

## BILLIE-A

Asymmetric beam for billboards. Assembly with holder and installation tape.

### SPECIFICATION:

Dimensions	Ø 21.5
Height	16.1 mm
Fastening	tape, pin
ROHS compliant	yes 

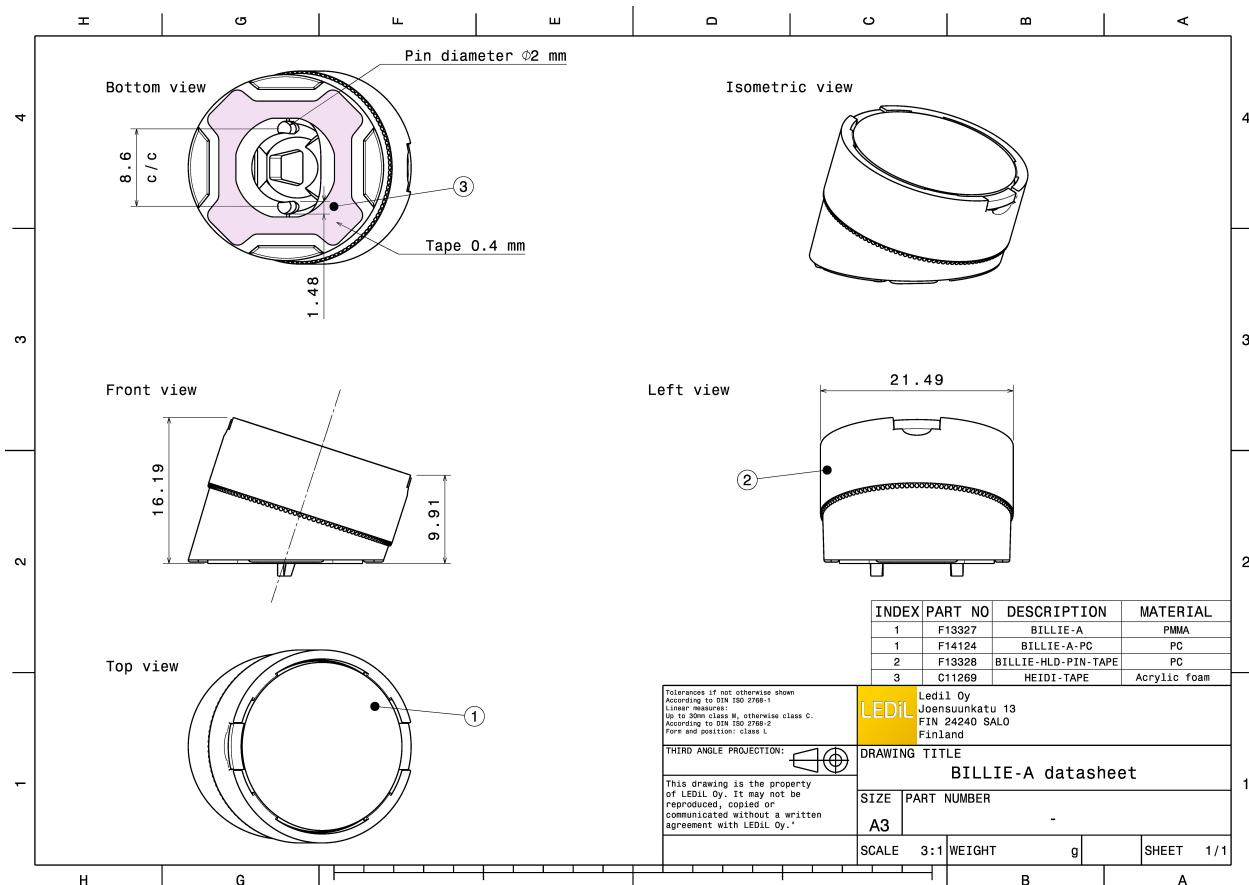


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
BILLIE-A	Single lens	PMMA	clear		
BILLIE-HLD-PIN-TAPE	Holder	PC	white		
HEIDI-TAPE	Tape	Acryl tape	black		

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FCA13329_BILLIE-A » Box size: 480 x 280 x 300 mm	1792	336	112	7.7

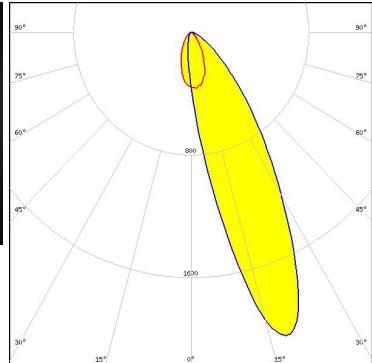


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

## OPTICAL RESULTS (MEASURED):



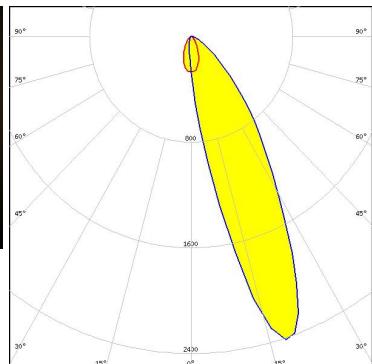
LED XB-D  
 FWHM / FWTM Asymmetric  
 Efficiency 85 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



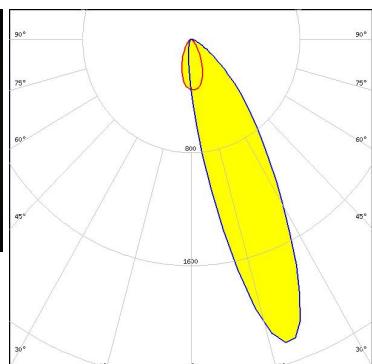
LED XP-E  
 FWHM / FWTM Asymmetric  
 Efficiency 89 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

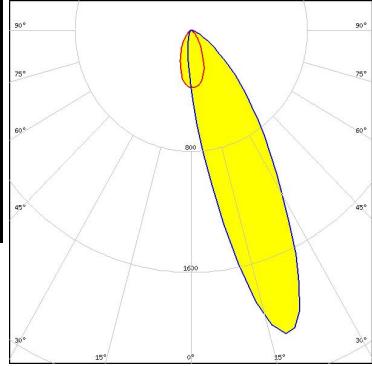


Light distribution files

## OPTICAL RESULTS (MEASURED):



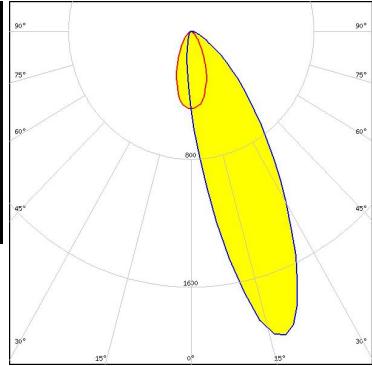
LED LUXEON A  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



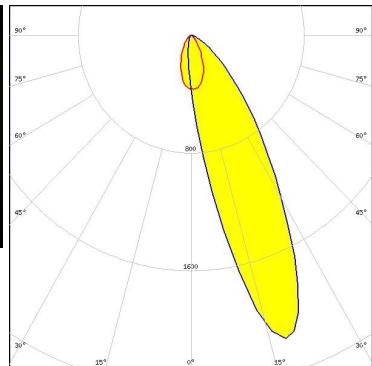
LED LUXEON R  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON Rebel  
 FWHM / FWTM Asymmetric  
 Efficiency 87 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

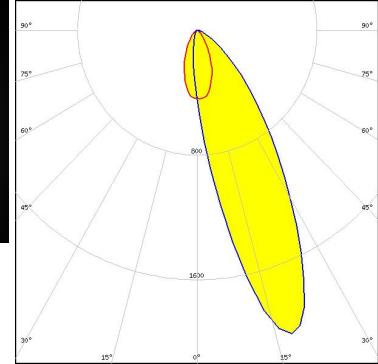


Light distribution files

## OPTICAL RESULTS (MEASURED):



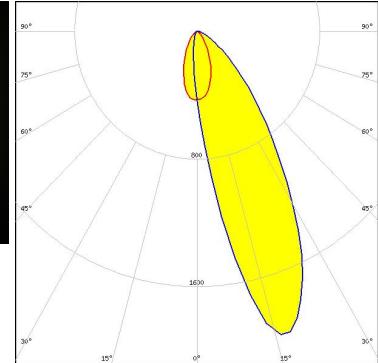
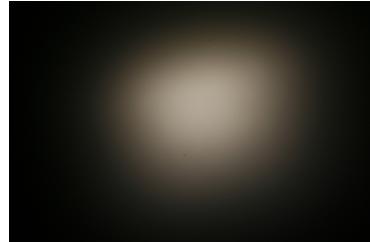
LED LUXEON Rebel ES  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



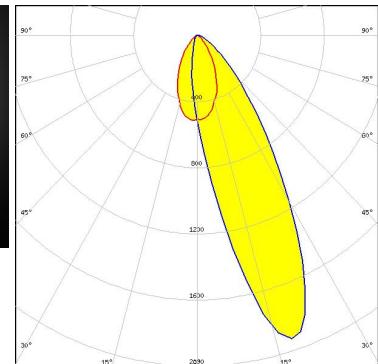
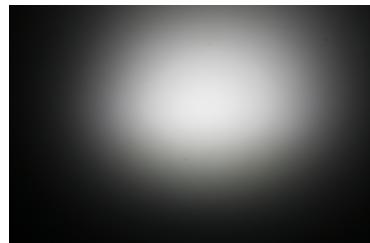
LED NCSxx19A  
 FWHM / FWTM Asymmetric  
 Efficiency 86 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NF2x757A  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

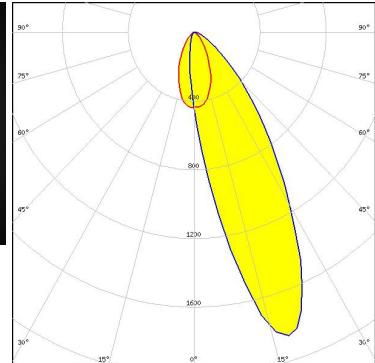
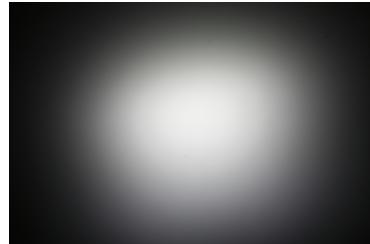


Light distribution files

## OPTICAL RESULTS (MEASURED):



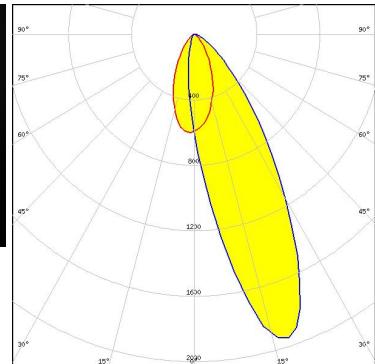
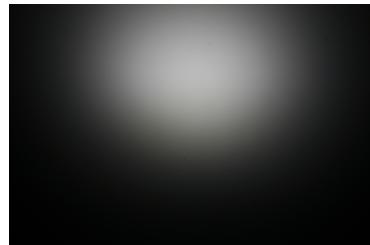
LED NVSxx19A  
 FWHM / FWTM Asymmetric  
 Efficiency 85 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



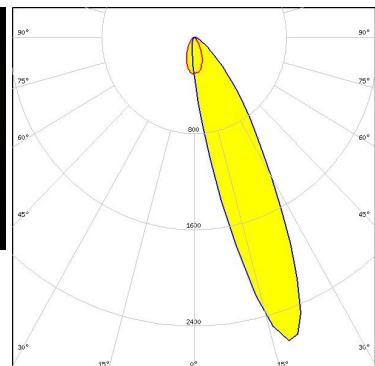
LED Duris S5 (2 chip)  
 FWHM / FWTM Asymmetric  
 Efficiency 90 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED OSLON SSL 150  
 FWHM / FWTM Asymmetric  
 Efficiency 88 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

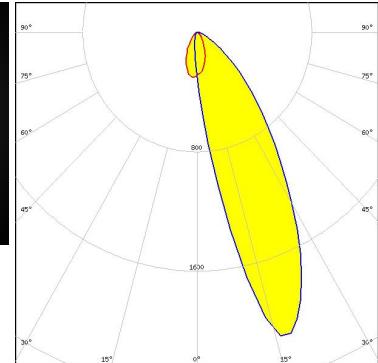
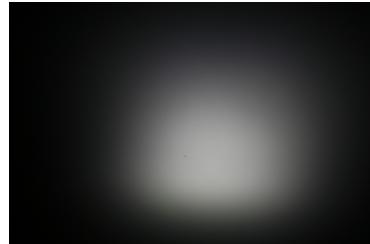


Light distribution files

## OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED OSLON SSL 80  
FWHM / FWTM Asymmetric  
Efficiency 88 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

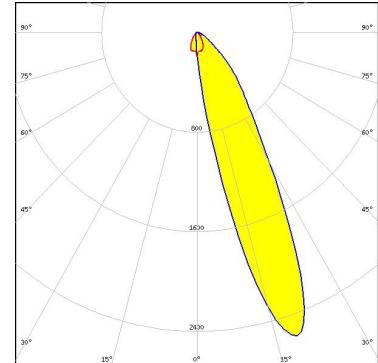


Light distribution files

## OPTICAL RESULTS (SIMULATED):

### LUMILEDS

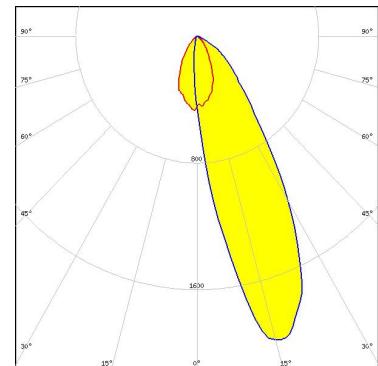
LED LUXEON C  
FWHM / FWTM Asymmetric  
Efficiency 90 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### NICHIA

LED NF2x757G  
FWHM / FWTM Asymmetric  
Efficiency 93 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

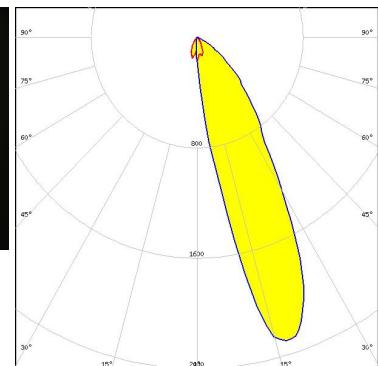
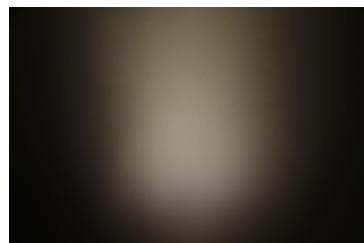


Light distribution files

### OSRAM

Opto Semiconductors

LED OSLON Square EC  
FWHM / FWTM Asymmetric  
Efficiency 86 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

## 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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