

## LR2-RS

~9.6° spot beam optimized for LUXEON Rebel ES. 14.8 mm high assembly with installation tape.

### TECHNICAL SPECIFICATIONS:

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

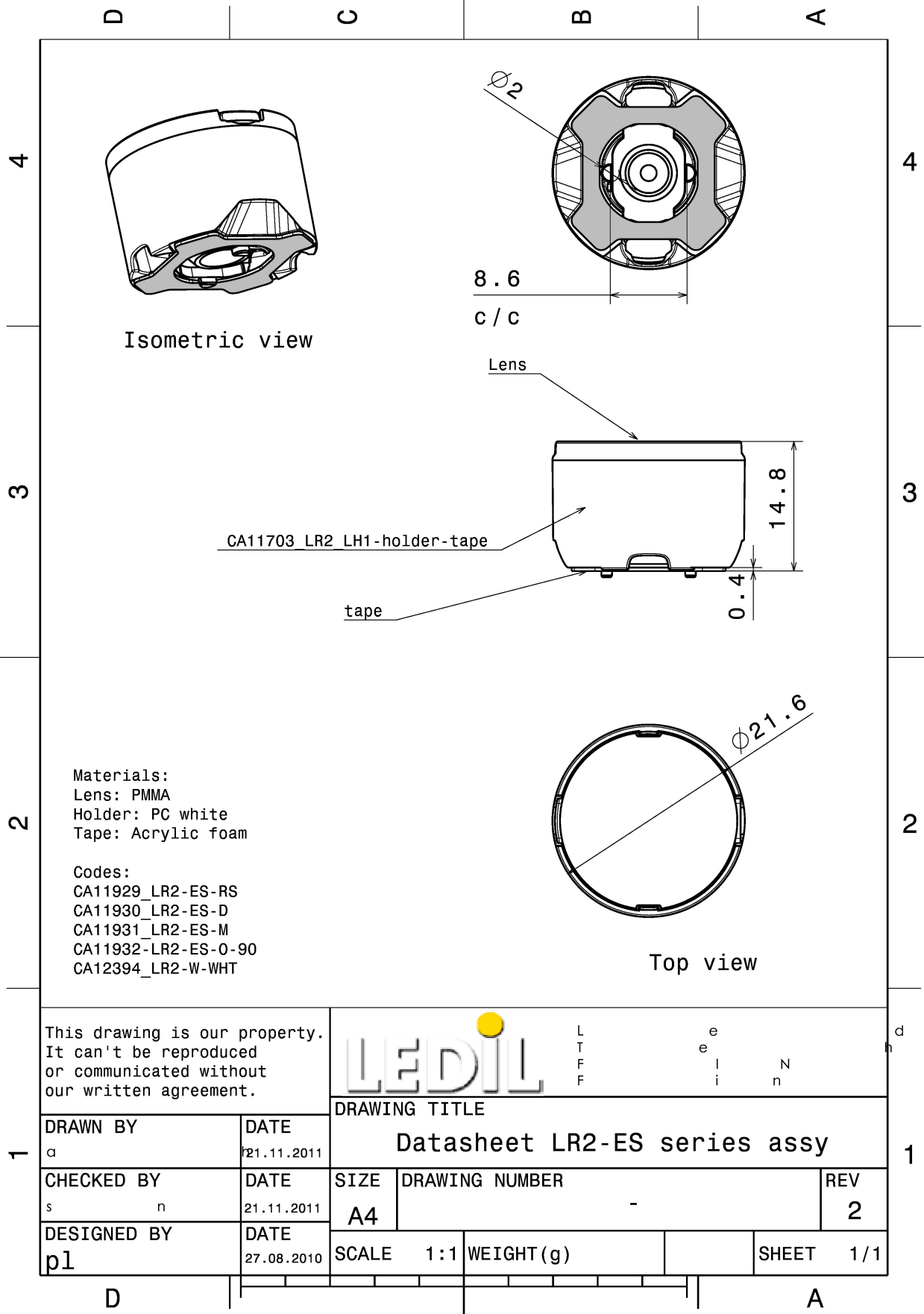
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LXP2-RS	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)
CA11929_LR2-RS	Single lens	1680	336	112	9.3
» Box size: 480 x 280 x 300 mm					





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DRAWING TITLE

Datasheet LR2-ES series assy

DRAWN BY  
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DATE  
21.11.2011

CHECKED BY  
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DATE  
21.11.2011

DESIGNED BY  
pl

DATE  
27.08.2010

SIZE  
A4

DRAWING NUMBER  
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REV  
2

SCALE  
1:1

WEIGHT (g)

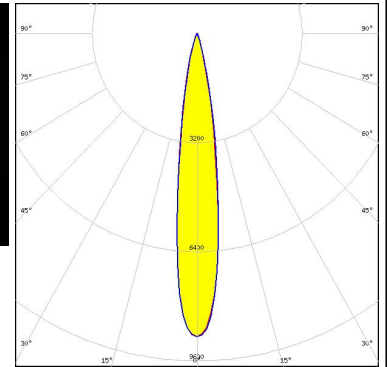
SHEET  
1/1

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

#### PHOTOMETRIC DATA (MEASURED):



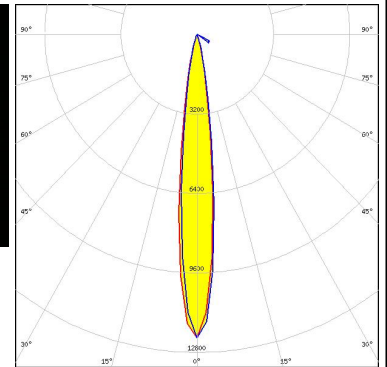
LED XP-L HD  
 FWHM / FWTM 16.0° / 31.0°  
 Efficiency 91 %  
 Peak intensity 8.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



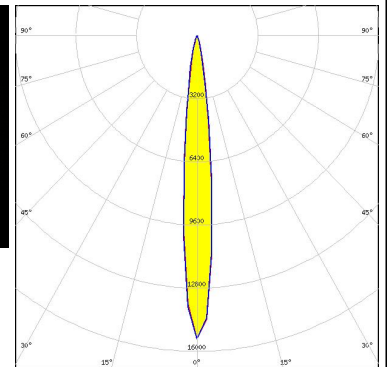
LED LUXEON Rebel ES  
 FWHM / FWTM 11.0°  
 Efficiency 94 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:




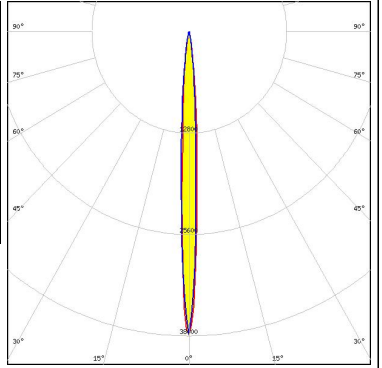

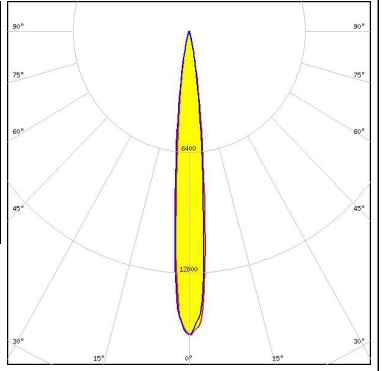

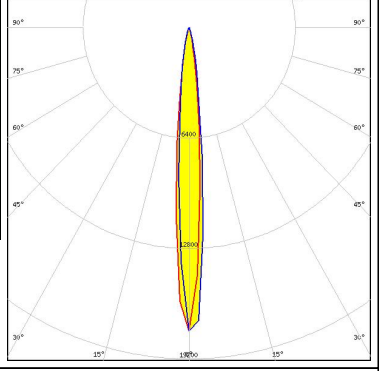


LED LUXEON T  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 91 %  
 Peak intensity 12.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON TX  
 FWHM / FWTM 11.0° / 23.0°  
 Efficiency 91 %  
 Peak intensity 15.4 cd/lm  
 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 6.0° / 16.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 38.3 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 11.0° / 23.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 16 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 OSLON Square EC</p> <p>FWHM / FWTM 10.0° / 22.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 17.6 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 PLPVEC2 850A</p> <p>FWHM / FWTM 5.0° / 12.0°</p> <p>Efficiency %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>		

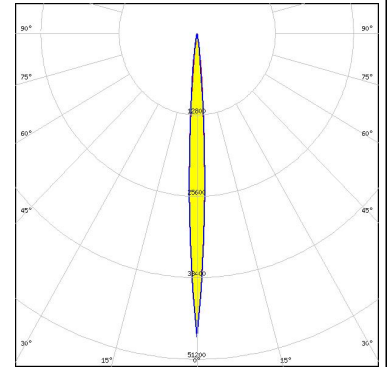
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE LED</b></p> <p>LED J Series 5050 Round LES</p> <p>FWHM / FWTM 18.0° / 41.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 5.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XD16</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 22.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XP-G2</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 22.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XQ-E HD</p> <p>FWHM / FWTM 7.0° / 15.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 39 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

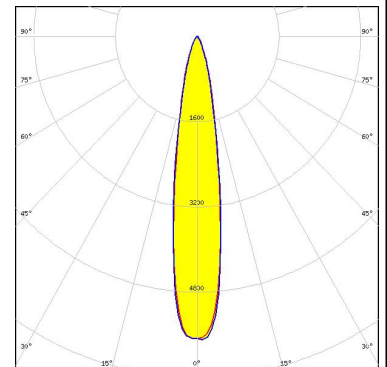
#### PHOTOMETRIC DATA (SIMULATED):



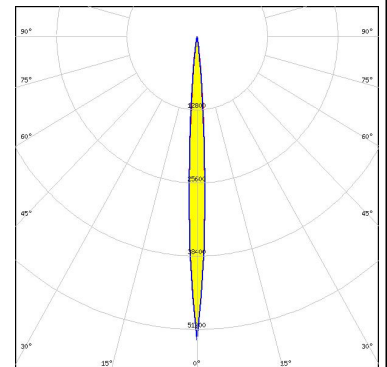
LED XQ-E HI  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 93 %  
 Peak intensity 47.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



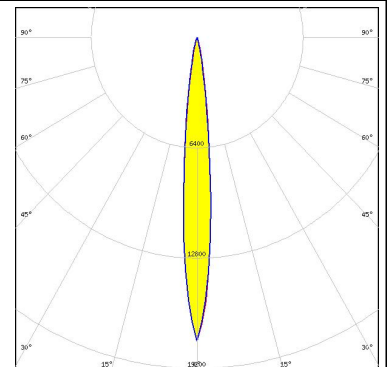
LED LUXEON 5050 Square LES  
 FWHM / FWTM 18.0° / 40.0°  
 Efficiency 97 %  
 Peak intensity 5.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON CZ  
 FWHM / FWTM 6.0° / 14.0°  
 Efficiency 95 %  
 Peak intensity 53 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:



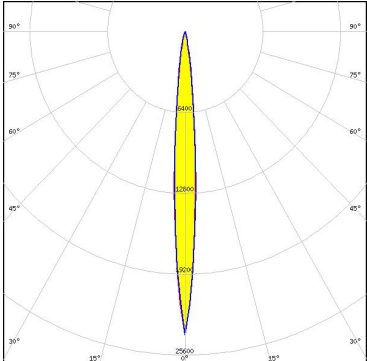
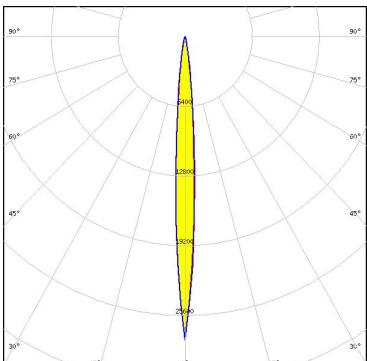
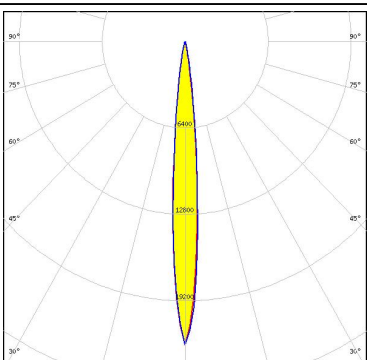
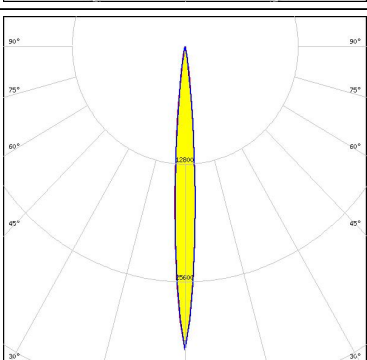
LED LUXEON H50-2  
 FWHM / FWTM 10.5° / 22.0°  
 Efficiency 93 %  
 Peak intensity 17.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON HL2X            FWHM / FWTM: 12.0° / 24.0°            Efficiency: 94 %            Peak intensity: 15.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON IR Domed 60            FWHM / FWTM: 8.0° / 20.0°            Efficiency: 92 %            LEDs/each optic: 1            Light colour: IR            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON V2            FWHM / FWTM: 11.0° / 24.0°            Efficiency: 94 %            Peak intensity: 16.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NV4WB35AM            FWHM / FWTM: 16.0° / 34.0°            Efficiency: 96 %            Peak intensity: 8.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

### PHOTOMETRIC DATA (SIMULATED):

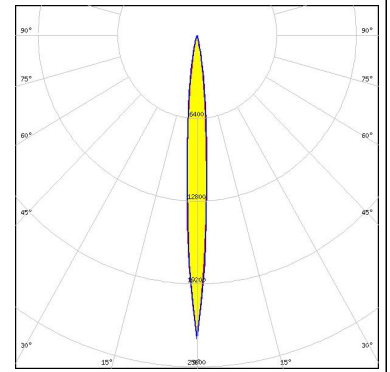
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ C 2424</p> <p>FWHM / FWTM 8.0° / 20.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 24 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 27.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 22.5 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 OSLON SSL 120</p> <p>FWHM / FWTM 8.0° / 16.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 33 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Amber</p> <p>Required components:</p>	



### PHOTOMETRIC DATA (SIMULATED):

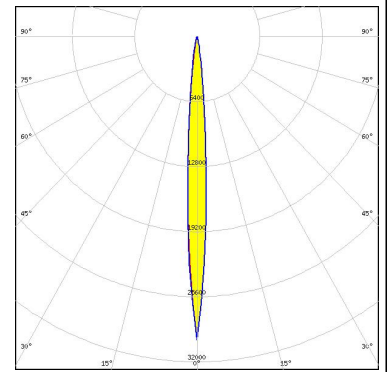
#### OSRAM Opto Semiconductors

LED SFH 4715AS  
FWHM / FWTM 8.0° / 20.0°  
Efficiency 94 %  
Peak intensity 23.4 cd/lm  
LEDs/each optic 1  
Light colour IR  
Required components:



#### OSRAM Opto Semiconductors

LED SFH 4770S  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 95 %  
Peak intensity 29.9 cd/lm  
LEDs/each optic 1  
Light colour IR  
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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