

## TINA2-RS

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

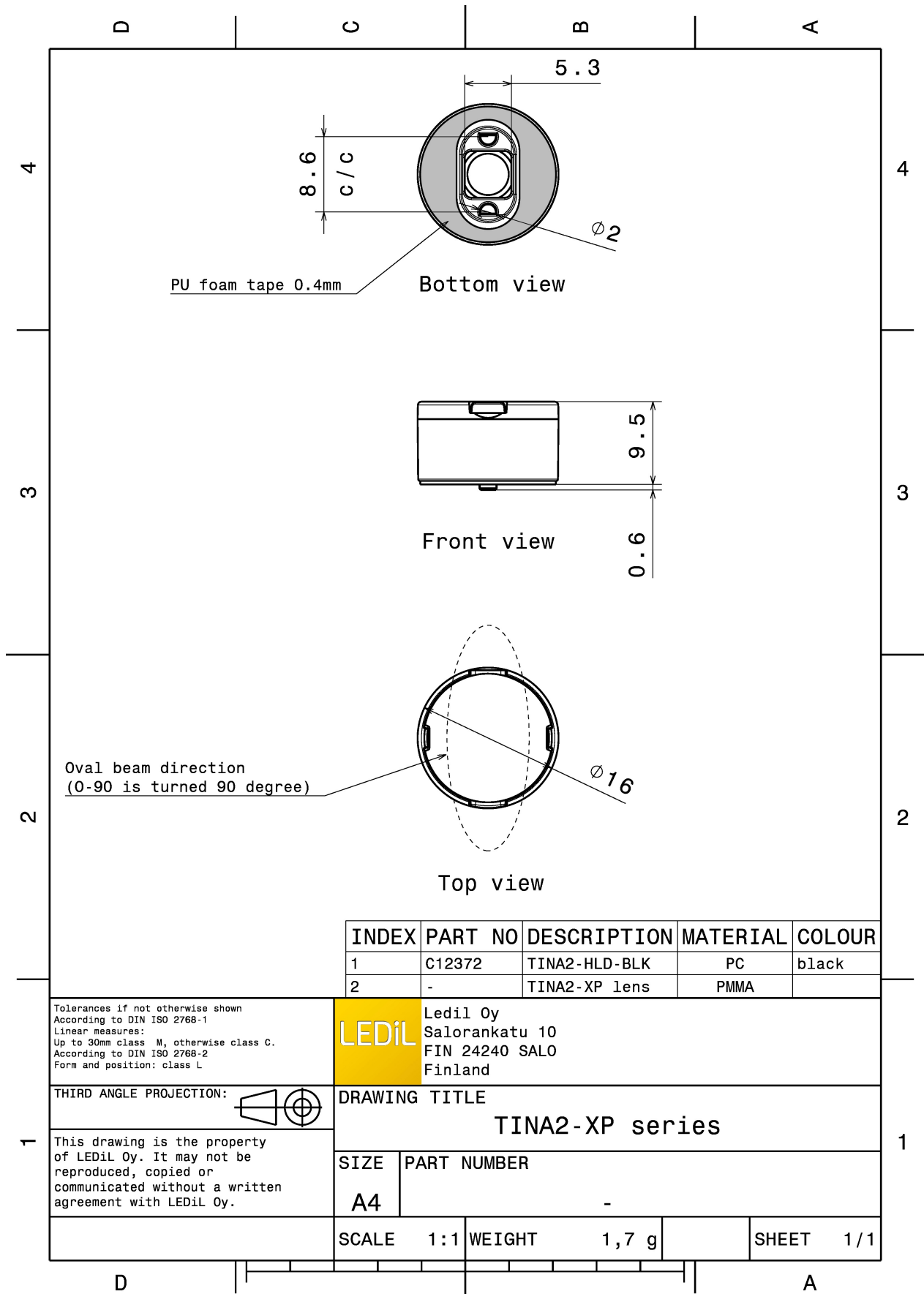
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16 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:

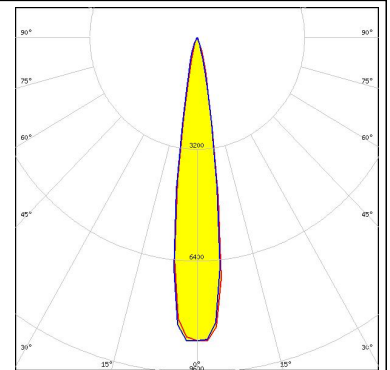
Component	Type	Material	Colour
TINA2-RS	Lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



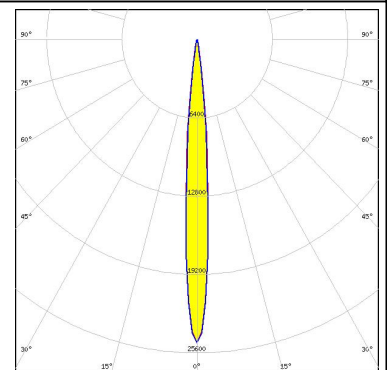
#### PHOTOMETRIC DATA (MEASURED):



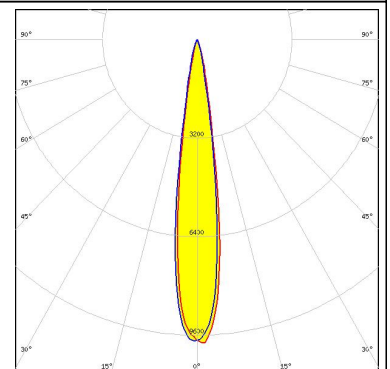
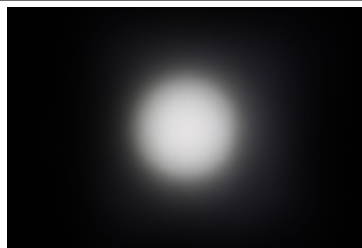
LED XB-H  
 FWHM 17.0°  
 Efficiency 86 %  
 Peak intensity 8.700 cd/lm  
 Required components:



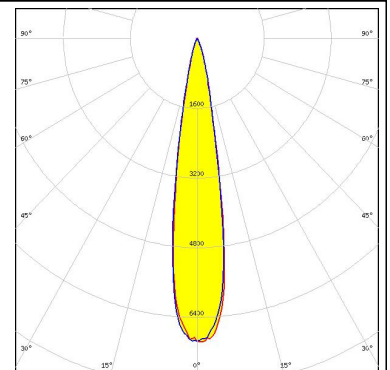
LED XQ-E HI  
 FWHM 9.0°  
 Efficiency 81 %  
 Peak intensity 25.000 cd/lm  
 Required components:



LED LUXEON TX  
 FWHM 15.0°  
 Efficiency 89 %  
 Peak intensity 9.860 cd/lm  
 Required components:



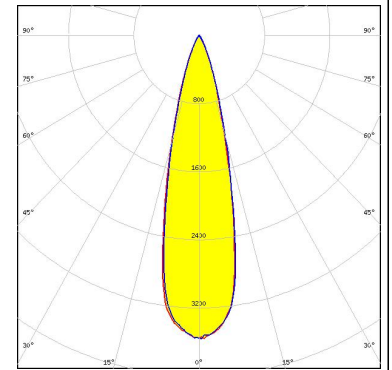
LED NVSxx19B/NVSxx19C  
 FWHM 18.0°  
 Efficiency 88 %  
 Peak intensity 7.000 cd/lm  
 Required components:



### PHOTOMETRIC DATA (MEASURED):



LED NWSx229A  
FWHM 25.0°  
Efficiency 86 %  
Peak intensity 3.600 cd/lm  
Required components:



LED Oslon Square EC  
FWHM 13.0°  
Efficiency 88 %  
Peak intensity 9.300 cd/lm  
Required components:



LED Oslon Square PC  
FWHM 12.0°  
Efficiency 88 %  
Peak intensity 9.210 cd/lm  
Required components:



LED Oslon SSL 150  
FWHM 11.0°  
Efficiency 90 %  
Peak intensity 19.500 cd/lm  
Required components:

## PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED Oslon SSL 80  
FWHM 10.0°  
Efficiency 88 %  
Peak intensity 16.000 cd/lm  
Required components:

**OSRAM**  
Opto Semiconductors

LED SFH 4715S  
FWHM 14.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:

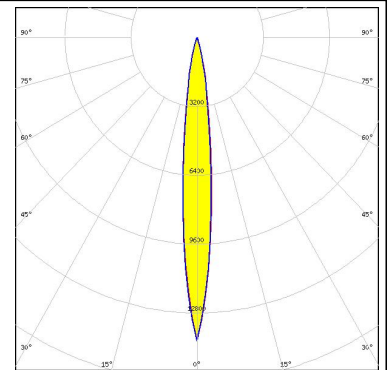
**OSRAM**  
Opto Semiconductors

LED SFH 4716S  
FWHM 11.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:

#### PHOTOMETRIC DATA (SIMULATED):

##### LUMILEDS

LED LUXEON C  
 FWHM 11.0°  
 Efficiency 92 %  
 Peak intensity 14.000 cd/lm  
 Required components:

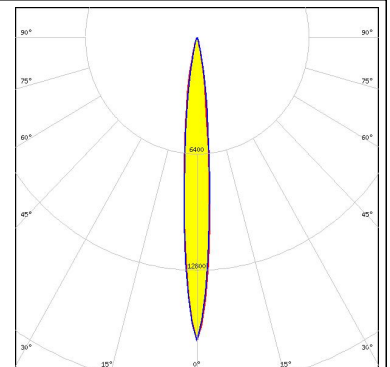


##### LUMILEDS

LED LUXEON IR Compact  
 FWHM 10.0°  
 Efficiency 84 %  
 Peak intensity 0.000 cd/lm  
 Required components:

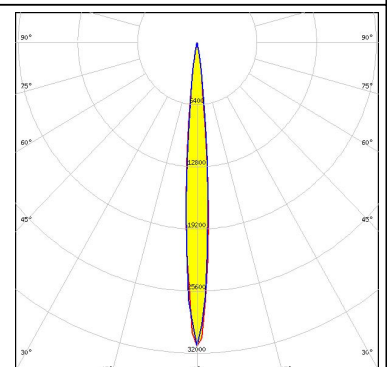
##### NICHIA

LED NFSx757G  
 FWHM 10.0°  
 Efficiency 93 %  
 Peak intensity 16.690 cd/lm  
 Required components:



##### OSRAM Opto Semiconductors

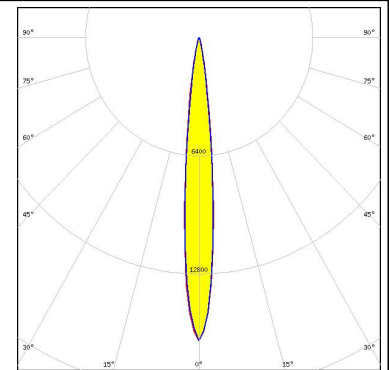
LED Oslon Black Flat  
 FWHM 8.6°  
 Efficiency 92 %  
 Peak intensity 32.400 cd/lm  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED Oslon Square Flat  
 FWHM 11.0°  
 Efficiency 91 %  
 Peak intensity 16.400 cd/lm  
 Required components:

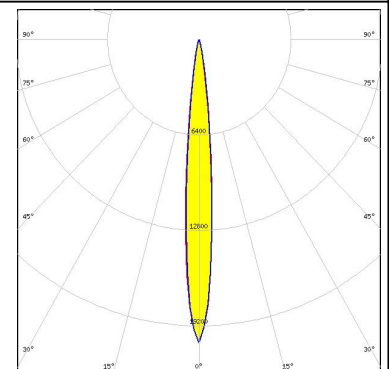


**OSRAM**  
Opto Semiconductors

LED SFH 4770S  
 FWHM 16.0°  
 Efficiency 87 %  
 Peak intensity 9.200 cd/lm  
 Required components:

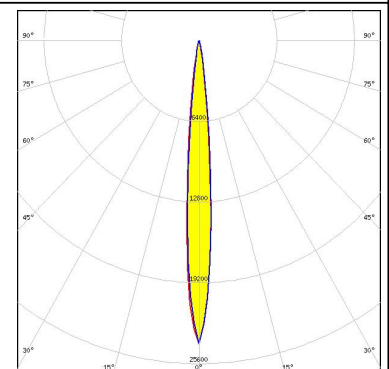
**OSRAM**  
Opto Semiconductors

LED Synios P2720 1 mm  
 FWHM 10.0°  
 Efficiency 92 %  
 Peak intensity 20.340 cd/lm  
 Required components:



**OSRAM**  
Opto Semiconductors

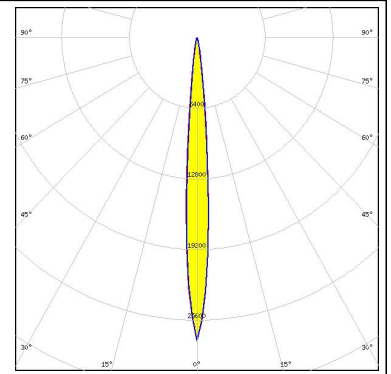
LED Synios P2720 1/2 mm  
 FWHM 9.0°  
 Efficiency 92 %  
 Peak intensity 24.030 cd/lm  
 Required components:



### PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

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