 cd/lm
 Required components:



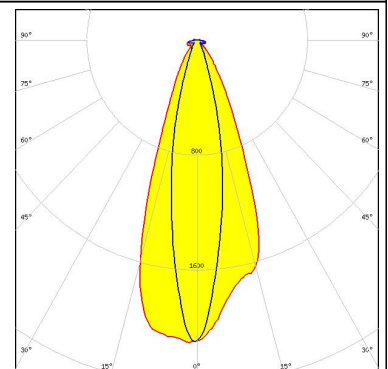
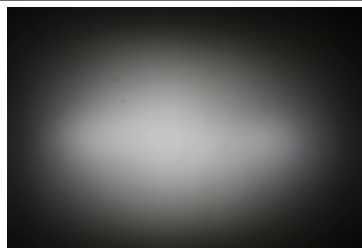
LUMILEDS

LED LUXEON TX
 FWHM 42.0 + 22.0°
 Efficiency 90 %
 Peak intensity 2.060 cd/lm
 Required components:



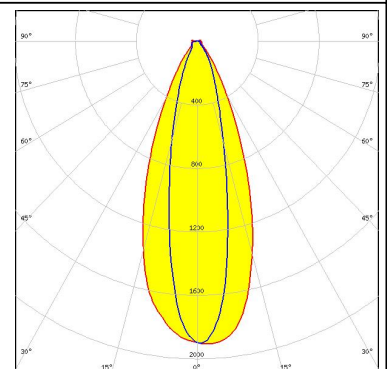
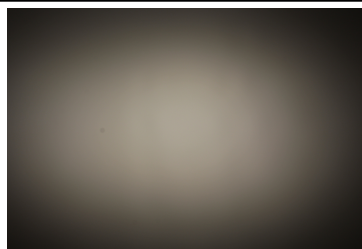
NICHIA

LED NCSxE17A
 FWHM 40.0 + 20.0°
 Efficiency 89 %
 Peak intensity 2.100 cd/lm
 Required components:



NICHIA

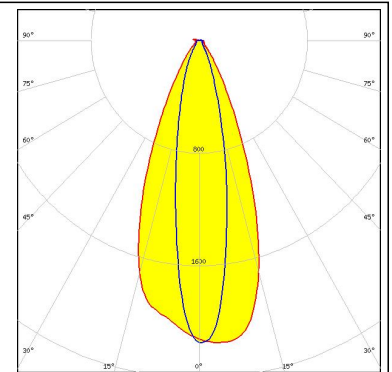
LED NVSxx19B/NVSxx19C
 FWHM 41.0 + 23.0°
 Efficiency 90 %
 Peak intensity 1.900 cd/lm
 Required components:



PHOTOMETRIC DATA (MEASURED):

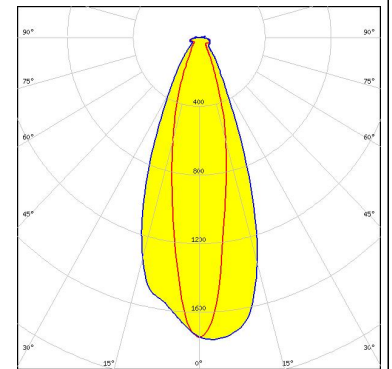
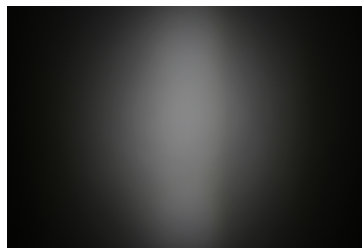
OSRAM
Opto Semiconductors

LED Oslon Square EC
 FWHM 42.0 + 20.0°
 Efficiency 89 %
 Peak intensity 2.150 cd/lm
 Required components:



SAMSUNG

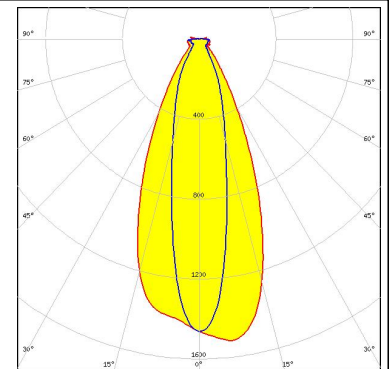
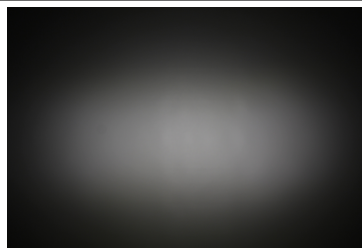
LED LH181B
 FWHM 22.0 + 41.0°
 Efficiency 91 %
 Peak intensity 1.800 cd/lm
 Required components:



SEOL

SEOUL SEMICONDUCTOR

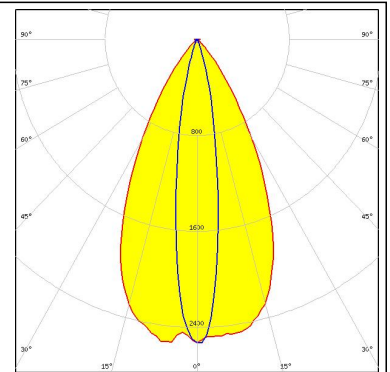
LED Z8Y22P
 FWHM 46.0 + 23.0°
 Efficiency 90 %
 Peak intensity 1.500 cd/lm
 Required components:



PHOTOMETRIC DATA (SIMULATED):

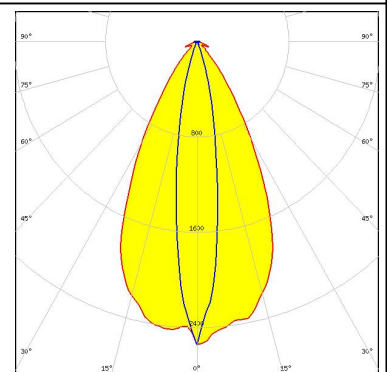
LUMILEDS

LED LUXEON C
FWHM 53.0 + 17.0°
Efficiency 87 %
Peak intensity 2.600 cd/lm
Required components:



LUMILEDS

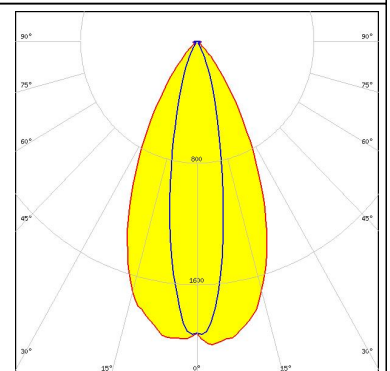
LED LUXEON Z ES
FWHM 53.0 + 16.0°
Efficiency 92 %
Peak intensity 2.600 cd/lm
Required components:



OSRAM

Opto Semiconductors

LED Oslon Square Gen3
FWHM 48.0 + 20.0°
Efficiency 81 %
Peak intensity 2.000 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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