

## TINA-W

~50° wide beam. Assembly with holder, installation tape and location pins.

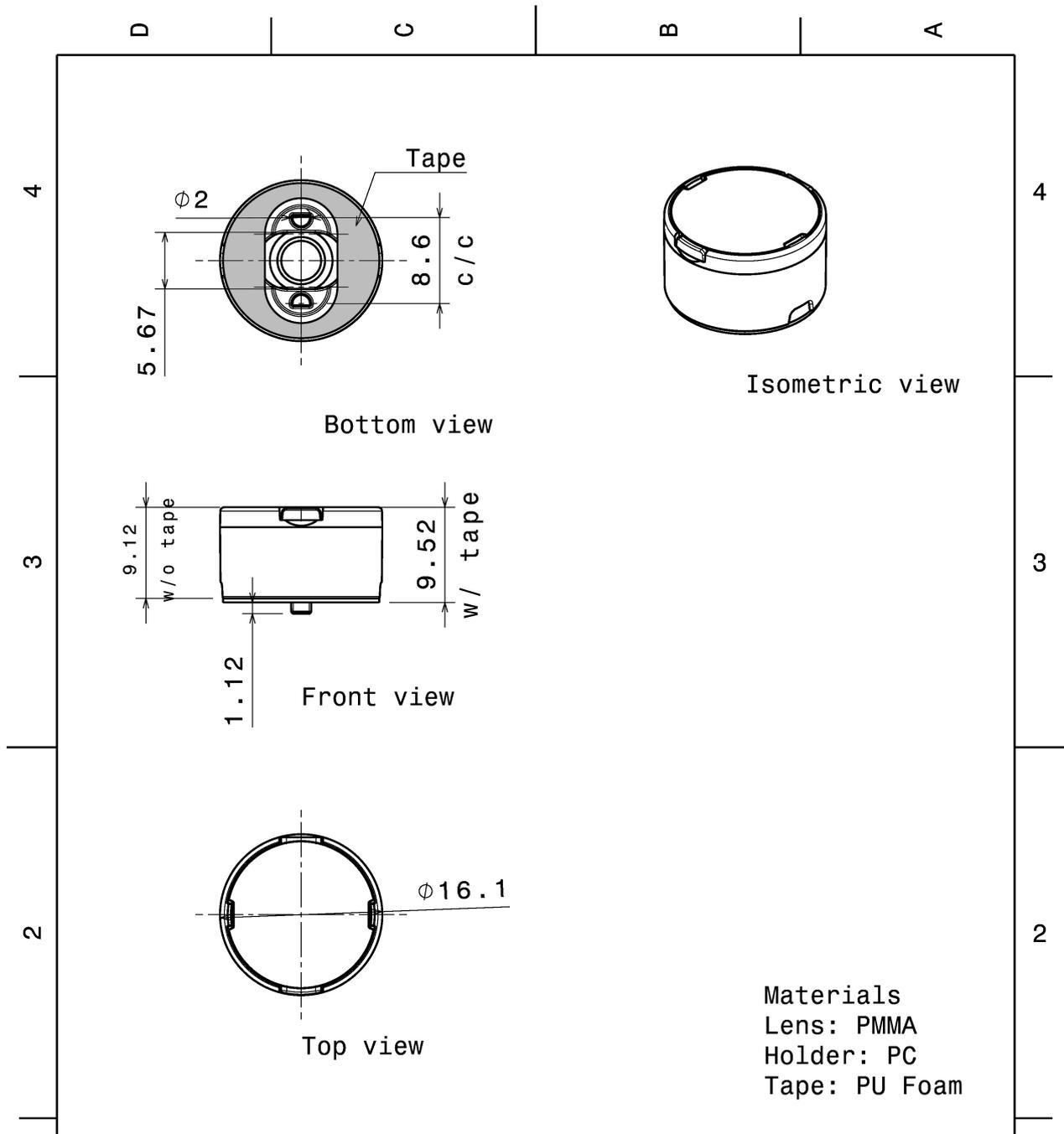
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	
Box weight	4 kg
Quantity in Box	2016 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

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



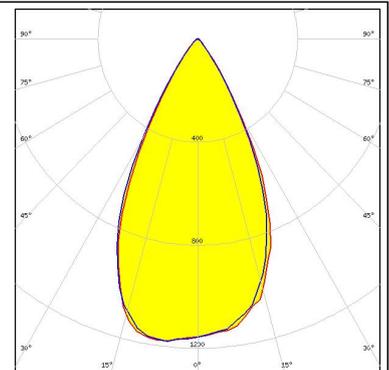
Materials  
 Lens: PMMA  
 Holder: PC  
 Tape: PU Foam

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DRAWING TITLE		Mechanical Drawing	
DRAWN BY	DATE	TINA-OSL	
as	10.9.2012		
CHECKED BY	DATE	SIZE	PART NUMBER
sn	-	A4	TINA-OSL
DESIGNED BY	DATE	SCALE	WEIGHT
-	-	2:1	1,47 g
		SHEET	1/1

#### PHOTOMETRIC DATA (MEASURED):

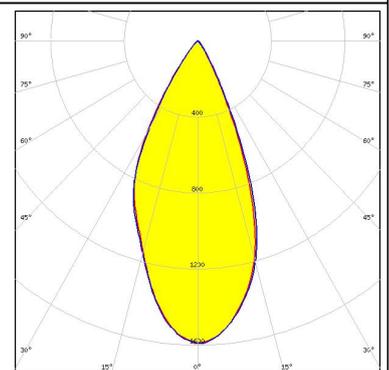
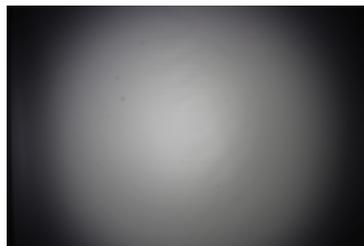
**CREE** 

LED XB-H  
 FWHM 53.0°  
 Efficiency 87 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



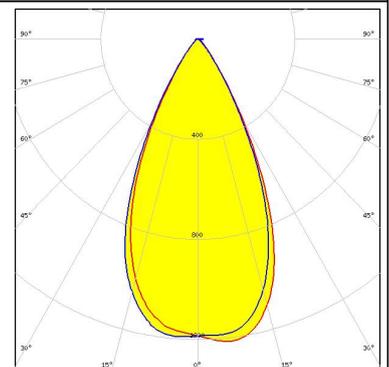
**CREE** 

LED XP-E  
 FWHM 46.0°  
 Efficiency 90 %  
 Peak intensity 1.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



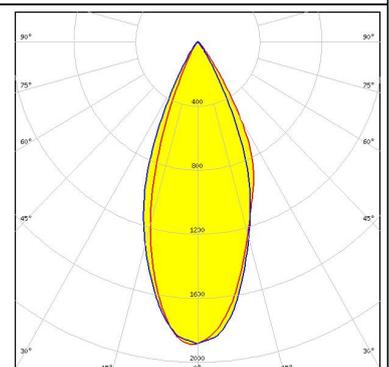
**NICHIA** 

LED NVSW3x9A  
 FWHM 50.0°  
 Efficiency 85 %  
 Peak intensity 1.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**OSRAM**  
Opto Semiconductors

LED OSOLON SSL 150  
 FWHM 41.0°  
 Efficiency 90 %  
 Peak intensity 1.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

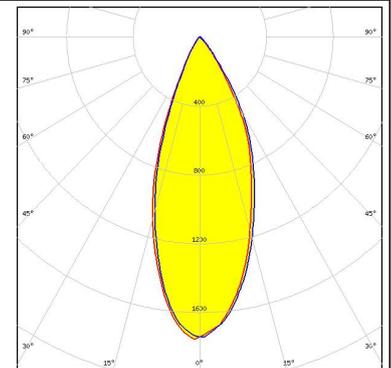
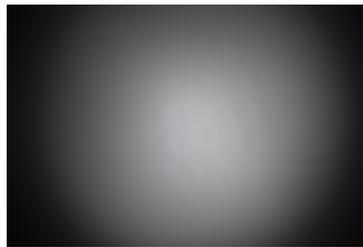


#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

LED OSLON SSL 80  
FWHM 39.0°  
Efficiency 87 %  
Peak intensity 1.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

LED SFH 4715S  
FWHM 32.0°  
Efficiency %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### OSRAM

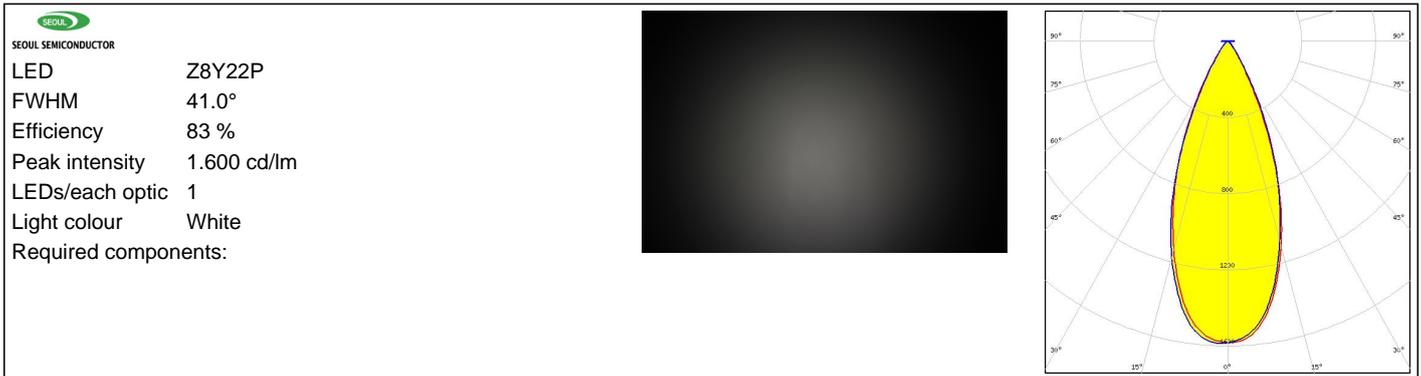
Opto Semiconductors

LED SFH 4725S  
FWHM 34.0°  
Efficiency %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### SAMSUNG

LED LH351A  
FWHM 54.0°  
Efficiency 91 %  
Peak intensity 0.790 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

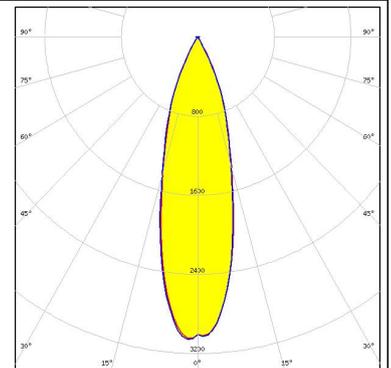
## PHOTOMETRIC DATA (MEASURED):



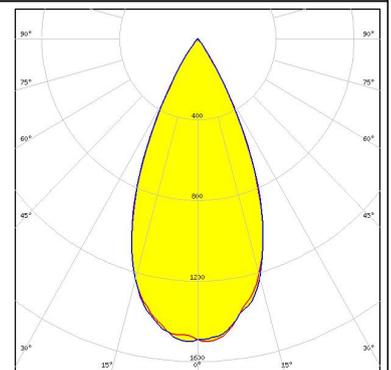
### PHOTOMETRIC DATA (SIMULATED):



LED NCSxE17A  
FWHM 28.0°  
Efficiency 90 %  
Peak intensity 3.106 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSxx19B/NVSxx19C  
FWHM 47.0°  
Efficiency 88 %  
Peak intensity 1.500 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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