

## TINA2-W

~45° wide beam optimized for CREE XP-E.  
Assembly with holder and installation tape.

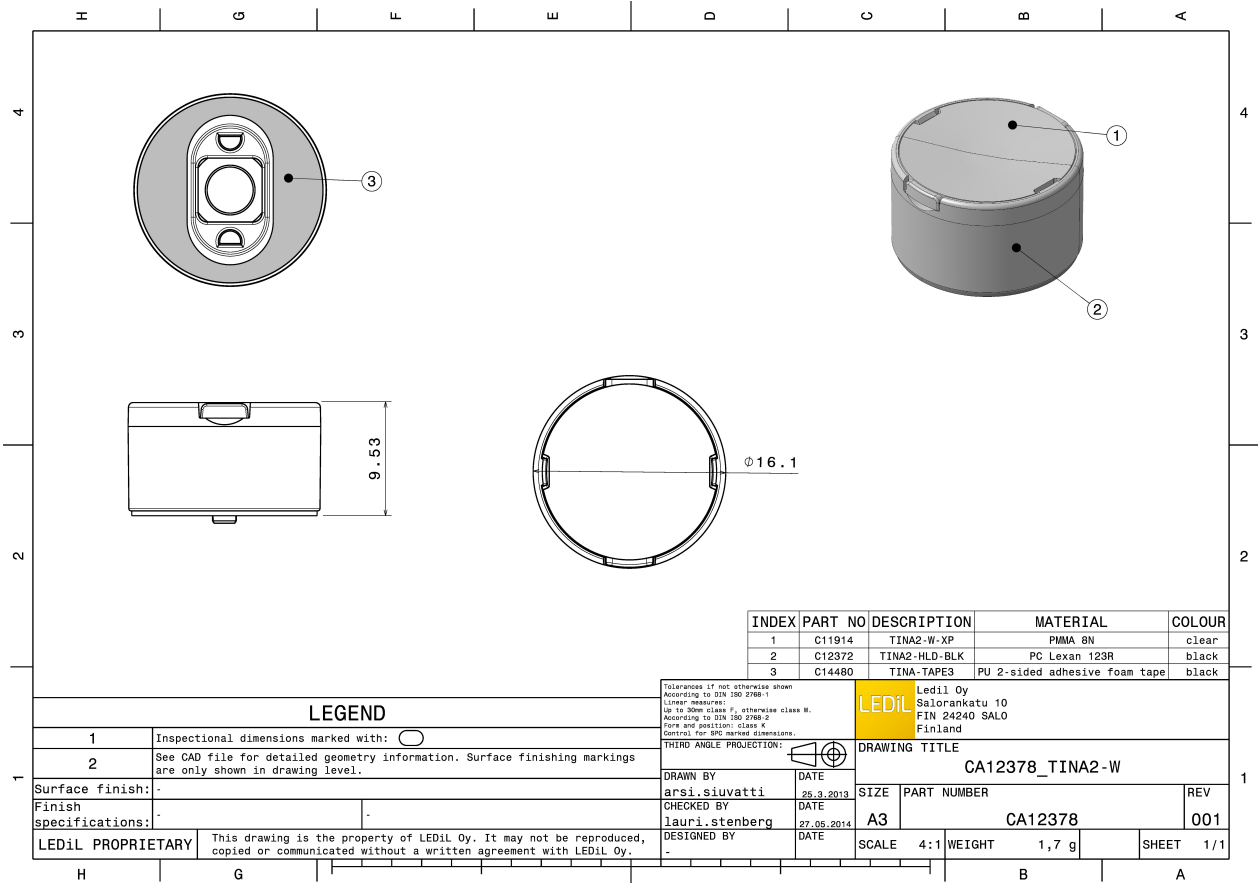
### TECHNICAL SPECIFICATIONS:

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



### MATERIAL SPECIFICATIONS:

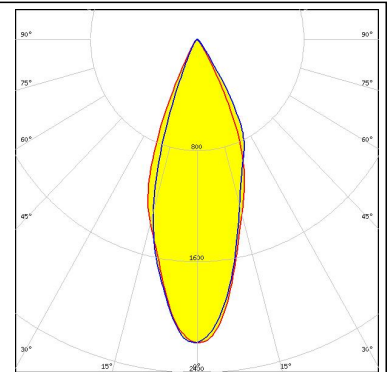
Component	Type	Material	Colour
TINA2-W-XP	Lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



#### PHOTOMETRIC DATA (MEASURED):

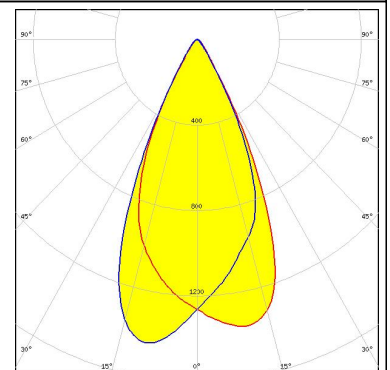
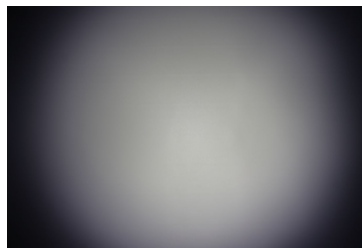
##### LUMILEDS

LED LUXEON CZ  
 FWHM 39.0°  
 Efficiency 92 %  
 Peak intensity 2.200 cd/lm  
 Required components:



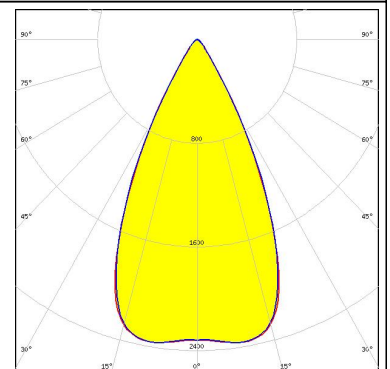
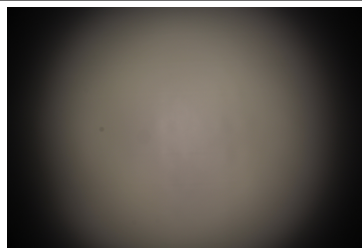
##### LUMILEDS

LED LUXEON TX  
 FWHM 49.0°  
 Efficiency 88 %  
 Peak intensity 1.550 cd/lm  
 Required components:



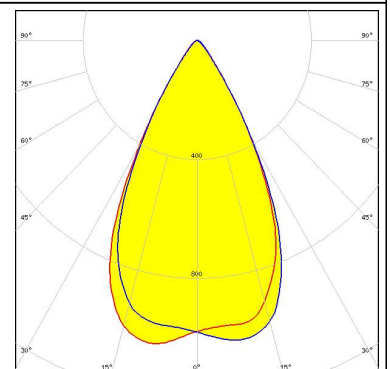
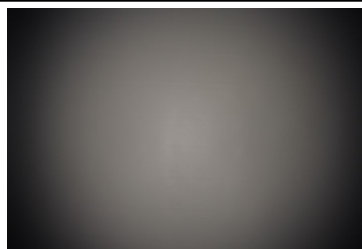
##### NICHIA

LED NVSxx19B/NVSxx19C  
 FWHM 52.0°  
 Efficiency 87 %  
 Peak intensity 1.400 cd/lm  
 Required components:



##### NICHIA

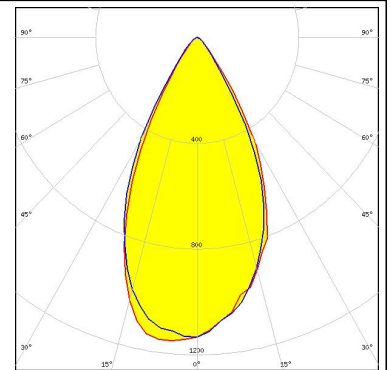
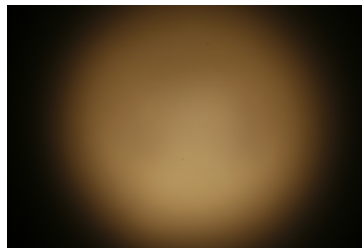
LED NWSx229A  
 FWHM 55.0°  
 Efficiency 84 %  
 Peak intensity 1.000 cd/lm  
 Required components:



**PHOTOMETRIC DATA (MEASURED):**

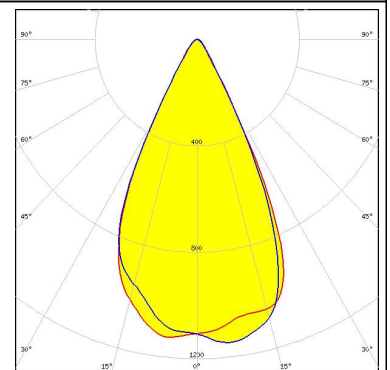
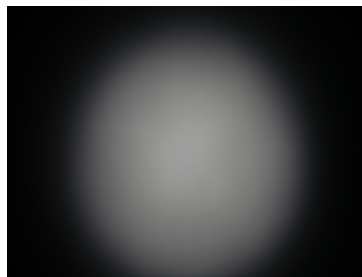
**OSRAM**  
Opto Semiconductors

LED Oslon Square EC  
FWHM 50.0°  
Efficiency 84 %  
Peak intensity 1.100 cd/lm  
Required components:



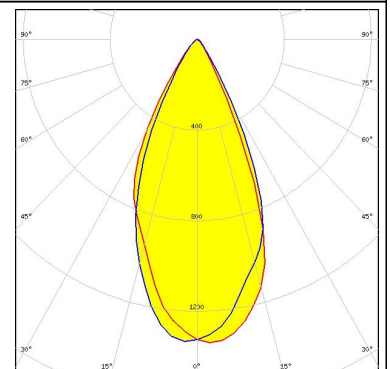
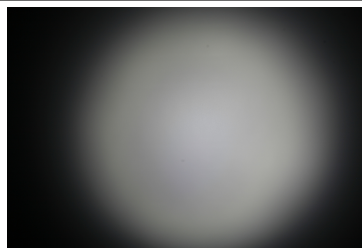
**OSRAM**  
Opto Semiconductors

LED Oslon SSL 150  
FWHM 53.0°  
Efficiency 85 %  
Peak intensity 1.200 cd/lm  
Required components:



**OSRAM**  
Opto Semiconductors

LED Oslon SSL 80  
FWHM 49.0°  
Efficiency 86 %  
Peak intensity 1.300 cd/lm  
Required components:



**OSRAM**  
Opto Semiconductors

LED SFH 4715S  
FWHM 36.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:

## PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED SFH 4725S

FWHM 38.0°

Efficiency %

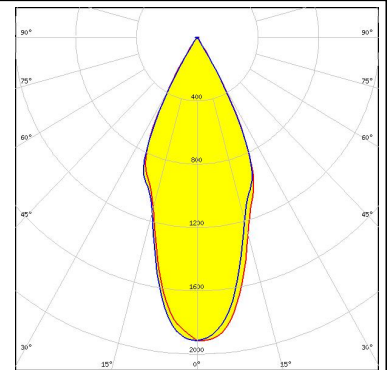
Peak intensity cd/lm

Required components:

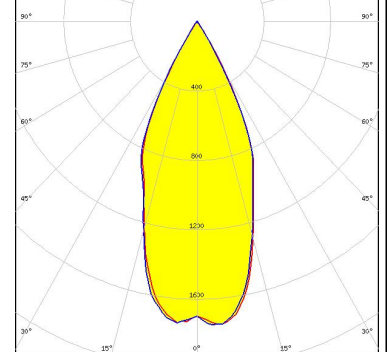
### PHOTOMETRIC DATA (SIMULATED):



LED XQ-E HI  
FWHM 42.0°  
Efficiency 92 %  
Peak intensity 1.900 cd/lm  
Required components:



LED LUXEON C  
FWHM 44.0°  
Efficiency 91 %  
Peak intensity 1.800 cd/lm  
Required components:



LED LUXEON IR Compact  
FWHM 51.0°  
Efficiency 84 %  
Peak intensity 0.000 cd/lm  
Required components:



LED SFH 4770S  
FWHM 32.0°  
Efficiency 88 %  
Peak intensity cd/lm  
Required components:

**PHOTOMETRIC DATA (SIMULATED):**

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Synios P2720 1 mm FWHM 31.0° Efficiency 92 % Peak intensity 2.670 cd/lm Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Synios P2720 1/2 mm FWHM 30.0° Efficiency 92 % Peak intensity 2.790 cd/lm Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Synios P2720 1/4 mm FWHM 31.0° Efficiency 92 % Peak intensity 2.590 cd/lm Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED LH181B FWHM 43.0° Efficiency 93 % Peak intensity 2.000 cd/lm Required components:</p>	

### 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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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

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