

## LR2-M

~25° medium beam optimized for LUXEON Rebel ES. 14.8 mm high assembly with installation tape.

### SPECIFICATION:

|                |           |
|----------------|-----------|
| Dimensions     | Ø 21.6 mm |
| Height         | 14.8 mm   |
| Fastening      | tape, pin |
| ROHS compliant | yes ⓘ     |

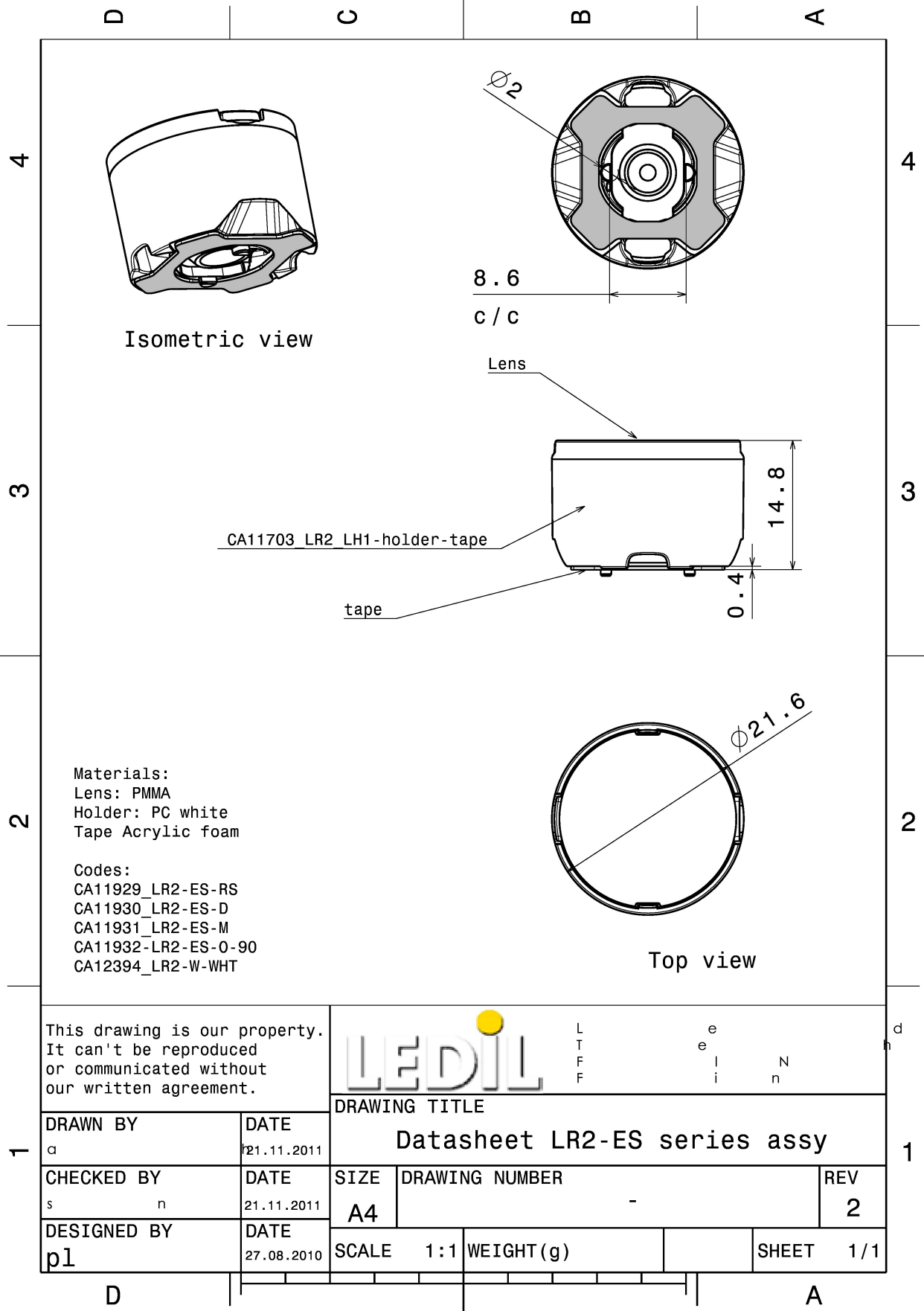
### MATERIALS:

| Component      | Type        | Material     | Colour | Finish |
|----------------|-------------|--------------|--------|--------|
| LXP2-M         | Single lens | PMMA         | clear  |        |
| LR2-ES-LH1-HLD | Holder      | PC           | white  |        |
| HEIDI-TAPE     | Tape        | Acrylic foam | black  |        |

### ORDERING INFORMATION:

| Component                      | Type        | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| CA11931_LR2-M                  | Single lens | 1680       | 336 | 112 | 9.0             |
| » Box size: 480 x 280 x 300 mm |             |            |     |     |                 |





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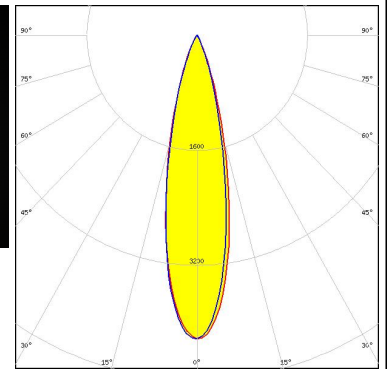
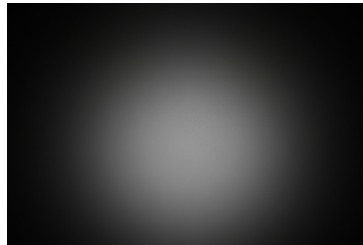
|                   |                    |                    |   |              |          |
|-------------------|--------------------|--------------------|---|--------------|----------|
| DRAWN BY<br>a     |                    | DATE<br>21.11.2011 | DRAWING TITLE<br>Datasheet LR2-ES series assy |              |          |
| CHECKED BY<br>s n | DATE<br>21.11.2011 | SIZE<br>A4         | DRAWING NUMBER<br>-                           |              | REV<br>2 |
| DESIGNED BY<br>pl | DATE<br>27.08.2010 | SCALE<br>1:1       | WEIGHT (g)                                    | SHEET<br>1/1 |          |

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

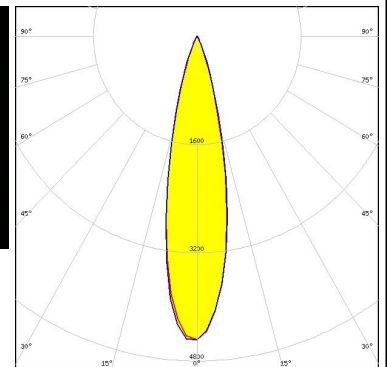
### OPTICAL RESULTS (MEASURED):



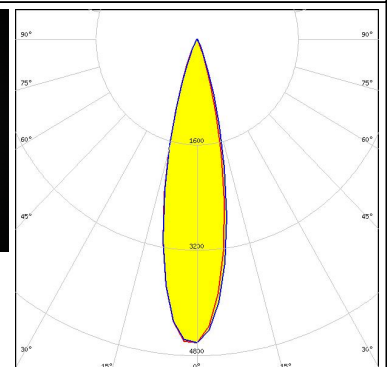
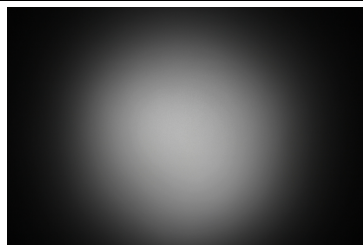
LED XP-L HD  
 FWHM / FWTM 24.0° / 46.0°  
 Efficiency 90 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Rebel ES  
 FWHM / FWTM 22.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:


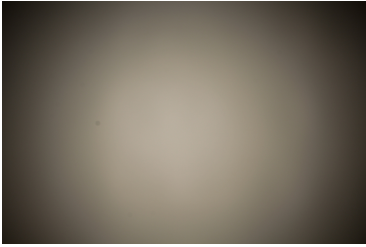
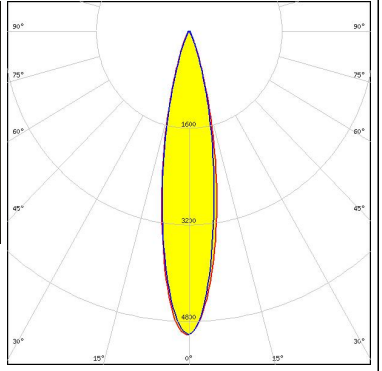

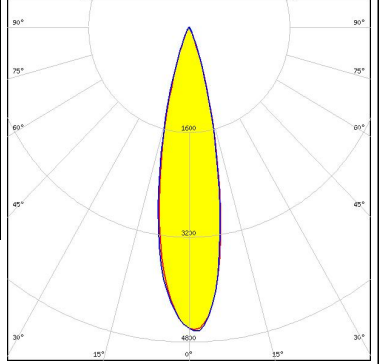


LED LUXEON T  
 FWHM / FWTM 25.0° / 44.0°  
 Efficiency 90 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON TX  
 FWHM / FWTM 24.0° / 42.0°  
 Efficiency 90 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

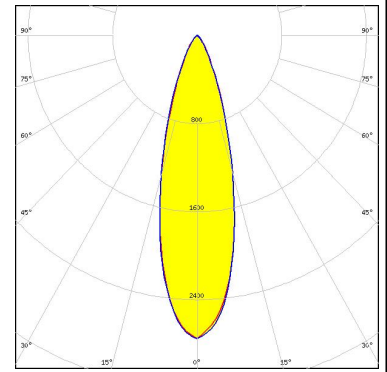
### OPTICAL RESULTS (MEASURED):

|  |  |   |
|--|--|---|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 23.0° / 40.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 5.2 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 NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM 22.0° / 42.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>                         |   |   |
| <p><b>OSRAM</b><br/>Opto Semiconductors</p> <p>LED OSOLON Square EC</p> <p>FWHM / FWTM 25.0° / 42.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 4.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |  |

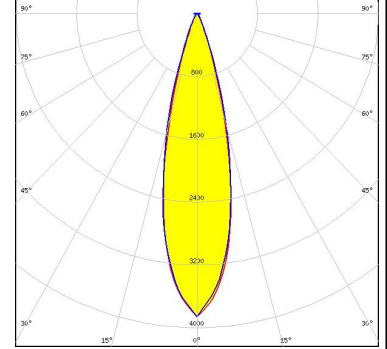
### OPTICAL RESULTS (SIMULATED):



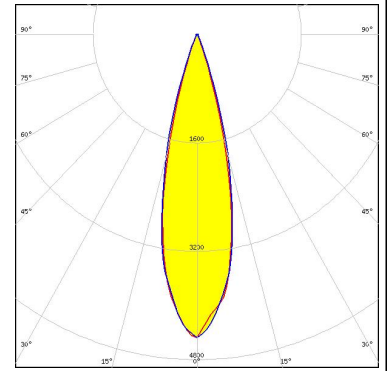
LED J Series 5050 Round LES  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 94 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



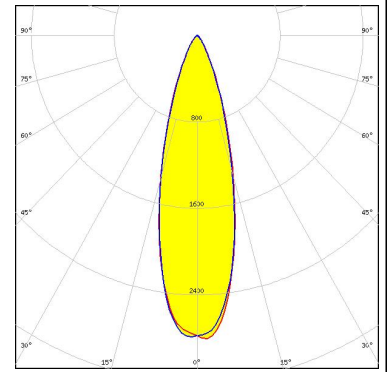
LED XD16  
 FWHM / FWTM 26.0° / 45.0°  
 Efficiency 91 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HD  
 FWHM / FWTM 26.0° / 42.0°  
 Efficiency 94 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



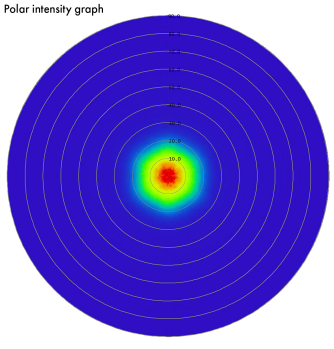
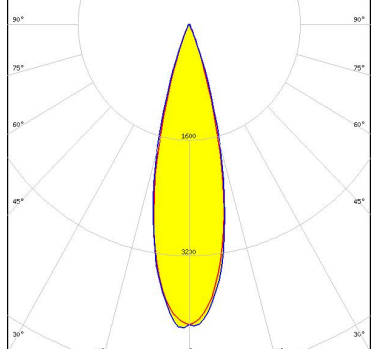
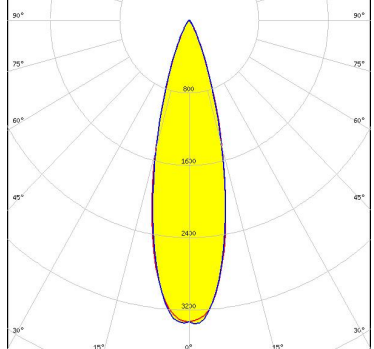
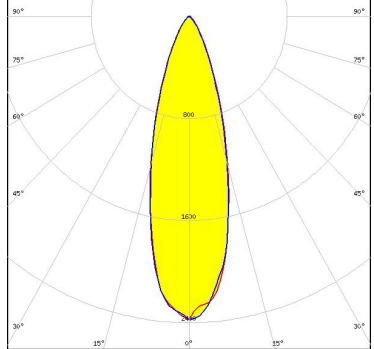
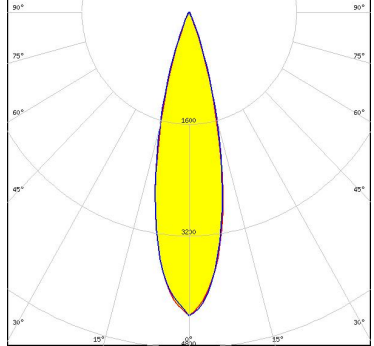
LED LUXEON 5050 Round LES  
 FWHM / FWTM 30.0° / 56.0°  
 Efficiency 94 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

|   |  |
|---|--|
| <p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 Square LES</p> <p>FWHM / FWTM 29.0° / 57.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p> |  |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON H50-2</p> <p>FWHM / FWTM 25.0° / 43.0°</p> <p>Efficiency 92 %</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>LUMILEDS</b></p> <p>LED LUXEON IR Domed 60 (L110-0xxx060000000)</p> <p>FWHM / FWTM 24.0° / 44.0°</p> <p>Efficiency 93 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>                   |  |
| <p><b>LUMILEDS</b></p> <p>LED LUXEON V2</p> <p>FWHM / FWTM 26.0° / 45.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>              |  |

### OPTICAL RESULTS (SIMULATED):

|  |   |   |
|--|---|---|
| <p><b>LUMINUS</b></p> <p>LED SST-10-IR-B90<br/>           FWHM / FWTM 26.0° / 42.0°<br/>           Efficiency 94 %<br/>           LEDs/each optic 1<br/>           Light colour IR<br/>           Required components:</p>   | <p>Polar intensity graph</p>  |    |
| <p><b>NICHIA</b></p> <p>LED NV4WB35AM<br/>           FWHM / FWTM 28.0° / 50.0°<br/>           Efficiency 95 %<br/>           Peak intensity 3.4 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 Duris S8<br/>           FWHM / FWTM 30.0° / 61.0°<br/>           Efficiency 93 %<br/>           Peak intensity 2.5 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 26.0° / 43.0°<br/>           Efficiency 95 %<br/>           Peak intensity 4.3 cd/lm<br/>           LEDs/each optic 1<br/>           Light colour White<br/>           Required components:</p> |   |  |