

## TINA-Y-RS

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

### SPECIFICATION:

Dimensions	Ã~ 16.1 mm
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

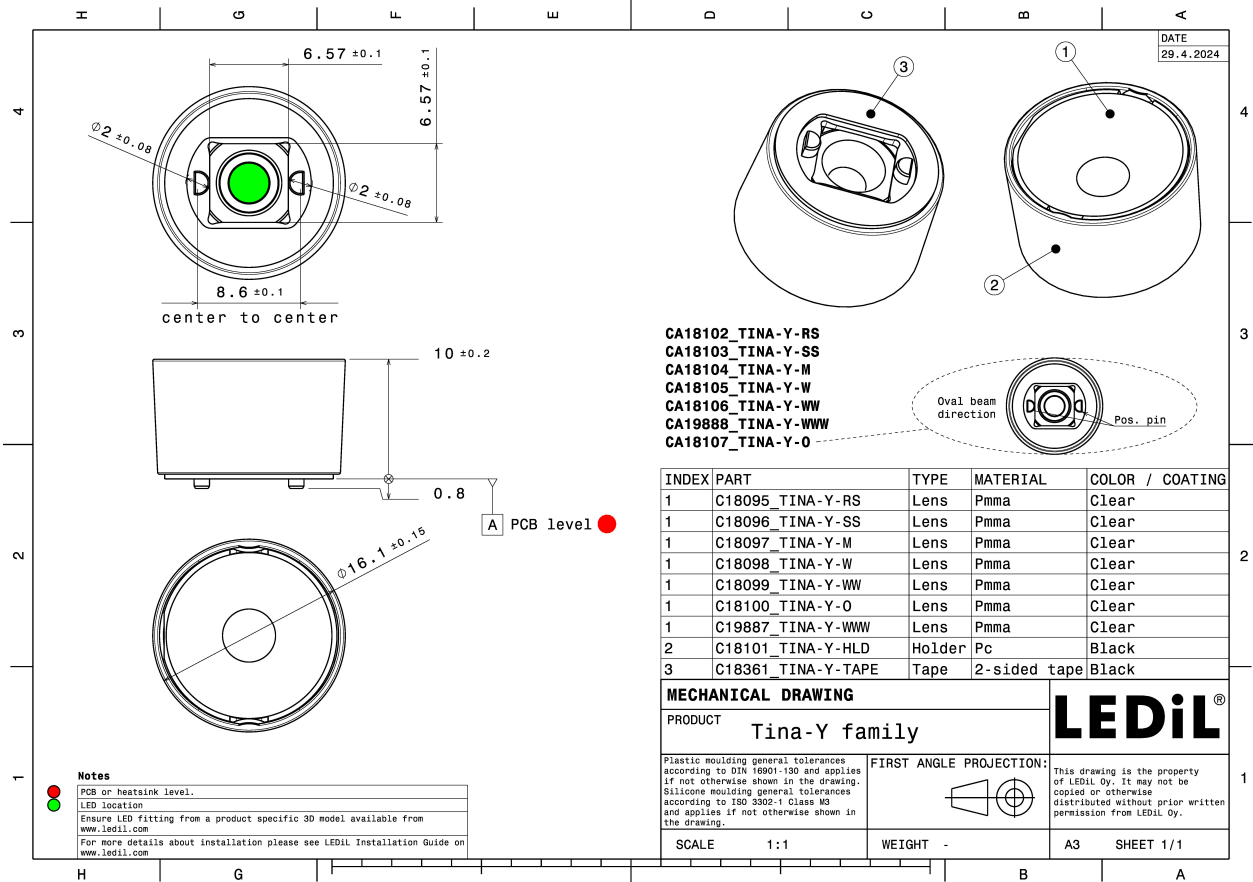


### MATERIALS:

Component	Type	Material	Colour	Finish	Length
TINA-Y-RS	Single lens	PMMA	clear	gloss	14.7
TINA-Y-HLD	Holder	PC	black	gloss	16.1
TINA-Y-TAPE	Tape	Acrylic foam			

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18102_TINA-Y-RS » Box size: 476 x 273 x 197 mm	3900	300	300	5.6

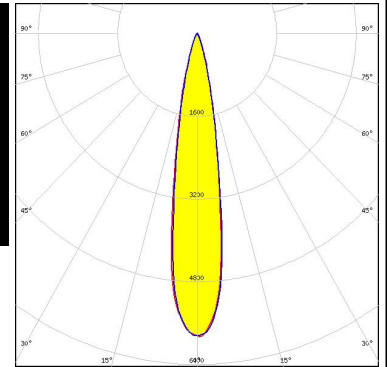


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



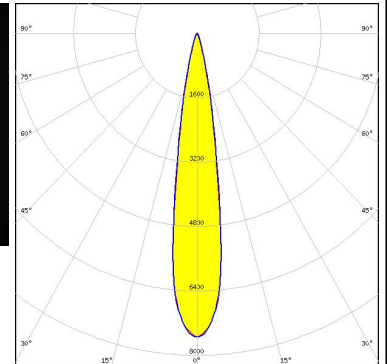
**LED** XP-G3  
**FWHM / FWTM** 18.0° / 35.0°  
**Efficiency** 81 %  
**Peak intensity** 5.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



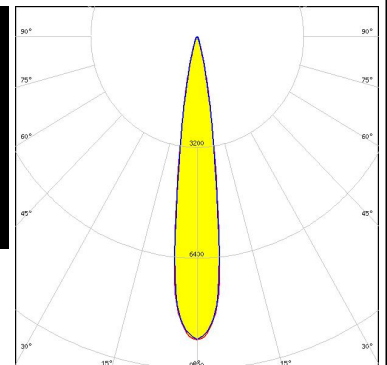
**LED** XP-G4  
**FWHM / FWTM** 17.0° / 31.0°  
**Efficiency** 87 %  
**Peak intensity** 7.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSW719AC  
**FWHM / FWTM** 16.0° / 29.0°  
**Efficiency** 88 %  
**Peak intensity** 8.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

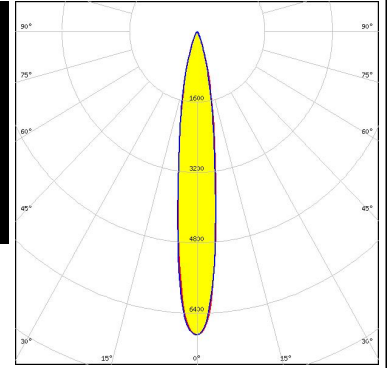


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 3030  
FWHM / FWTM 15.0° / 35.0°  
Efficiency 83 %  
Peak intensity 6.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

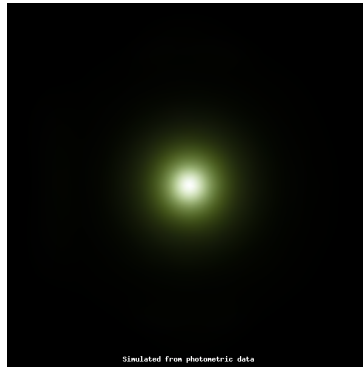


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



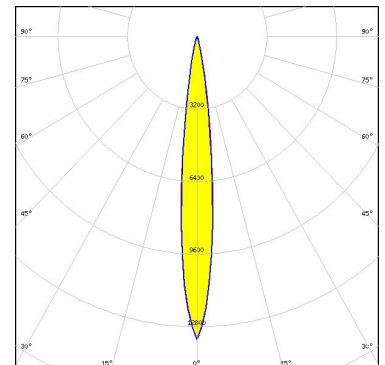
LED J Series 3030C  
 FWHM / FWTM 15.0° / 32.0°  
 Efficiency 87 %  
 Peak intensity 8.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



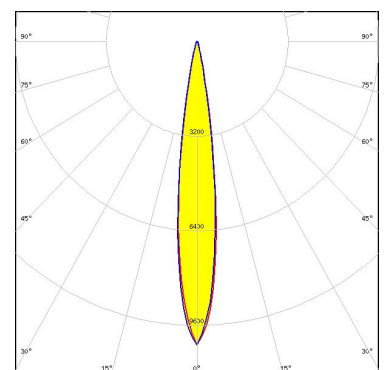
LED XD16 Premium  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 86 %  
 Peak intensity 13.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XE-G  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 87 %  
 Peak intensity 10.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

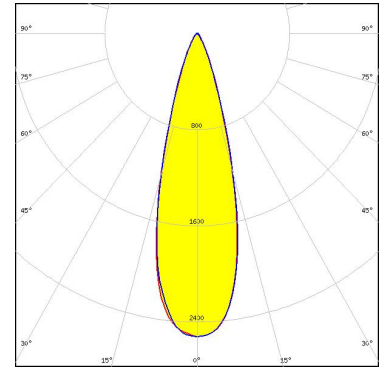


Light distribution files

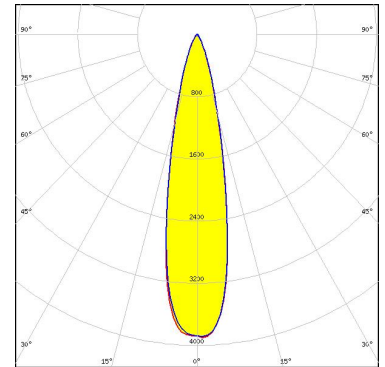
### OPTICAL RESULTS (SIMULATED):



LED XHP35.2 HD  
FWHM / FWTM 30.0° / 52.0°  
Efficiency 76 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



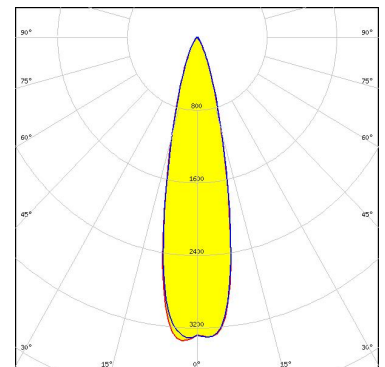
LED XHP35.2 HI  
FWHM / FWTM 22.0° / 44.0°  
Efficiency 84 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XHP50.3 HI  
FWHM / FWTM 24.0° / 48.0°  
Efficiency 82 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

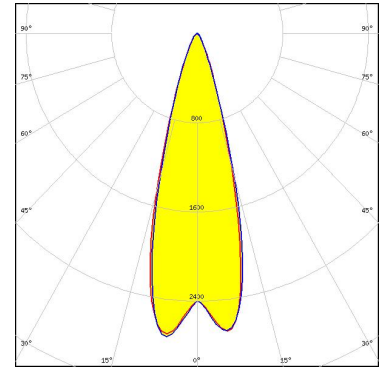


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



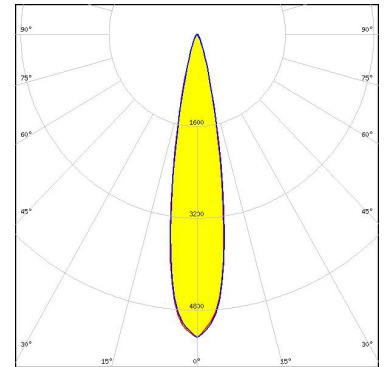
LED XM-L RGBW (XMLDCL HD)  
 FWHM / FWTM 30.0° / 49.0°  
 Efficiency 85 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type RGBW  
 Required components:



Light distribution files



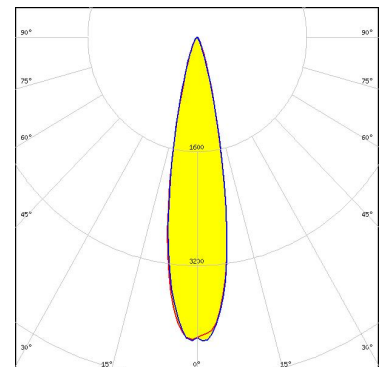
LED XM-L RGBW (XMLDCL HI)  
 FWHM / FWTM 20.0° / 37.0°  
 Efficiency 85 %  
 Peak intensity 5.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type RGBW  
 Required components:



Light distribution files



LED XM-L3  
 FWHM / FWTM 21.0° / 40.0°  
 Efficiency 81 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

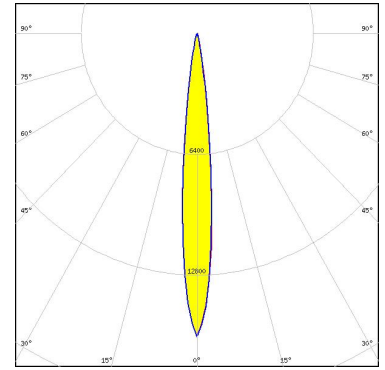


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



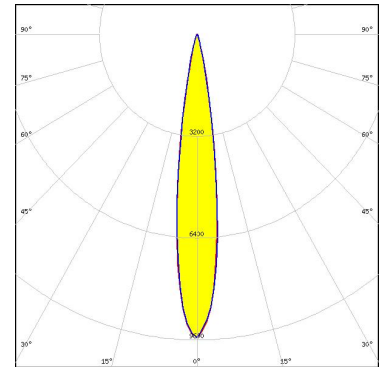
LED XP-E2  
 FWHM / FWTM 11.0° / 22.0°  
 Efficiency 88 %  
 Peak intensity 16 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



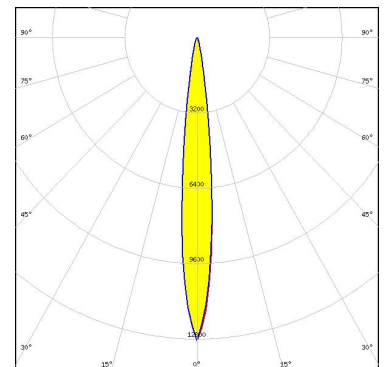
LED XP-G2  
 FWHM / FWTM 15.0° / 28.0°  
 Efficiency 88 %  
 Peak intensity 9.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G4 HI  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 86 %  
 Peak intensity 12.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

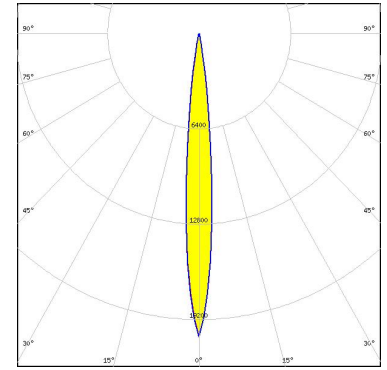




#### OPTICAL RESULTS (SIMULATED):



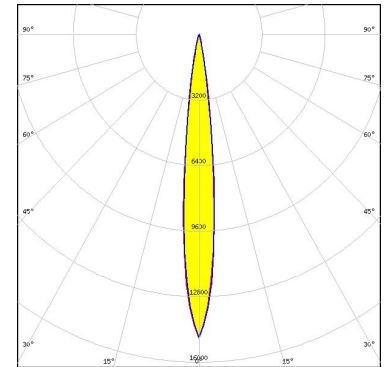
LED XP-P  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 89 %  
 Peak intensity 20.4 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



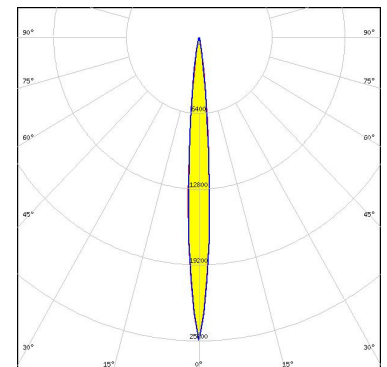
LED XQ-E HD  
 FWHM / FWTM 12.0° / 22.0°  
 Efficiency 87 %  
 Peak intensity 14.8 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XQ-E HI  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 87 %  
 Peak intensity 25.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

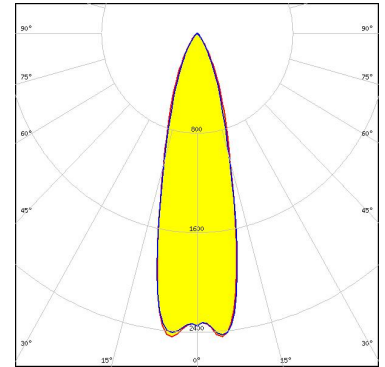


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



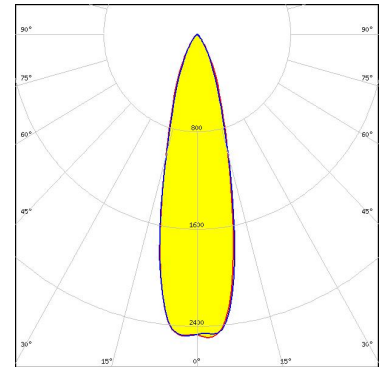
LED LUXEON 5050 Round LES  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 81 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



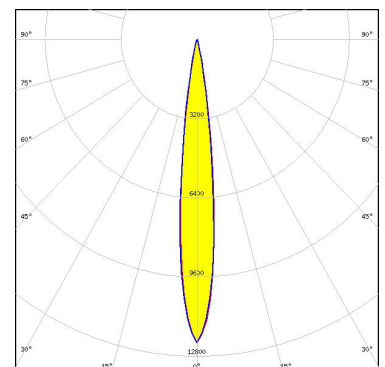
LED LUXEON 5050 Square LES  
 FWHM / FWTM 26.0° / 56.0°  
 Efficiency 80 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON C  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 79 %  
 Peak intensity 12.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

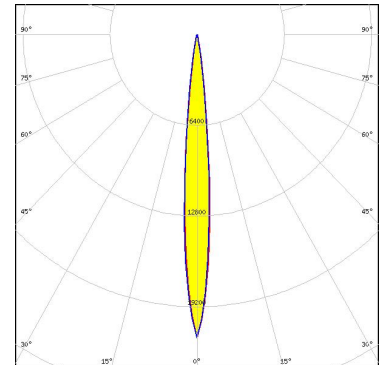
### OPTICAL RESULTS (SIMULATED):

#### LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	8.0° / 18.0°
Efficiency	88 %
Peak intensity	25.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

#### LUMILEDS

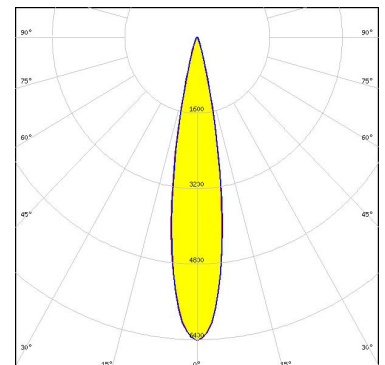
LED	LUXEON CZ
FWHM / FWTM	10.0° / 19.0°
Efficiency	88 %
Peak intensity	21.4 cd/lm
LEDs/each optic	1
Light colour/type	Red
Required components:	



Light distribution files

#### LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	20.0° / 32.0°
Efficiency	87 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### LUMILEDS

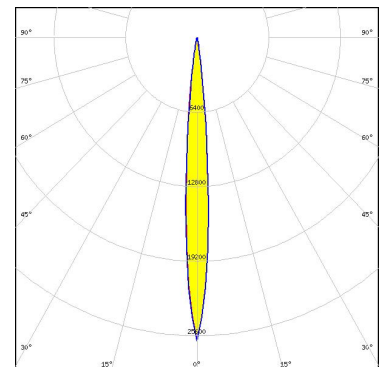
LED	LUXEON HL2X
FWHM / FWTM	14.0° / 32.0°
Efficiency	83 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

#### LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	8.0° / 18.0°
Efficiency	89 %
Peak intensity	24.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

#### LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	8.0° / 18.0°
Efficiency	89 %
Peak intensity	26.1 cd/lm
LEDs/each optic	1
Light colour/type	Blue
Required components:	

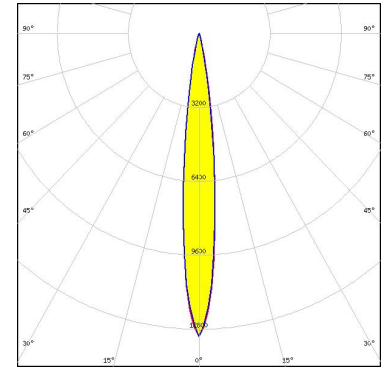


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED LUXEON Z ES  
FWHM / FWTM 12.0° / 24.0°  
Efficiency 87 %  
Peak intensity 13.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



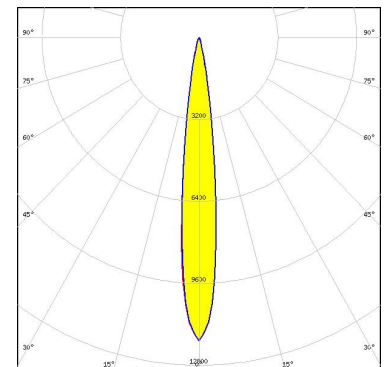
Light distribution files



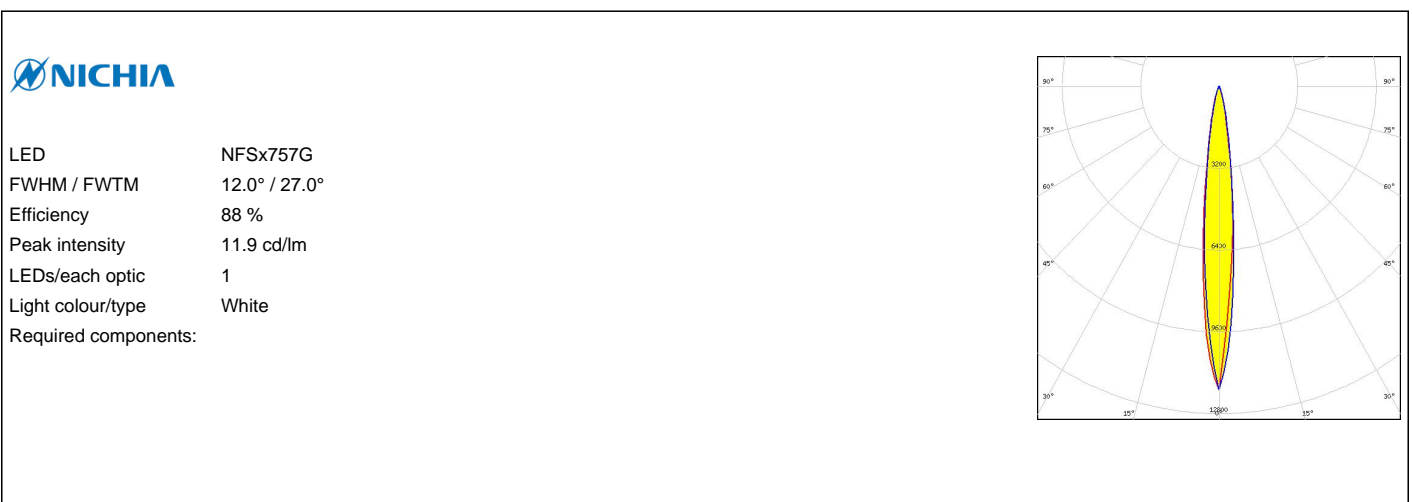
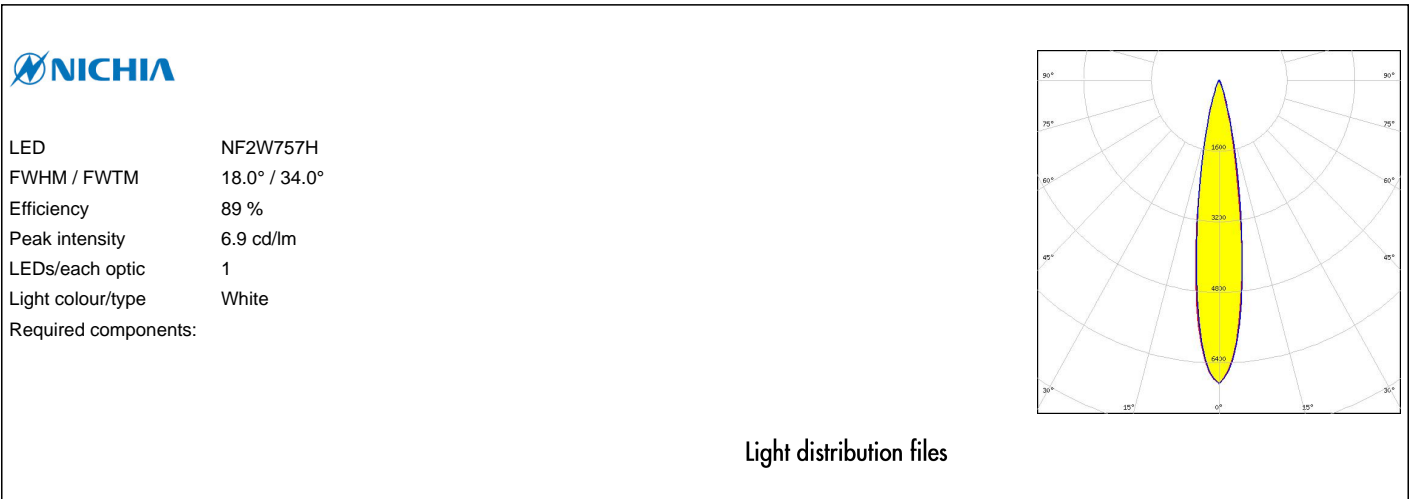
LED SFT-12R-WES  
FWHM / FWTM 8.0° / 18.0°  
Efficiency 89 %  
Peak intensity 27 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



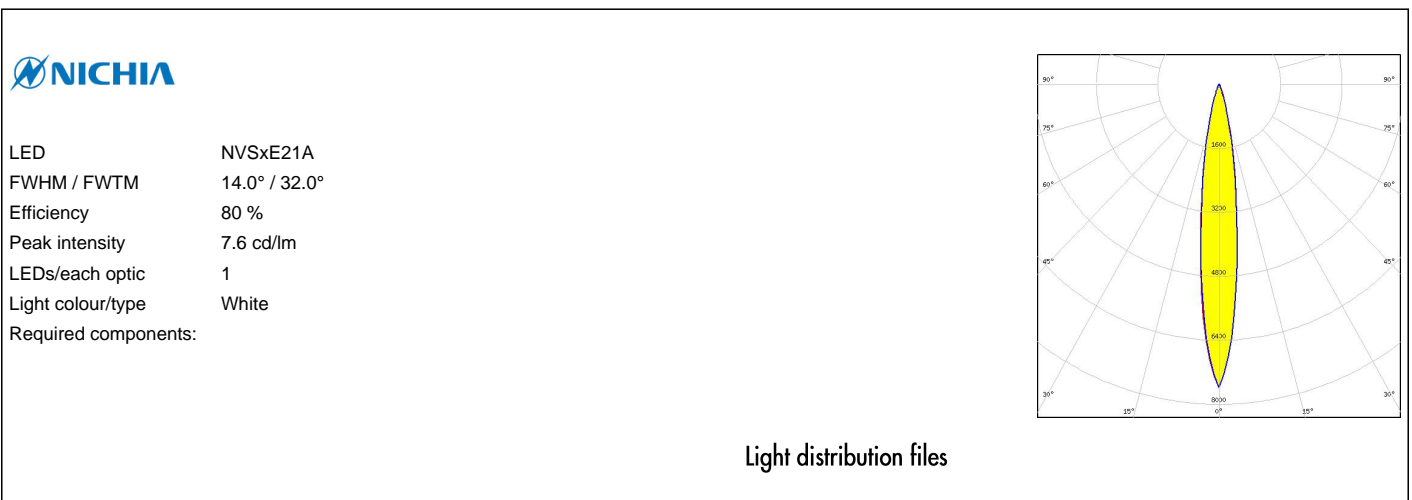
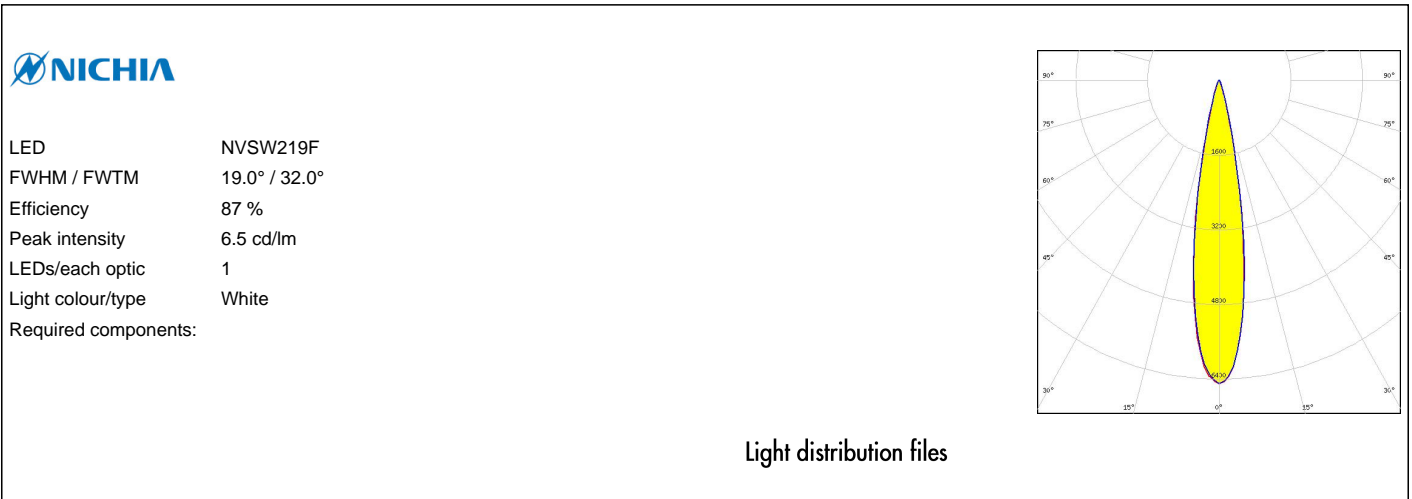
LED SST-20  
FWHM / FWTM 12.0° / 26.0°  
Efficiency 86 %  
Peak intensity 11.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



### OPTICAL RESULTS (SIMULATED):



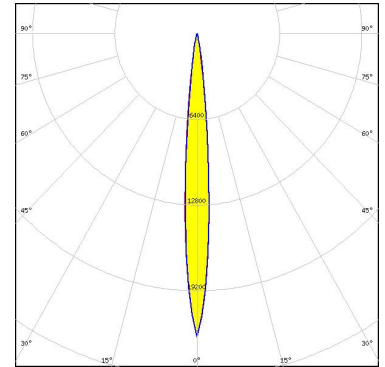
#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):

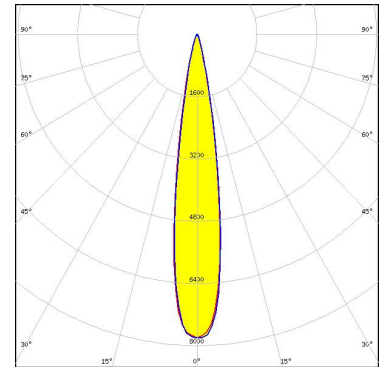
**OSRAM**  
Opto Semiconductors

LED OSLON Pure 1414  
 FWHM / FWTM 10.0° / 18.0°  
 Efficiency 89 %  
 Peak intensity 22.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



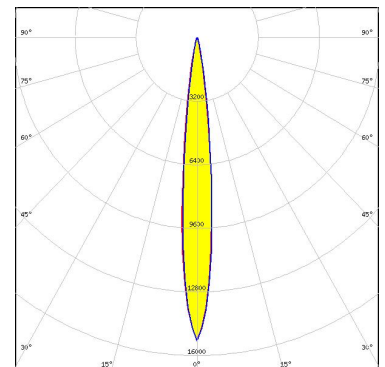
**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 17.0° / 30.0°  
 Efficiency 87 %  
 Peak intensity 7.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 87 %  
 Peak intensity 15.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type Far Red  
 Required components:



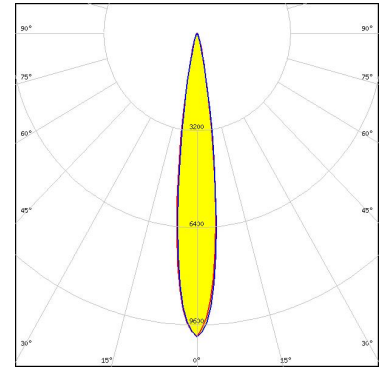
Light distribution files



### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

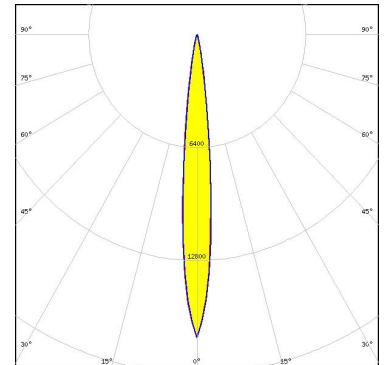
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 15.0° / 27.0°  
 Efficiency 88 %  
 Peak intensity 10 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

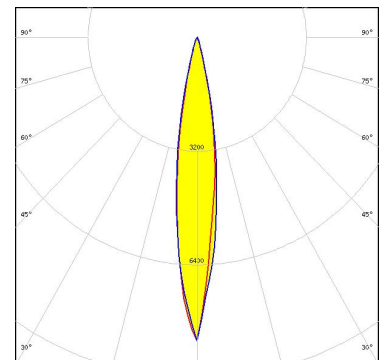
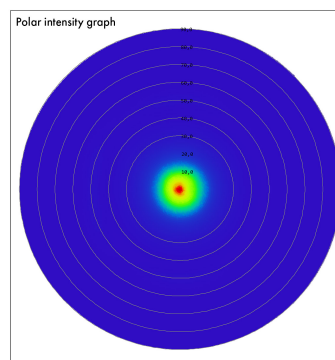
LED OSLON SSL 150  
 FWHM / FWTM 11.0° / 22.0°  
 Efficiency 88 %  
 Peak intensity 17.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED SFH 4715AS  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 86 %  
 Peak intensity 8.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type IR  
 Required components:

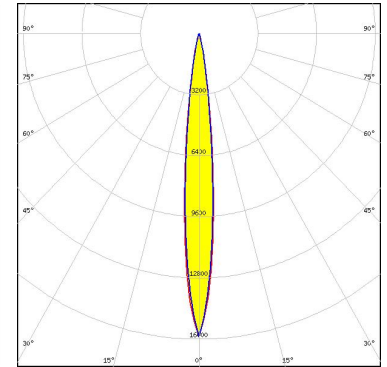
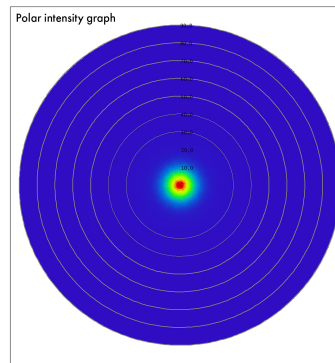


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

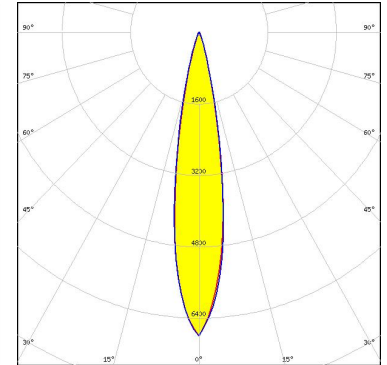
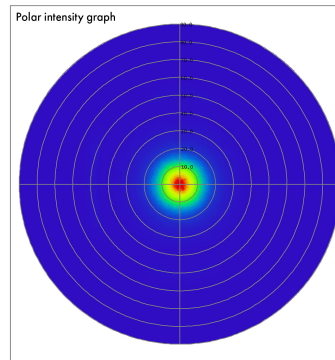
LED SFH 4716S  
FWHM / FWTM 11.0° / 22.0°  
Efficiency 86 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

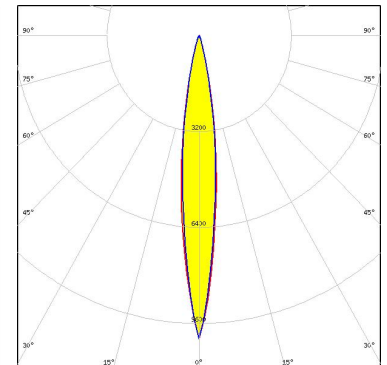
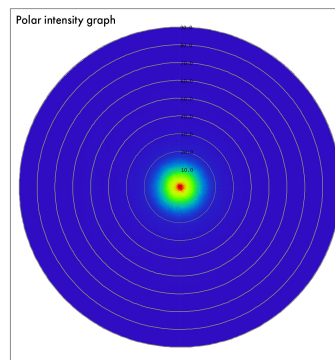
LED SFH 4725AS  
FWHM / FWTM 18.0° / 32.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED SFH 4725S  
FWHM / FWTM 13.0° / 28.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:

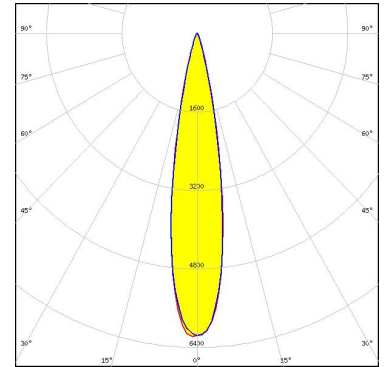


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED LH351B  
FWHM / FWTM 20.0° / 34.0°  
Efficiency 86 %  
Peak intensity 6.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

### STANLEY

LED MGN1108MS  
FWHM / FWTM 12.0° / 20.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:

### STANLEY

LED MJN1108MS  
FWHM / FWTM 12.0° / 20.0°  
Efficiency 89 %  
LEDs/each optic 1  
Light colour/type IR  
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:

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.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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

#### Shipping locations

Poznan, Poland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
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