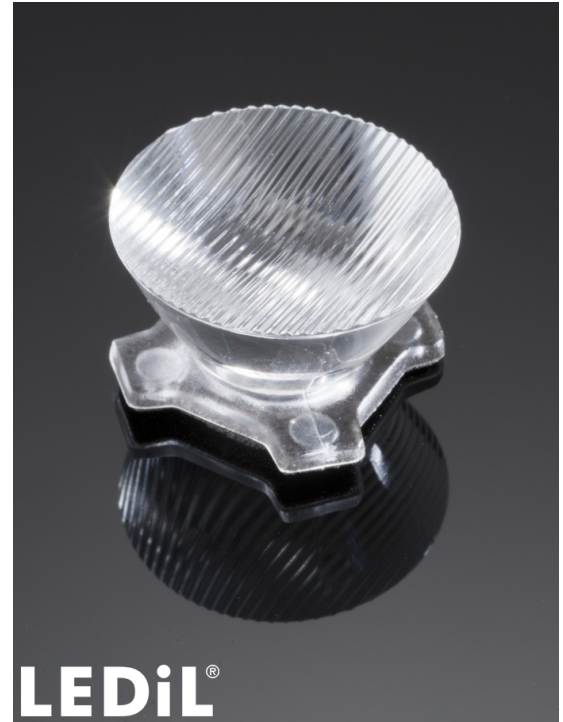


HEIDI-O-90

~13° x 45° oval beam optimized for Cree XP-G and XP-E. Variant with beam direction rotated 90°.

TECHNICAL SPECIFICATIONS:

| | |
|----------------|-----------|
| Dimensions | Ø 21.6 mm |
| Height | 12.1 mm |
| Fastening | tape, pin |
| ROHS compliant | yes ⓘ |

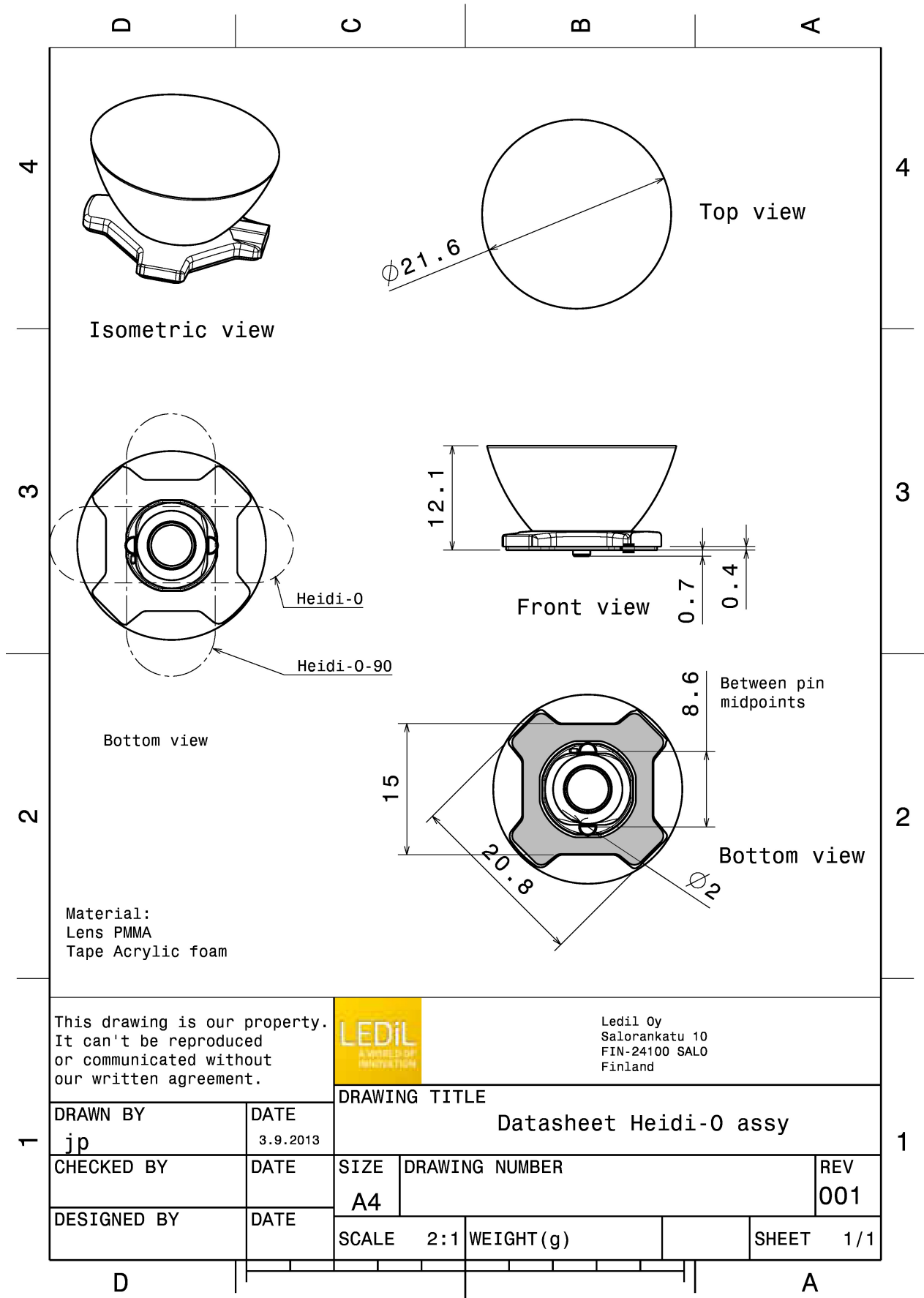


MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|------------|-------------|--------------|--------|--------|
| HEIDI-O-90 | Single lens | PMMA | clear | |
| HEIDI-TAPE | Tape | Acrylic foam | black | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| CA11267_HEIDI-O-90 | Single lens | 3264 | 204 | 204 | 10.4 |
| » Box size: 480 x 280 x 300 mm | | | | | |



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Finland

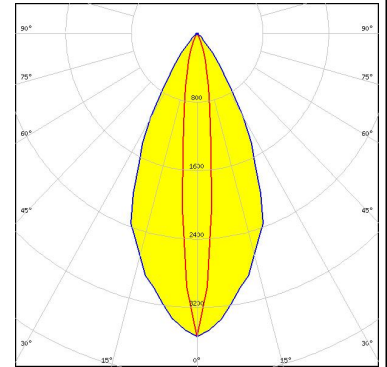
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|----------------|------|------------------|---|--------------|------------|
| DRAWN BY jp | | DATE 3.9.2013 | DRAWING TITLE Datasheet Heidi-0 assy | | |
| CHECKED BY | DATE | SIZE A4 | DRAWING NUMBER | | REV 001 |
| DESIGNED BY | DATE | SCALE 2:1 | WEIGHT (g) | SHEET 1/1 | |

See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

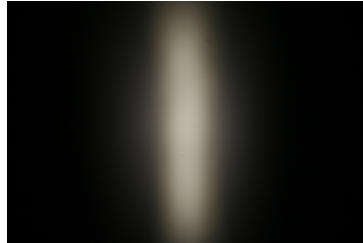
CREE LED

LED XB-D White
 FWHM / FWTM 12.0 + 49.0° / 34.0 + 78.0°
 Efficiency 87 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



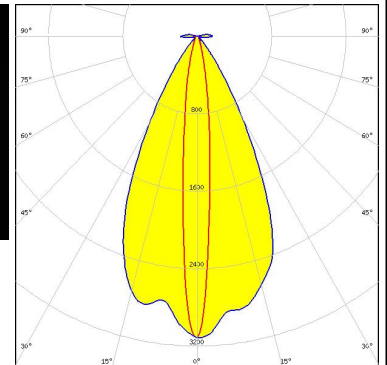
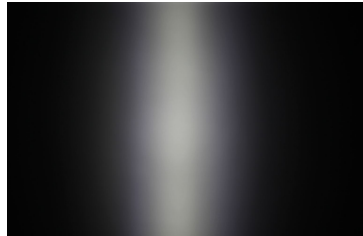
CREE LED

LED XB-H
 FWHM / FWTM 11.0 + 52.0° / 34.0 + 80.0°
 Efficiency 80 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



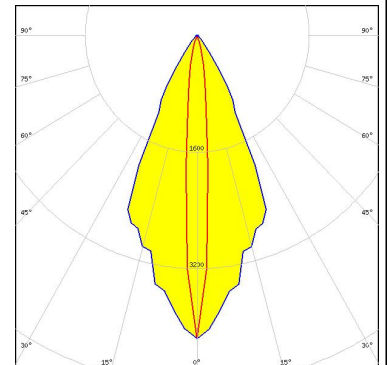
CREE LED

LED XD16
 FWHM / FWTM 11.0 + 52.0° / 30.0 + 76.0°
 Efficiency 88 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

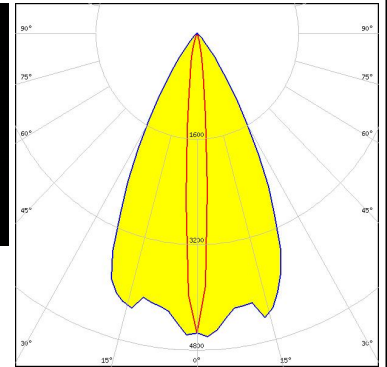
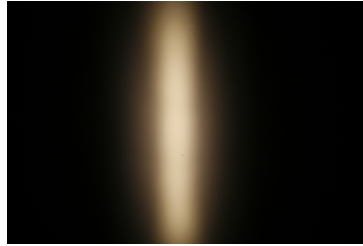
LED XP-E
 FWHM / FWTM 9.0 + 50.0° / 25.0 + 72.0°
 Efficiency 87 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

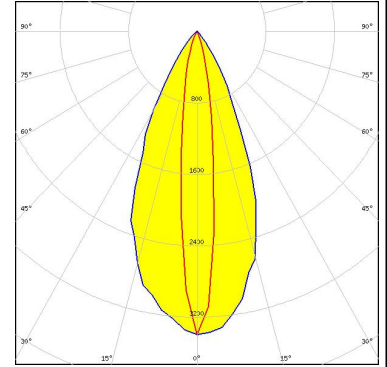
CREE LED

LED XP-E2
 FWHM / FWTM 9.0 + 55.0° / 23.0 + 76.0°
 Efficiency 84 %
 Peak intensity 4.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



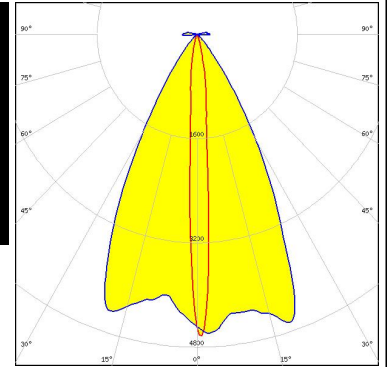
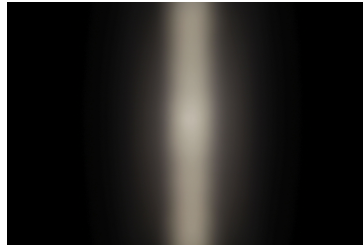
CREE LED

LED XP-G
 FWHM / FWTM 14.0 + 44.0° / 32.0 + 70.0°
 Efficiency 87 %
 Peak intensity 3.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



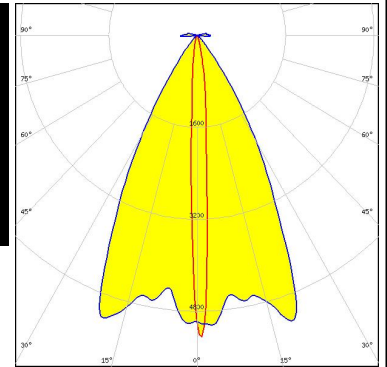
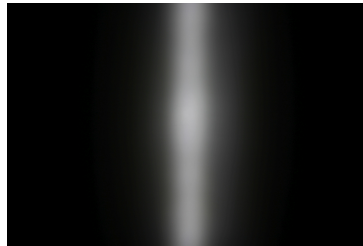
CREE LED

LED XQ-E HD
 FWHM / FWTM 7.0 + 56.0° / 23.0 + 77.0°
 Efficiency 94 %
 Peak intensity 4.7 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:

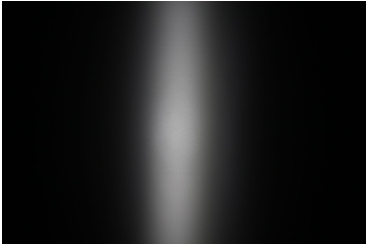
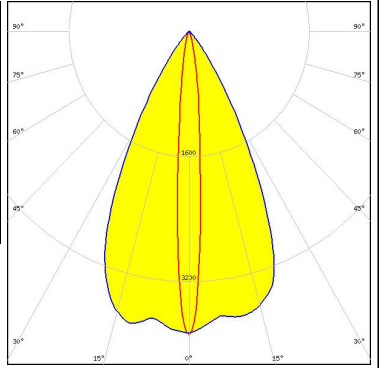

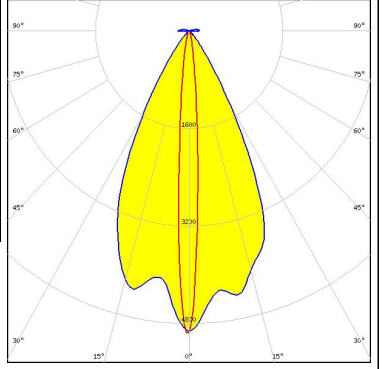

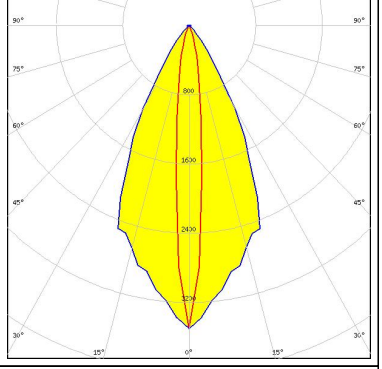

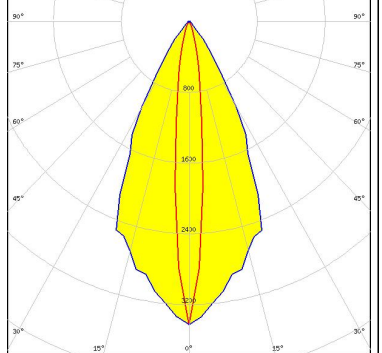


CREE LED


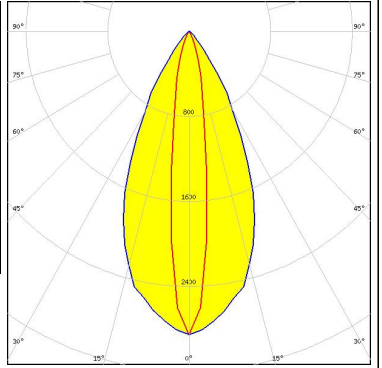

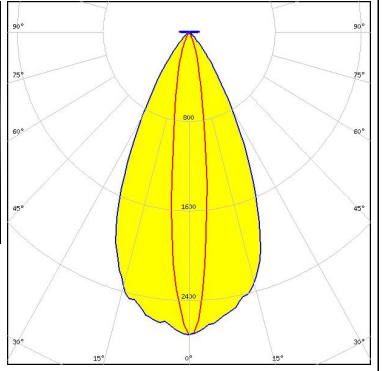

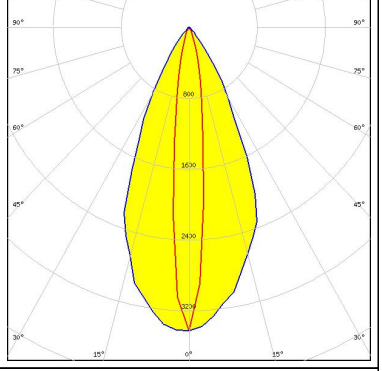

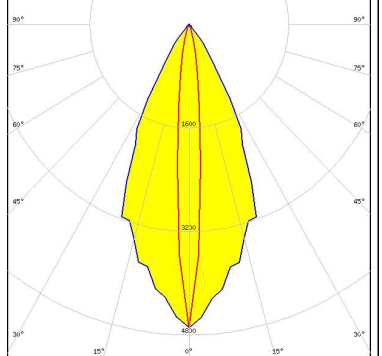
LED XQ-E HI
 FWHM / FWTM 6.0 + 57.0° / 20.0 + 76.0°
 Efficiency 94 %
 Peak intensity 5.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

| | | |
|--|--|---|
| <p>LUMILEDS</p> <p>LED LUXEON C</p> <p>FWHM / FWTM 9.0 + 54.0° / 23.0 + 76.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 3.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p>LUMILEDS</p> <p>LED LUXEON CZ</p> <p>FWHM / FWTM 8.0 + 52.0° / 19.0 + 73.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p>NICHIA</p> <p>LED NCSxx19A</p> <p>FWHM / FWTM 10.0 + 50.0° / 30.0 + 75.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |
| <p>NICHIA</p> <p>LED NVSxx19A</p> <p>FWHM / FWTM 10.0 + 49.0° / 31.0 + 76.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |

PHOTOMETRIC DATA (MEASURED):

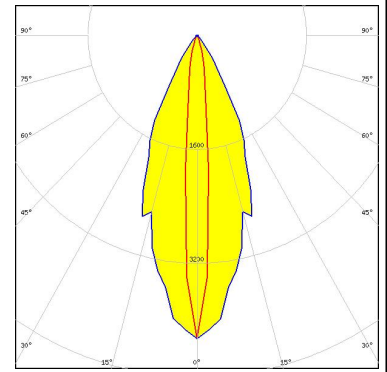
| | | |
|--|--|---|
| <p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C FWHM / FWTM 14.0 + 48.0° / 38.0 + 78.0° Efficiency 85 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM 15.0 + 51.0° / 35.0 + 78.0° Efficiency 78 % Peak intensity 2.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square EC FWHM / FWTM 12.0 + 48.0° / 34.0 + 74.0° Efficiency 86 % Peak intensity 3.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150 FWHM / FWTM 9.0 + 48.0° / 25.0 + 72.0° Efficiency 86 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p> |  |  |

PHOTOMETRIC DATA (MEASURED):

OSRAM

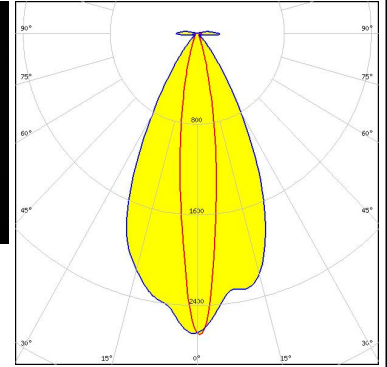
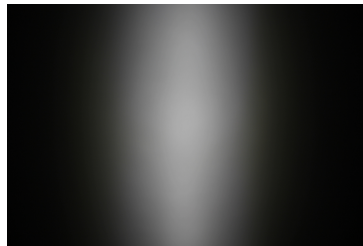
Opto Semiconductors

LED OSLOM SSL 80
 FWHM / FWTM 9.0 + 42.0° / 27.0 + 70.0°
 Efficiency 83 %
 Peak intensity 4.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



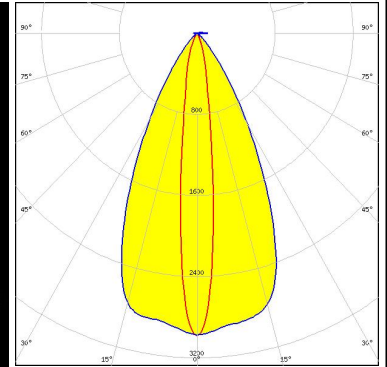
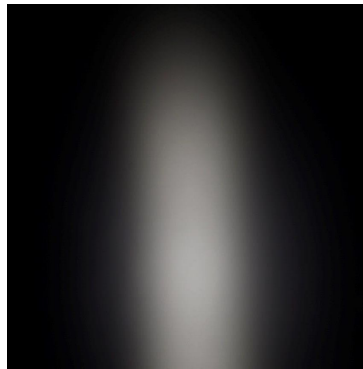
SAMSUNG

LED LH181B
 FWHM / FWTM 14.0 + 51.0° / 35.0 + 77.0°
 Efficiency 89 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



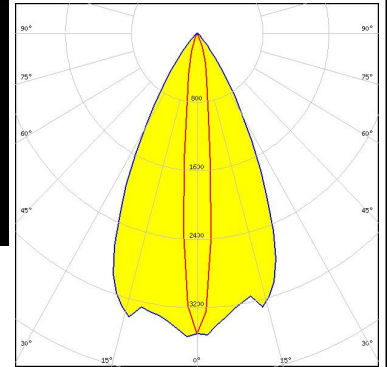
SAMSUNG

LED LH351B
 FWHM / FWTM 13.0 + 52.0° / 34.0 + 78.0°
 Efficiency 83 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

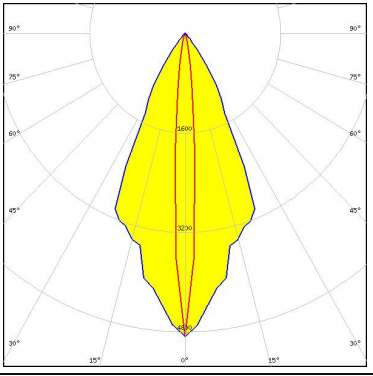
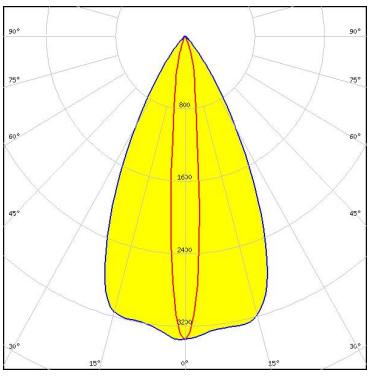
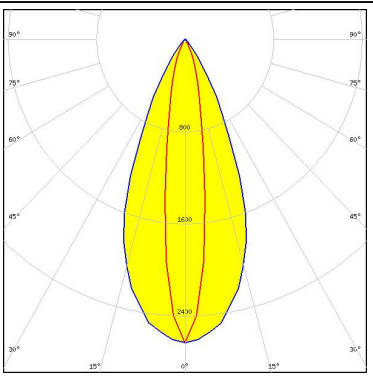


SAMSUNG

LED LH351Z
 FWHM / FWTM 11.0 + 54.0° / 31.0 + 78.0°
 Efficiency 82 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

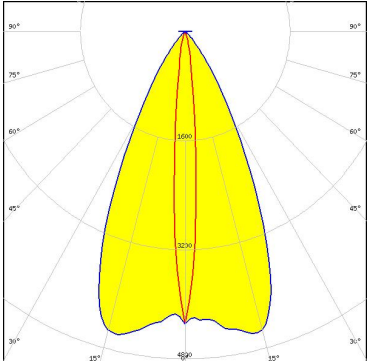
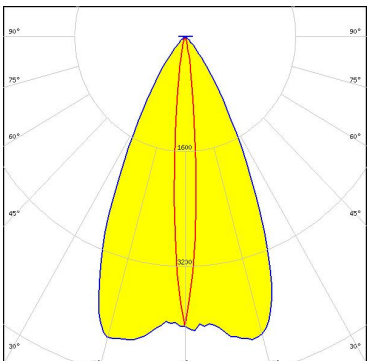
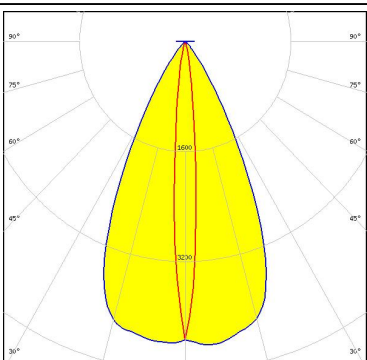
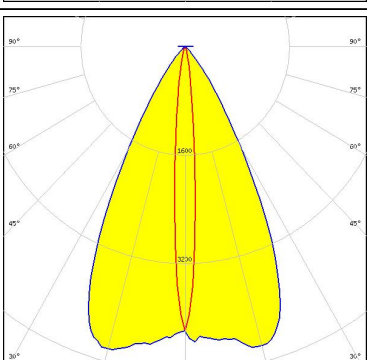


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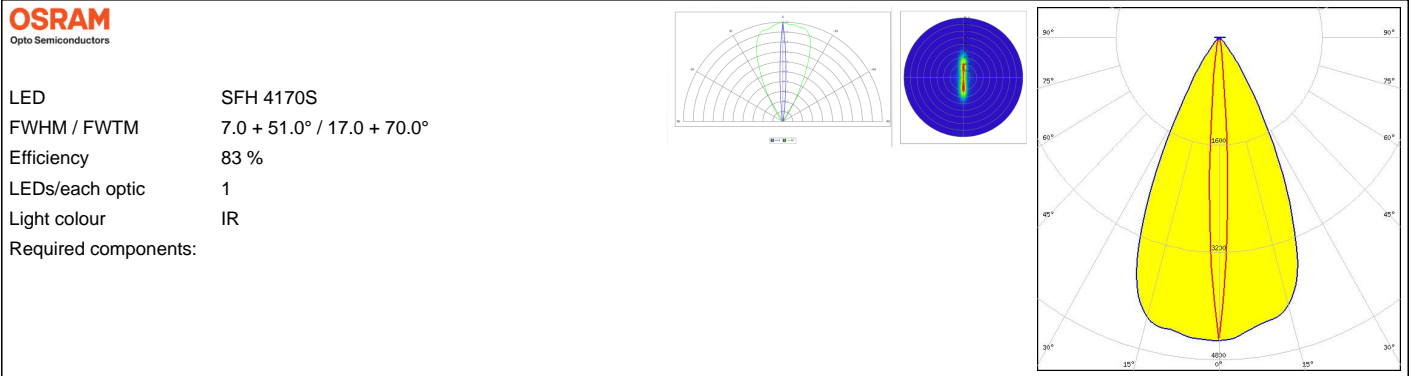
| | |
|---|---|
| <p>SEOUL SEMICONDUCTOR</p> <p>LED Z5</p> <p>FWHM / FWTM 8.0 + 50.0° / 21.0 + 72.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 11.0 + 53.0° / 31.0 + 77.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>SHARP</p> <p>LED Double Dome (GM2BB)</p> <p>FWHM / FWTM 16.0 + 44.0° / 40.0 + 70.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 2.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |



PHOTOMETRIC DATA (SIMULATED):

| | |
|---|---|
| <p>LUMILEDS</p> <p>LED LUXEON SunPlus 20 Line (120 deg)</p> <p>FWHM / FWTM 9.0 + 52.0° / 22.0 + 76.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>LUMILEDS</p> <p>LED LUXEON SunPlus 20 Line (150 deg)</p> <p>FWHM / FWTM 9.0 + 52.0° / 20.0 + 76.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 4.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 8.7 + 52.0° / 21.0 + 74.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 7.9 + 55.0° / 20.0 + 77.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |

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.

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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

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[CA16435_LXP2-SS-WAS](#) [CN16210_GABRIELLA-MIDI-W](#) [CP17137_CARMEN-M2-C](#) [CA16015_STRADA-SQ-SCL](#) [CP17594_TINA-SC-](#)
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[CS16323_STRADELLA-IP-28-HB-M](#) [FN14976_STELLA-DWC2](#) [FN15264_STELLA-HB-WWW](#) [CA15584_ZORYA-MINI-TAPE](#)
[FA15229_ROSE-MRK-S](#) [FA15232_ROSE-MRK-M](#) [FA15233_ROSE-MRK-W](#) [FCN13552_CRYSTAL-RS](#) [FN15552_RONDA-W](#)
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[CA14509_G2-LXP2-M-P](#) [CA15231_VERONICA-SQ-MINI-W](#) [FP11002_LISA2-W-PIN](#)