

TINA2-D

~16° diffused spot beam. Assembly with holder, installation tape and location pins.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

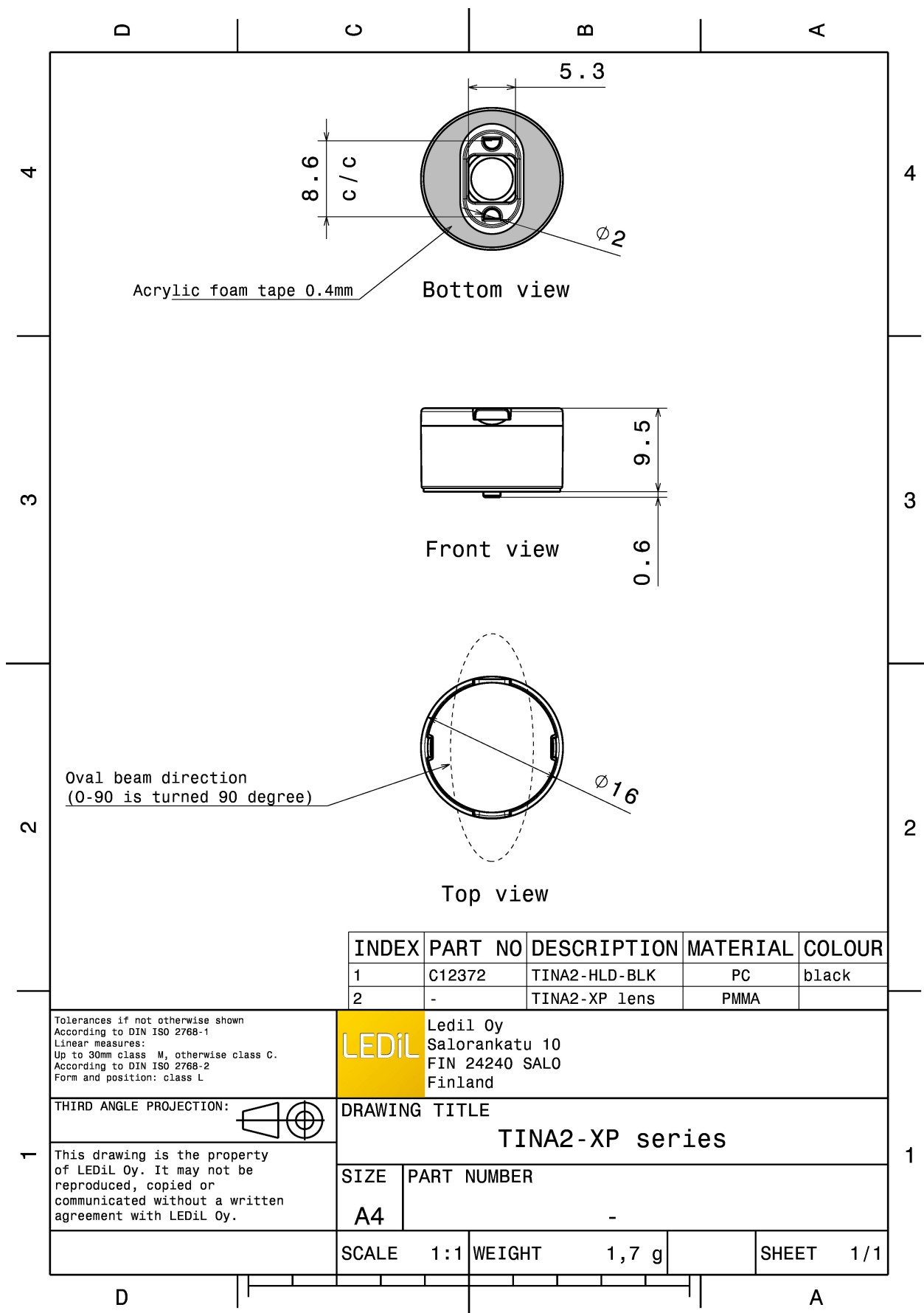


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-XP-D	Single lens	PMMA	clear	
TINA2-HLD-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12375_TINA2-D	Single lens	4140	230	230	8.1
» Box size: 451 x 241 x 298 mm					

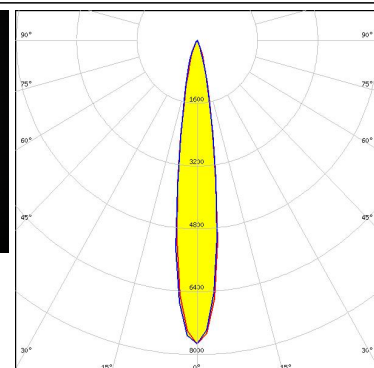
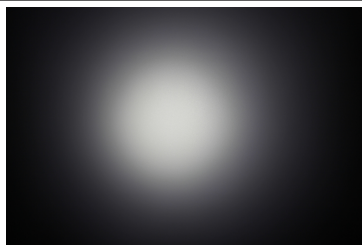


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

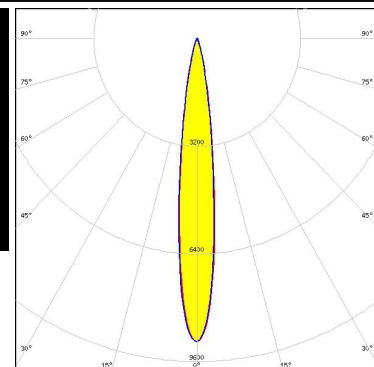
CREE LED

LED XB-H
FWHM / FWTM 16.0° / 34.0°
Efficiency 86 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE LED

LED XD16
FWHM / FWTM 14.0° / 29.0°
Efficiency 82 %
Peak intensity 9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



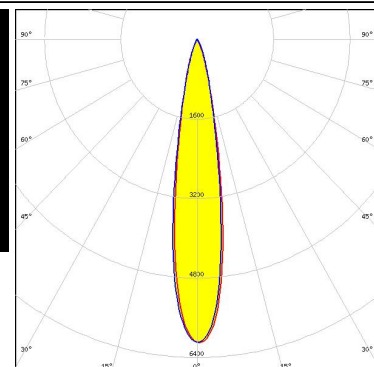
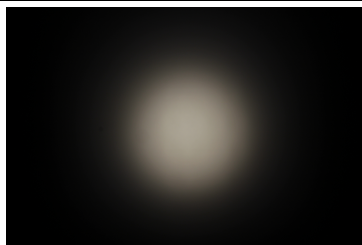
LUMILEDS

LED LUXEON Z ES
FWHM / FWTM 12.0° / 27.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



NICHIA

LED NVSxx19B/NVSxx19C
FWHM / FWTM 18.0° / 36.0°
Efficiency 87 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:

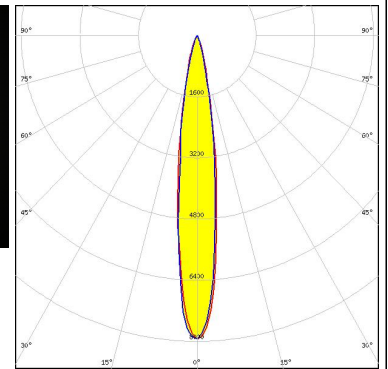
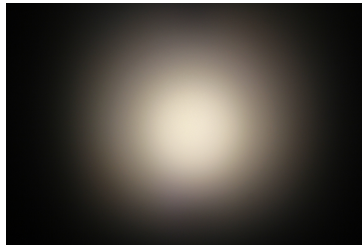


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON Square EC
FWHM / FWTM 16.0° / 33.0°
Efficiency 82 %
Peak intensity 7.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSLON Square EC
FWHM / FWTM 16.0° / 34.0°
Efficiency 87 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

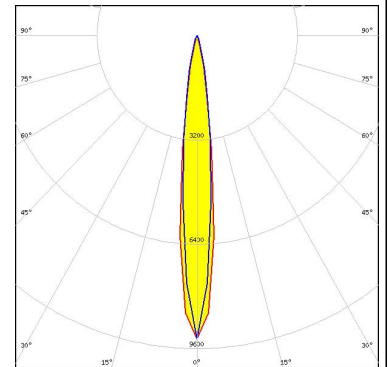
Opto Semiconductors

LED OSLON Square PC
FWHM / FWTM 13.0° / 32.0°
Efficiency 87 %
Peak intensity 6.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 14.0° / 28.0°
Efficiency 89 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

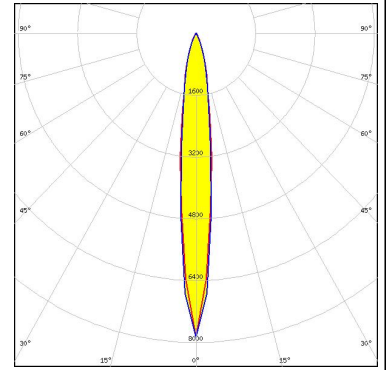


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 12.0° / 35.0°
Efficiency 87 %
Peak intensity 7.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED SFH 4170S
FWHM / FWTM 8.0° / 20.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:

OSRAM

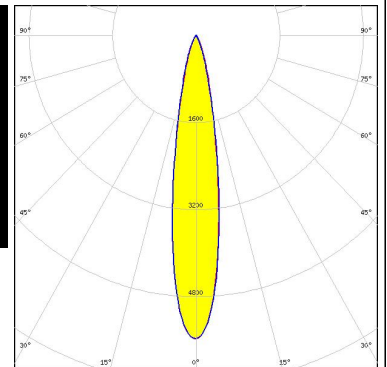
Opto Semiconductors

LED SFH 4180S
FWHM / FWTM 8.0° / 20.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:



SEOUL SEMICONDUCTOR

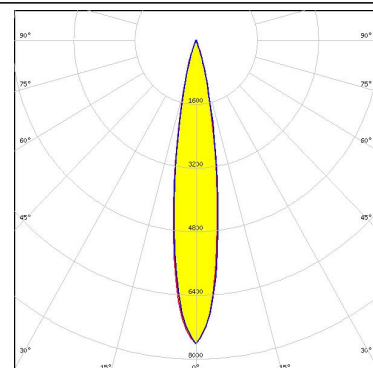
LED Z5M3
FWHM / FWTM 18.0° / 38.0°
Efficiency 86 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):



LED XB-D
FWHM / FWTM 18.0° / 34.0°
Efficiency 88 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

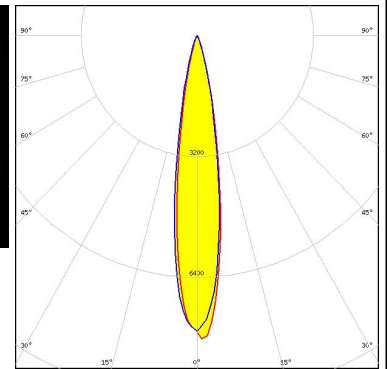
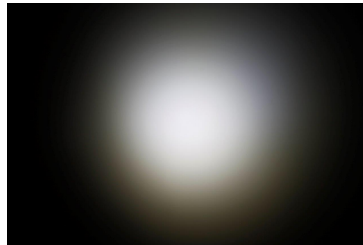


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

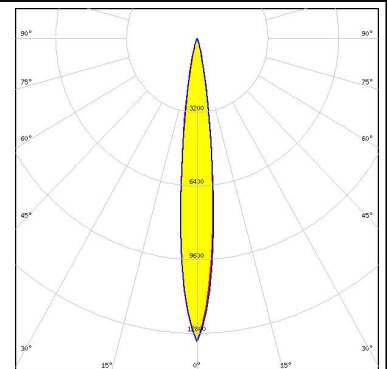
LED Duris S5 (2 chip)
 FWHM / FWTM 17.0° / 33.0°
 Efficiency 92 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

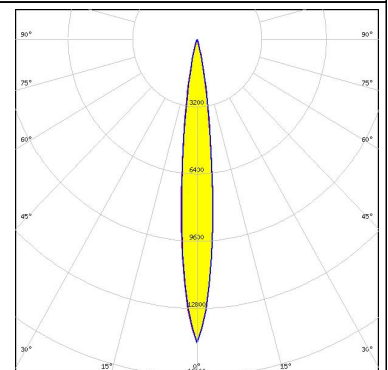
LED OSCONIQ P 3030
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 91 %
 Peak intensity 13.2 cd/lm
 LEDs/each optic 1
 Light colour Blue
 Required components:



OSRAM

Opto Semiconductors

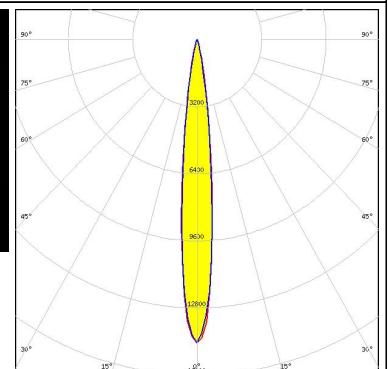
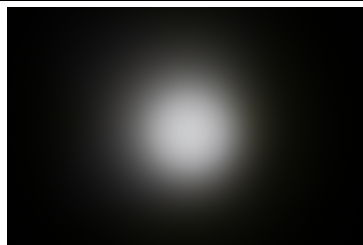
LED OSLOM Signal
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 92 %
 Peak intensity 14.4 cd/lm
 LEDs/each optic 1
 Light colour Blue
 Required components:



OSRAM

Opto Semiconductors

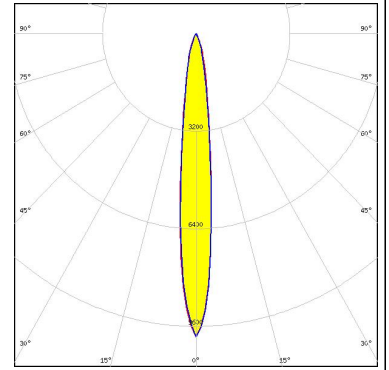
LED OSLOM Square Flat
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 91 %
 Peak intensity 14.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

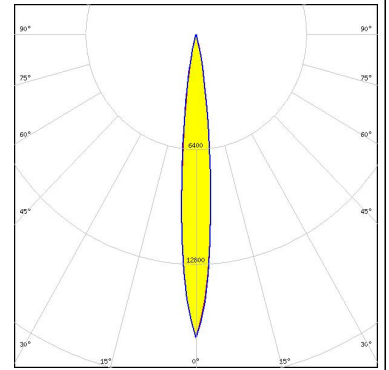
OSRAM Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 12.0° / 31.0°
Efficiency 90 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour Far Red
Required components:



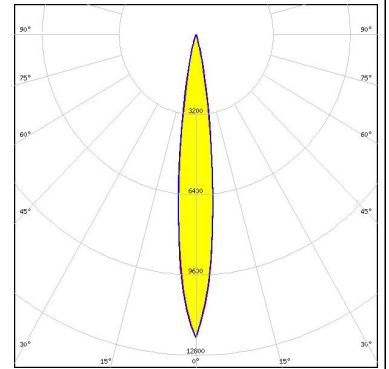
OSRAM Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)
FWHM / FWTM 12.0° / 24.0°
Efficiency 92 %
Peak intensity 16.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



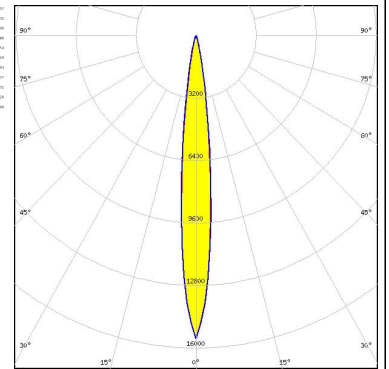
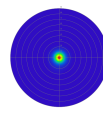
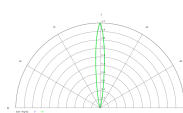
OSRAM Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 14.0° / 26.0°
Efficiency 90 %
LEDs/each optic 1
Light colour IR
Required components:



OSRAM Opto Semiconductors

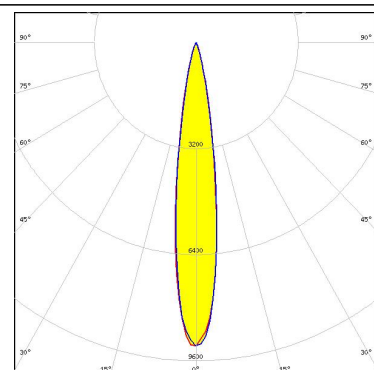
LED SFH 4770S
FWHM / FWTM 12.0° / 22.0°
Efficiency 92 %
LEDs/each optic 1
Light colour IR
Required components:



PHOTOMETRIC DATA (SIMULATED):

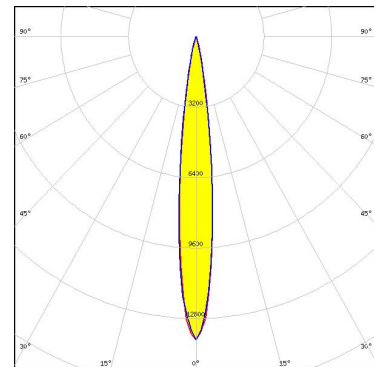
SAMSUNG

LED LH181B
FWHM / FWTM 16.0° / 30.5°
Efficiency 92 %
Peak intensity 9.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

LED Z8Y15
FWHM / FWTM 13.0° / 25.0°
Efficiency 90 %
Peak intensity 13.8 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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