

TINA2-RS

~14° spot beam. Assembly with holder, installation tape and location pins.

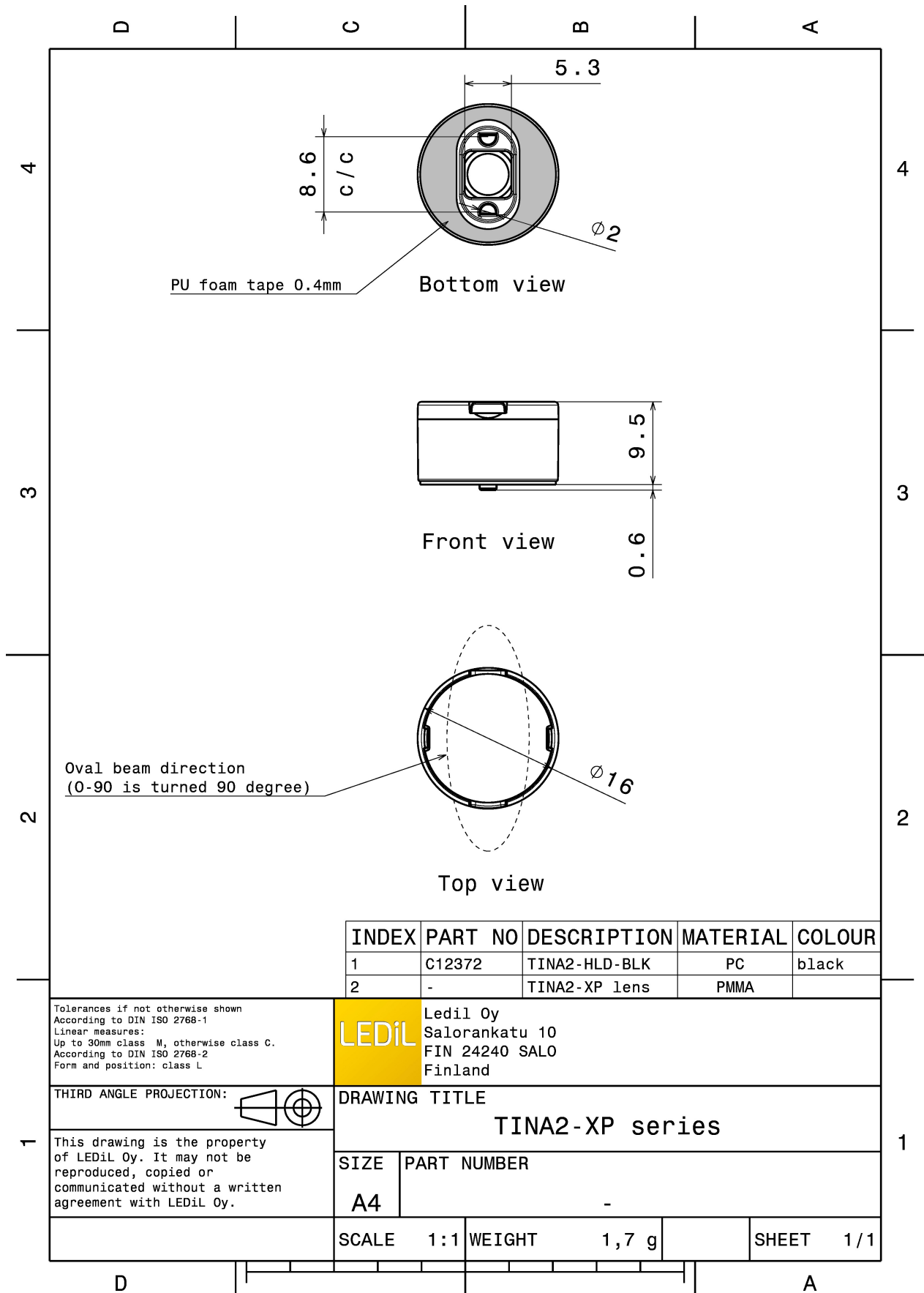
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	451 x 241 x 298 mm
Box weight	8.3 kg
Quantity in Box	4140 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

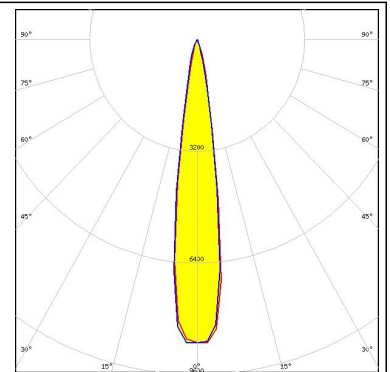
Component	Type	Material	Colour
TINA2-RS	Single lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



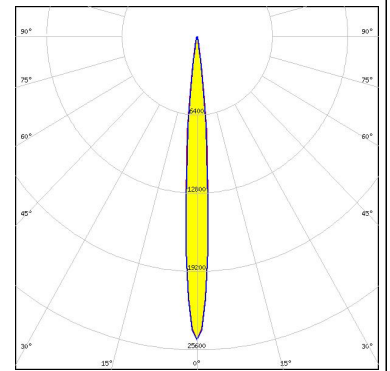
PHOTOMETRIC DATA (MEASURED):



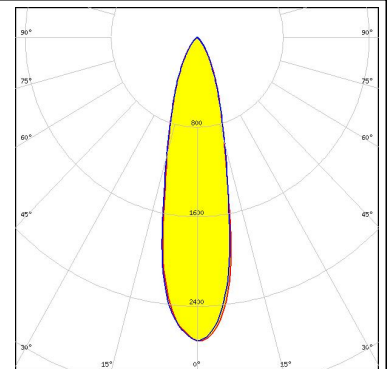
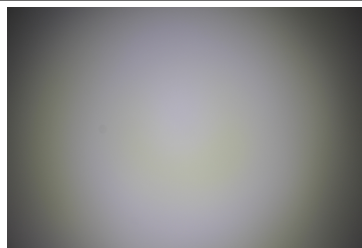
LED XB-H
 FWHM 17.0°
 Efficiency 86 %
 Peak intensity 8.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



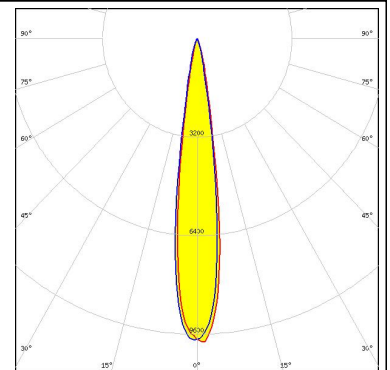
LED XQ-E HI
 FWHM 9.0°
 Efficiency 81 %
 Peak intensity 25.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 5050
 FWHM 25.0°
 Efficiency 88 %
 Peak intensity 2.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



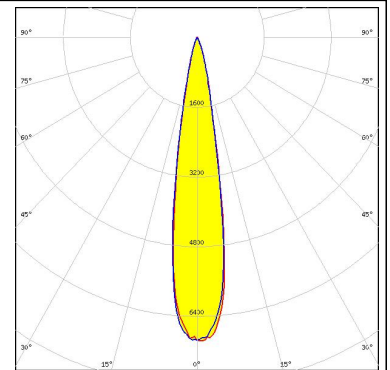
LED LUXEON TX
 FWHM 15.0°
 Efficiency 89 %
 Peak intensity 9.860 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



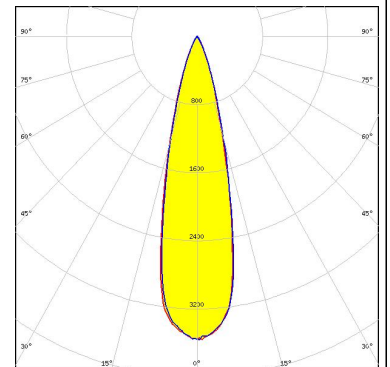
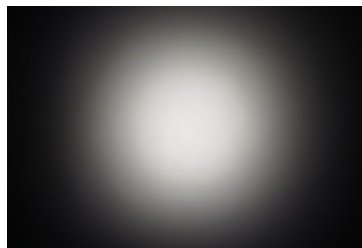
PHOTOMETRIC DATA (MEASURED):



LED NVSxx19B/NVSxx19C
FWHM 18.0°
Efficiency 88 %
Peak intensity 7.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NWSx229A
FWHM 25.0°
Efficiency 86 %
Peak intensity 3.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:



Ospto Semiconductors

LED OSLO Square EC
FWHM 13.0°
Efficiency 88 %
Peak intensity 9.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



Ospto Semiconductors

LED OSLO Square PC
FWHM 12.0°
Efficiency 88 %
Peak intensity 9.210 cd/lm
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON SSL 150
FWHM 11.0°
Efficiency 90 %
Peak intensity 19.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED OSLON SSL 80
FWHM 10.0°
Efficiency 88 %
Peak intensity 16.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED SFH 4715S
FWHM 14.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED SFH 4716S
FWHM 11.0°
Efficiency %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

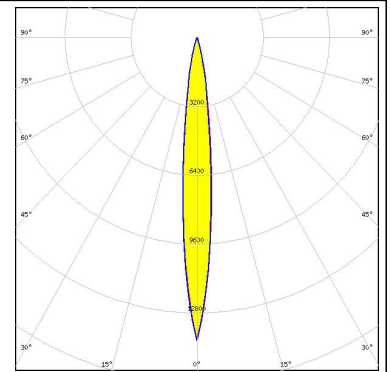
PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED LUXEON C
 FWHM 11.0°
 Efficiency 92 %
 Peak intensity 14.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



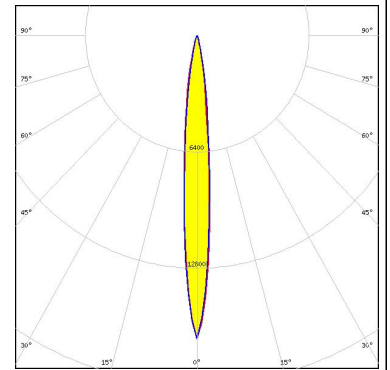
LUMILEDS

LED LUXEON IR Compact
 FWHM 10.0°
 Efficiency 84 %
 Peak intensity 0.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

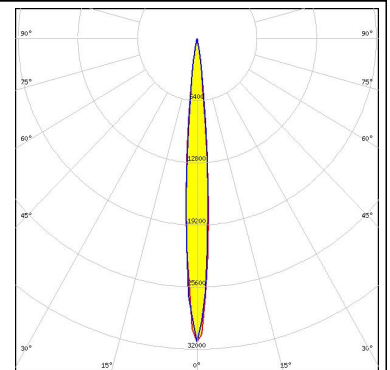
LED NFSx757G
 FWHM 10.0°
 Efficiency 93 %
 Peak intensity 16.690 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

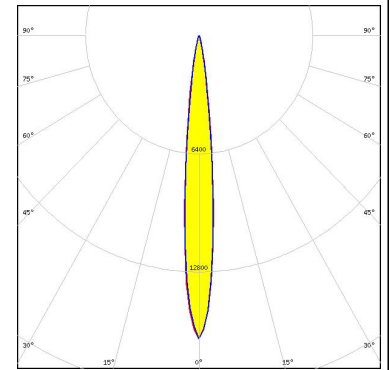
LED OSOLON Black Flat
 FWHM 8.6°
 Efficiency 92 %
 Peak intensity 32.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLOM Square Flat
FWHM 11.0°
Efficiency 91 %
Peak intensity 16.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:

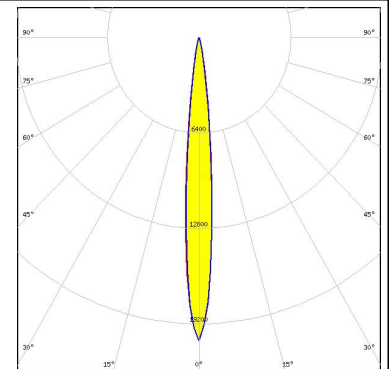


OSRAM
Opto Semiconductors

LED SFH 4770S
FWHM 16.0°
Efficiency 87 %
Peak intensity 9.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:

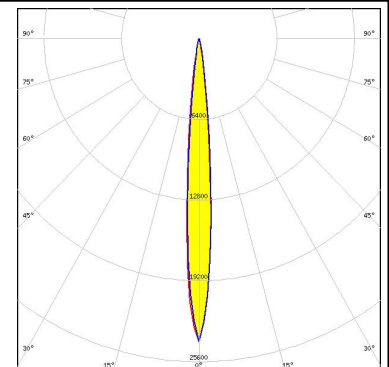
OSRAM
Opto Semiconductors

LED Synios P2720 1 mm
FWHM 10.0°
Efficiency 92 %
Peak intensity 20.340 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM
Opto Semiconductors

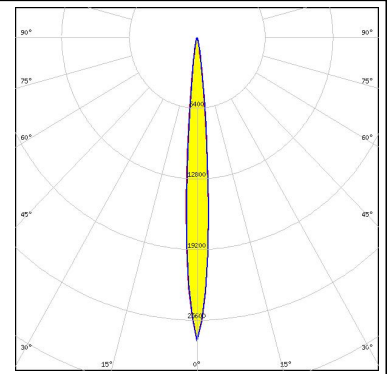
LED Synios P2720 1/2 mm
FWHM 9.0°
Efficiency 92 %
Peak intensity 24.030 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM 8.0°
Efficiency 92 %
Peak intensity 27.470 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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