

## TINA-RS

~13° spot beam. Assembly with holder, installation tape and location pins.

### SPECIFICATION:

Dimensions	Ø 16.1
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

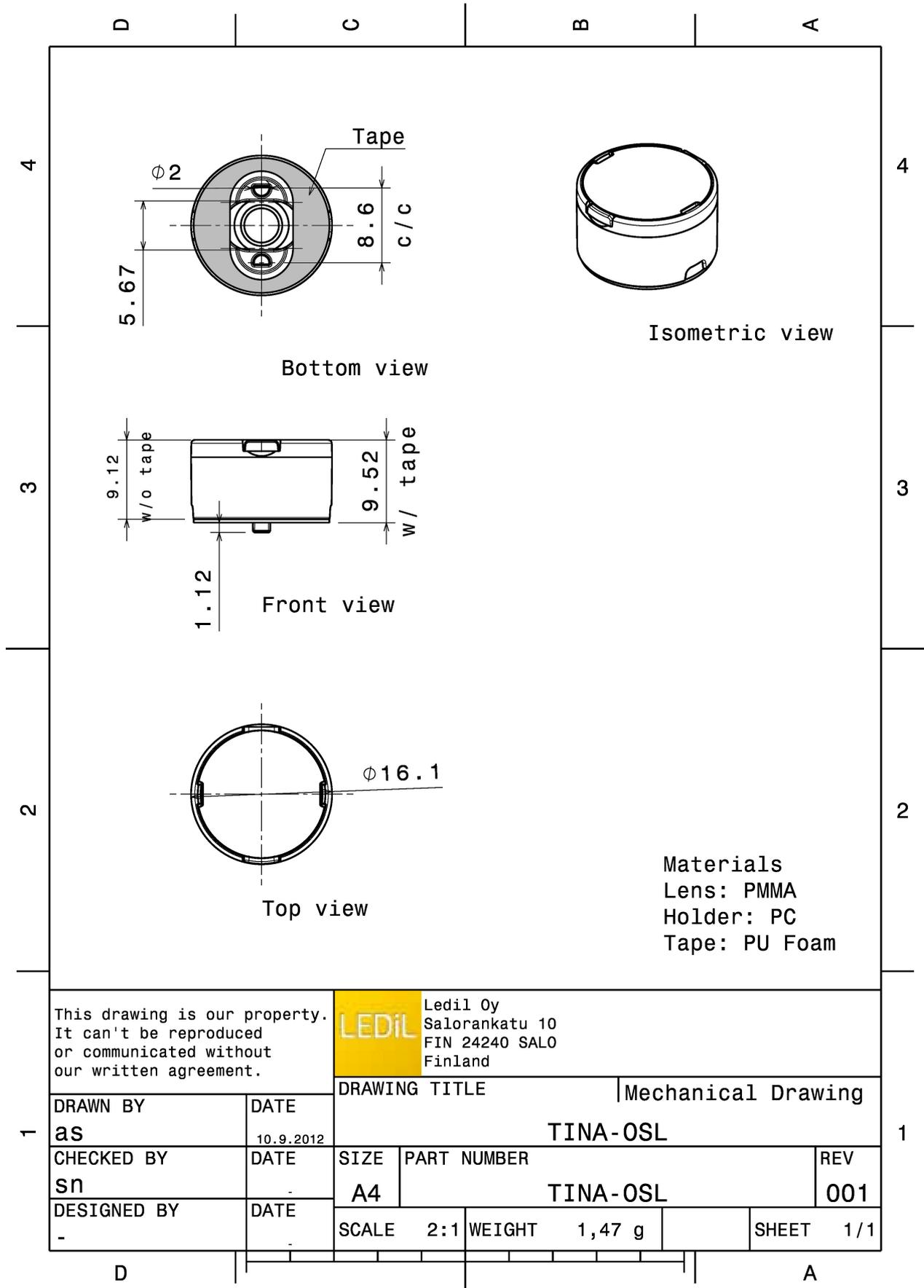


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
TINA-XP-RS	Single lens	PMMA	clear		
TINA-HLD-PIN-BLK	Holder	PC	black		
TINA-TAPE3	Tape	Acrylic foam	black		

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FA11208_TINA-RS » Box size: 470 x 240 x 105 mm	2016	288	144	4.1



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**LEDiL** LediL Oy  
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 Finland

DRAWN BY  
**as**

DATE  
10.9.2012

DRAWING TITLE | Mechanical Drawing

TINA-OSL

CHECKED BY  
**sn**

DATE  
-

SIZE | PART NUMBER

A4

TINA-OSL

REV  
001

DESIGNED BY  
-

DATE  
-

SCALE 2:1 | WEIGHT 1,47 g

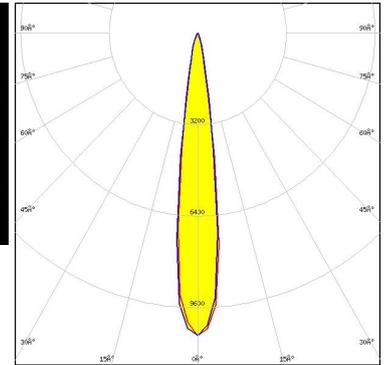
SHEET 1/1

See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



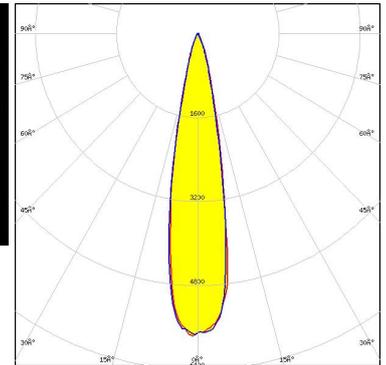
**LED** XB-H  
**FWHM / FWTM** 15.0° / 27.0°  
**Efficiency** 88 %  
**Peak intensity** 10.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



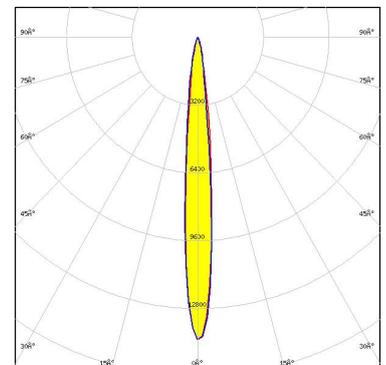
**LED** NVSW3x9A  
**FWHM / FWTM** 20.0° / 37.0°  
**Efficiency** 88 %  
**Peak intensity** 5.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** OSLOM SSL 80  
**FWHM / FWTM** 11.0° / 23.0°  
**Efficiency** 90 %  
**Peak intensity** 14.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED SFH 4715S  
FWHM / FWTM 15.0° / 26.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type White  
Required components:

[Light distribution files](#)

**OSRAM**  
Opto Semiconductors

LED SFH 4725S  
FWHM / FWTM 10.0° / 24.0°  
Efficiency %  
LEDs/each optic 1  
Light colour/type White  
Required components:

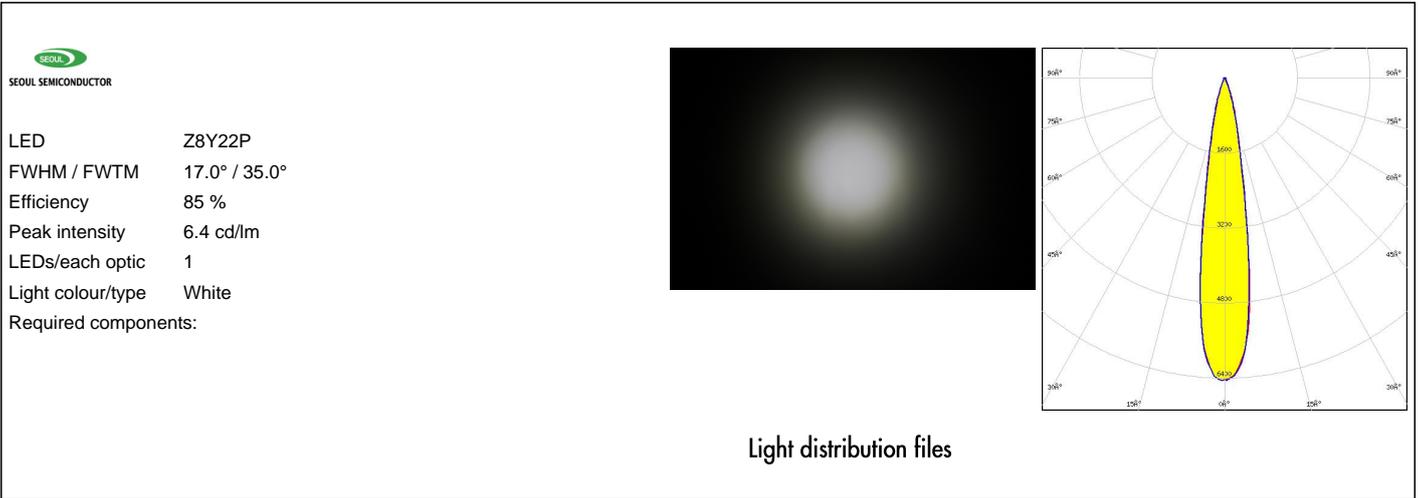
[Light distribution files](#)

**SAMSUNG**

LED LH351A  
FWHM / FWTM 14.0° / 26.0°  
Efficiency 93 %  
Peak intensity 7.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

[Light distribution files](#)

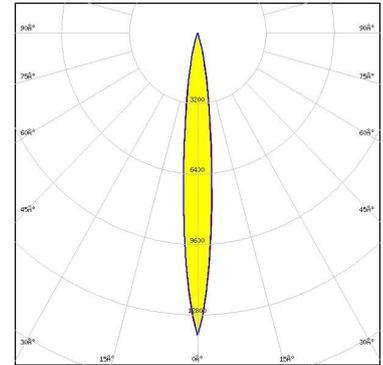
### OPTICAL RESULTS (MEASURED):



### OPTICAL RESULTS (SIMULATED):



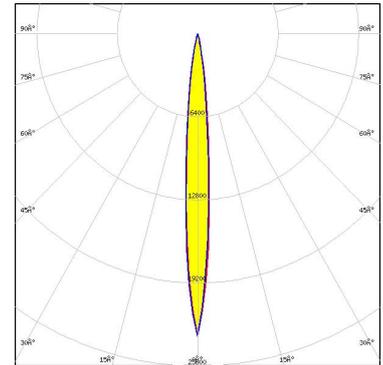
**LED** LUXEON C  
**FWHM / FWTM** 12.0° / 27.0°  
**Efficiency** 87 %  
**Peak intensity** 13.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



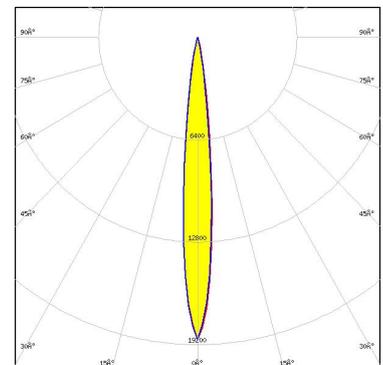
**LED** LUXEON CZ  
**FWHM / FWTM** 10.0° / 21.0°  
**Efficiency** 92 %  
**Peak intensity** 23.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Red  
**Required components:**



Light distribution files

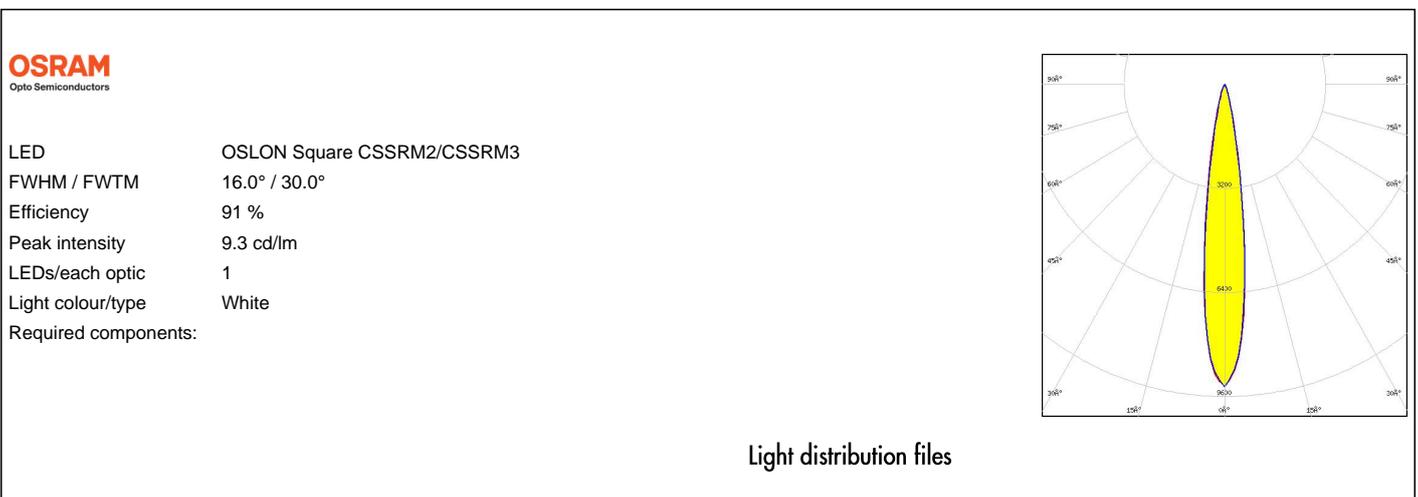
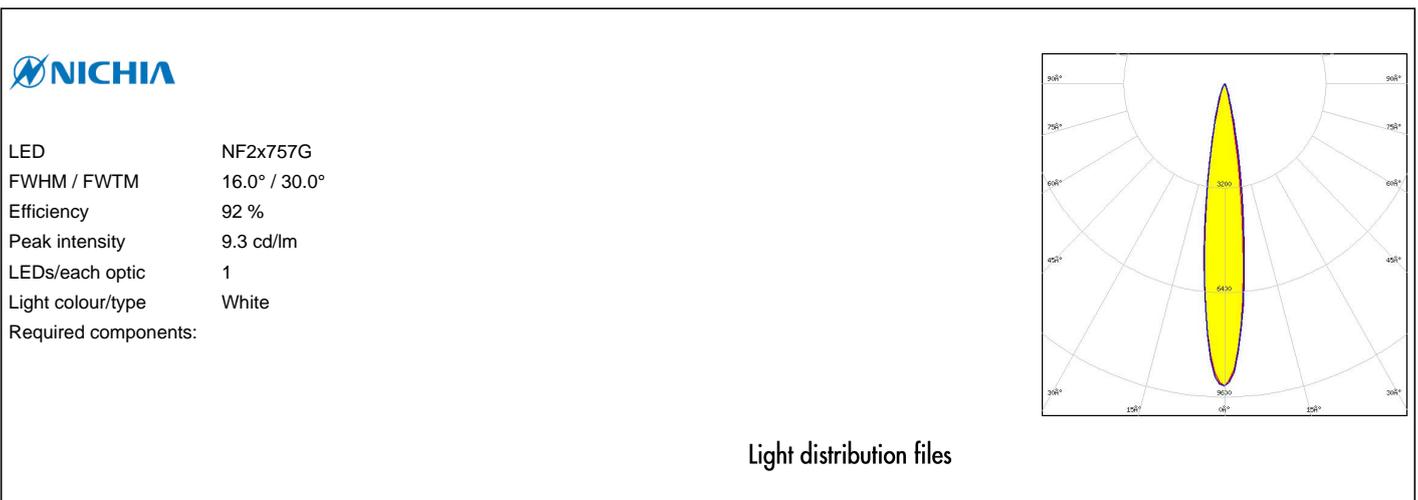
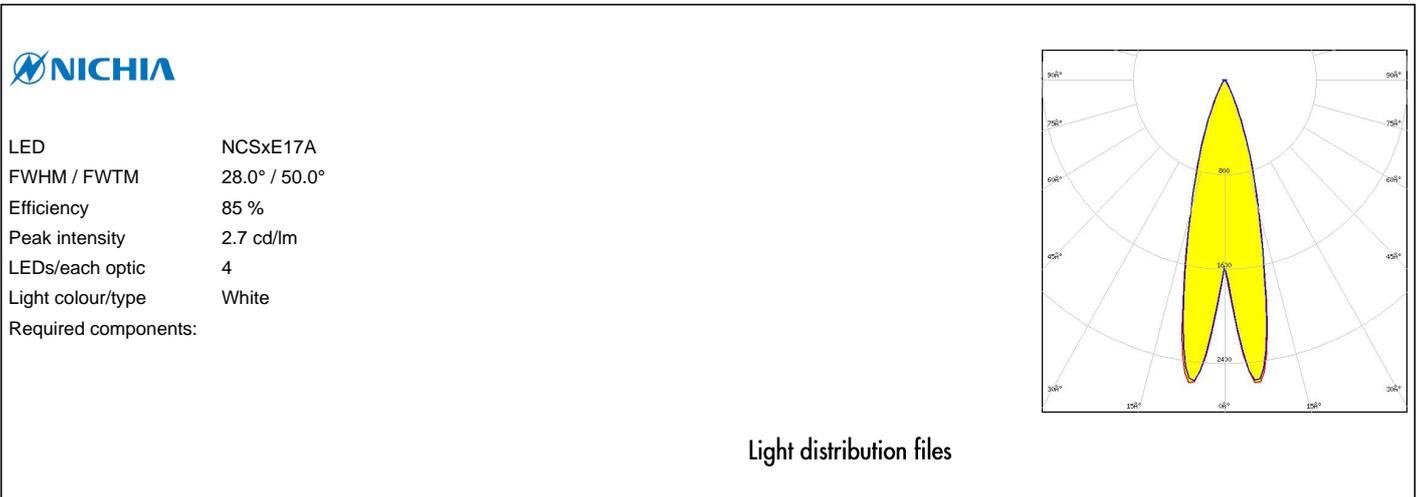


**LED** LUXEON Z ES  
**FWHM / FWTM** 11.0° / 22.0°  
**Efficiency** 92 %  
**Peak intensity** 18.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

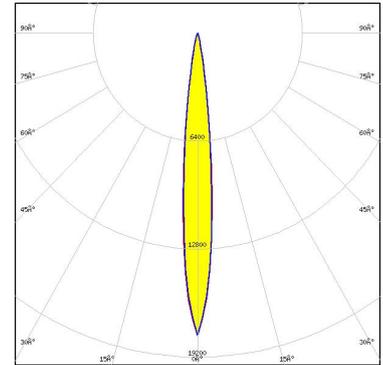
#### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

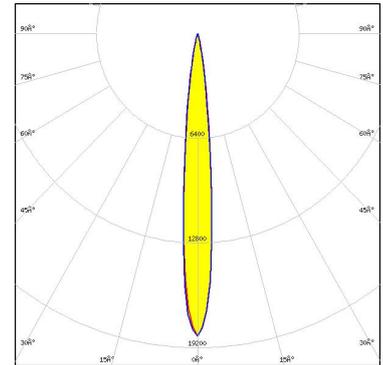
LED SYNIOS S2222  
FWHM / FWTM 12.0 + 11.0° / 22.0°  
Efficiency 97 %  
Peak intensity 17.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**STANLEY**

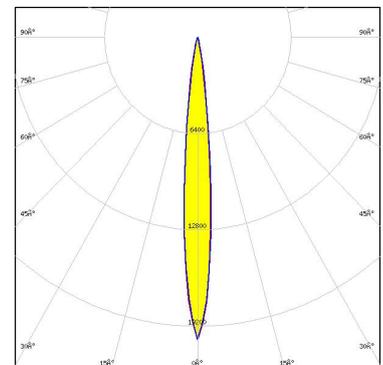
LED MGN1108MS  
FWHM / FWTM 10.0° / 22.0°  
Efficiency 91 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**STANLEY**

LED MJN1108MS  
FWHM / FWTM 10.0° / 22.0°  
Efficiency 92 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

### 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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