

## LARISA-O-CLIP16

~40° x 20° oval beam. Clip fastening for 1.6 mm thick PCB.

### TECHNICAL SPECIFICATIONS:

|                |              |
|----------------|--------------|
| Dimensions     | 9.9 x 9.9 mm |
| Height         | 7.5 mm       |
| Fastening      | clips        |
| ROHS compliant | yes ⓘ        |

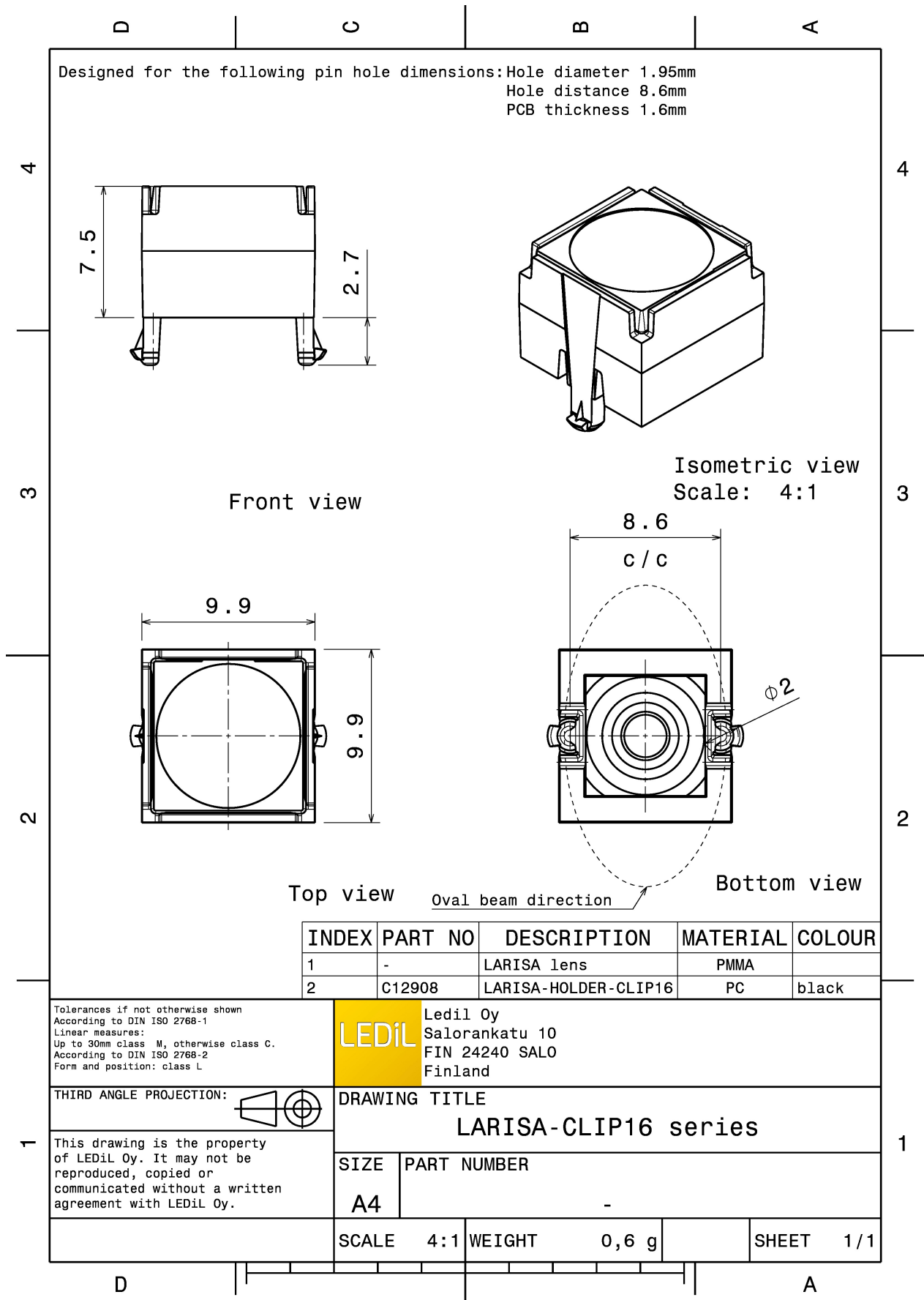


### MATERIAL SPECIFICATIONS:

| Component            | Type        | Material | Colour | Finish |
|----------------------|-------------|----------|--------|--------|
| LARISA-O             | Single lens | PMMA     | clear  |        |
| LARISA-HOLDER-CLIP16 | Holder      | PC       | black  |        |

### ORDERING INFORMATION:

| Component   | Type        | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|-------------|------------|-----|-----|-----------------|
| CP12943_LARISA-O-CLIP16<br>» Box size: 300 x 250 x 250 mm | Single lens | 10000      | 300 | 100 | 6.6             |

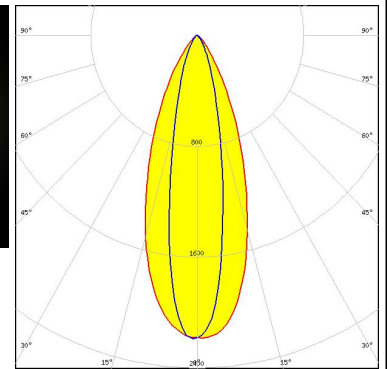
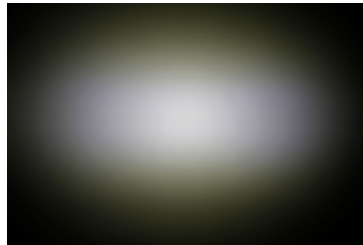


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

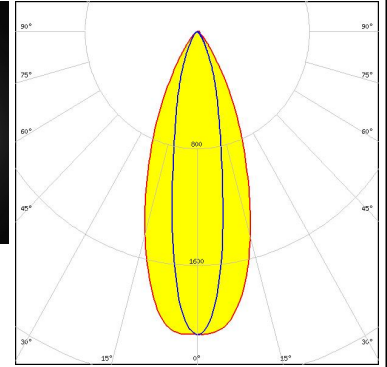
##### CREE → LED

LED XB-D White  
 FWHM / FWTM 39.0 + 21.0° / 73.0 + 49.0°  
 Efficiency 80 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



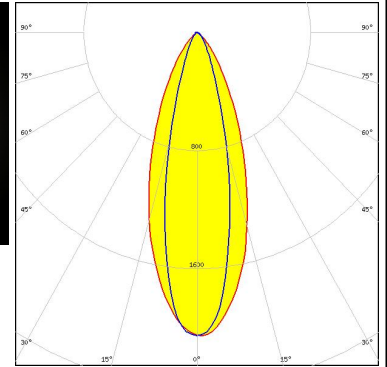
##### CREE → LED

LED XD16  
 FWHM / FWTM 40.0 + 20.0° / 72.0 + 51.0°  
 Efficiency 75 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



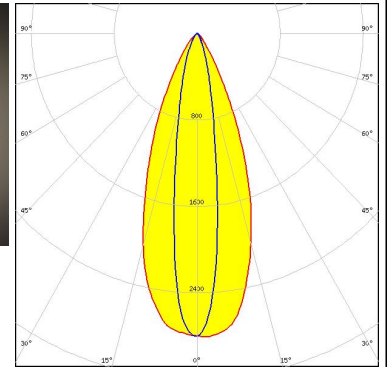
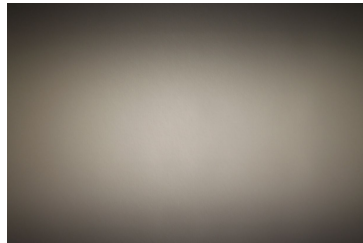
##### CREE → LED

LED XP-G  
 FWHM / FWTM 39.0 + 25.0° / 76.0 + 51.0°  
 Efficiency 83 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



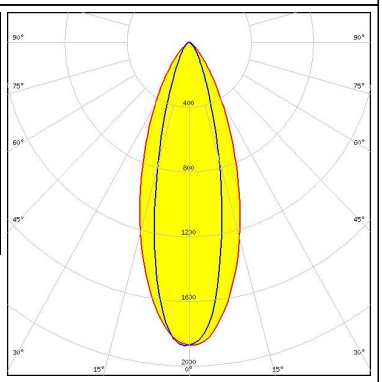

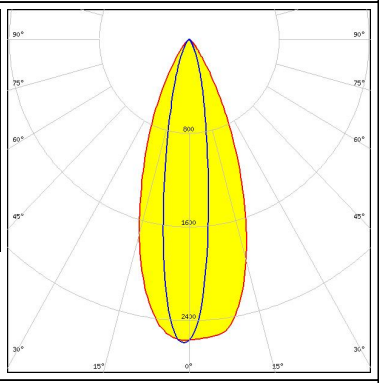

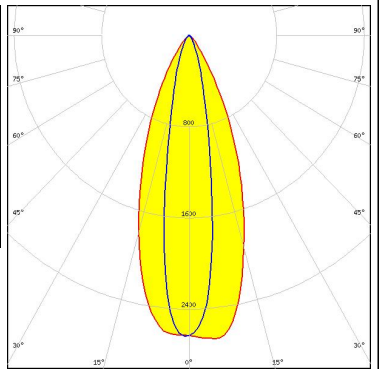


##### CREE → LED

LED XQ-E HD  
 FWHM / FWTM 40.0 + 17.0° / 68.0 + 42.0°  
 Efficiency 82 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



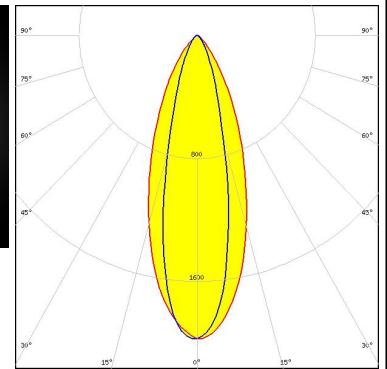
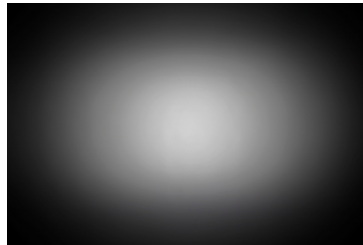
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>CREE</b> LED</p> <p>LED: XQ-E HI<br/>           FWHM / FWTM: 43.0 + 14.0° / 64.0 + 36.0°<br/>           Efficiency: 74 %<br/>           Peak intensity: 3.2 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p>      |    |   |
| <p><b>LUMILEDS</b></p> <p>LED: LUXEON A<br/>           FWHM / FWTM: 39.0 + 26.0° / 78.0 + 55.0°<br/>           Efficiency: 81 %<br/>           Peak intensity: 1.9 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p>     |   |   |
| <p><b>LUMILEDS</b></p> <p>LED: LUXEON C<br/>           FWHM / FWTM: 40.0 + 18.0° / 69.0 + 43.0°<br/>           Efficiency: 79 %<br/>           Peak intensity: 2.6 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p>     |  |  |
| <p><b>LUMILEDS</b></p> <p>LED: LUXEON Rebel<br/>           FWHM / FWTM: 40.0 + 18.0° / 70.0 + 42.0°<br/>           Efficiency: 84 %<br/>           Peak intensity: 2.7 cd/lm<br/>           LEDs/each optic: 1<br/>           Light colour: White<br/>           Required components:</p> |  |  |

#### PHOTOMETRIC DATA (MEASURED):

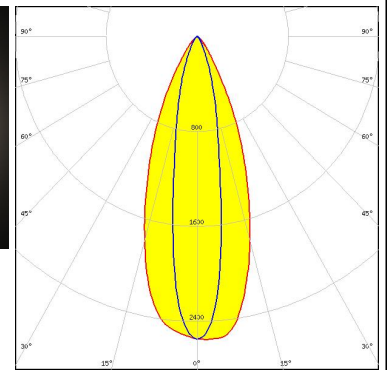
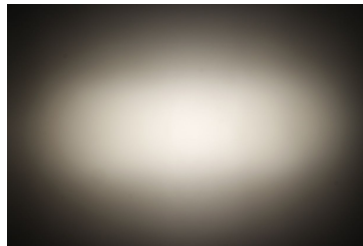
##### LUMILEDS

LED LUXEON Rebel ES  
 FWHM / FWTM 39.0 + 25.0° / 77.0 + 54.0°  
 Efficiency 82 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

LED LUXEON Rebel Plus  
 FWHM / FWTM 40.0 + 19.0° / 69.0 + 46.0°  
 Efficiency 83 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



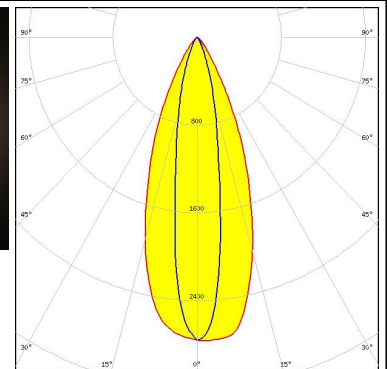
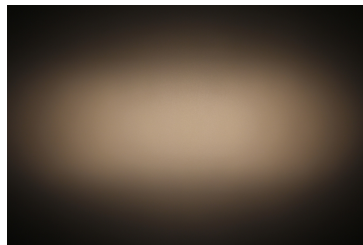
##### LUMILEDS

LED LUXEON Z  
 FWHM / FWTM 41.0 + 14.0° / 62.0 + 360.0°  
 Efficiency 81 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


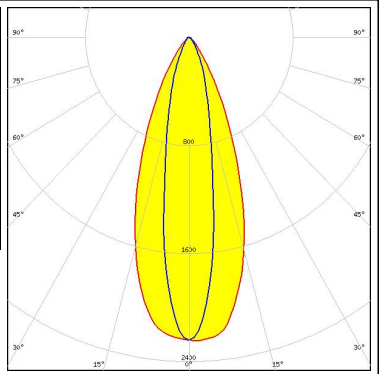

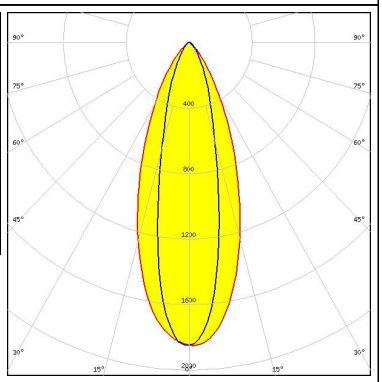

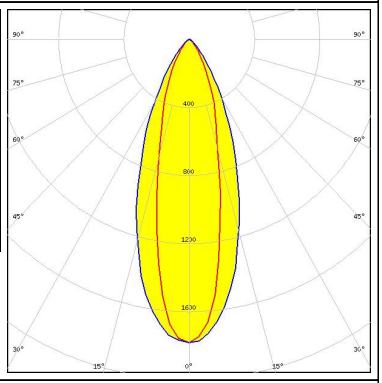

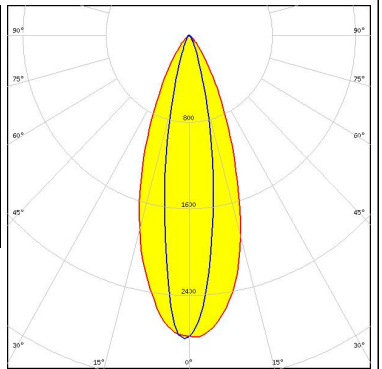


##### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 40.0 + 18.0° / 68.0 + 44.0°  
 Efficiency 86 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



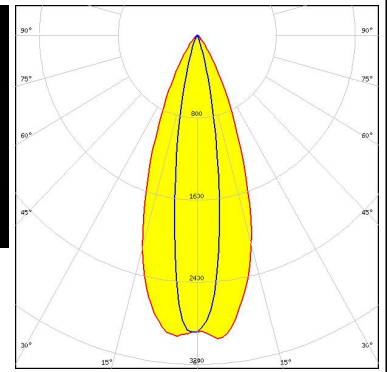
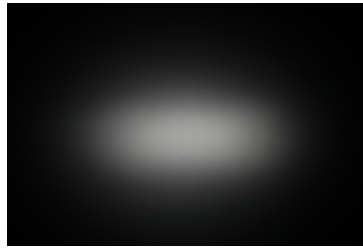
#### PHOTOMETRIC DATA (MEASURED):

|   |  |   |
|---|--|---|
| <p><b>NICHIA</b></p> <p>LED NCSxx19A<br/>           FWHM / FWTM 41.0 + 19.0° / 71.0 + 50.0°<br/>           Efficiency 81 %<br/>           Peak intensity 2.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>   |    |    |
| <p><b>NICHIA</b></p> <p>LED NVSxx19A<br/>           FWHM / FWTM 40.0 + 24.0° / 77.0 + 57.0°<br/>           Efficiency 79 %<br/>           Peak intensity 1.9 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>   |   |   |
| <p><b>OSRAM</b><br/> <small>Opto Semiconductors</small></p> <p>LED Duris S5 (2 chip)<br/>           FWHM / FWTM 26.0 + 41.0° / 63.0 + 77.0°<br/>           Efficiency 79 %<br/>           Peak intensity 1.8 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p> |  |  |
| <p><b>OSRAM</b><br/> <small>Opto Semiconductors</small></p> <p>LED OSLOM SSL 150<br/>           FWHM / FWTM 39.0 + 19.0° / 70.0 + 40.0°<br/>           Efficiency 84 %<br/>           Peak intensity 2.9 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p>     |  |  |

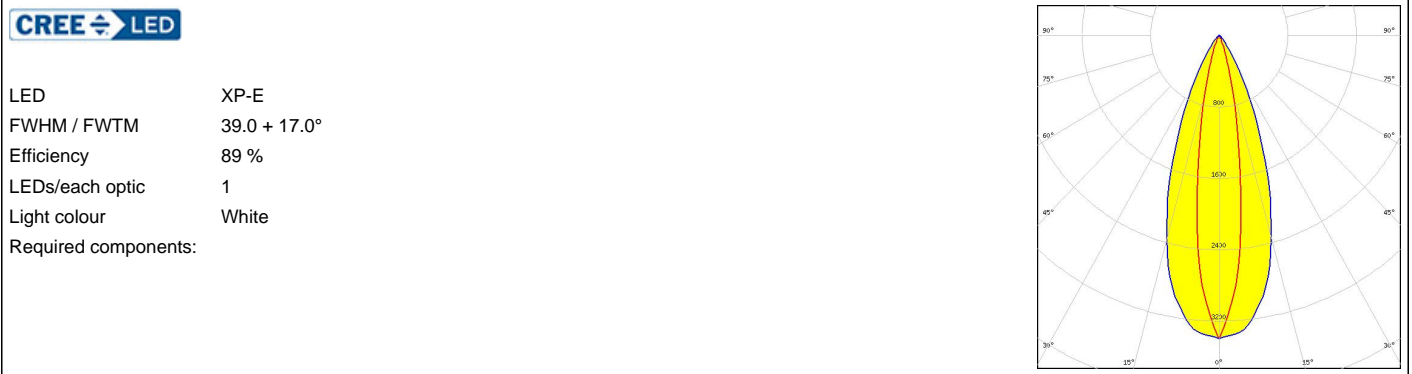
#### PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM / FWTM 40.0 + 17.0° / 70.0 + 48.0°  
Efficiency 77 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### 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:

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