

## LARISA-RS-CLIP16

~19° real spot beam. Clip fastening for 1.6 mm thick PCB

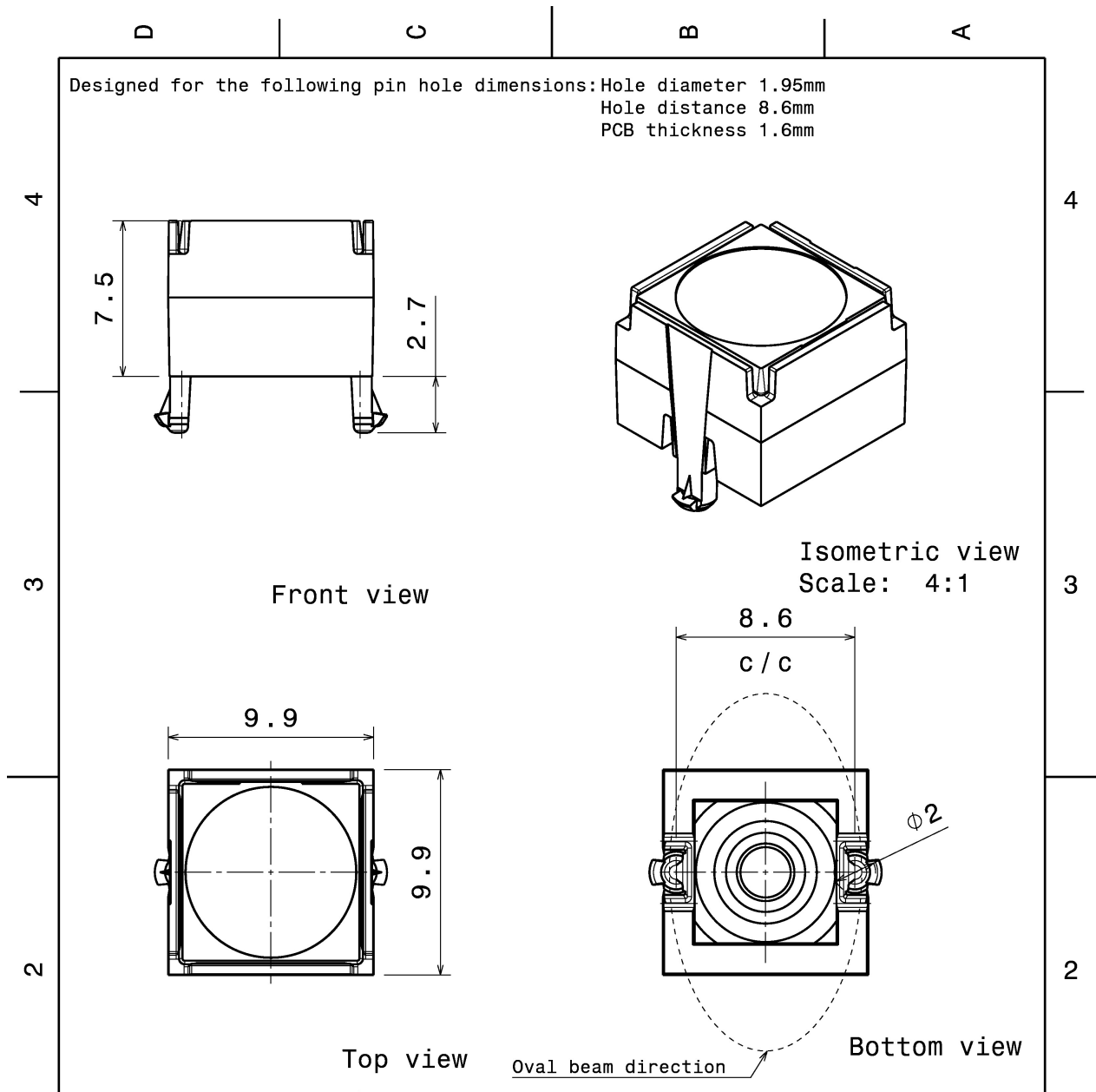
### TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	7.5 mm
Fastening	clips
Colour	black
Box size	
Box weight	5.8 kg
Quantity in Box	10000 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LARISA-RS	Single lens	PMMA	clear
LARISA-HOLDER-CLIP16	Holder	PC	black



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	LARISA lens	PMMA	
2	C12908	LARISA-HOLDER-CLIP16	PC	black

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL**

Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

LARISA-CLIP16 series

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SIZE PART NUMBER

A4

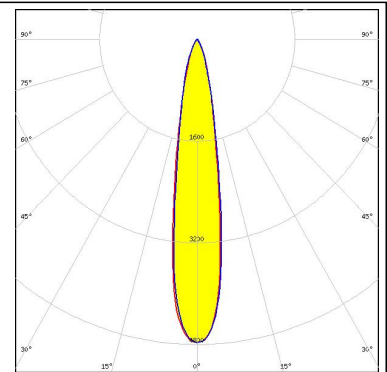
0,6 g

SHEET 1/1

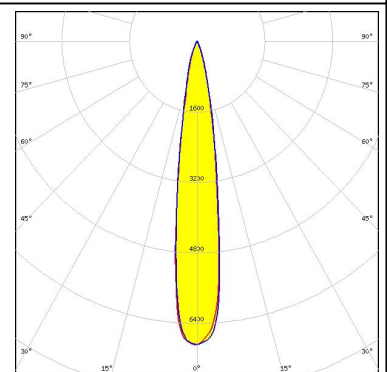
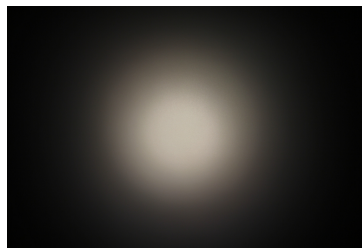
#### PHOTOMETRIC DATA (MEASURED):



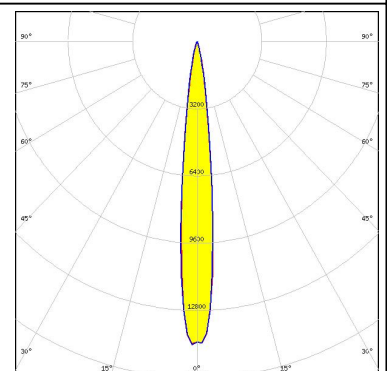
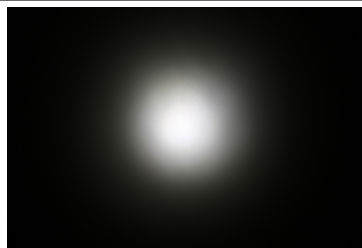
LED XD16  
 FWHM 18.0°  
 Efficiency 80 %  
 Peak intensity 4.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



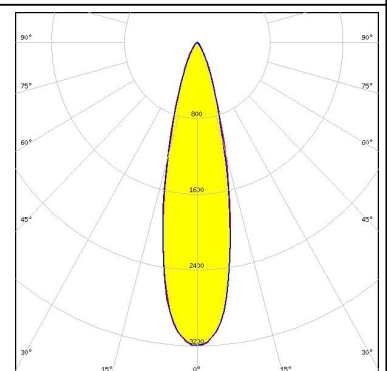
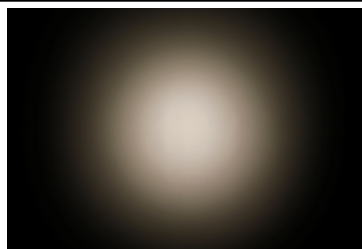
LED XQ-E HD  
 FWHM 16.0°  
 Efficiency 86 %  
 Peak intensity 6.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XQ-E HI  
 FWHM 11.0°  
 Efficiency 80 %  
 Peak intensity 10.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



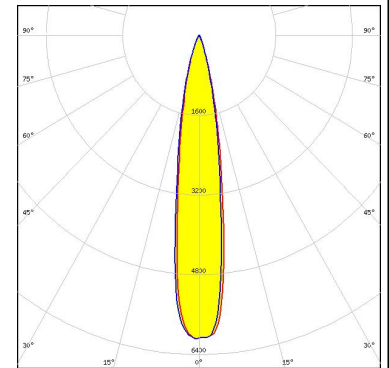
LED LUXEON A  
 FWHM 26.0°  
 Efficiency 89 %  
 Peak intensity 3.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

##### LUMILEDS

LED LUXEON C  
 FWHM 17.0°  
 Efficiency 86 %  
 Peak intensity 6.100 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



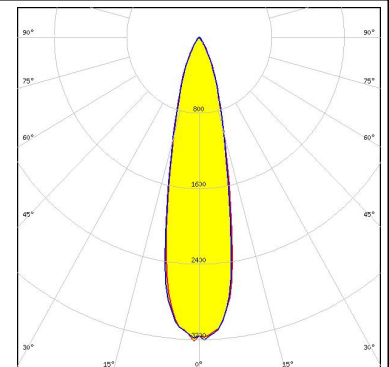
##### LUMILEDS

LED LUXEON Rebel  
 FWHM 20.0°  
 Efficiency 90 %  
 Peak intensity 4.620 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



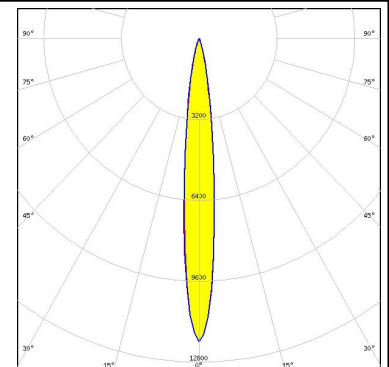
##### LUMILEDS

LED LUXEON Rebel ES  
 FWHM 24.0°  
 Efficiency 88 %  
 Peak intensity 3.220 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:


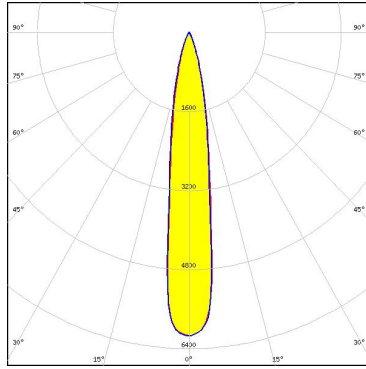

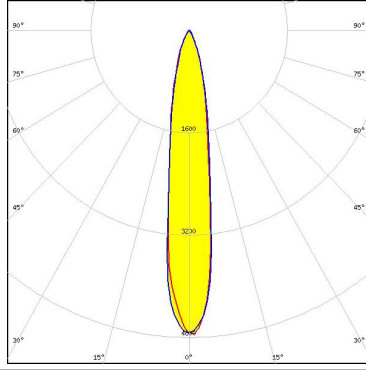

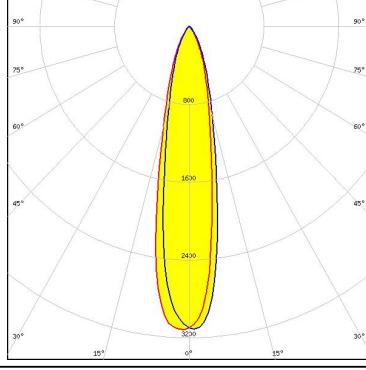

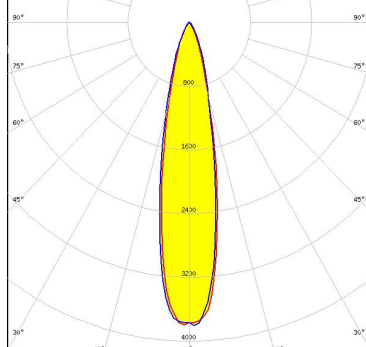


##### LUMILEDS

LED LUXEON Z  
 FWHM 11.0°  
 Efficiency 85 %  
 Peak intensity 12.140 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Z ES            FWHM 16.0°            Efficiency 89 %            Peak intensity 6.100 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19A            FWHM 16.0°            Efficiency 84 %            Peak intensity 4.750 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19A            FWHM 21.0°            Efficiency 81 %            Peak intensity 3.140 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Oslon Square EC            FWHM 22.0°            Efficiency 86 %            Peak intensity 3.830 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

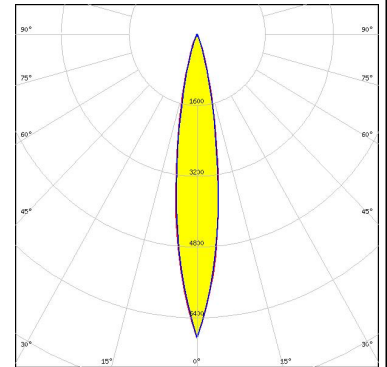
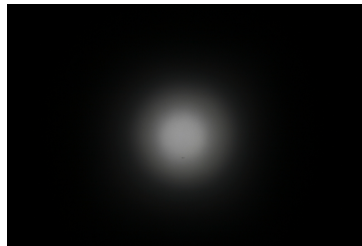
##### OSRAM Opto Semiconductors

LED Oslon SSL 150  
FWHM 16.0°  
Efficiency 87 %  
Peak intensity 8.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM Opto Semiconductors

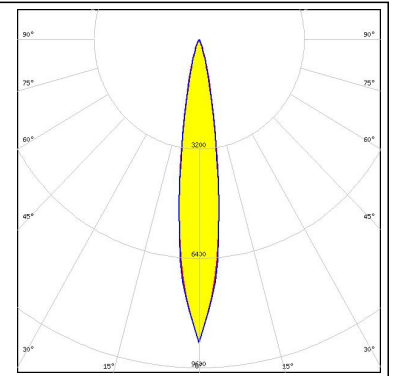
LED Oslon SSL 80  
FWHM 16.0°  
Efficiency 83 %  
Peak intensity 6.450 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (SIMULATED):

**CREE** 

LED XP-E  
FWHM 15.0°  
Efficiency 92 %  
Peak intensity 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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