

## 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°.

### TECHNICAL SPECIFICATIONS:

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

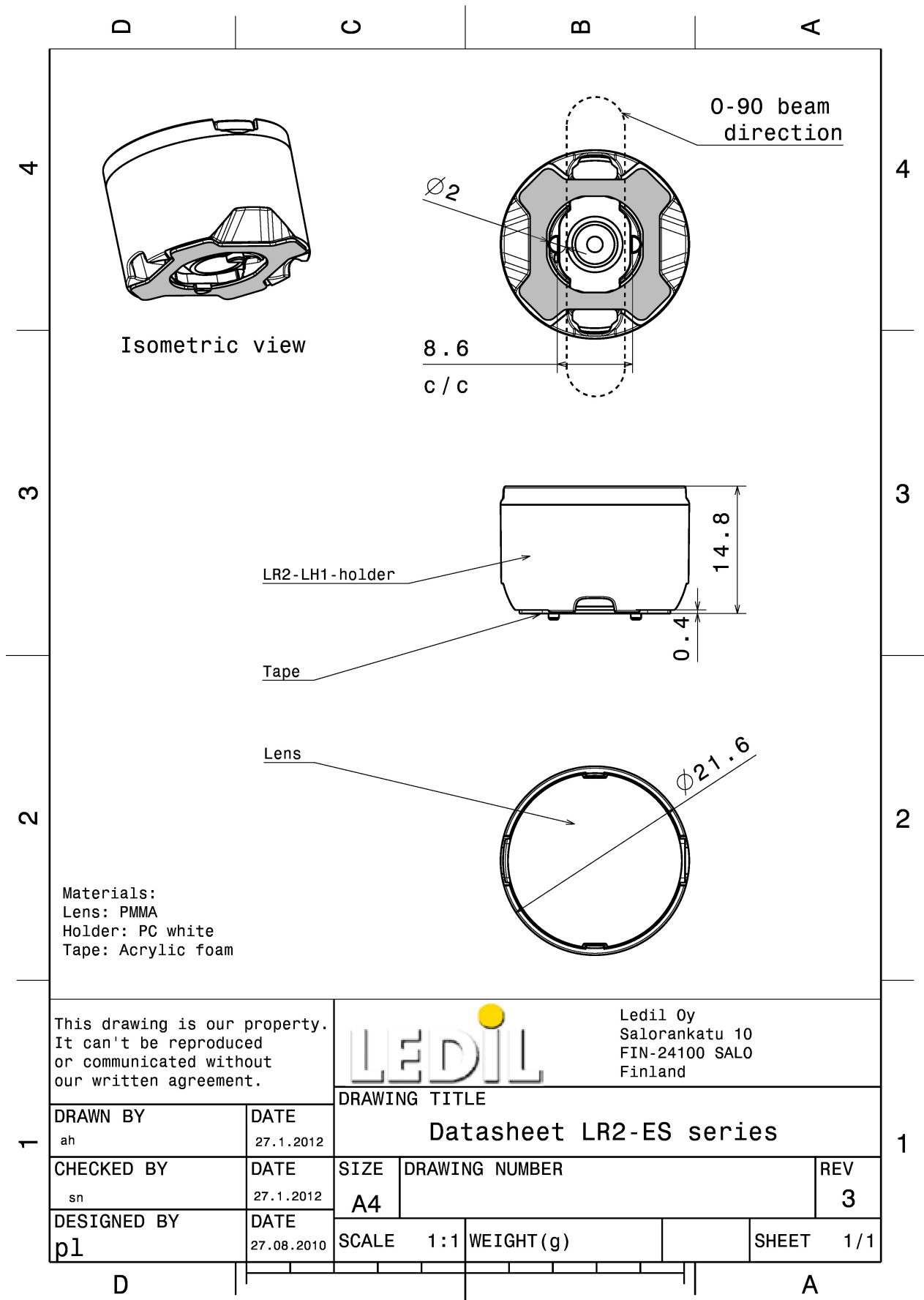


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LXP2-O-90	Single lens	PMMA	clear	
LR2-ES-LH1-HLD	Holder	PC	white	
HEIDI-TAPE	Tape	PU tape	black	

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA12629_LR2-O-90 » Box size: 480 x 280 x 300 mm	Single lens	1680	336	112	10.0



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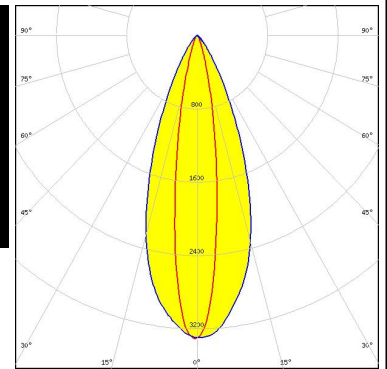
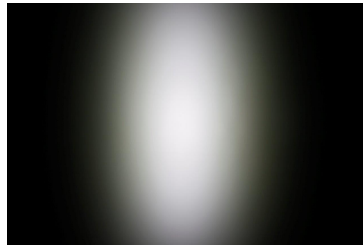
DRAWN BY ah		DATE 27.1.2012	DRAWING TITLE Datasheet LR2-ES series		
CHECKED BY sn	DATE 27.1.2012	SIZE A4	DRAWING NUMBER		REV 3
DESIGNED BY pl	DATE 27.08.2010	SCALE 1:1	WEIGHT (g)	SHEET 1/1	

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

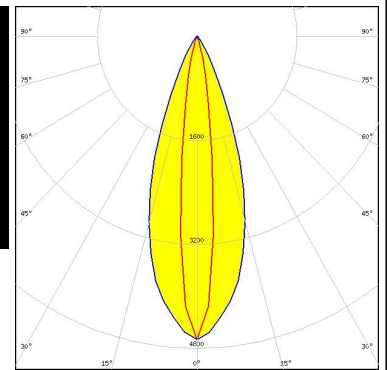
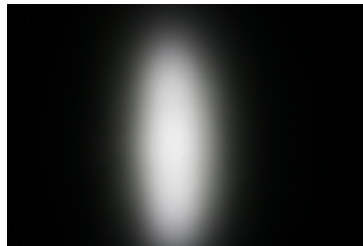
#### PHOTOMETRIC DATA (MEASURED):



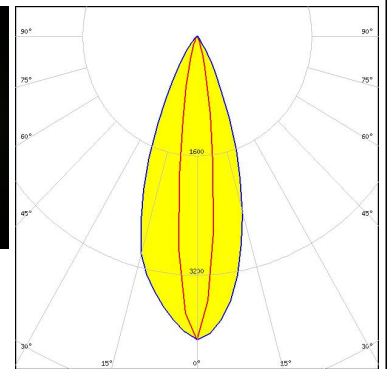
LED XP-L HD  
 FWHM / FWTM 16.0 + 39.0° / 35.0 + 67.0°  
 Efficiency 89 %  
 Peak intensity 3.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



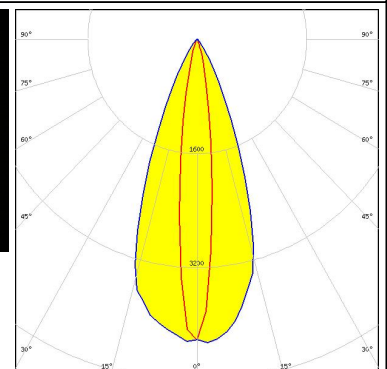
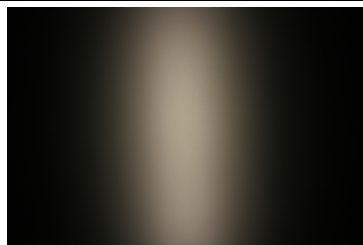
LED LUXEON Rebel ES  
 FWHM / FWTM 13.0 + 36.0° / 28.0 + 60.0°  
 Efficiency 92 %  
 Peak intensity 4.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:




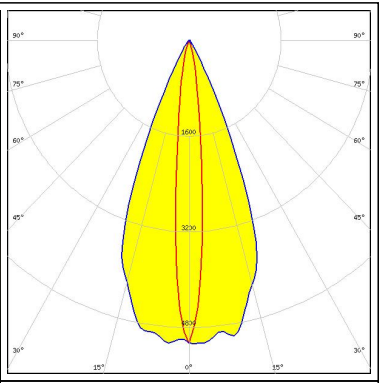

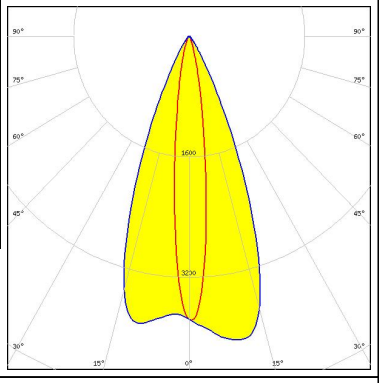

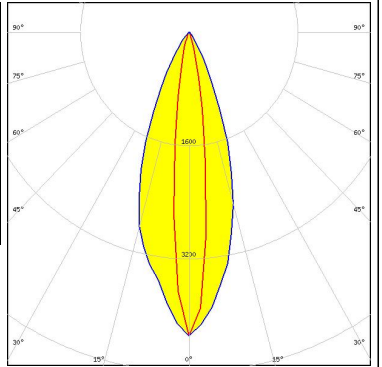
LED LUXEON T  
 FWHM / FWTM 14.0 + 39.0° / 30.0 + 64.0°  
 Efficiency 88 %  
 Peak intensity 4.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



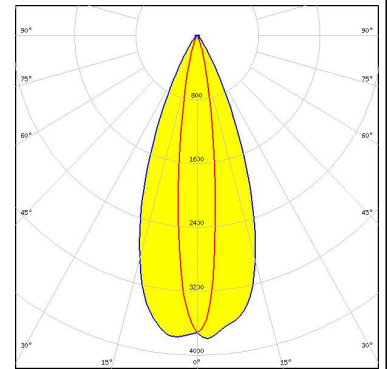
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 10.0 + 40.0° / 26.0 + 60.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 6 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 13.0 + 43.0° / 31.0 + 62.0°</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>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON Square EC</p> <p>FWHM / FWTM 14.0 + 34.0° / 29.0 + 59.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 4.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

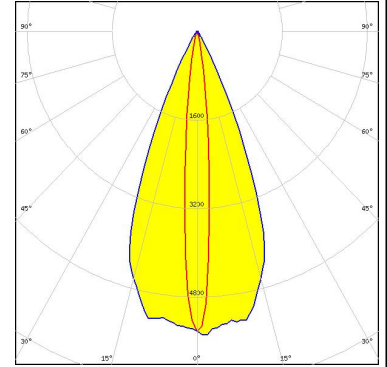
#### PHOTOMETRIC DATA (SIMULATED):



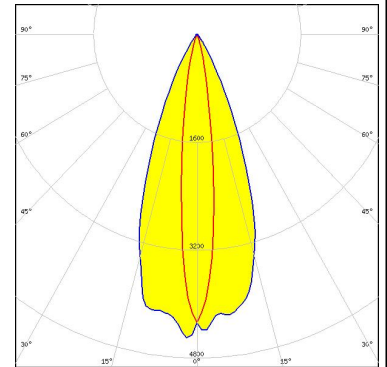
LED XP-G3  
 FWHM / FWTM 15.0 + 41.0° / 32.0 + 64.0°  
 Efficiency 93 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



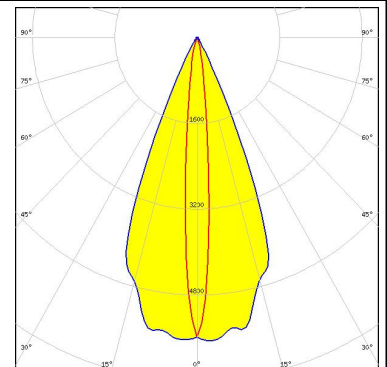
LED LUXEON C  
 FWHM / FWTM 9.6 + 44.0° / 22.0 + 59.0°  
 Efficiency 94 %  
 Peak intensity 5.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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 White  
 Required components:



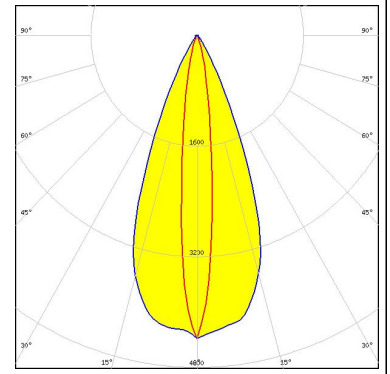
LED LUXEON Z  
 FWHM / FWTM 9.0 + 45.0° / 21.0 + 57.0°  
 Efficiency 94 %  
 Peak intensity 5.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (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	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.

### MATERIALS:

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