


## 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 

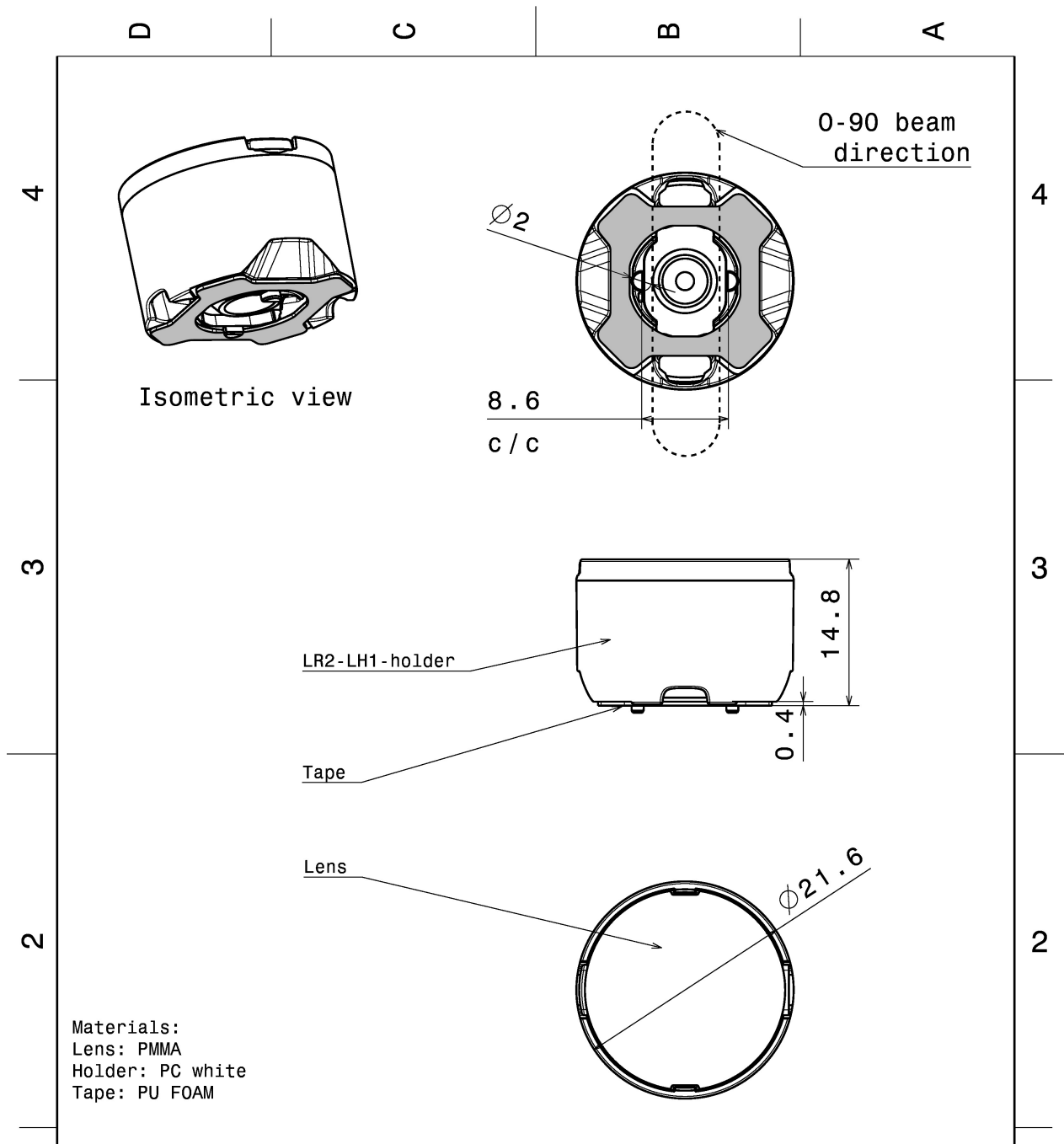


### MATERIAL SPECIFICATIONS:

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

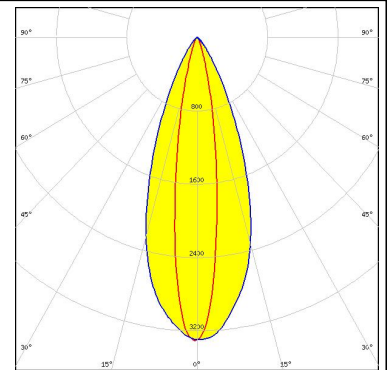


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DRAWING TITLE		<b>Datasheet LR2-ES series</b>			
DRAWN BY ah	DATE 27.1.2012	SIZE <b>A4</b>	DRAWING NUMBER		REV <b>3</b>
CHECKED BY sn	DATE 27.1.2012	SCALE 1:1	WEIGHT (g)	SHEET 1/1	
DESIGNED BY pl	DATE 27.08.2010				

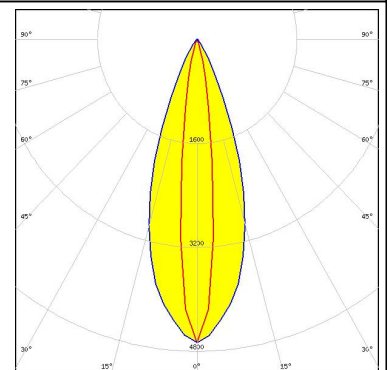
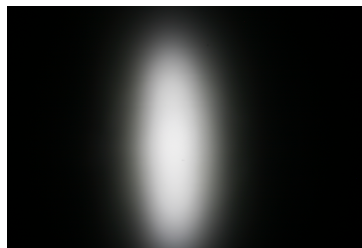
#### PHOTOMETRIC DATA (MEASURED):



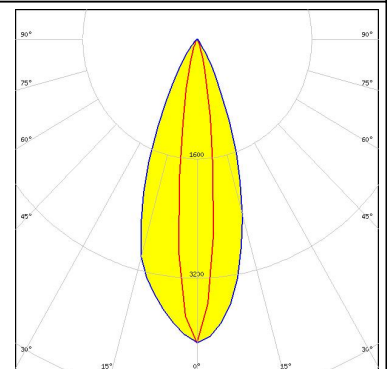
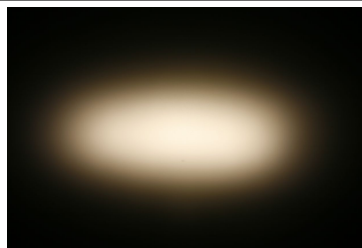
LED XP-L HD  
 FWHM 16.0 + 39.0°  
 Efficiency 89 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



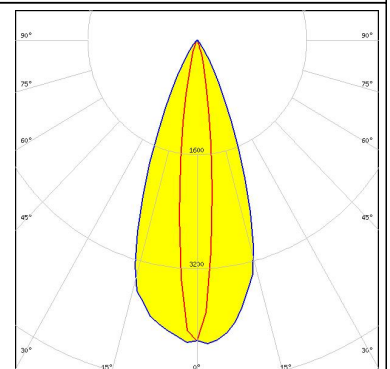
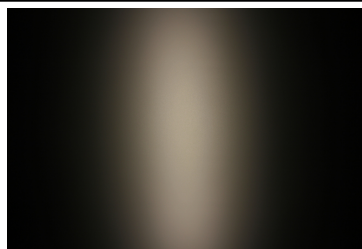
LED LUXEON Rebel ES  
 FWHM 13.0 + 36.0°  
 Efficiency 92 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




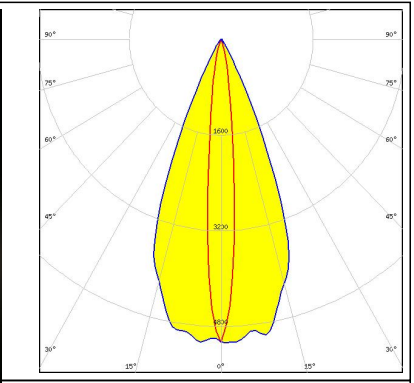
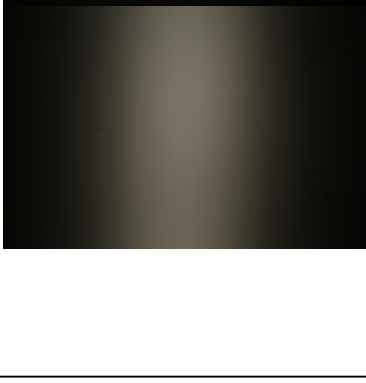
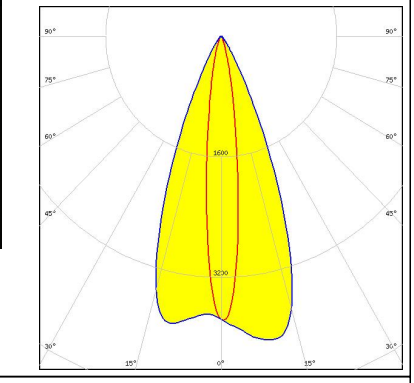

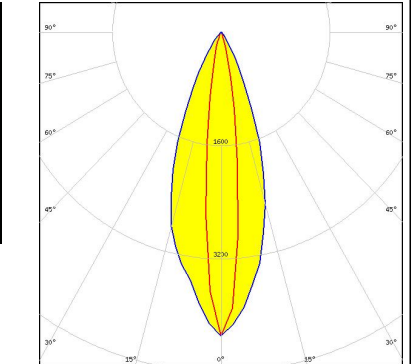
LED LUXEON T  
 FWHM 14.0 + 39.0°  
 Efficiency 88 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



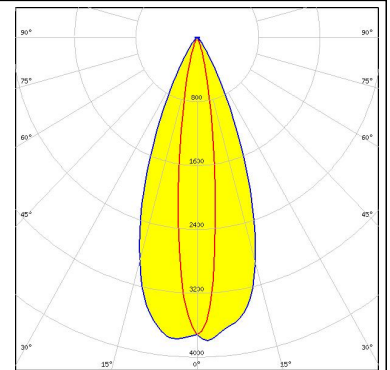
**PHOTOMETRIC DATA (MEASURED):**

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES            FWHM 10.0 + 40.0°            Efficiency 89 %            Peak intensity 6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM 13.0 + 43.0°            Efficiency 94 %            Peak intensity 4.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON Square EC            FWHM 14.0 + 34.0°            Efficiency 88 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

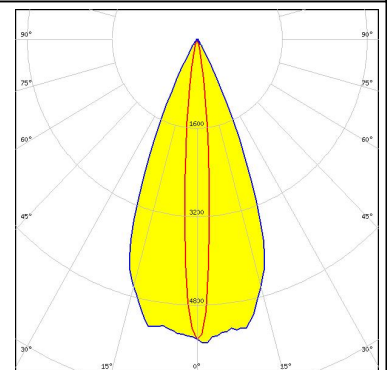
#### PHOTOMETRIC DATA (SIMULATED):



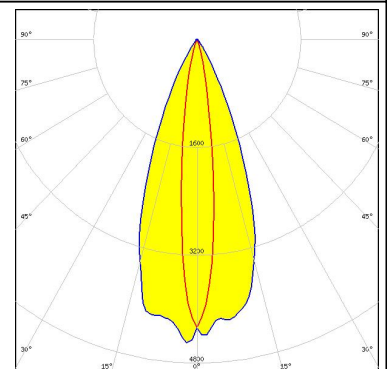
**LED** XP-G3  
**FWHM** 15.0 + 41.0°  
**Efficiency** 93 %  
**Peak intensity** 3.8 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



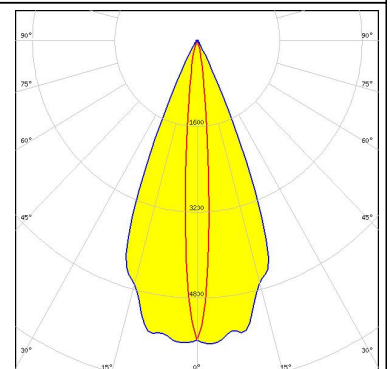
**LED** LUXEON C  
**FWHM** 9.6 + 44.0°  
**Efficiency** 94 %  
**Peak intensity** 5.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



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



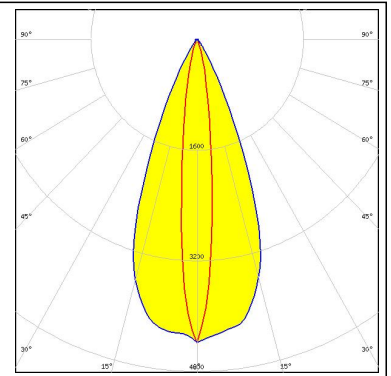
**LED** LUXEON Z  
**FWHM** 9.0 + 45.0°  
**Efficiency** 94 %  
**Peak intensity** 5.7 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM	12.0 + 42.0°
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:

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.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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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