

TINA2-D

~16° diffused spot beam optimized for CREE XP-E. 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 ⓘ

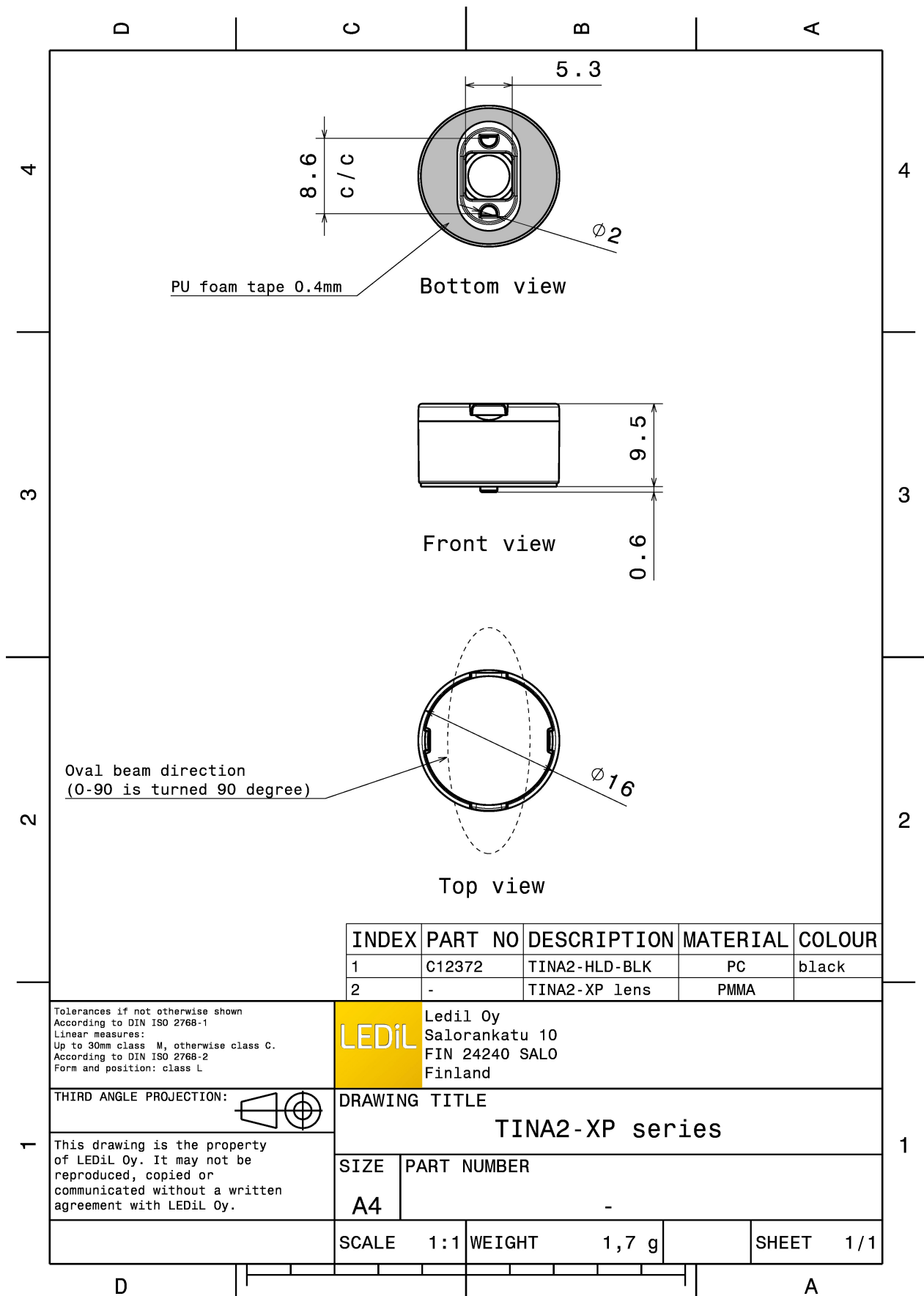
MATERIAL SPECIFICATIONS:

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

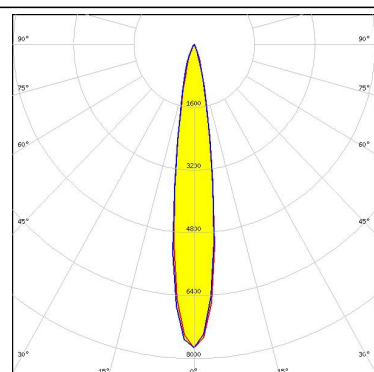
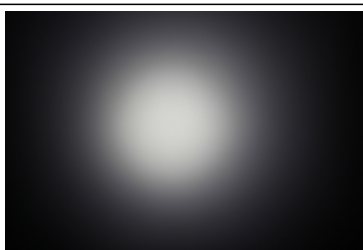




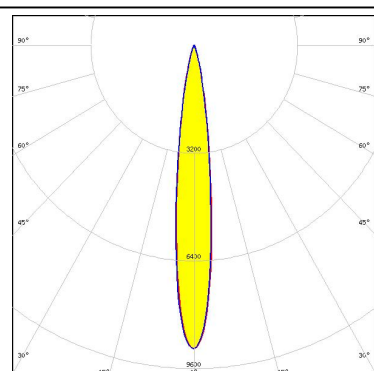
PHOTOMETRIC DATA (MEASURED):



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



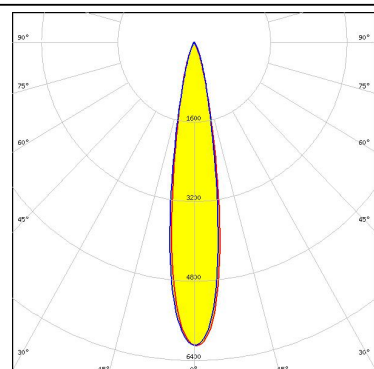
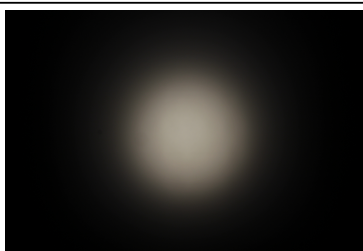
LED XD16
FWHM 14.0°
Efficiency 82 %
Peak intensity 9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



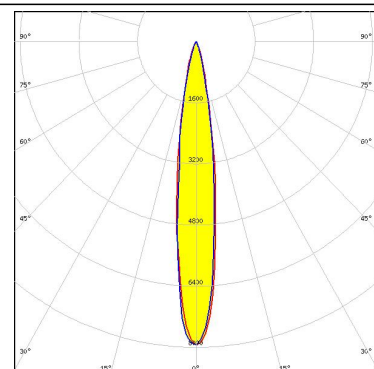
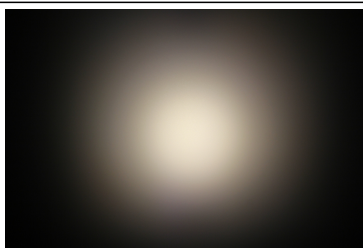
LED NVSxx19B/NVSxx19C
FWHM 18.0°
Efficiency 87 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

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



OSRAM
Opto Semiconductors

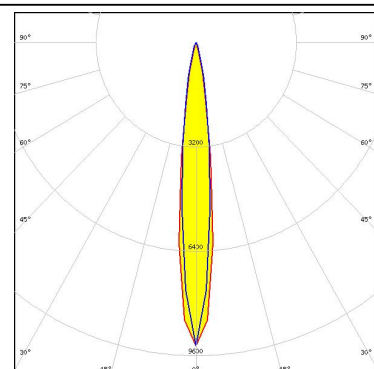
LED OSLON Square EC
FWHM 16.0°
Efficiency 87 %
Peak intensity 6.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:

OSRAM
Opto Semiconductors

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

OSRAM
Opto Semiconductors

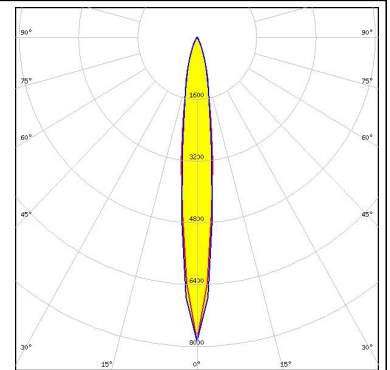
LED OSLON SSL 150
FWHM 14.0°
Efficiency 89 %
Peak intensity 9.3 cd/Im
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

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



OSRAM Opto Semiconductors

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

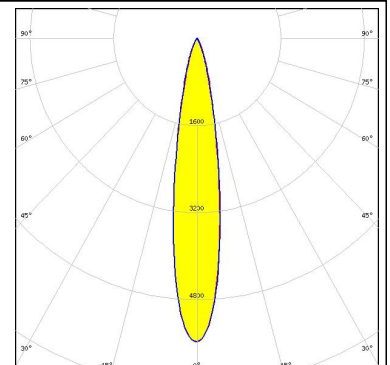
OSRAM Opto Semiconductors

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



SEOUL SEMICONDUCTOR

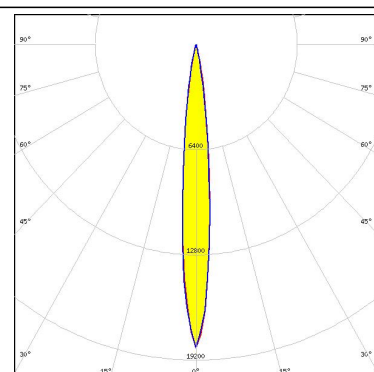
LED Z5M3
FWHM 18.0°
Efficiency 86 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



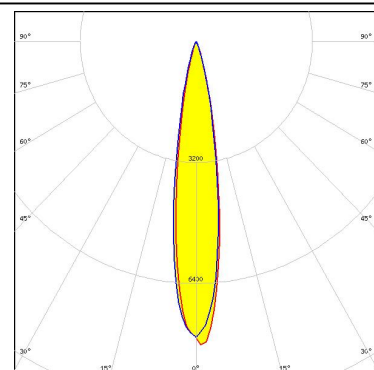
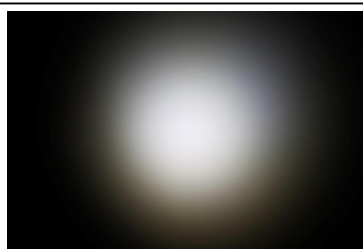
PHOTOMETRIC DATA (SIMULATED):



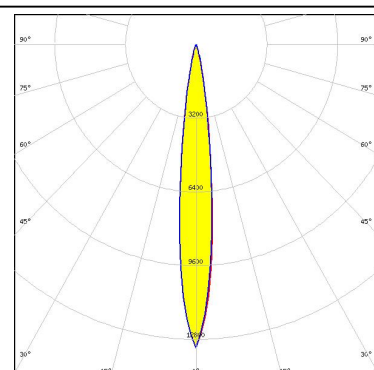
LED XQ-E HI
FWHM 11.0°
Efficiency 91 %
Peak intensity 18.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



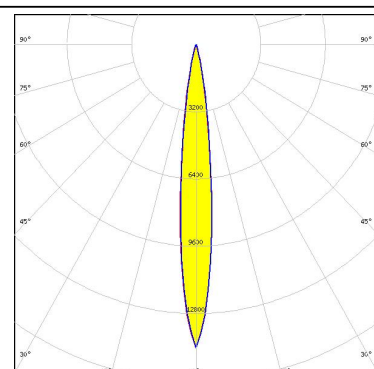
LED Duris S5 (2 chip)
FWHM 17.0°
Efficiency 92 %
Peak intensity 8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



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

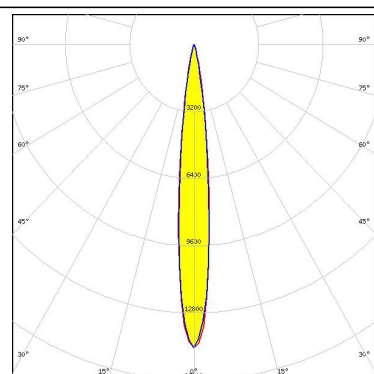


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

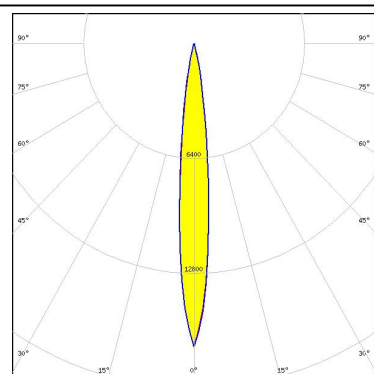
LED OSLON Square Flat
FWHM 12.0°
Efficiency 91 %
Peak intensity 14.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

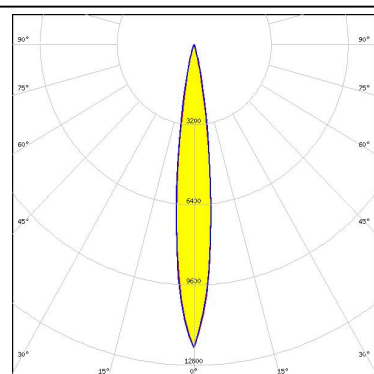
LED OSTAR Projection Compact (Kx.CSLNM1.xx)
FWHM 12.0°
Efficiency 92 %
Peak intensity 16.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

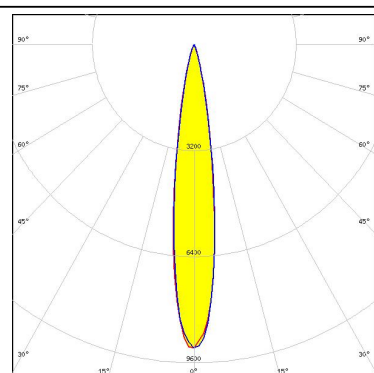
Opto Semiconductors

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

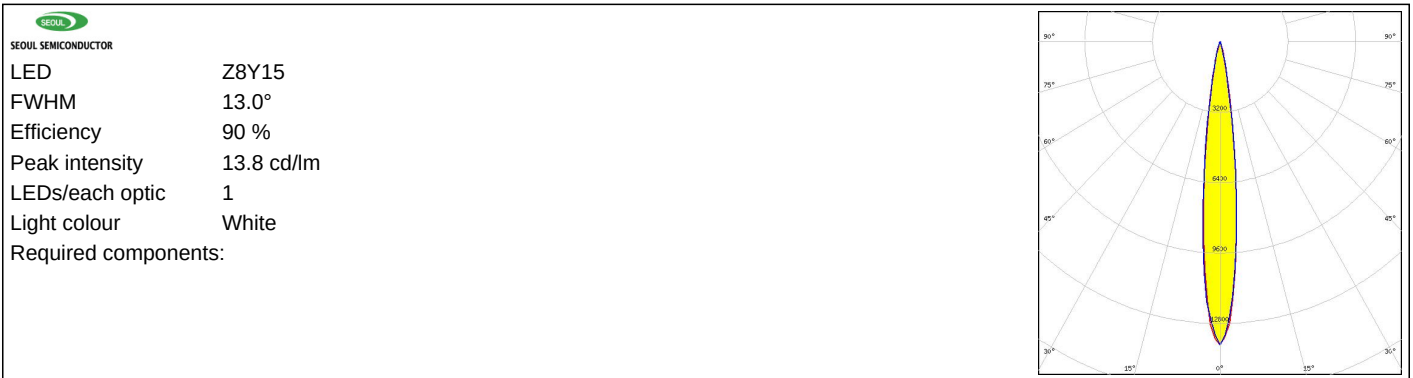


SAMSUNG

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



PHOTOMETRIC DATA (SIMULATED):



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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