

## HEIDI-O

~50° x 11° oval beam

### SPECIFICATION:

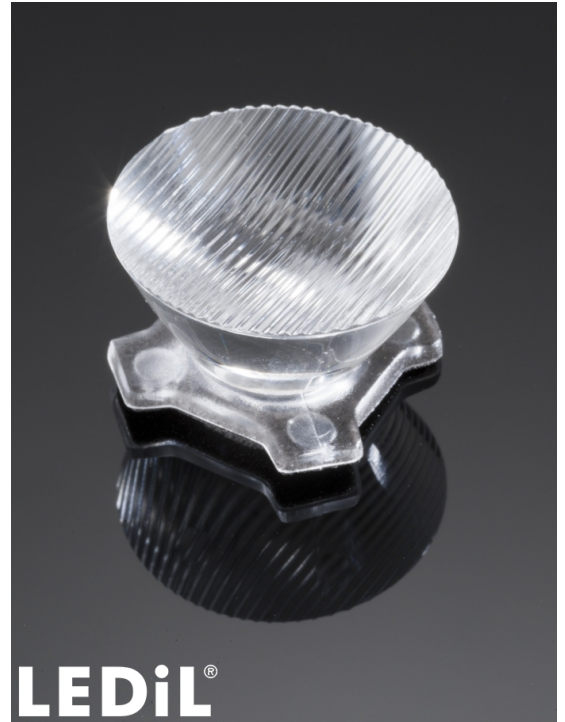
|                |           |
|----------------|-----------|
| Dimensions     | Ø 21.6 mm |
| Height         | 11.9 mm   |
| Fastening      | tape, pin |
| ROHS compliant | yes ⓘ     |

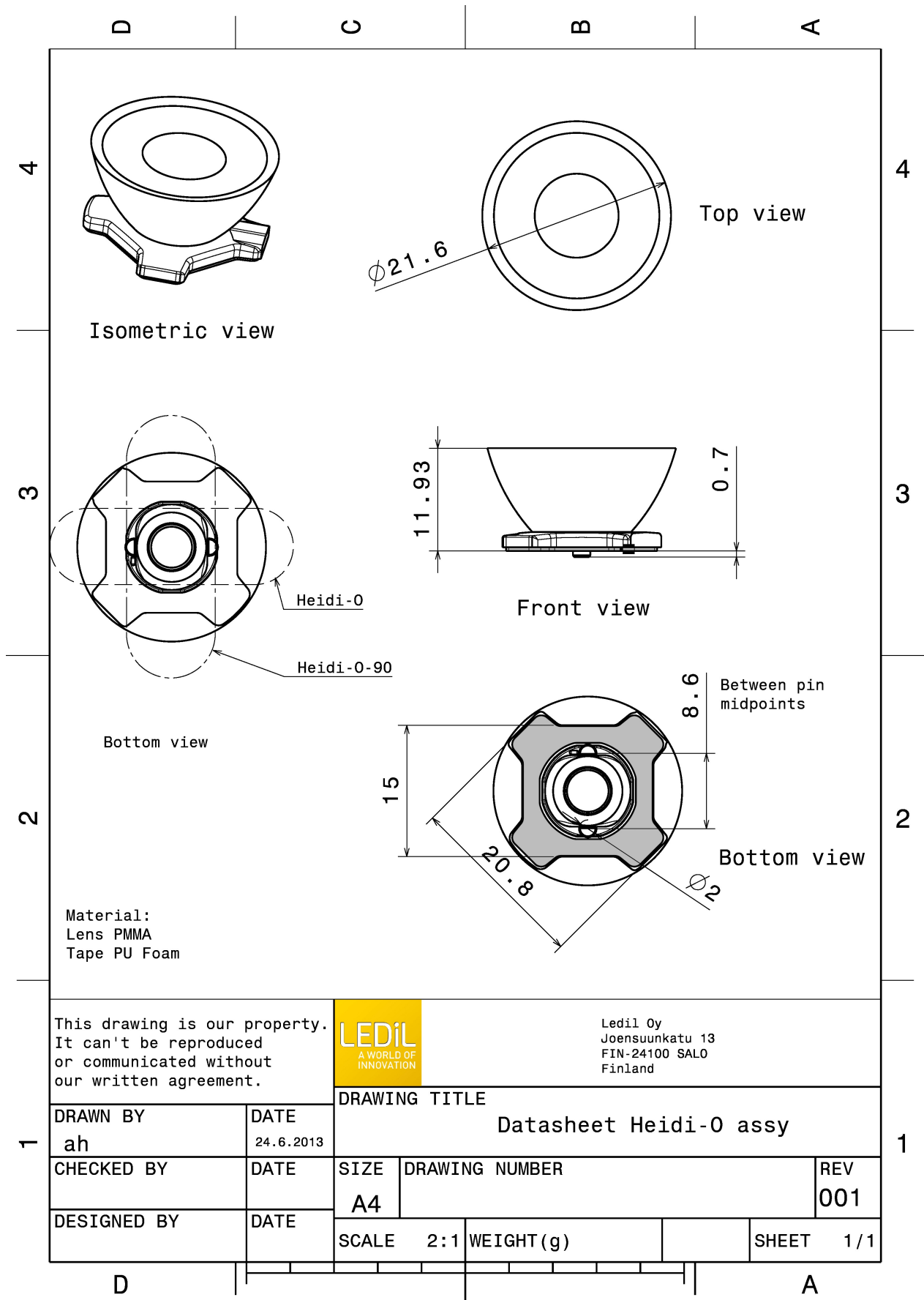
### MATERIALS:

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

### ORDERING INFORMATION:

| Component                      |             | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| CA11266_HEIDI-O                | Single lens | 3264       | 204 | 204 | 9.7             |
| » Box size: 480 x 280 x 300 mm |             |            |     |     |                 |



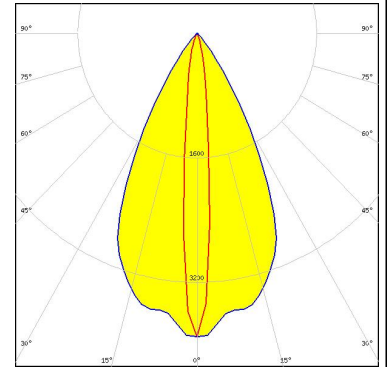


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

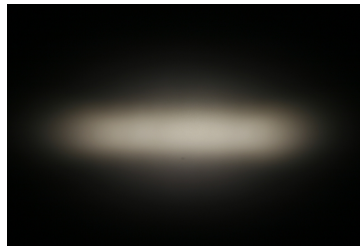
#### CREE → LED

LED XB-D  
 FWHM / FWTM 54.0 + 10.0° / 77.0 + 27.0°  
 Efficiency 87 %  
 Peak intensity 3.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



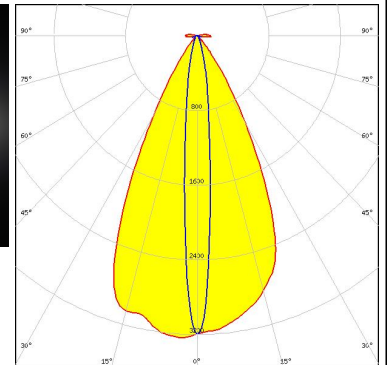
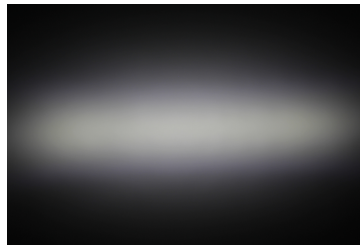
#### CREE → LED

LED XB-H  
 FWHM / FWTM 53.0 + 11.0° / 78.0 + 34.0°  
 Efficiency 83 %  
 Peak intensity 3.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



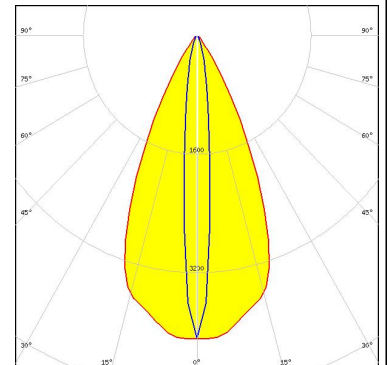
#### CREE → LED

LED XD16  
 FWHM / FWTM 52.0 + 10.0° / 75.0 + 30.0°  
 Efficiency 89 %  
 Peak intensity 3.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE → LED

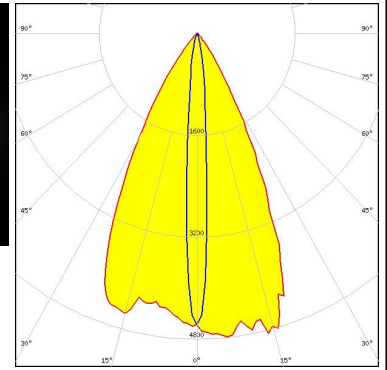
LED XP-E  
 FWHM / FWTM 48.0 + 10.0° / 70.0 + 30.0°  
 Efficiency 87 %  
 Peak intensity 4.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

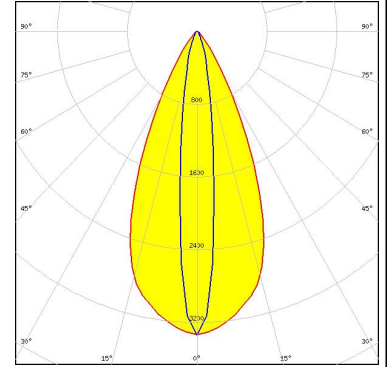
#### CREE → LED

LED XP-E2  
 FWHM / FWTM 54.0 + 9.0° / 75.0 + 23.0°  
 Efficiency 85 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



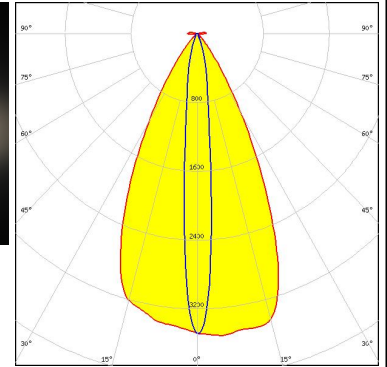
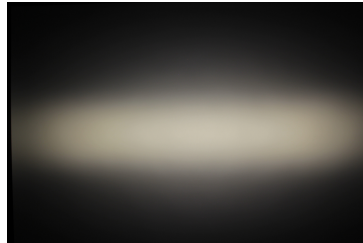
#### CREE → LED

LED XP-G  
 FWHM / FWTM 47.0 + 14.0° / 72.0 + 36.0°  
 Efficiency 87 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



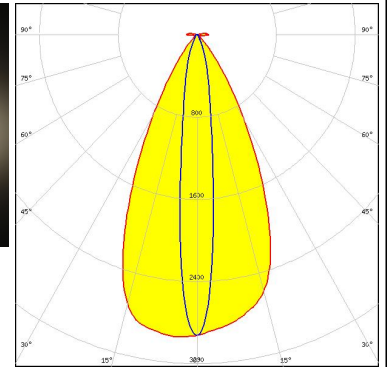
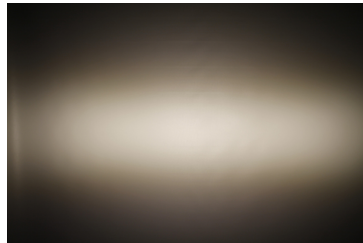
#### CREE → LED

LED XP-G2  
 FWHM / FWTM 52.0 + 11.0° / 76.0 + 32.0°  
 Efficiency 91 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE → LED

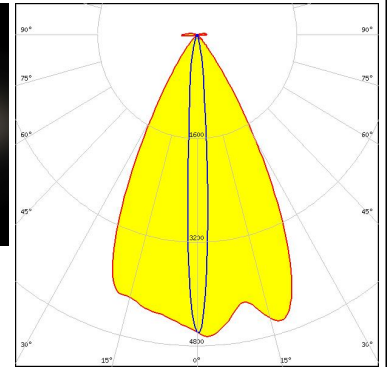
LED XP-G3  
 FWHM / FWTM 51.0 + 13.0° / 77.0 + 37.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

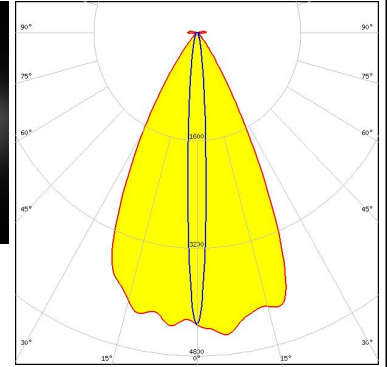
#### CREE LED

LED XQ-E HD  
 FWHM / FWTM 55.0 + 8.0° / 75.0 + 22.0°  
 Efficiency 93 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



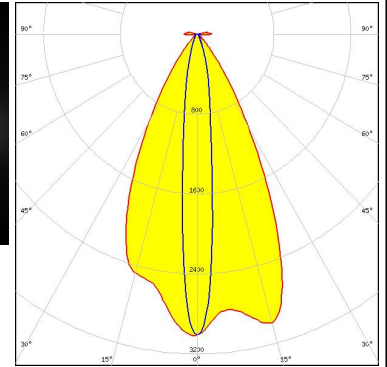
#### CREE LED

LED XQ-E HI  
 FWHM / FWTM 53.0 + 7.0° / 73.0 + 21.0°  
 Efficiency 90 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



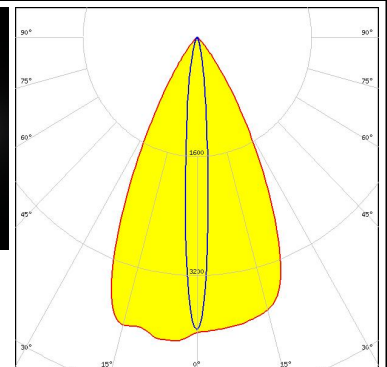
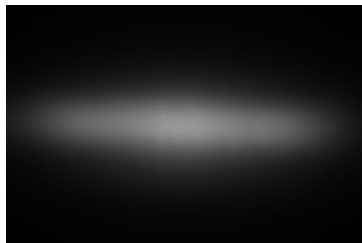
#### CREE LED

LED XT-E  
 FWHM / FWTM 52.0 + 12.0° / 78.0 + 35.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

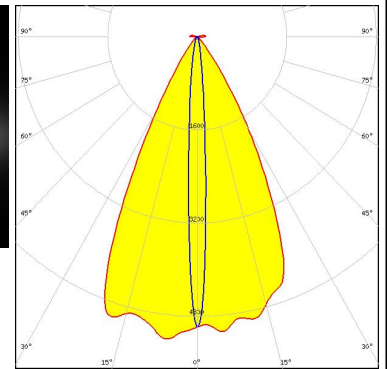
LED LUXEON C  
 FWHM / FWTM 53.0 + 9.0° / 75.0 + 25.0°  
 Efficiency 81 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

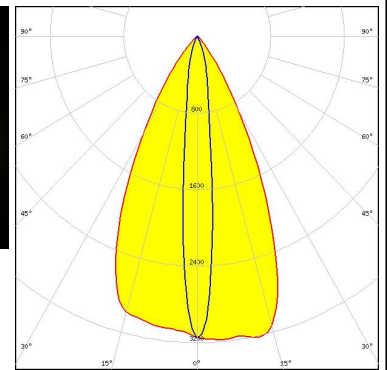
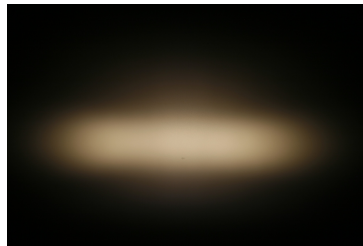
#### LUMILEDS

LED LUXEON CZ  
 FWHM / FWTM 53.0 + 7.0° / 72.0 + 20.0°  
 Efficiency 92 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



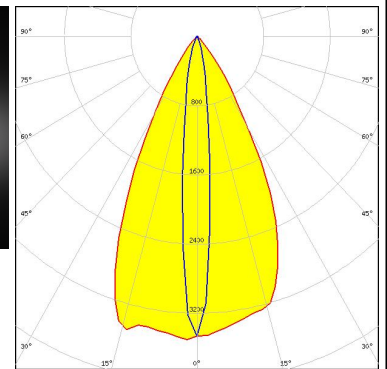
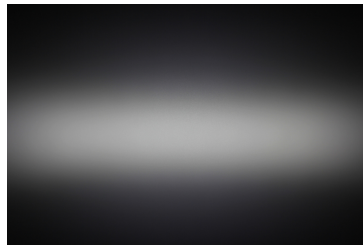
#### LUMILEDS

LED LUXEON T  
 FWHM / FWTM 52.0 + 12.0° / 76.0 + 33.0°  
 Efficiency 81 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



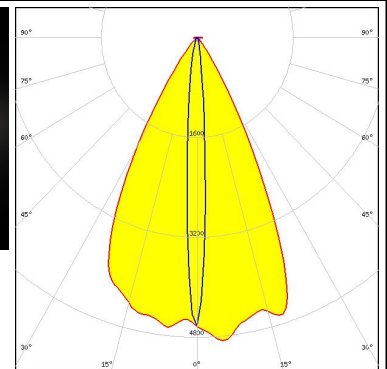
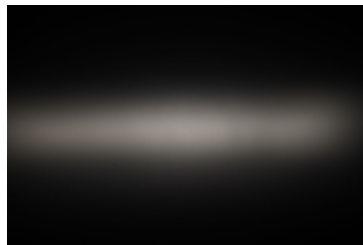
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 54.0 + 12.0° / 77.0 + 31.0°  
 Efficiency 82 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

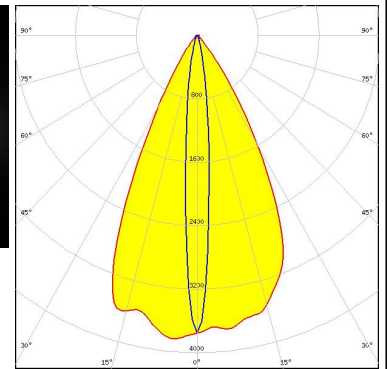
LED LUXEON Z  
 FWHM / FWTM 55.0 + 7.5° / 73.0 + 20.0°  
 Efficiency 87 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

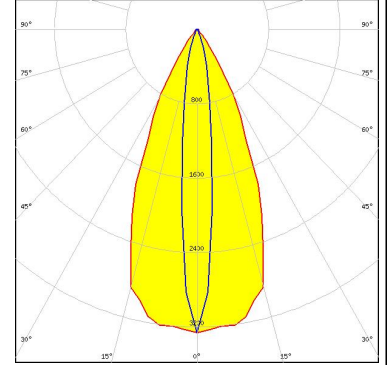
#### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 54.0 + 9.6° / 74.0 + 25.0°  
 Efficiency 85 %  
 Peak intensity 3.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



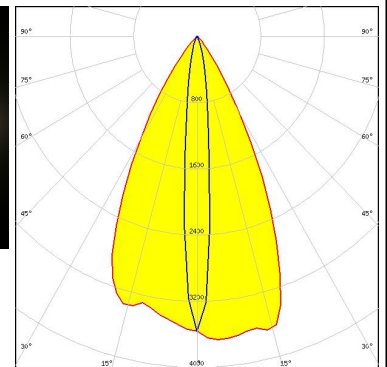
#### NICHIA

LED NCSxx19A  
 FWHM / FWTM 46.0 + 12.0° / 70.0 + 34.0°  
 Efficiency 82 %  
 Peak intensity 3.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



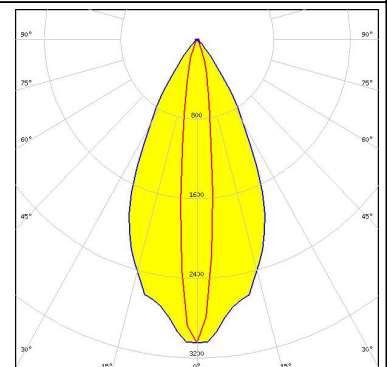
#### NICHIA

LED NCSxx19B  
 FWHM / FWTM 55.0 + 11.0° / 77.0 + 29.0°  
 Efficiency 83 %  
 Peak intensity 3.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:


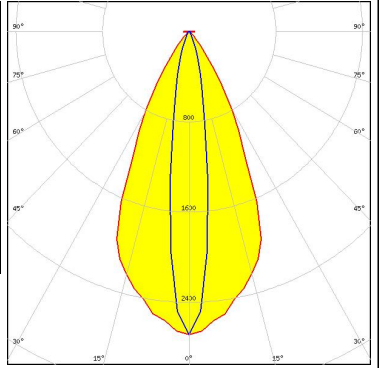

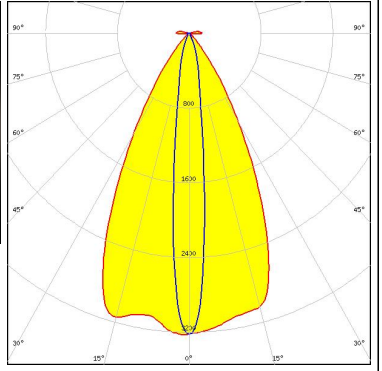
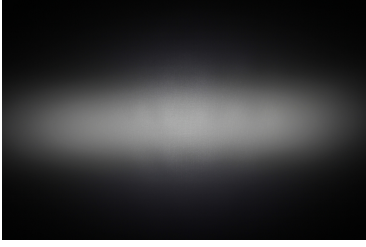
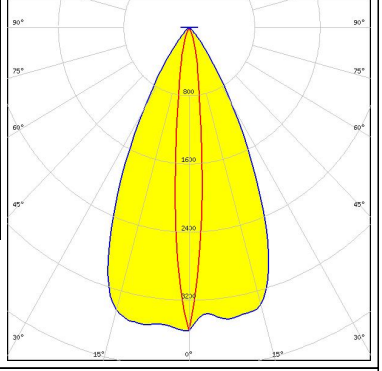

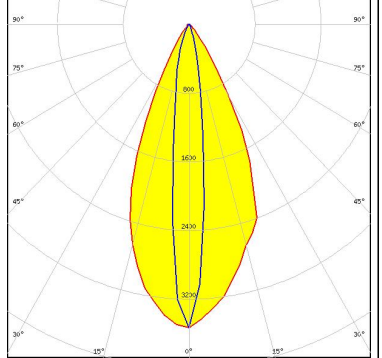


#### NICHIA

LED NVSxx19A  
 FWHM / FWTM 50.0 + 12.0° / 76.0 + 35.0°  
 Efficiency 82 %  
 Peak intensity 3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C<br/>           FWHM / FWTM 48.0 + 15.0° / 74.0 + 36.0°<br/>           Efficiency 82 %<br/>           Peak intensity 2.7 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>                                 |    |    |
| <p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C<br/>           FWHM / FWTM 54.0 + 12.0° / 78.0 + 33.0°<br/>           Efficiency 92 %<br/>           Peak intensity 3.2 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>                                 |   |   |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3<br/>           FWHM / FWTM 52.0 + 13.0° / 80.0 + 32.0°<br/>           Efficiency 80 %<br/>           Peak intensity 3.7 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p> |  |  |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED OSLOM Square EC<br/>           FWHM / FWTM 48.0 + 12.0° / 74.0 + 30.0°<br/>           Efficiency 86 %<br/>           Peak intensity 3.5 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>            |  |  |

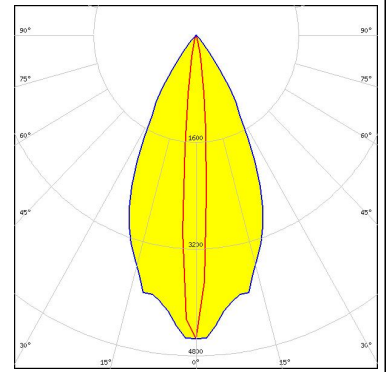


### OPTICAL RESULTS (MEASURED):

#### OSRAM

Opto Semiconductors

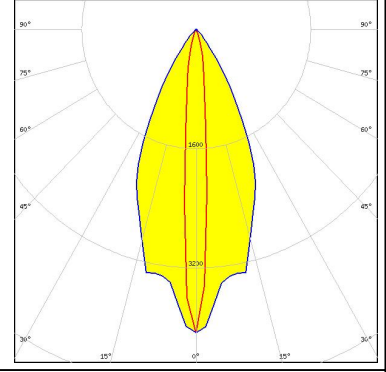
LED OSLON SSL 150  
 FWHM / FWTM 50.0 + 8.0° / 75.0 + 22.0°  
 Efficiency 85 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

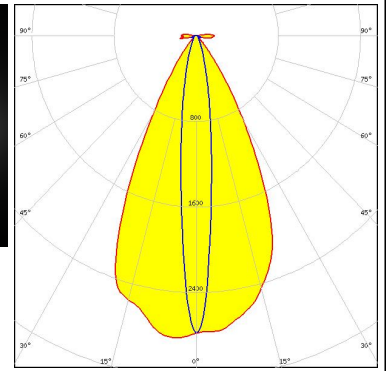
Opto Semiconductors

LED OSLON SSL 80  
 FWHM / FWTM 47.0 + 8.0° / 73.0 + 27.0°  
 Efficiency 83 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



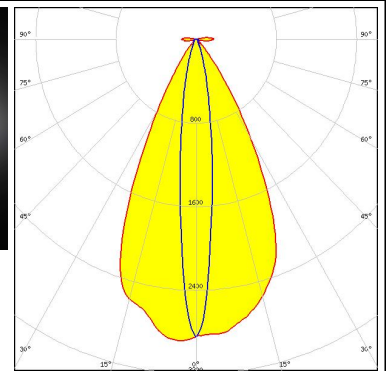
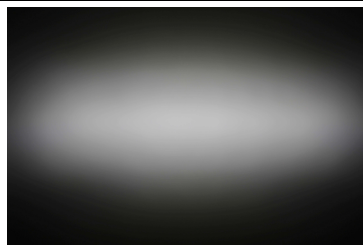
#### SAMSUNG

LED LH181A  
 FWHM / FWTM 52.0 + 12.0° / 76.0 + 36.0°  
 Efficiency 93 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

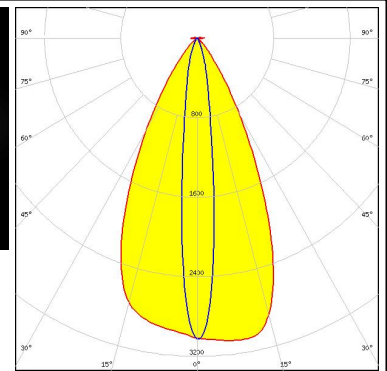
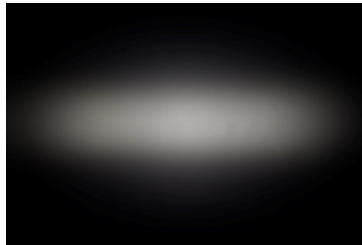
LED LH181B  
 FWHM / FWTM 53.0 + 13.0° / 75.0 + 35.0°  
 Efficiency 90 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

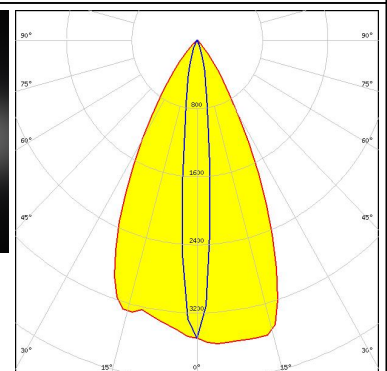
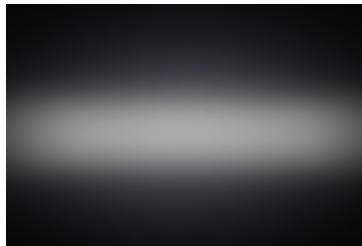
#### SAMSUNG

LED LH351B  
 FWHM / FWTM 51.0 + 13.0° / 77.0 + 34.0°  
 Efficiency 84 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



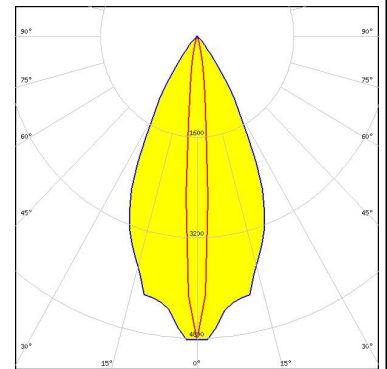
#### SAMSUNG

LED LH351Z  
 FWHM / FWTM 54.0 + 12.0° / 78.0 + 32.0°  
 Efficiency 83 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



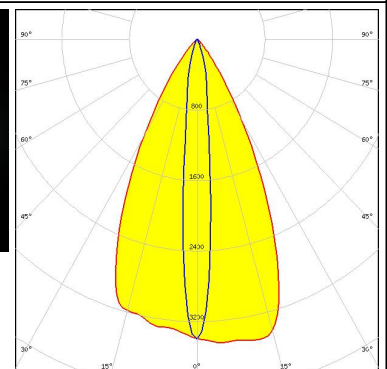
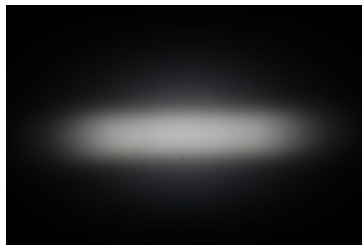
SEOUL SEMICONDUCTOR

LED Z5  
 FWHM / FWTM 50.0 + 9.0° / 74.0 + 23.0°  
 Efficiency 86 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

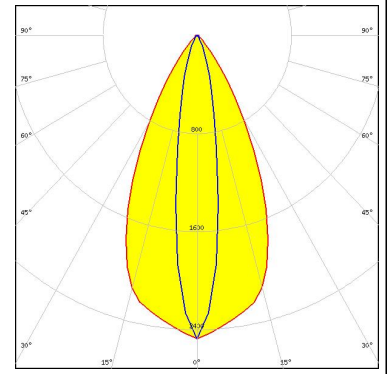
LED Z5M1/Z5M2  
 FWHM / FWTM 53.0 + 11.0° / 77.0 + 32.0°  
 Efficiency 85 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

#### SHARP

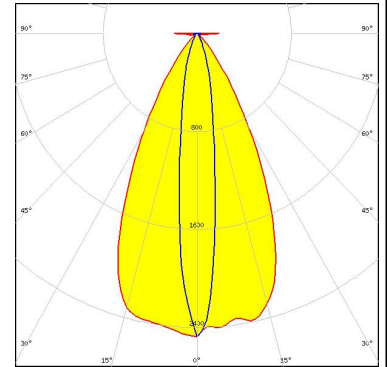
|                      |                             |
|----------------------|-----------------------------|
| LED                  | Double Dome (GM2BB)         |
| FWHM / FWTM          | 50.0 + 16.0° / 79.0 + 40.0° |
| Efficiency           | 85 %                        |
| Peak intensity       | 2.5 cd/lm                   |
| LEDs/each optic      | 1                           |
| Light colour         | White                       |
| Required components: |                             |



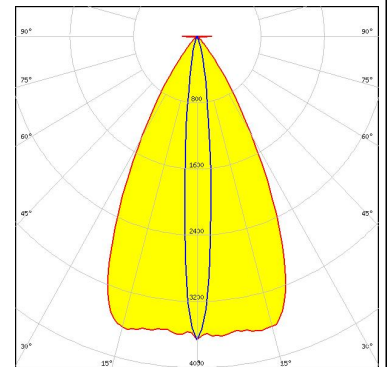
### OPTICAL RESULTS (SIMULATED):



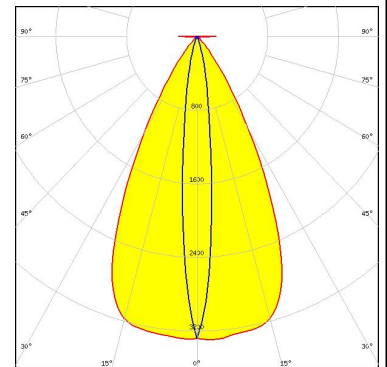
LED XHP35.2 HI  
 FWHM / FWTM 53.0 + 14.0° / 80.0 + 40.0°  
 Efficiency 89 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



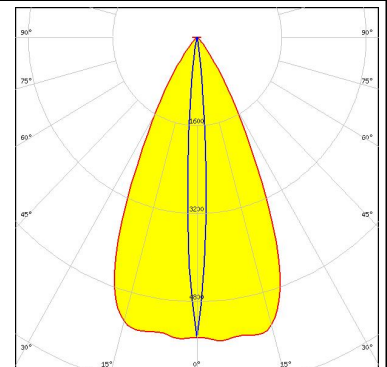
LED LUXEON 3030 HV  
 FWHM / FWTM 55.0 + 11.0° / 78.0 + 28.0°  
 Efficiency 90 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON HL2Z  
 FWHM / FWTM 54.0 + 12.0° / 76.0 + 29.0°  
 Efficiency 90 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Rubix  
 FWHM / FWTM 50.0 + 8.0° / 73.0 + 16.0°  
 Efficiency 91 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



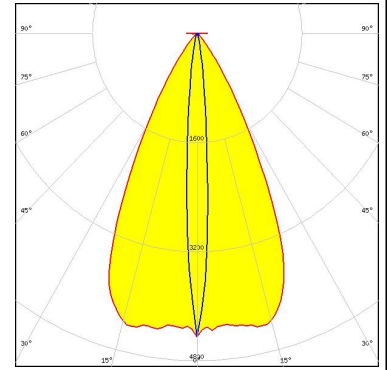
#### OPTICAL RESULTS (SIMULATED):

|   |  |
|---|--|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON SunPlus 20 Line (150 deg)</p> <p>FWHM / FWTM 52.0 + 10.0° / 76.0 + 20.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 4.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p><b>NICHIA</b></p> <p>LED NF2x757G</p> <p>FWHM / FWTM 54.0 + 12.0° / 78.0 + 29.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>                           |  |
| <p><b>NICHIA</b></p> <p>LED NFSx757G</p> <p>FWHM / FWTM 54.0 + 10.0° / 78.0 + 28.0°</p> <p>Efficiency 0 %</p> <p>Peak intensity 3.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>                            |  |
| <p><b>NICHIA</b></p> <p>LED NVSxE21A</p> <p>FWHM / FWTM 54.0 + 11.0° / 76.0 + 28.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>                           |  |

### OPTICAL RESULTS (SIMULATED):

#### OSRAM Opto Semiconductors

LED OSCONIQ P 3030  
 FWHM / FWTM 53.0 + 8.0° / 75.0 + 20.0°  
 Efficiency 89 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

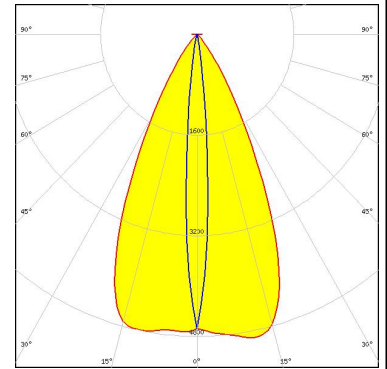


#### OSRAM Opto Semiconductors

LED OSLON Black Flat  
 FWHM / FWTM 49.7 + 7.8° / 71.9 + 18.6°  
 Efficiency 93 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

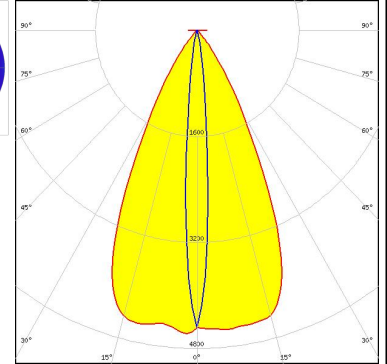
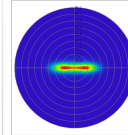
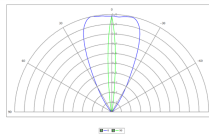
#### OSRAM Opto Semiconductors

LED OSLON SSL 150  
 FWHM / FWTM 51.0 + 8.0° / 74.0 + 18.0°  
 Efficiency 91 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:


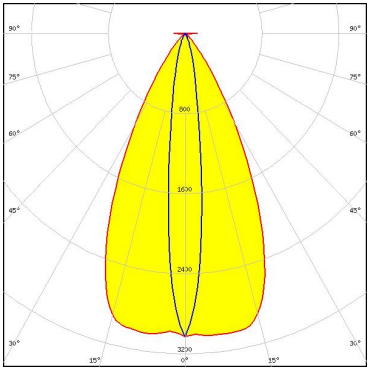

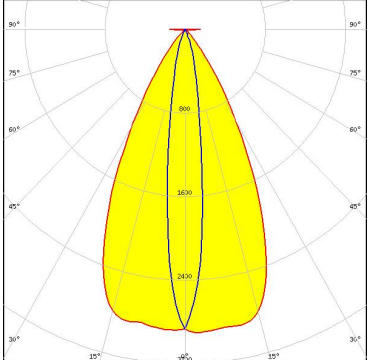


#### OSRAM Opto Semiconductors

LED SFH 4716S  
 FWHM / FWTM 52.0 + 9.0° / 74.0 + 19.0°  
 Efficiency 93 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



### OPTICAL RESULTS (SIMULATED):

|  |  |
|--|--|
| <p> SEUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 52.0 + 13.0° / 78.0 + 34.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>   |   |
| <p> SEUL SEMICONDUCTOR</p> <p>LED Z5M4</p> <p>FWHM / FWTM 54.0 + 14.0° / 78.0 + 34.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |

### 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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