

EMERALD-A

Asymmetric beam. Assembly with installation tape.

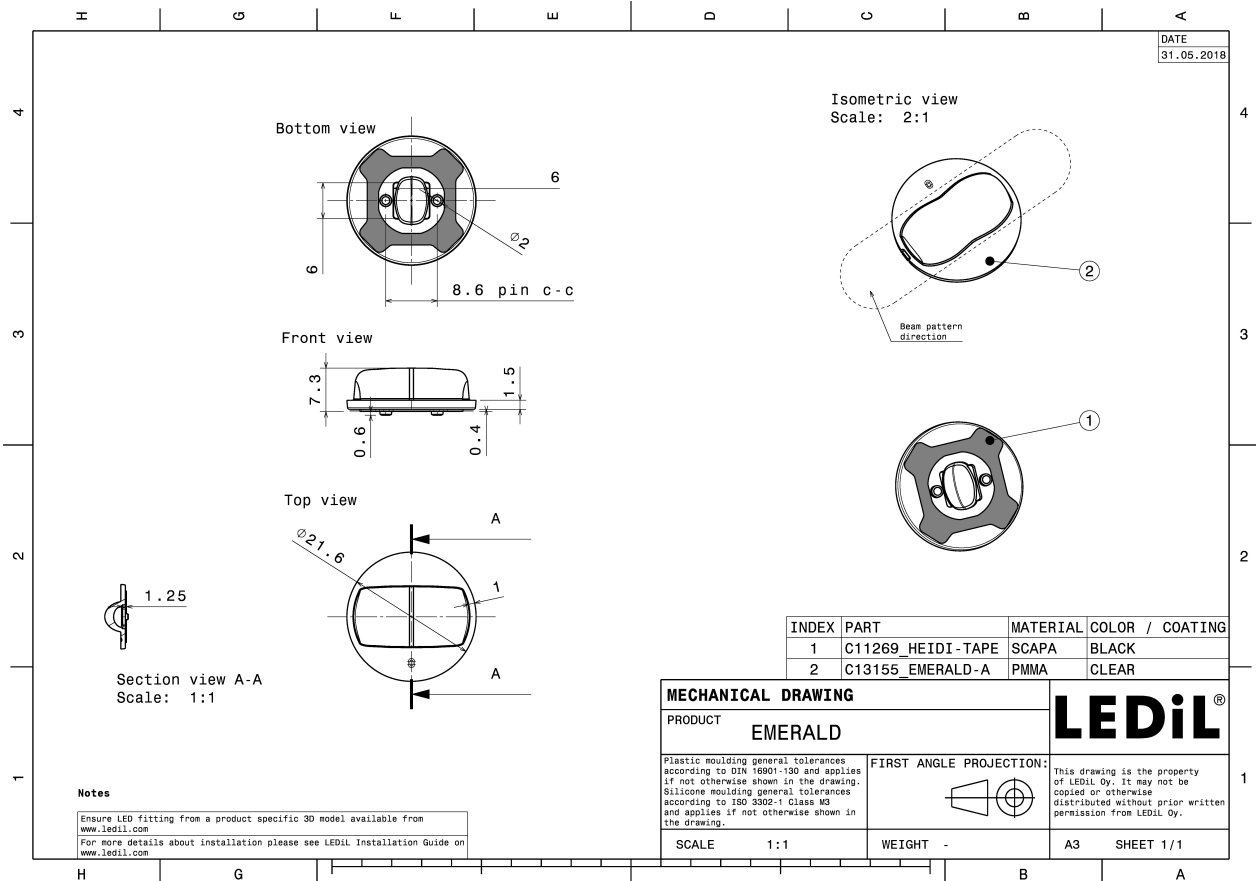
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	7.3 mm
Fastening	tape, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	4.6 kg
Quantity in Box	2016 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

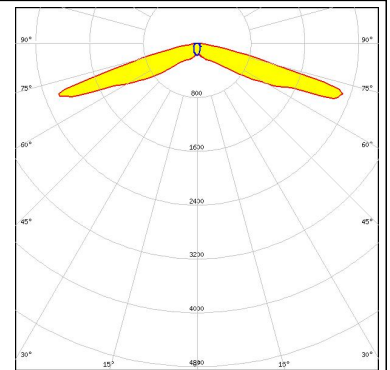
Component	Type	Material	Colour
EMERALD-A	Single lens	PMMA	clear
HEIDI-TAPE	Tape	PU tape	black



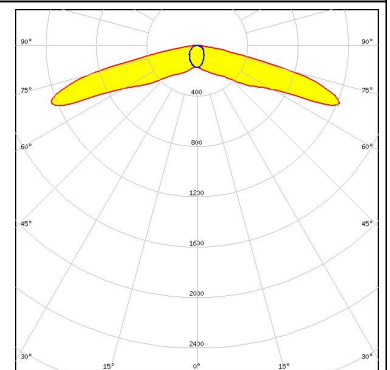
PHOTOMETRIC DATA (MEASURED):



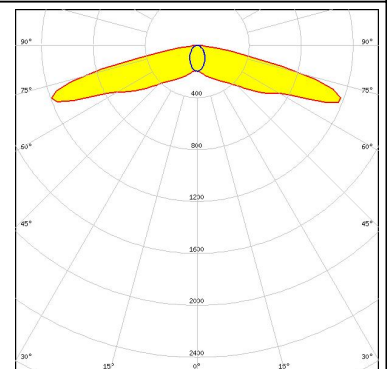
LED XB-D
FWHM 150.0 + 63.0°
Efficiency 88 %
Peak intensity 2.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



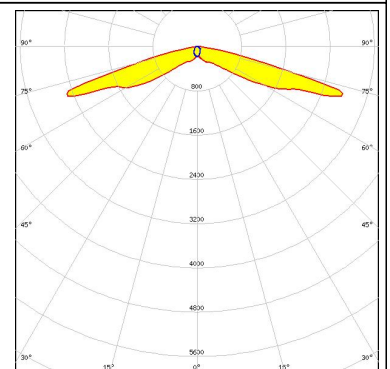
LED XM-L
FWHM 152.0 + 81.0°
Efficiency 91 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XM-L2
FWHM 167.0 + 71.0°
Efficiency 92 %
Peak intensity 1.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



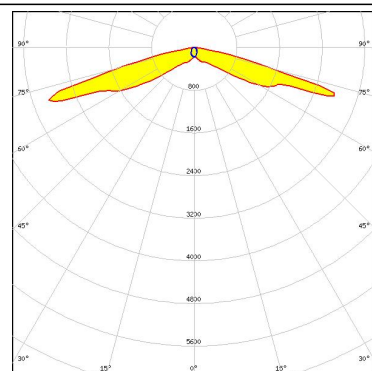
LED XP-E
FWHM 152.0 + 71.0°
Efficiency 93 %
Peak intensity 2.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



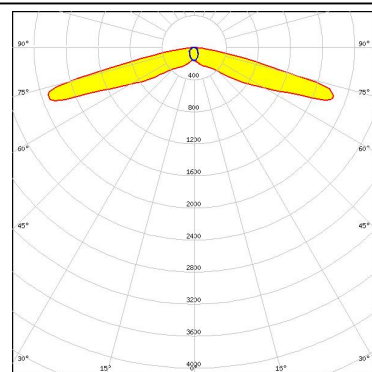
PHOTOMETRIC DATA (MEASURED):



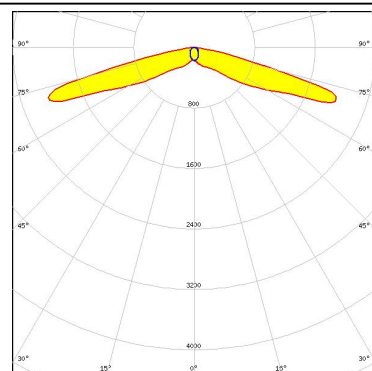
LED XP-E2
 FWHM 153.0 + 70.0°
 Efficiency 93 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



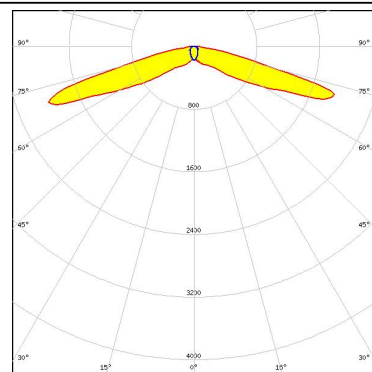
LED XP-G
 FWHM 153.0 + 92.0°
 Efficiency 88 %
 Peak intensity 1.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-G2
 FWHM 151.0 + 75.0°
 Efficiency 91 %
 Peak intensity 2.040 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



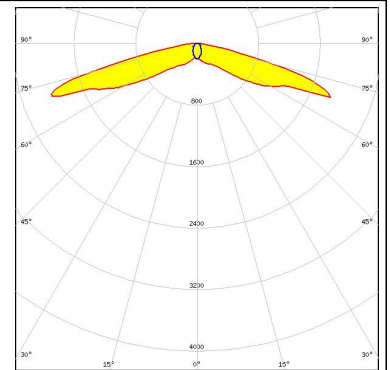
LED XT-E
 FWHM 150.0 + 64.0°
 Efficiency 88 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

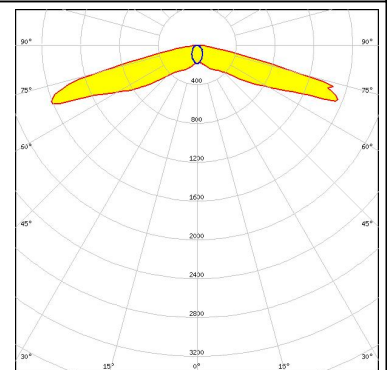
LG Innotek

LED H35B0 (LEMWA32)
 FWHM 153.0 + 64.0°
 Efficiency 93 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



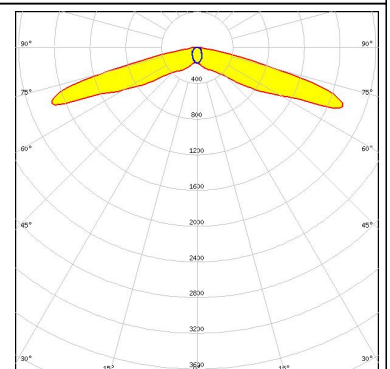
LG Innotek

LED H35C0 (LEMWA33)
 FWHM 153.0 + 68.0°
 Efficiency 90 %
 Peak intensity 1.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



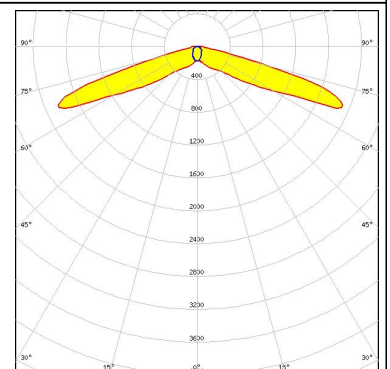
LUMILEDS

LED LUXEON A
 FWHM 151.0 + 73.0°
 Efficiency 89 %
 Peak intensity 1.750 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMILEDS

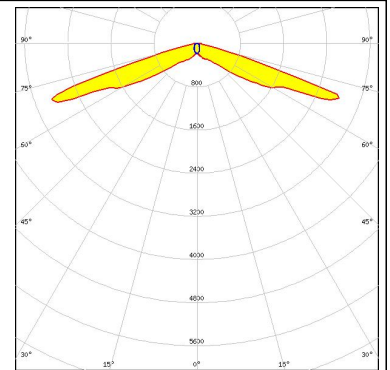
LED LUXEON R
 FWHM 147.0 + 71.0°
 Efficiency 88 %
 Peak intensity 1.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

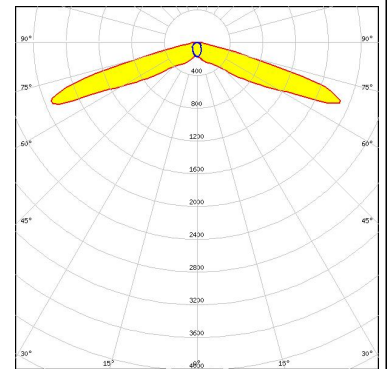
LUMILEDS

LED LUXEON Rebel
FWHM 146.0 + 64.0°
Efficiency 88 %
Peak intensity 2.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



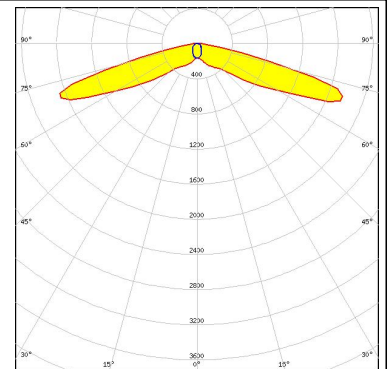
LUMILEDS

LED LUXEON Rebel ES
FWHM 147.0 + 73.0°
Efficiency 88 %
Peak intensity 1.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



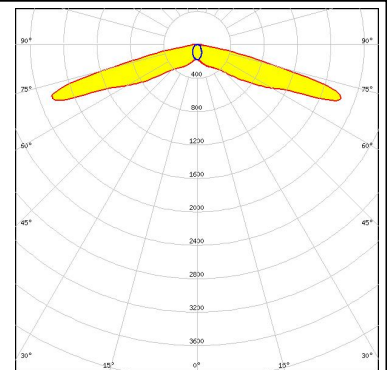
LUMILEDS

LED LUXEON T
FWHM 151.0 + 75.0°
Efficiency 93 %
Peak intensity 1.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

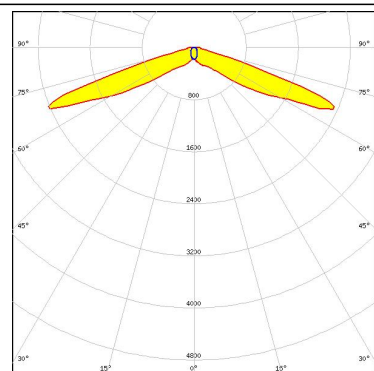
LED LUXEON TX
FWHM 151.0 + 71.0°
Efficiency 92 %
Peak intensity 1.850 cd/lm
LEDs/each optic 1
Light colour White
Required components:



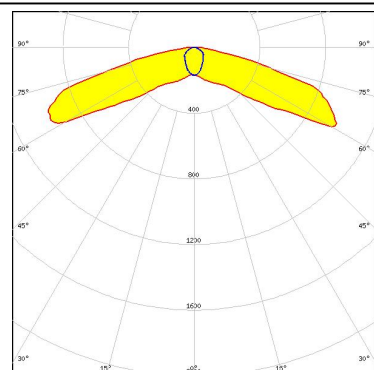
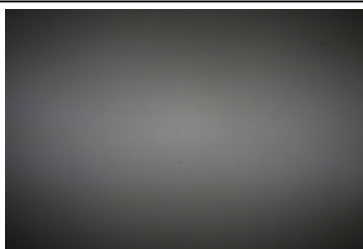
PHOTOMETRIC DATA (MEASURED):



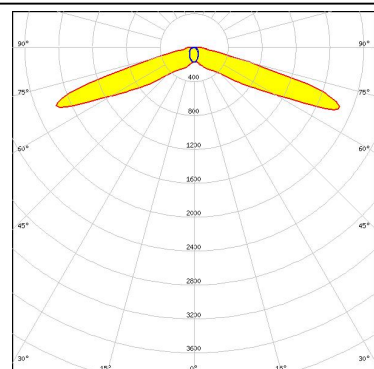
LED NCSxx19A
FWHM 145.0 + 64.0°
Efficiency 88 %
Peak intensity 2.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



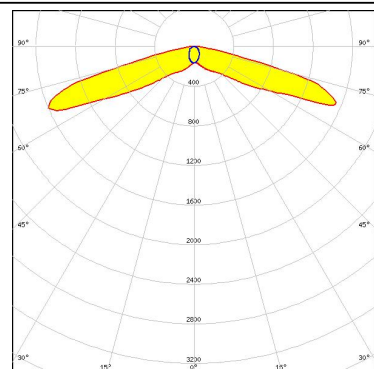
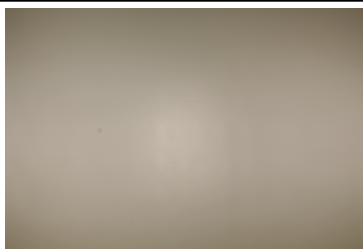
LED NS9x383
FWHM 150.0 + 82.0°
Efficiency 89 %
Peak intensity 1.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19A
FWHM 147.0 + 70.0°
Efficiency 87 %
Peak intensity 1.850 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM 151.0 + 77.0°
Efficiency 87 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:

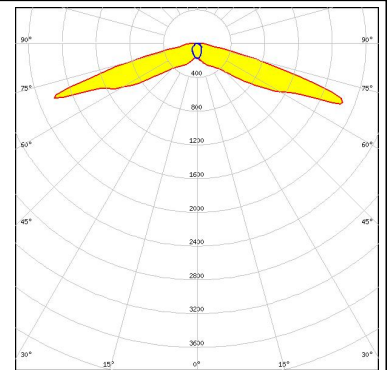


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

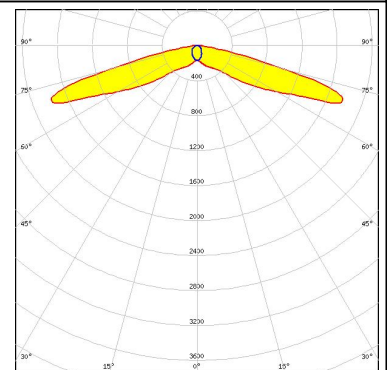
LED Oslon Square EC
 FWHM 150.0 + 76.0°
 Efficiency 89 %
 Peak intensity 1.850 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

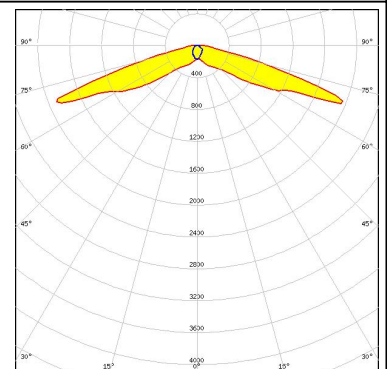
LED Oslon Square Gen3
 FWHM 152.0 + 76.0°
 Efficiency 90 %
 Peak intensity 1.780 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

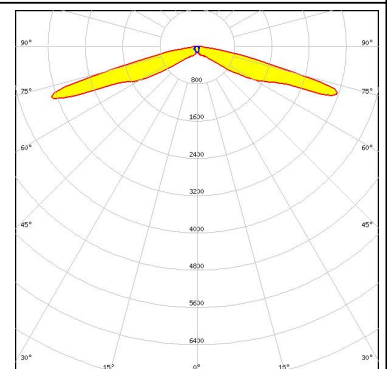
LED Oslon Square PC
 FWHM 150.0 + 86.0°
 Efficiency 89 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

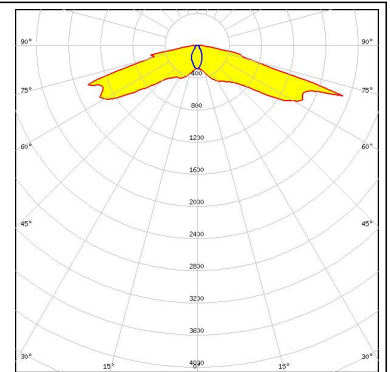
LED Oslon SSL 150
 FWHM 152.0 + 99.0°
 Efficiency 92 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

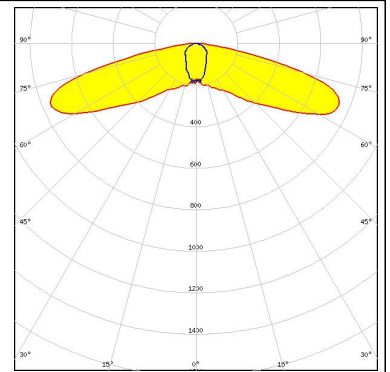
LED Oslon SSL 80
FWHM 148.0 + 53.0°
Efficiency 89 %
Peak intensity 2.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):



LED	LUXEON 5050
FWHM	Asymmetric
Efficiency	87 %
Peak intensity	0.760 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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

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