

## EVA-D

~16° diffused spot beam

### SPECIFICATION:

|                |           |
|----------------|-----------|
| Dimensions     | Ø 35.0 mm |
| Height         | 16.4 mm   |
| Fastening      | glue      |
| ROHS compliant | yes ⓘ     |

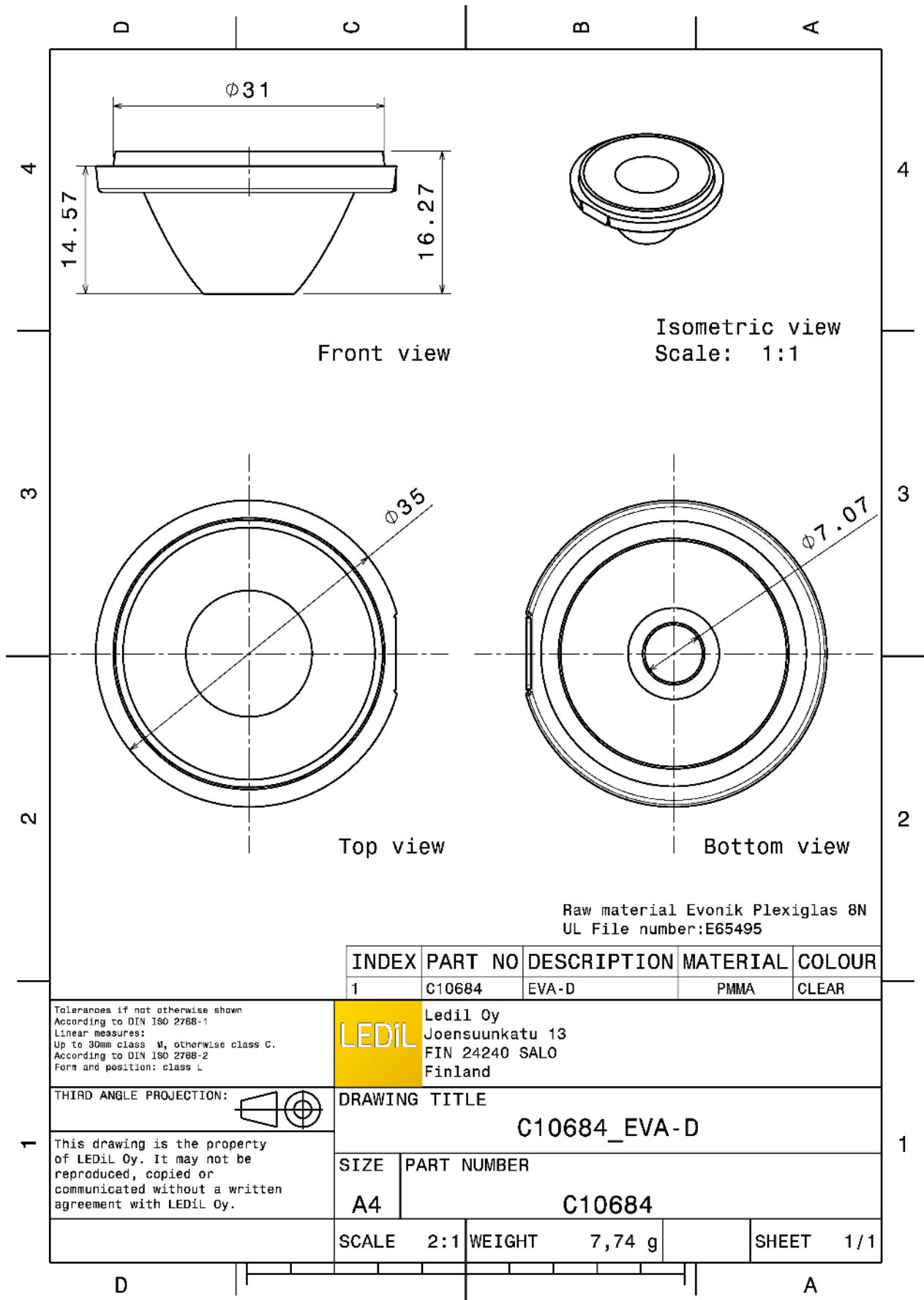
### MATERIALS:

| Component | Type        | Material | Colour | Finish |
|-----------|-------------|----------|--------|--------|
| EVA-D     | Single lens | PMMA     | clear  |        |

### ORDERING INFORMATION:

| Component                   | Qty in box | MOQ | MPQ | Box weight (kg) |
|-----------------------------|------------|-----|-----|-----------------|
| C10684_EVA-D<br>» Box size: | 540        | 90  | 45  | 4.0             |



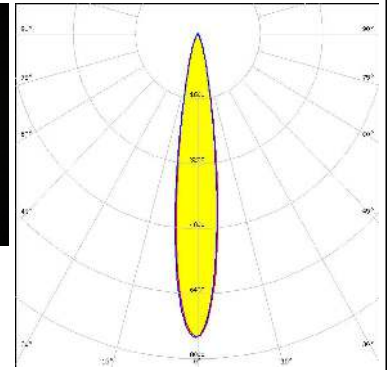


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

LED CLU7A2/7A3  
 FWHM / FWTM 16.0° / 33.0°  
 Efficiency 92 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

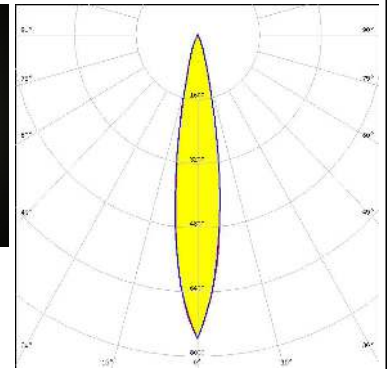
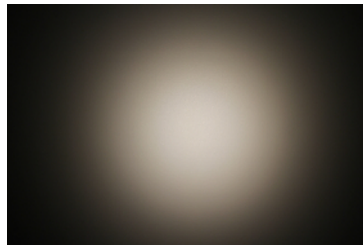


#### CREE LED

LED MC-E  
 FWHM / FWTM 16.0°  
 Efficiency 92 %  
 Peak intensity 6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

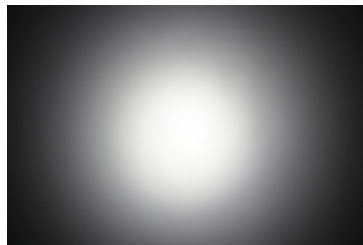
#### CREE LED

LED MHB-A/B  
 FWHM / FWTM 19.0° / 40.0°  
 Efficiency 83 %  
 Peak intensity 5.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE LED

LED XHP35 HI  
 FWHM / FWTM 22.0° / 46.0°  
 Efficiency 79 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

#### CREE → LED

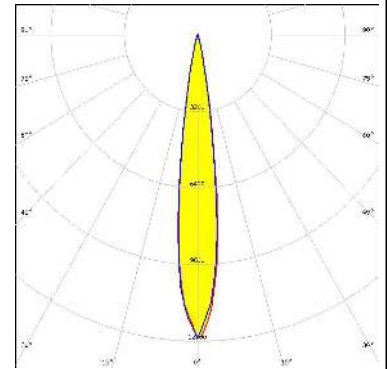
LED XM-L  
 FWHM / FWTM 16.0°  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### CREE → LED

LED XP-G2  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

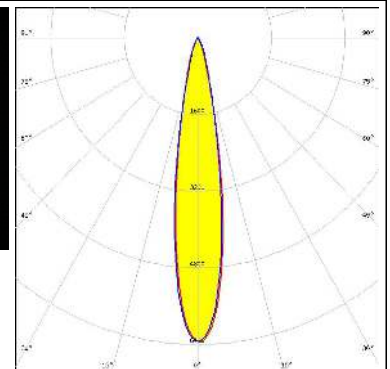
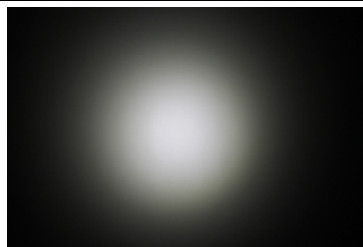
#### CREE → LED

LED XT-E  
 FWHM / FWTM 14.0°  
 Efficiency %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

LED LUXEON 5050 Round LES  
 FWHM / FWTM 18.0° / 35.0°  
 Efficiency 91 %  
 Peak intensity 6.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



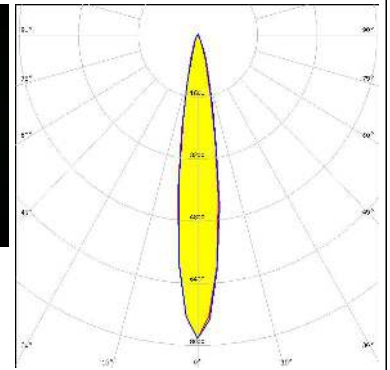
### OPTICAL RESULTS (MEASURED):

#### LUMILEDS

LED LUXEON M/MX  
 FWHM / FWTM 21.0°  
 Efficiency 90 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

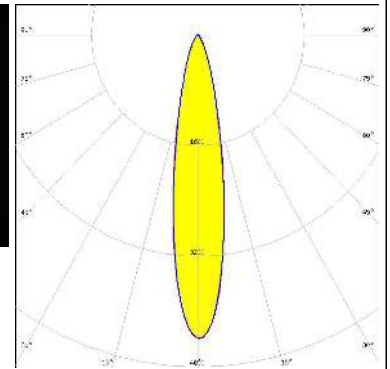
#### LUMILEDS

LED LUXEON MZ  
 FWHM / FWTM 16.0° / 33.0°  
 Efficiency 88 %  
 Peak intensity 7.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



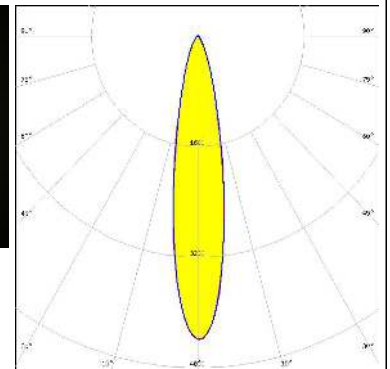
#### NICHIA

LED NS9x383  
 FWHM / FWTM 16.0° / 34.0°  
 Efficiency 89 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


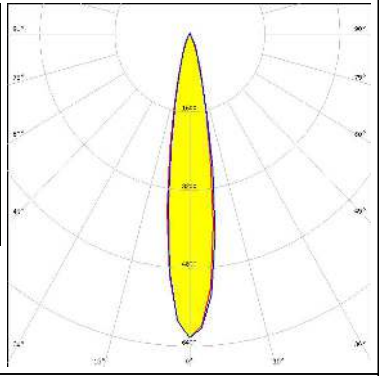




#### NICHIA

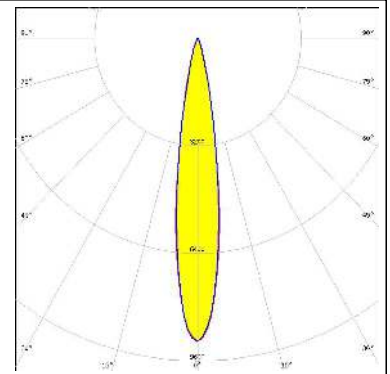
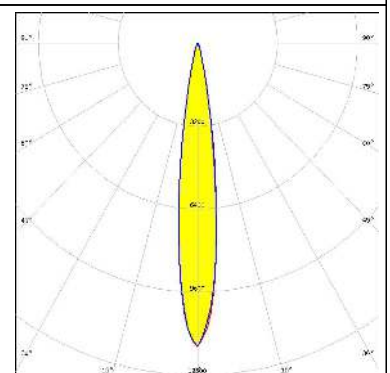
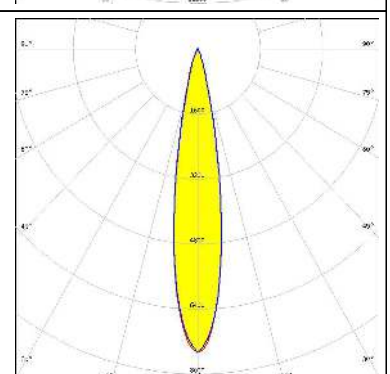
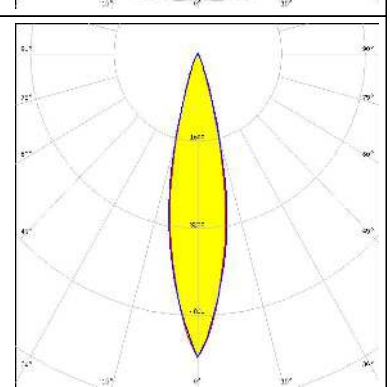
LED NSMx286M  
 FWHM / FWTM 20.0° / 44.0°  
 Efficiency 91 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED Duris S8</p> <p>FWHM / FWTM 18.0° / 36.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 6.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |    |  |
| <p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y15</p> <p>FWHM / FWTM 13.0° / 28.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 11.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>             |   |   |
| <p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y19</p> <p>FWHM / FWTM 13.0° / 28.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 11 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>               |  |   |

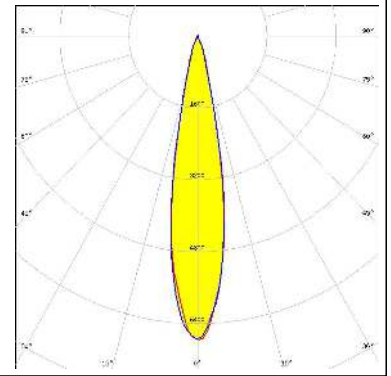
### OPTICAL RESULTS (SIMULATED):

|  |   |
|--|---|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON 5258<br/>           FWHM / FWTM 17.0° / 30.0°<br/>           Efficiency 92 %<br/>           Peak intensity 8.6 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p> |    |
| <p><b>LUMINUS</b></p> <p>LED CXM-3<br/>           FWHM / FWTM 14.0° / 26.0°<br/>           Efficiency 95 %<br/>           Peak intensity 11.7 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>       |   |
| <p><b>LUMINUS</b></p> <p>LED CXM-4<br/>           FWHM / FWTM 18.0° / 34.0°<br/>           Efficiency 95 %<br/>           Peak intensity 7.5 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>        |  |
| <p><b>NICHIA</b></p> <p>LED NFMW48xA<br/>           FWHM / FWTM 22.0° / 39.0°<br/>           Efficiency 96 %<br/>           Peak intensity 5.6 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>      |  |

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

|                      |                |
|----------------------|----------------|
| LED                  | OSCONIQ P 7070 |
| FWHM / FWTM          | 20.0° / 33.0°  |
| Efficiency           | 94 %           |
| Peak intensity       | 6.9 cd/lm      |
| LEDs/each optic      | 1              |
| Light colour         | White          |
| 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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

### 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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