

## LR2-O-90

~10° x 40° oval beam optimized for LUXEON Rebel ES. 14.8 mm high assembly with installation tape. Variant with beam direction rotated 90°.

### SPECIFICATION:

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

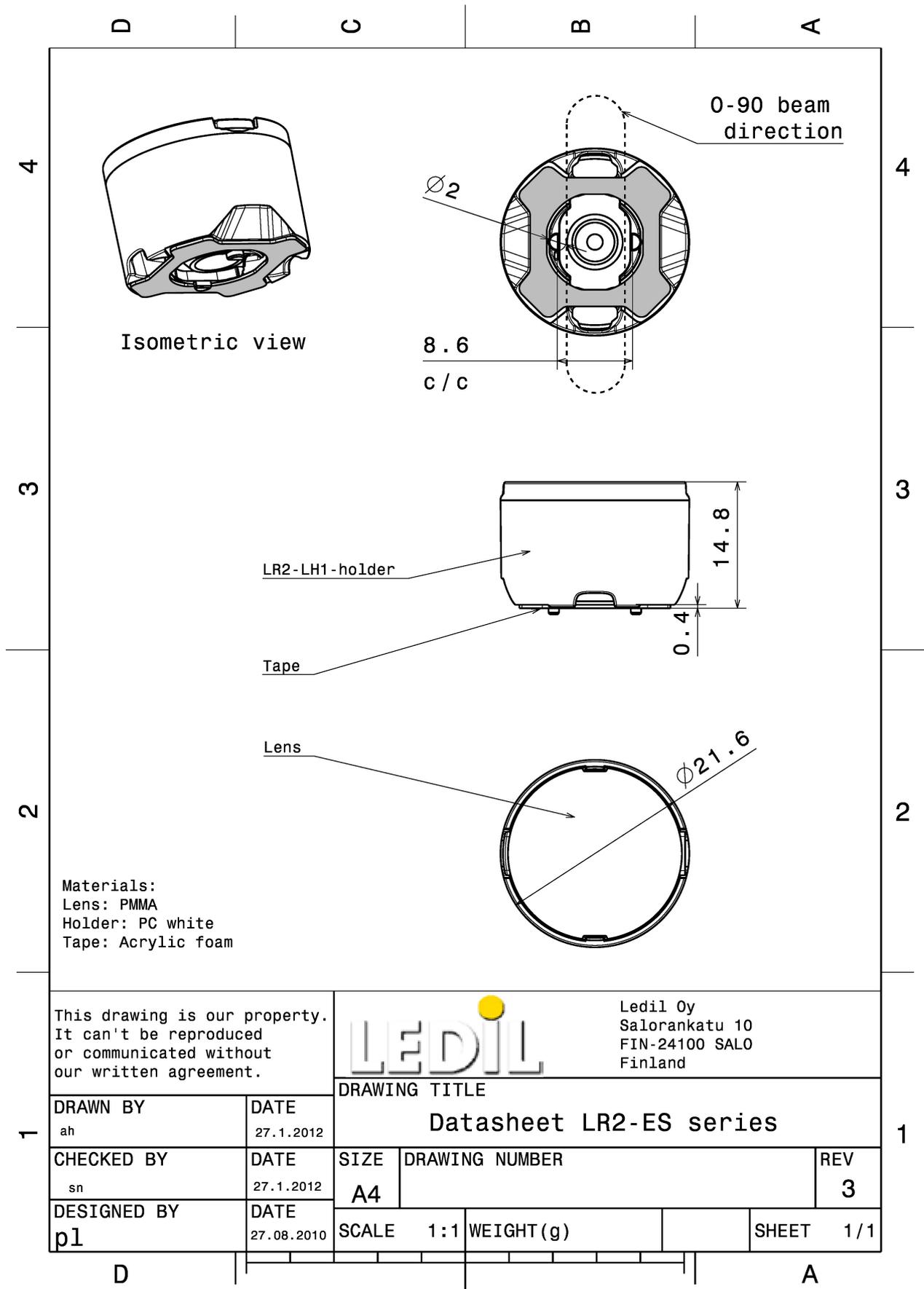


### MATERIALS:

| Component      | Type        | Material     | Colour | Finish | Length (mm) |
|----------------|-------------|--------------|--------|--------|-------------|
| LXP2-O-90      | Single lens | PMMA         | clear  |        |             |
| LR2-ES-LH1-HLD | Holder      | PC           | white  |        |             |
| HEIDI-TAPE     | Tape        | Acrylic foam | black  |        |             |

### ORDERING INFORMATION:

| Component  | Qty in box | MOQ | MPQ | Box weight (kg) |
|--|------------|-----|-----|-----------------|
| CA12629_LR2-O-90<br>» Box size: 480 x 280 x 300 mm | 1680       | 336 | 112 | 10.0            |



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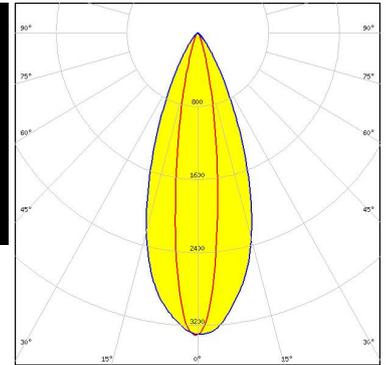
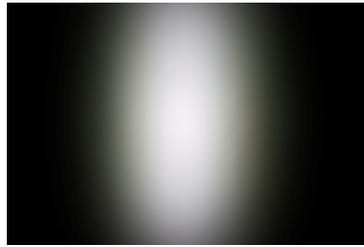
|                   |                    |                   |  |              |          |
|-------------------|--------------------|-------------------|--|--------------|----------|
| DRAWN BY<br>ah    |                    | DATE<br>27.1.2012 | DRAWING TITLE<br>Datasheet LR2-ES series |              |          |
| CHECKED BY<br>sn  | DATE<br>27.1.2012  | SIZE<br>A4        | DRAWING NUMBER                           |              | REV<br>3 |
| 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):



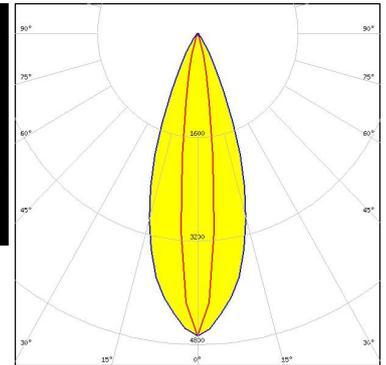
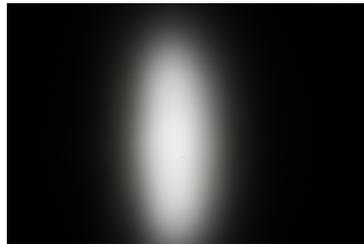
**LED** XP-L HD  
**FWHM / FWTM** 16.0 + 39.0° / 35.0 + 67.0°  
**Efficiency** 89 %  
**Peak intensity** 3.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



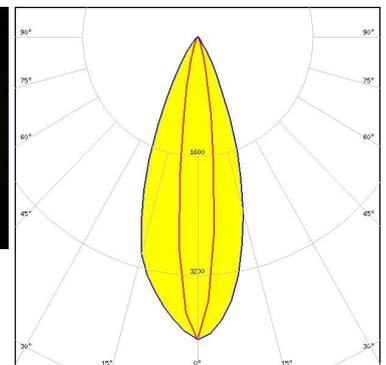
**LED** LUXEON Rebel ES  
**FWHM / FWTM** 13.0 + 36.0° / 28.0 + 60.0°  
**Efficiency** 92 %  
**Peak intensity** 4.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** LUXEON T  
**FWHM / FWTM** 14.0 + 39.0° / 30.0 + 64.0°  
**Efficiency** 88 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

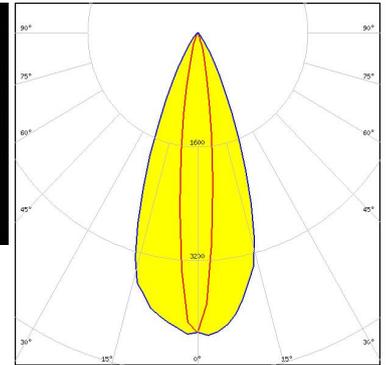


Light distribution files

#### OPTICAL RESULTS (MEASURED):



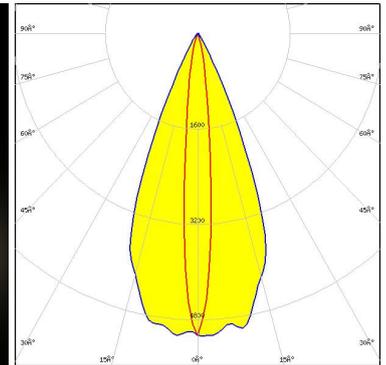
LED LUXEON TX  
 FWHM / FWTM 14.0 + 41.0° / 30.0 + 63.0°  
 Efficiency 90 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



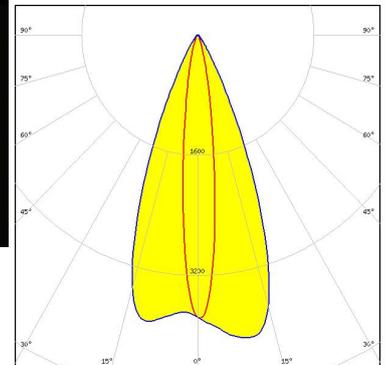
LED LUXEON Z ES  
 FWHM / FWTM 10.0 + 40.0° / 26.0 + 60.0°  
 Efficiency 89 %  
 Peak intensity 6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 13.0 + 43.0° / 31.0 + 62.0°  
 Efficiency 94 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

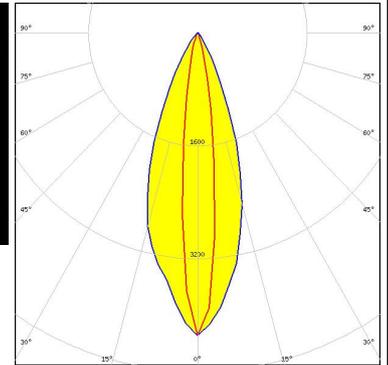


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED OSLON Square EC  
FWHM / FWTM 14.0 + 34.0° / 29.0 + 59.0°  
Efficiency 88 %  
Peak intensity 4.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

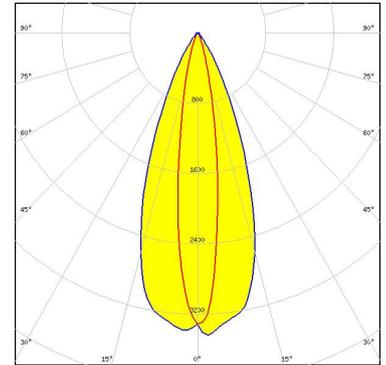


Light distribution files

### OPTICAL RESULTS (SIMULATED):



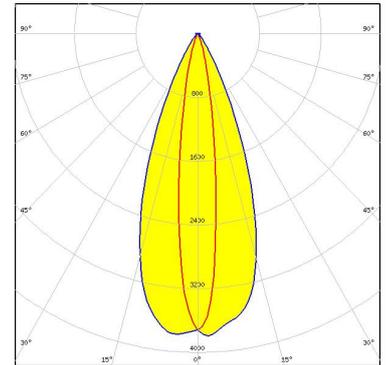
LED XM-L3  
FWHM / FWTM 16.0 + 40.0° / 34.0 + 66.0°  
Efficiency 91 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



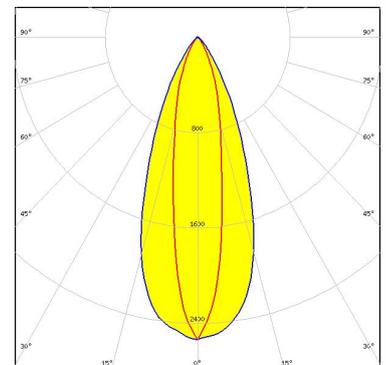
LED XP-G3  
FWHM / FWTM 15.0 + 41.0° / 32.0 + 64.0°  
Efficiency 93 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON 5050 Round LES  
FWHM / FWTM 20.0 + 40.0° / 52.0 + 72.0°  
Efficiency 93 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

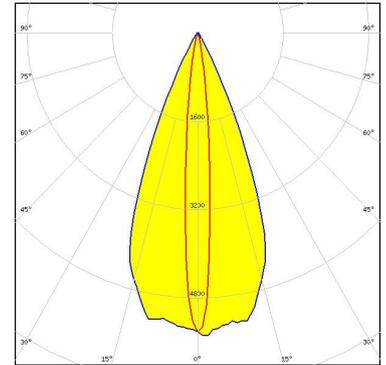


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



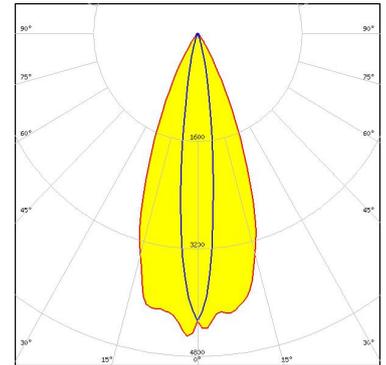
LED LUXEON C  
 FWHM / FWTM 9.6 + 44.0° / 22.0 + 59.0°  
 Efficiency 94 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



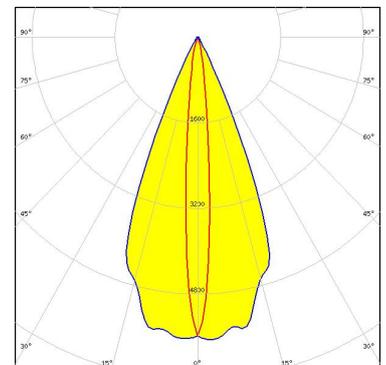
LED LUXEON V2  
 FWHM / FWTM 13.0 + 40.0° / 28.0 + 62.0°  
 Efficiency 93 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Z  
 FWHM / FWTM 9.0 + 45.0° / 21.0 + 57.0°  
 Efficiency 94 %  
 Peak intensity 5.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

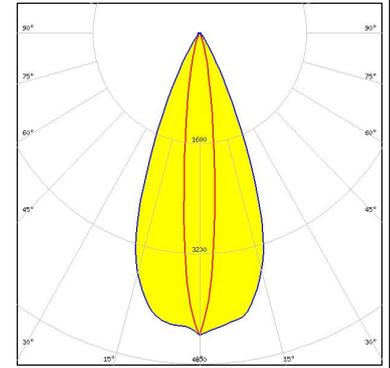


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

|                      |                             |
|----------------------|-----------------------------|
| LED                  | OSLON Square CSSRM2/CSSRM3  |
| FWHM / FWTM          | 12.0 + 42.0° / 30.0 + 62.0° |
| Efficiency           | 94 %                        |
| Peak intensity       | 4.4 cd/lm                   |
| LEDs/each optic      | 1                           |
| Light colour/type    | White                       |
| Required components: |                             |



Light distribution files

### 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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