

## BILLIE-A

Asymmetric beam for billboards. Assembly with holder.

### SPECIFICATION:

Dimensions	Ø 21.5 mm
Height	16.1 mm
Fastening	pin
ROHS compliant	yes ⓘ

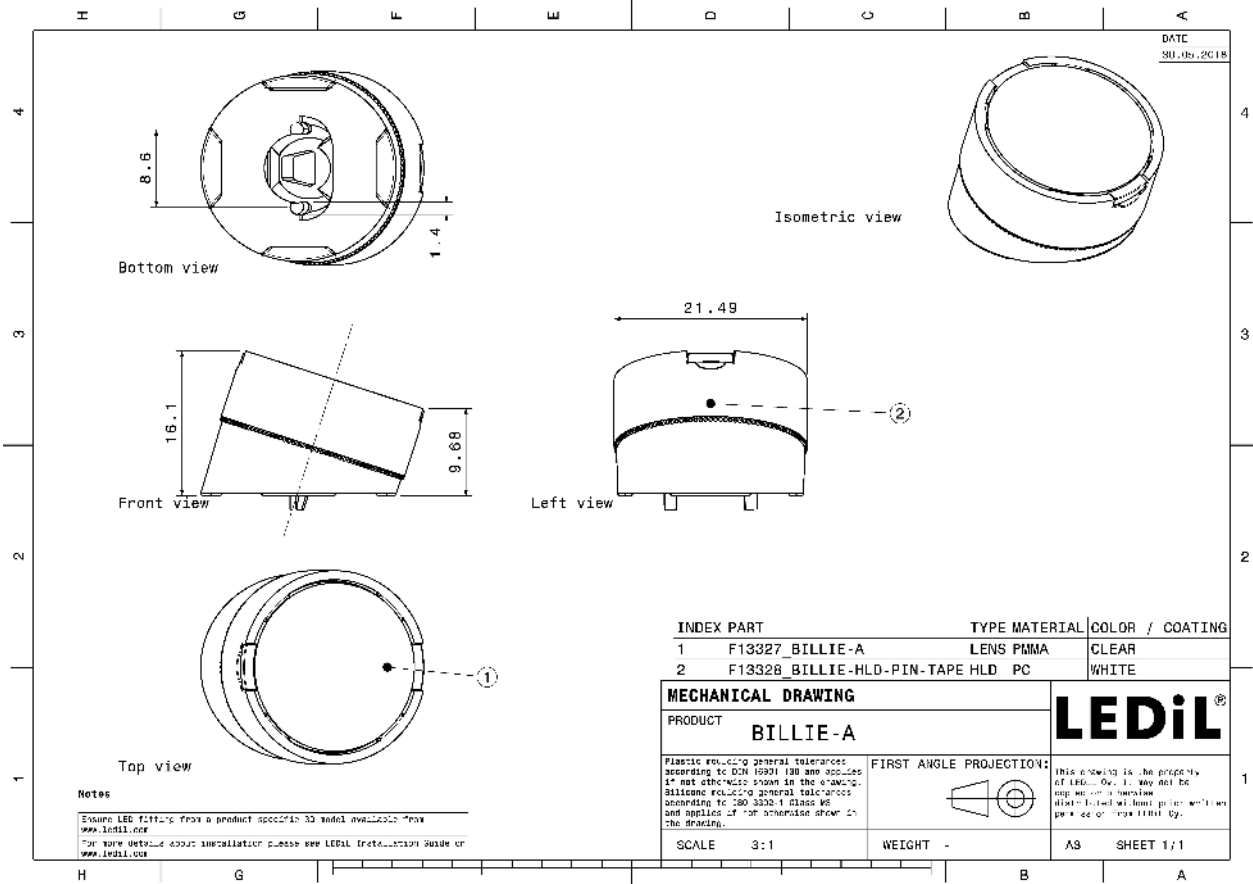
### MATERIALS:

Component	Type	Material	Colour	Finish
BILLIE-A	Single lens	PMMA	clear	
BILLIE-HLD-PIN-TAPE	Holder	PC	white	

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FN13888_BILLIE-A	Single lens	1344	96	96	0.0
» Box size:					





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

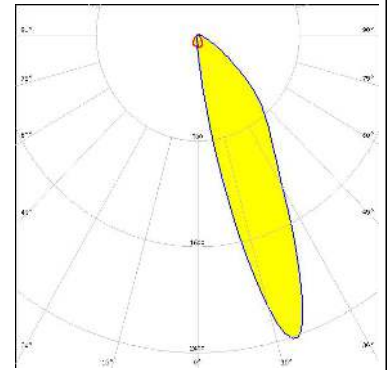
### OPTICAL RESULTS (MEASURED):

#### CREE LED

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

#### CREE LED

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



#### CREE LED

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

#### LUMILEDS

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

## OPTICAL RESULTS (MEASURED):

### LUMILEDS

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

### LUMILEDS

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

### LUMILEDS

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

### NICHIA

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

### OPTICAL RESULTS (MEASURED):



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

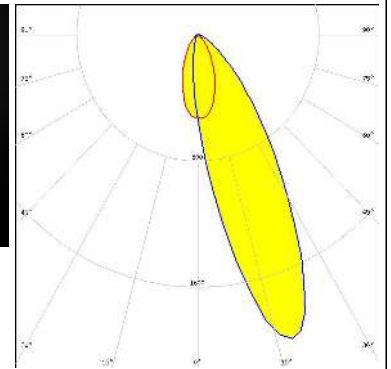
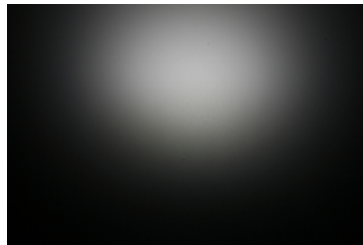


LED NVSxx19A  
FWHM / FWTM Asymmetric  
Efficiency 85 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



Osram Semiconductors

LED Duris S5 (2 chip)  
FWHM / FWTM Asymmetric  
Efficiency 87 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



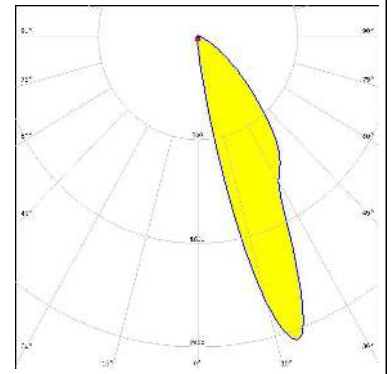
Osram Semiconductors

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

## OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

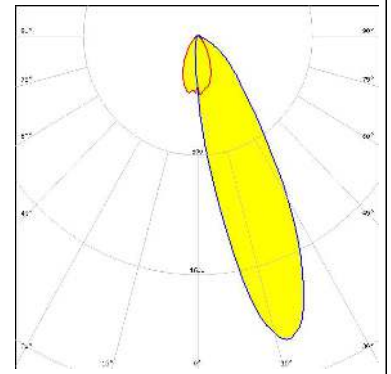
LED	OSLON SSL 80
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



## OPTICAL RESULTS (SIMULATED):



LED	NF2x757G
FWHM / FWTM	Asymmetric
Efficiency	94 %
Peak intensity	2.1 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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