

SANDRA-12-S

~14° spot beam

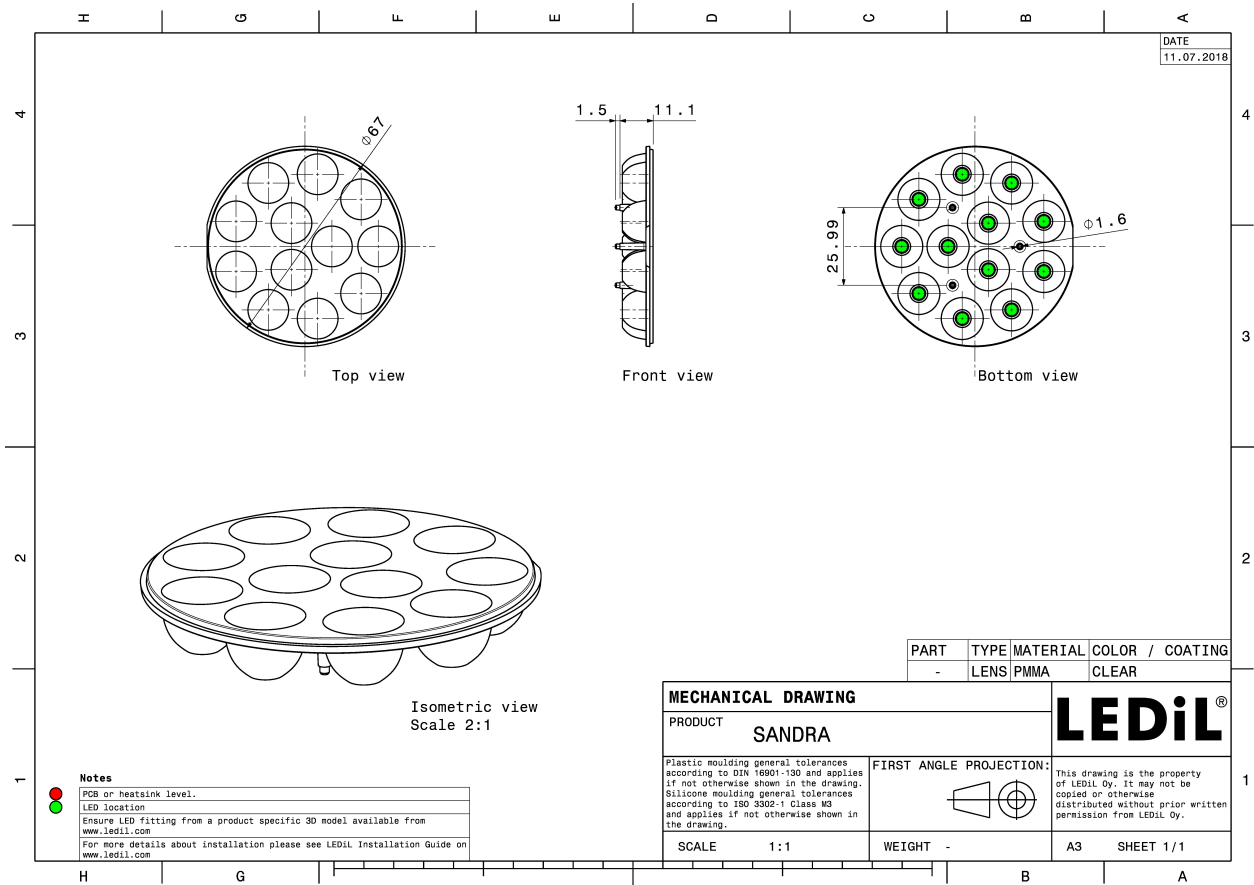
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 67.0 mm
Height	11.1 mm
Fastening	glue, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	7.8 kg
Quantity in Box	306 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

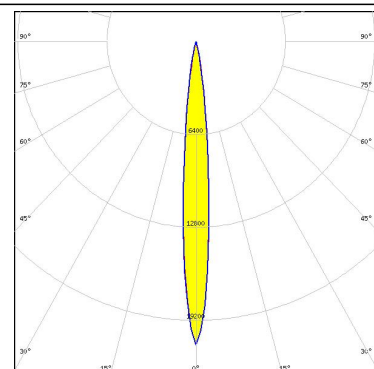
Component	Type	Material	Colour
SANDRA-12-S	Multi-lens	PMMA	clear



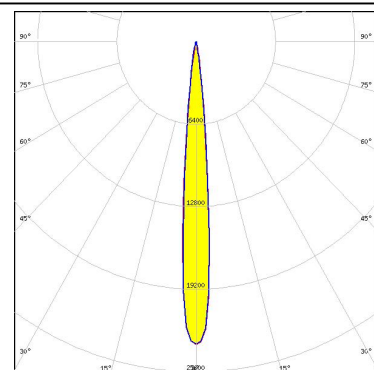
PHOTOMETRIC DATA (MEASURED):



LED XP-E
FWHM 10.0°
Efficiency 91 %
Peak intensity 18.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-E2
FWHM 10.0°
Efficiency 94 %
Peak intensity 23.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G
FWHM 15.0°
Efficiency 93 %
Peak intensity 9.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:

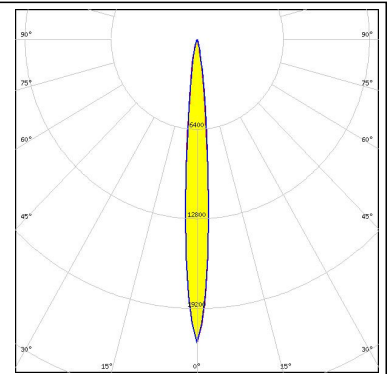


LED NVSxx19A
FWHM 15.0°
Efficiency 90 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

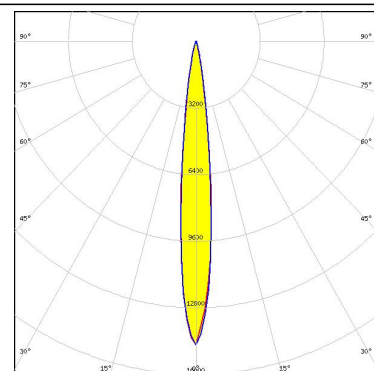
LED Oslon SSL 80
FWHM 10.0°
Efficiency 91 %
Peak intensity 18.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):



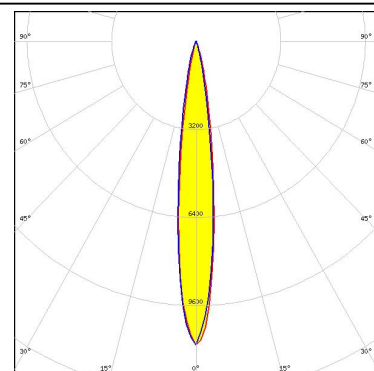
LED XD16
FWHM 12.0°
Efficiency 94 %
Peak intensity 14.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G2
FWHM 13.0°
Efficiency 92 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LG 3030
FWHM 14.0°
Efficiency 94 %
Peak intensity 11.030 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON Rebel
FWHM 11.5°
Efficiency 91 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED Oslon Square EC
FWHM 13.0°
Efficiency 90 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM
Opto Semiconductors

LED Oslon SSL 150
FWHM 10.0°
Efficiency 91 %
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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