

## 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 ⓘ

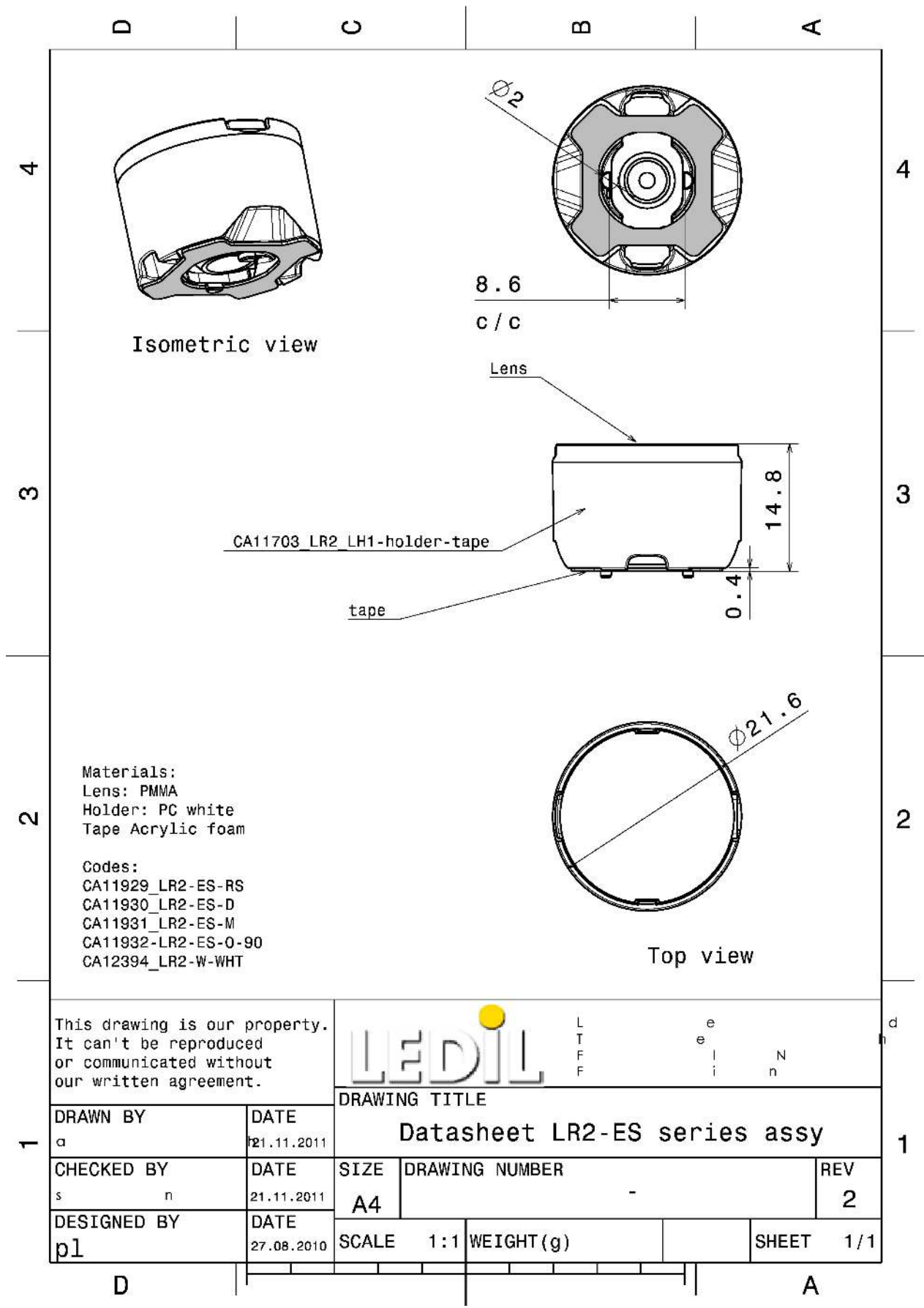
### MATERIALS:

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					



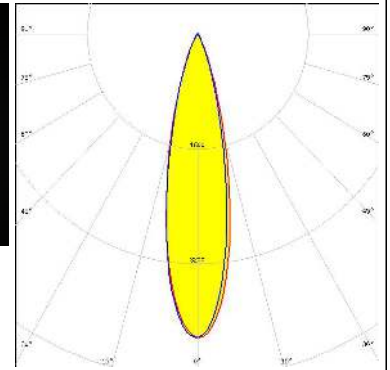
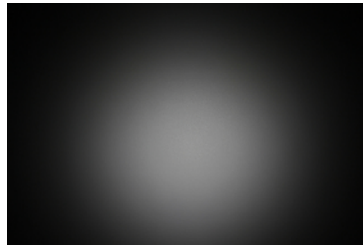


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



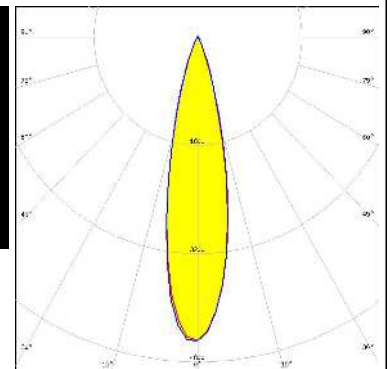
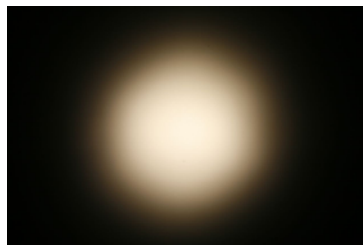
LED XP-L HD  
 FWHM / FWTM 24.0° / 46.0°  
 Efficiency 90 %  
 Peak intensity 4.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



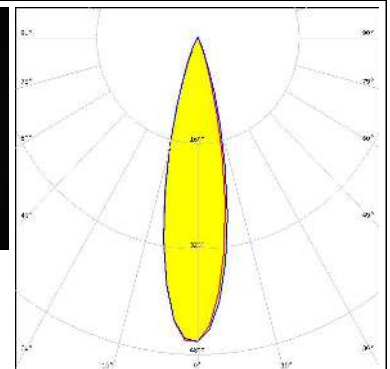
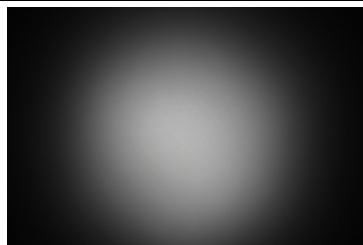
LED LUXEON Rebel ES  
 FWHM / FWTM 22.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:




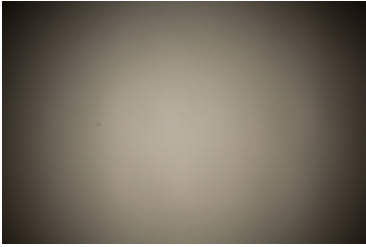
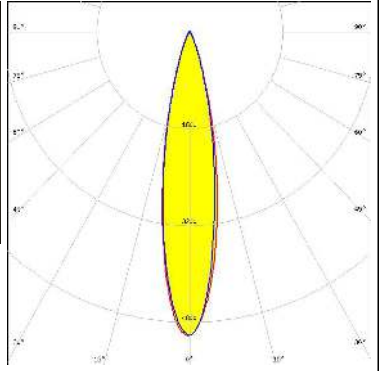

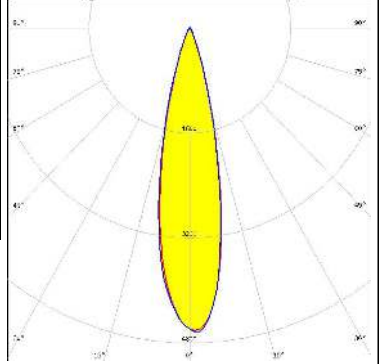
LED LUXEON T  
 FWHM / FWTM 25.0° / 44.0°  
 Efficiency 90 %  
 Peak intensity 4.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



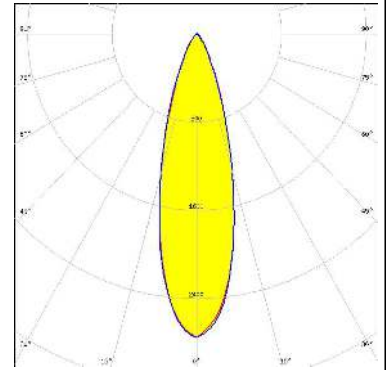
## OPTICAL RESULTS (MEASURED):

<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> Opto Semiconductors</p> <p>LED OSLON 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):

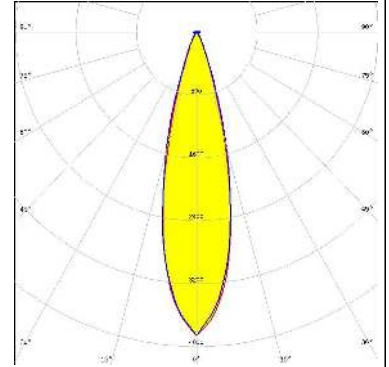
#### CREE LED

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:



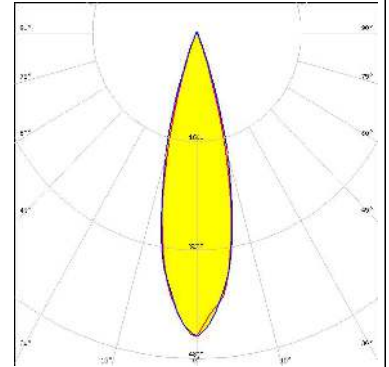
#### CREE LED

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:



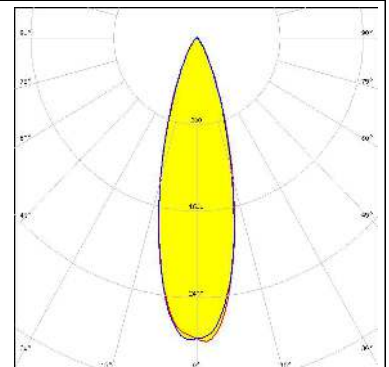
#### CREE LED

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:

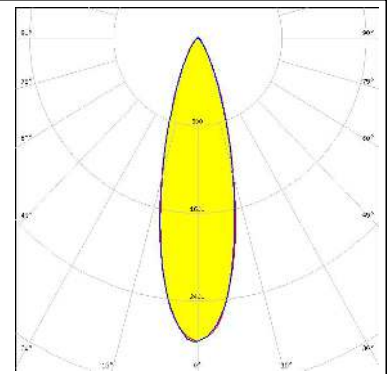
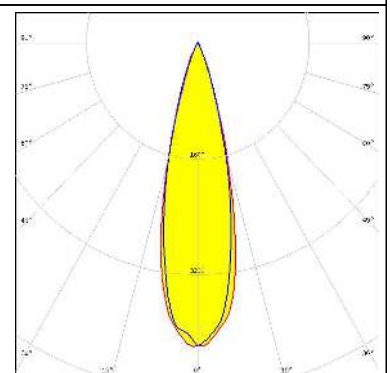
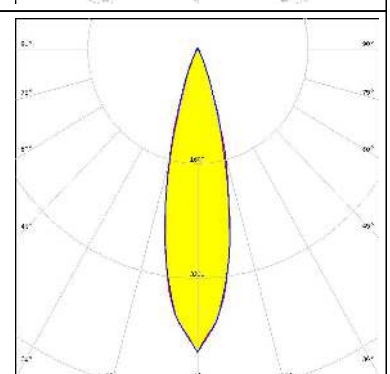
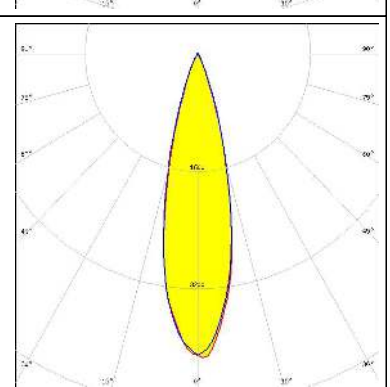


#### LUMILEDS

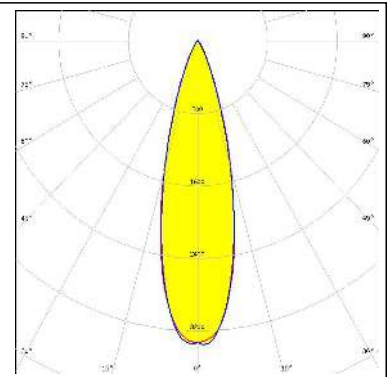
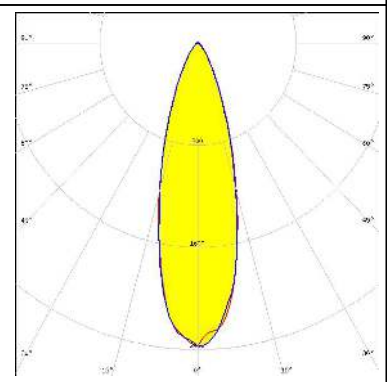
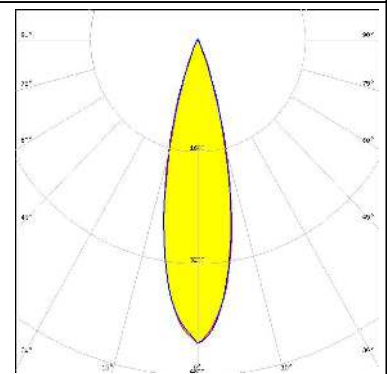
LED LUXEON 5050 Round LES  
 FWHM / FWTM 30.0° / 56.0°  
 Efficiency 94 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### 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</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>NICHIA</b></p> <p>LED NV4WB35AM            FWHM / FWTM 28.0° / 50.0°            Efficiency 95 %            Peak intensity 3.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S8            FWHM / FWTM 30.0° / 61.0°            Efficiency 93 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3            FWHM / FWTM 26.0° / 43.0°            Efficiency 95 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

### 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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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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