

## BILLIE-A

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

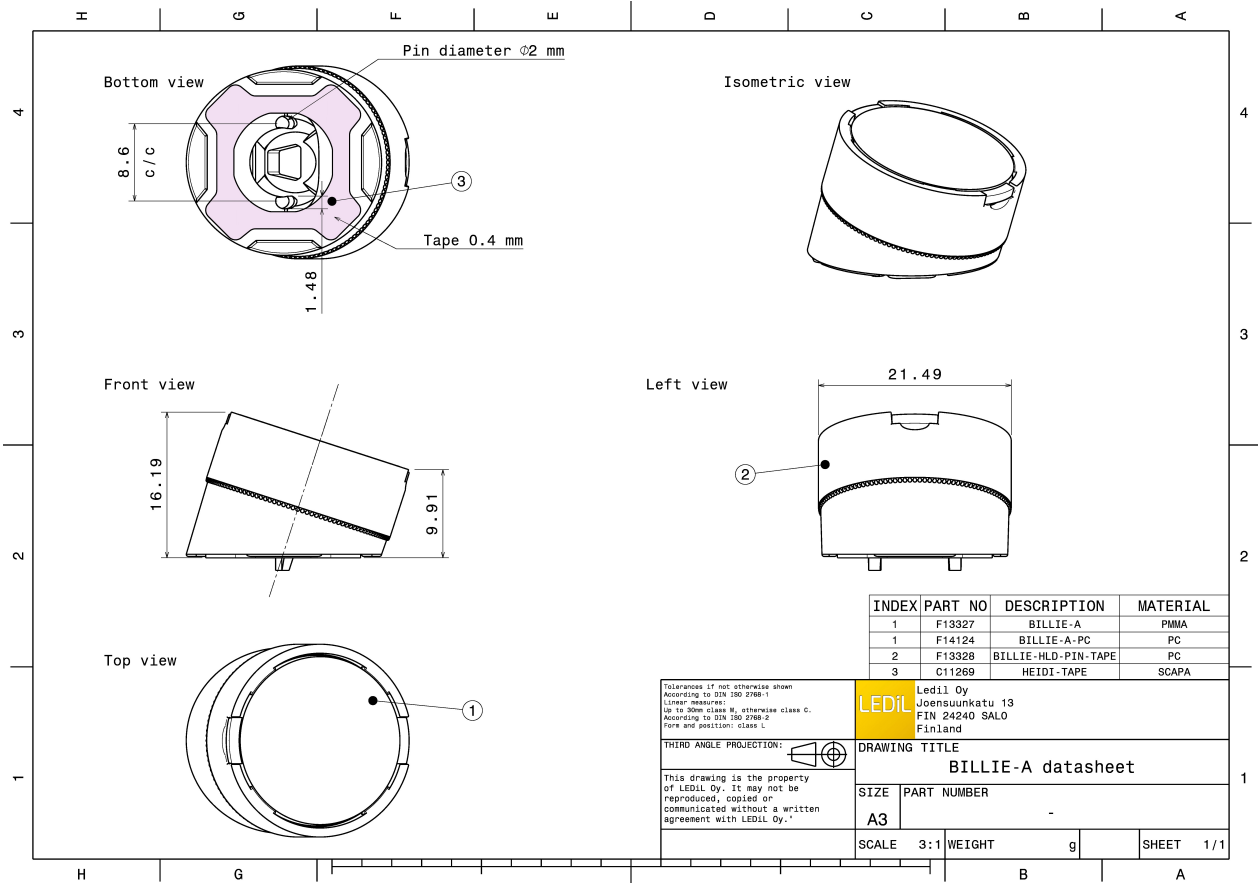
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.5 mm
Height	16.1 mm
Fastening	tape, pin
Colour	white
Box size	480 x 280 x 300 mm
Box weight	7.9 kg
Quantity in Box	1792 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

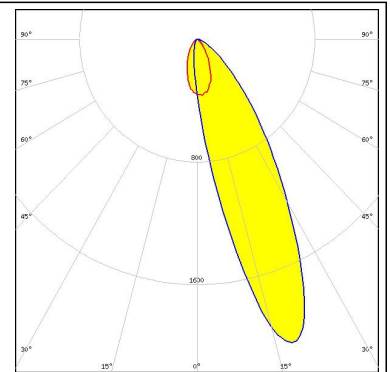
Component	Type	Material	Colour
BILLIE-A	Lens	PMMA	clear
BILLIE-HLD-PIN-TAPE	Holder	PC	white
HEIDI-TAPE	Tape	Acrylic tape	black



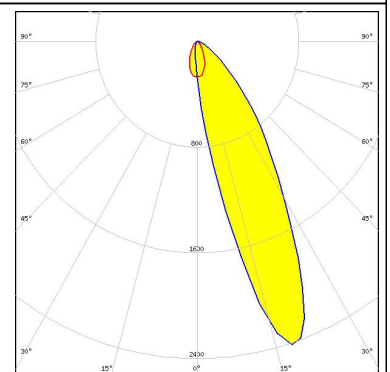
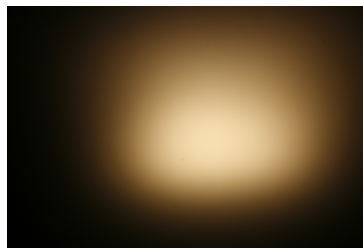
**PHOTOMETRIC DATA (MEASURED):**



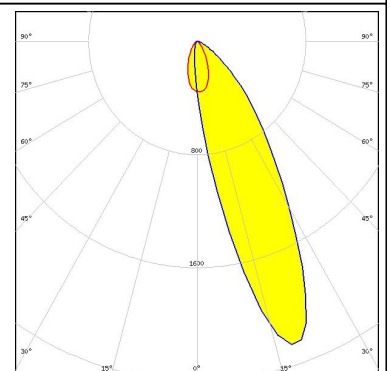
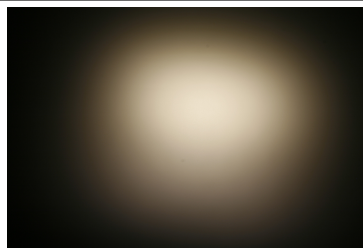
LED XB-D  
FWHM Asymmetric  
Efficiency 85 %  
Peak intensity 2.100 cd/lm  
Required components:



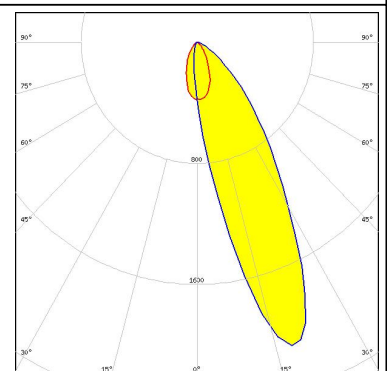
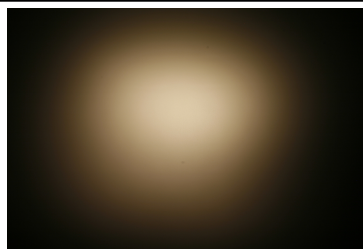
LED XP-E  
FWHM Asymmetric  
Efficiency 89 %  
Peak intensity 2.400 cd/lm  
Required components:



LED XP-G  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 2.200 cd/lm  
Required components:



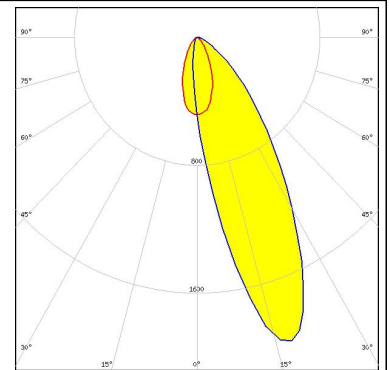
LED LUXEON A  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 2.100 cd/lm  
Required components:



### PHOTOMETRIC DATA (MEASURED):

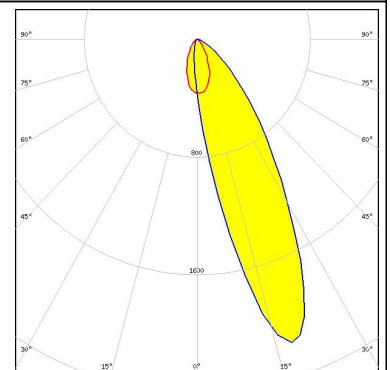
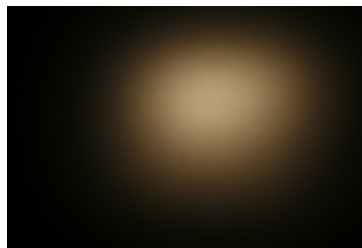
#### LUMILEDS

LED LUXEON R  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 2.000 cd/lm  
Required components:



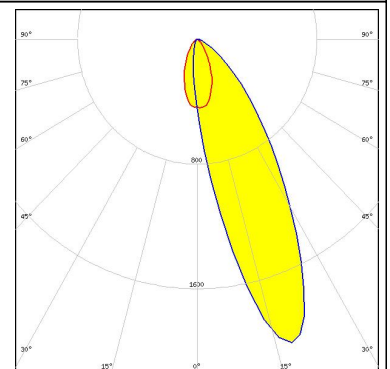
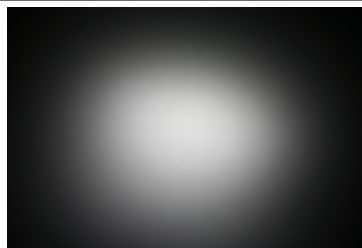
#### LUMILEDS

LED LUXEON Rebel  
FWHM Asymmetric  
Efficiency 87 %  
Peak intensity 2.200 cd/lm  
Required components:



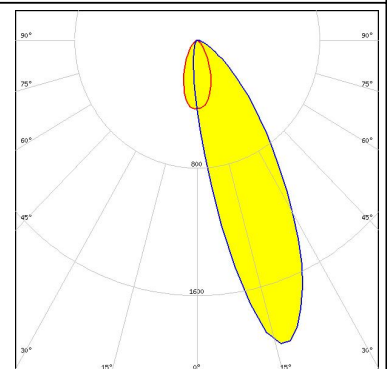
#### LUMILEDS

LED LUXEON Rebel ES  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 2.000 cd/lm  
Required components:



#### NICHIA

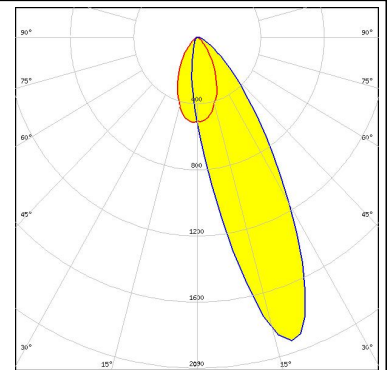
LED NCSxx19A  
FWHM Asymmetric  
Efficiency 86 %  
Peak intensity 2.000 cd/lm  
Required components:



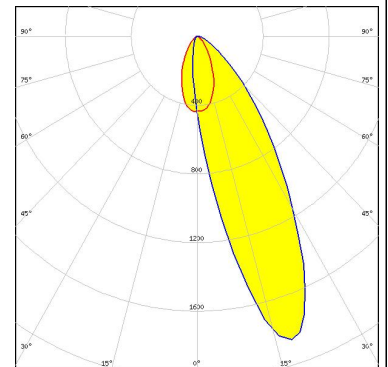
### PHOTOMETRIC DATA (MEASURED):



LED NF2x757A  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 1.900 cd/lm  
Required components:

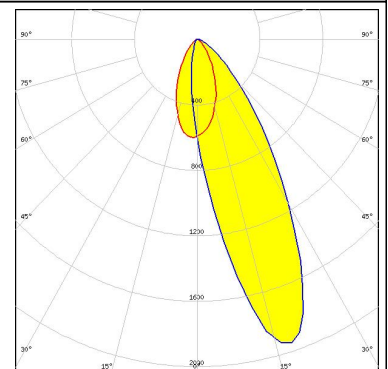
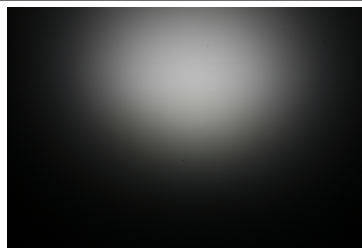


LED NVSxx19A  
FWHM Asymmetric  
Efficiency 85 %  
Peak intensity 1.900 cd/lm  
Required components:



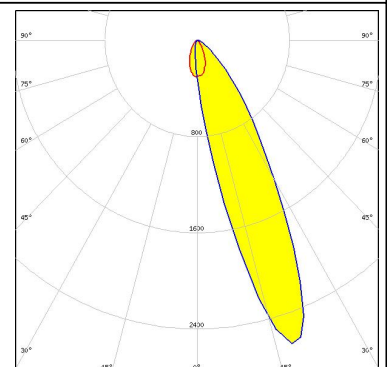
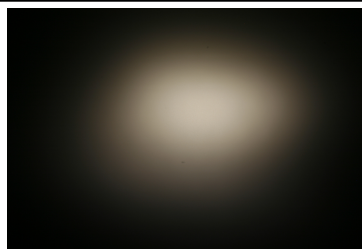
Opto Semiconductors

LED Duris S5 (2 chip)  
FWHM Asymmetric  
Efficiency 90 %  
Peak intensity 2.000 cd/lm  
Required components:



Opto Semiconductors

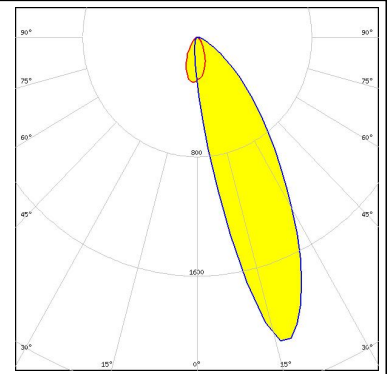
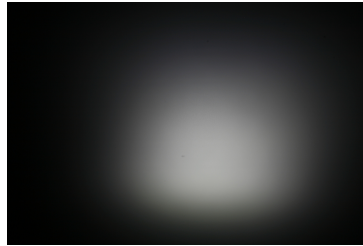
LED Oslon SSL 150  
FWHM Asymmetric  
Efficiency 88 %  
Peak intensity 2.700 cd/lm  
Required components:



## PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

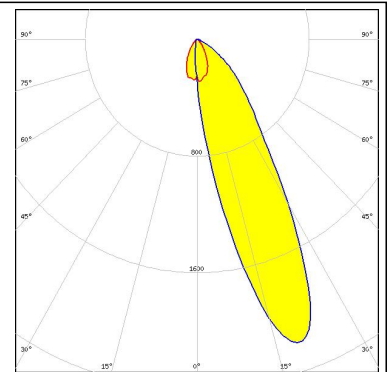
LED            Oslon SSL 80  
FWHM        Asymmetric  
Efficiency    88 %  
Peak intensity 2.100 cd/lm  
Required components:



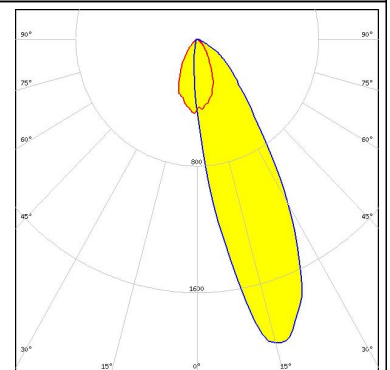
### PHOTOMETRIC DATA (SIMULATED):



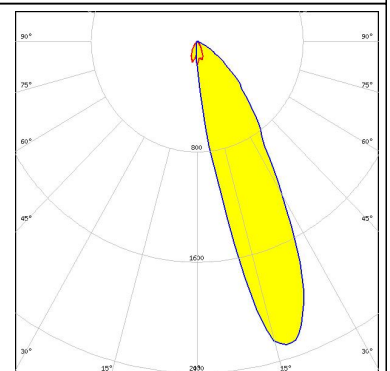
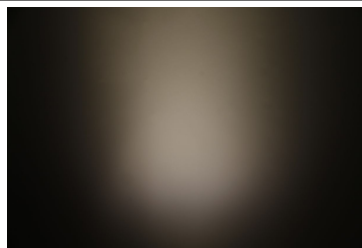
LED LUXEON TX  
FWHM Asymmetric  
Efficiency 91 %  
Peak intensity 2.200 cd/lm  
Required components:



LED NF2x757G  
FWHM Asymmetric  
Efficiency 93 %  
Peak intensity 2.000 cd/lm  
Required components:



LED Oslon Square EC  
FWHM Asymmetric  
Efficiency 86 %  
Peak intensity 2.290 cd/lm  
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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