

## TINA-D

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

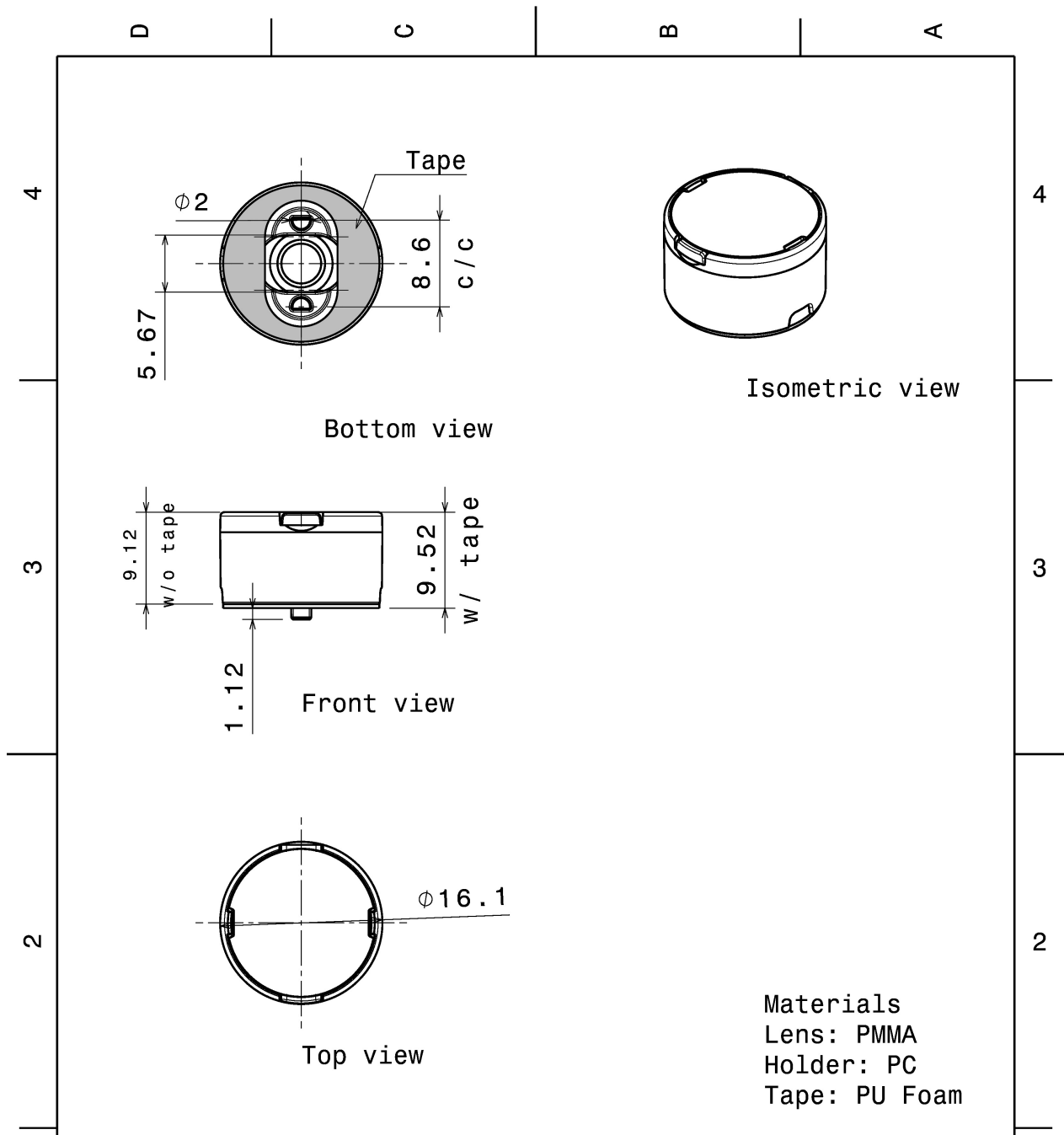
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	
Box weight	4.1 kg
Quantity in Box	2016 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

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



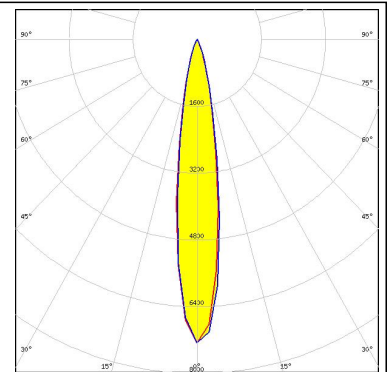
Materials  
 Lens: PMMA  
 Holder: PC  
 Tape: PU Foam

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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

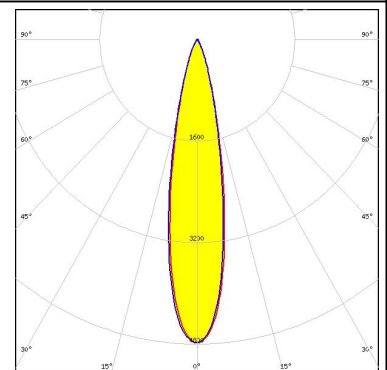
#### PHOTOMETRIC DATA (MEASURED):



LED XB-H  
 FWHM 17.0°  
 Efficiency 87 %  
 Peak intensity 7.300 cd/lm  
 Required components:



LED NVSW3x9A  
 FWHM 21.0°  
 Efficiency 87 %  
 Peak intensity 4.800 cd/lm  
 Required components:



LED Oslon SSL 150  
 FWHM 14.0°  
 Efficiency 89 %  
 Peak intensity 6.700 cd/lm  
 Required components:



LED Oslon SSL 80  
 FWHM 12.0°  
 Efficiency 89 %  
 Peak intensity 10.100 cd/lm  
 Required components:

### PHOTOMETRIC DATA (MEASURED):

#### OSRAM Opto Semiconductors

LED SFH 4715S  
FWHM 18.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:

#### OSRAM Opto Semiconductors

LED SFH 4725S  
FWHM 18.0°  
Efficiency %  
Peak intensity cd/lm  
Required components:

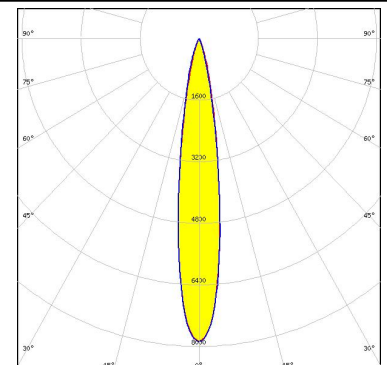
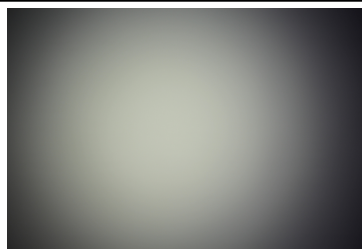
#### SAMSUNG

LED LH351A(3535)  
FWHM 18.0°  
Efficiency 93 %  
Peak intensity 4.130 cd/lm  
Required components:

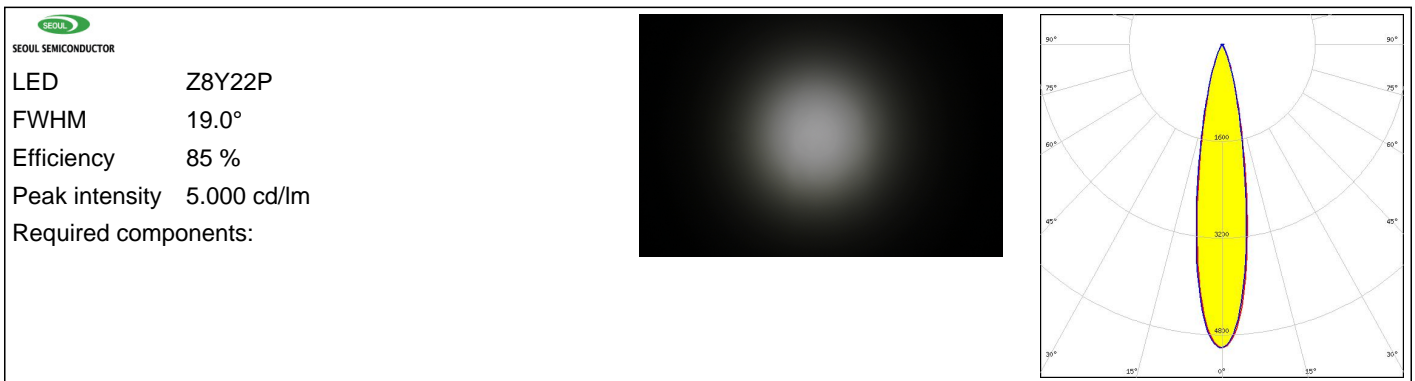


SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2  
FWHM 16.0°  
Efficiency 90 %  
Peak intensity 7.900 cd/lm  
Required components:



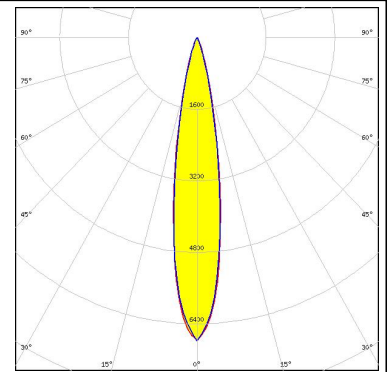
### PHOTOMETRIC DATA (MEASURED):



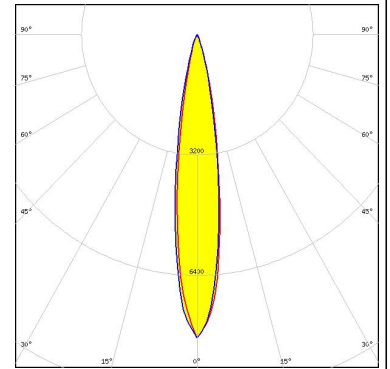
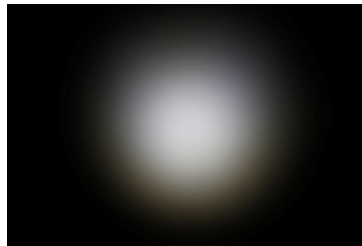
### PHOTOMETRIC DATA (SIMULATED):



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



LED Duris S5 (2 chip)  
FWHM 17.0°  
Efficiency 92 %  
Peak intensity 8.060 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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