TINA2-RS

~14° spot beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

SPECIFICATION:

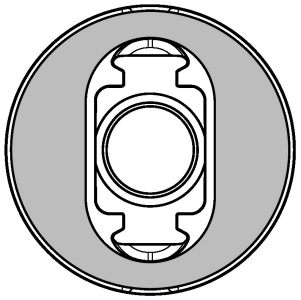
Dimensions	Ø 16.1 mm
Height	10.1 mm
Fastening	tape
ROHS compliant	yes

MATERIALS:

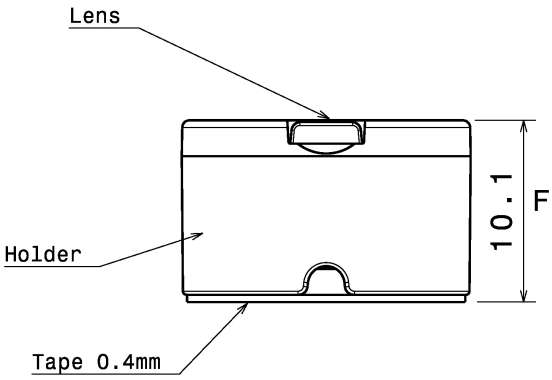
Component	Type	Material	Colour	Finish	Length (mm)
TINA2-O-PLUS-RS	Single lens	PMMA	clear		
TINA2-O-PLUS-HLD-WHT	Holder	PC	white		
TINA-TAPE3	Tape	Acrylic foam	black		

ORDERING INFORMATION:

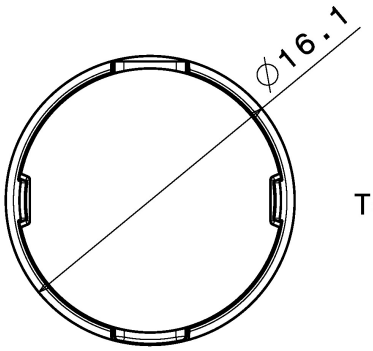
Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA11847_TINA2-RS » Box size: 451 x 241 x 298 mm	4140	230	230	0.0



Bottom view



Front view



Top view

MATERIALS
Lens: PMMA
Holder: PC
Tape: Acrylic foam

DRAWN BY m	DATE 29.04.2011	DRAWING TITLE: Datasheet Tina2-O-Plus Assy			
CHECKED BY t k	DATE 29.04.2011	SIZE A4	DRAWING NUMBER		REV 2
DESIGNED BY HH	DATE 01.01.2011	SCALE 3:1	WEIGHT(g) -		SHEET 1/1

See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

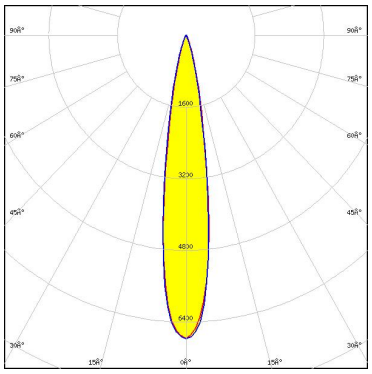
LED	Golden Dragon+
FWHM / FWTM	10.0° / 20.0°
Efficiency	93 %
Peak intensity	18 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

OPTICAL RESULTS (SIMULATED):

CREE LEDs

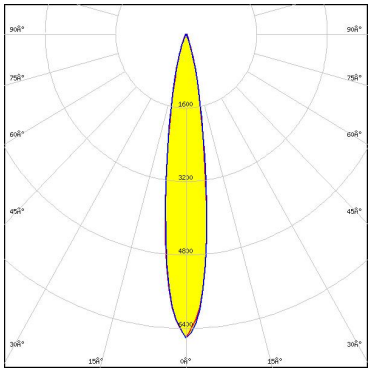
LED	XP-G2 HE
FWHM / FWTM	17.0° / 34.0°
Efficiency	88 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

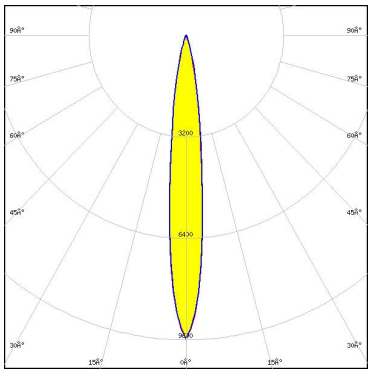
LED	XP-G3
FWHM / FWTM	16.0° / 34.0°
Efficiency	85 %
Peak intensity	6.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-L HI
FWHM / FWTM	12.0° / 30.0°
Efficiency	89 %
Peak intensity	9.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

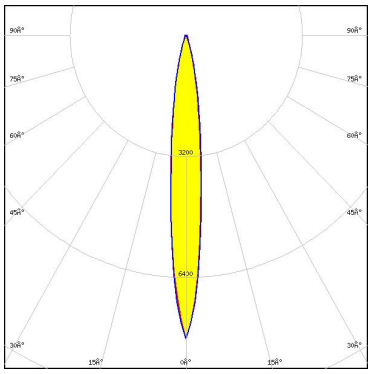


Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs

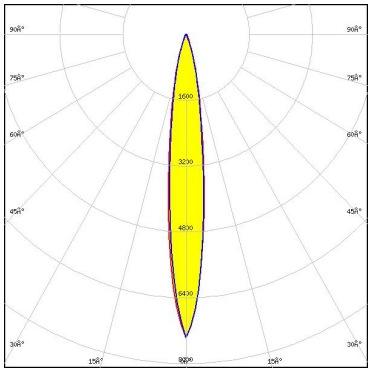
LED	XT-E
FWHM / FWTM	12.0° / 30.0°
Efficiency	82 %
Peak intensity	8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

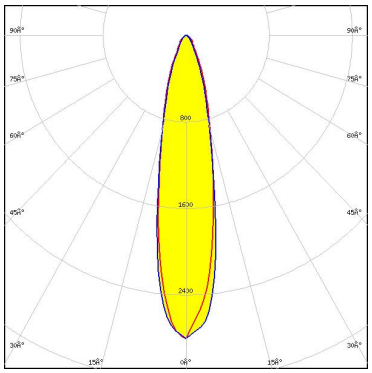
LED	LUXEON 3030 HE Plus
FWHM / FWTM	14.0° / 34.0°
Efficiency	87 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	22.0° / 52.0°
Efficiency	85 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

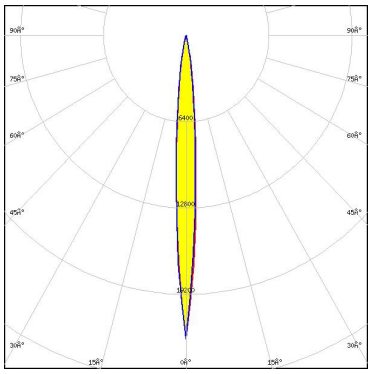


Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS

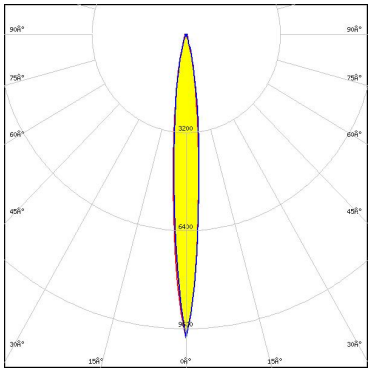
LED	LUXEON CZ
FWHM / FWTM	8.0° / 20.0°
Efficiency	88 %
Peak intensity	22.5 cd/lm
LEDs/each optic	1
Light colour/type	Red
Required components:	



Light distribution files

LUMILEDS

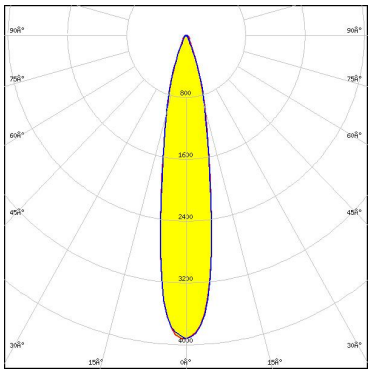
LED	LUXEON IR Domed 150 (L1I0-0xxx150000000)
FWHM / FWTM	10.0° / 27.0°
Efficiency	81 %
LEDs/each optic	1
Light colour/type	IR
Required components:	



Light distribution files

NICHIA

LED	NV4WB35AM
FWHM / FWTM	20.0° / 44.0°
Efficiency	86 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

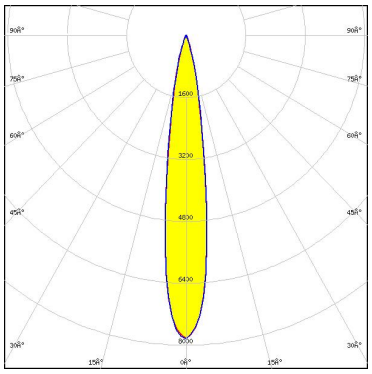


Light distribution files

OPTICAL RESULTS (SIMULATED):

NICHIA

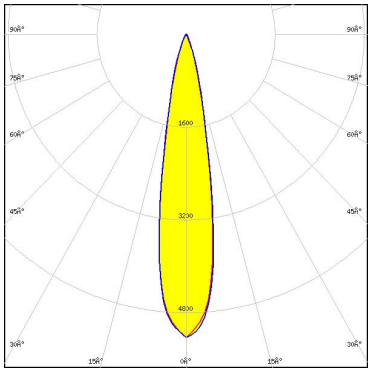
LED	NVSW219F
FWHM / FWTM	16.0° / 32.0°
Efficiency	89 %
Peak intensity	7.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

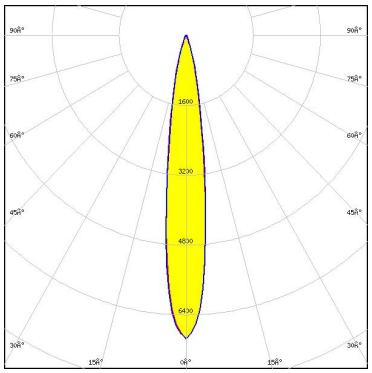
LED	NVSW519A
FWHM / FWTM	20.0° / 38.0°
Efficiency	85 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	16.0° / 33.0°
Efficiency	84 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

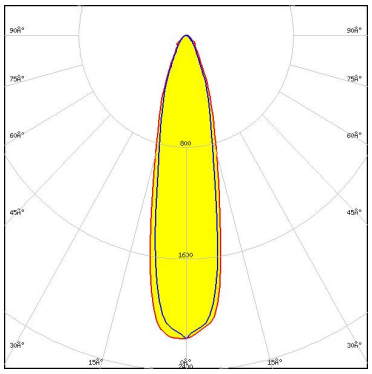


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

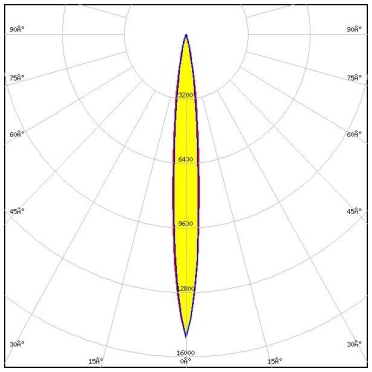
LED	Duris S8
FWHM / FWTM	25.0° / 59.0°
Efficiency	85 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

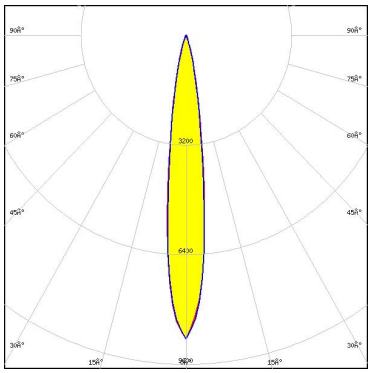
LED	OSLON Boost HX (KW CULPM1.TG)
FWHM / FWTM	10.0° / 24.0°
Efficiency	89 %
Peak intensity	15.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	14.0° / 30.0°
Efficiency	88 %
Peak intensity	8.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

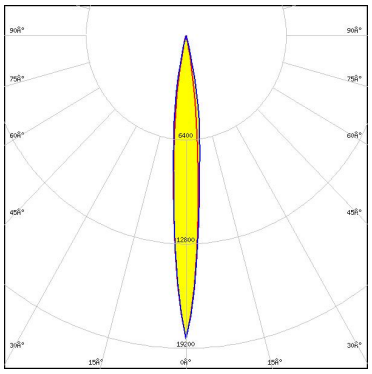


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

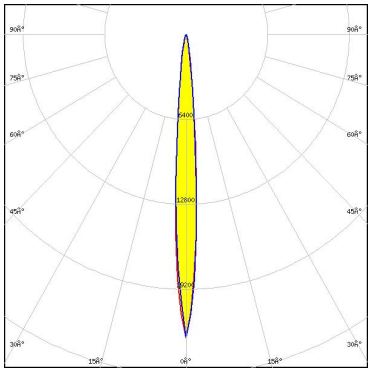
LED	PLPVEC2 850A
FWHM / FWTM	10.0° / 23.0°
Efficiency	93 %
LEDs/each optic	1
Light colour/type	IR
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

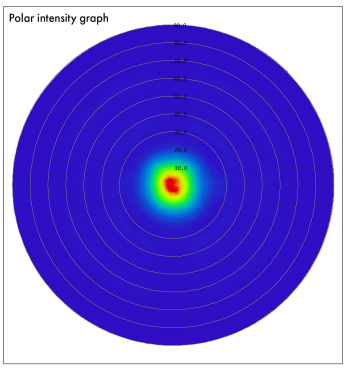
LED	SFH 4232A
FWHM / FWTM	8.0° / 19.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	IR
Required components:	

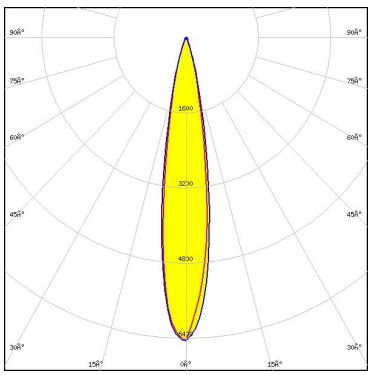


Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4715AS
FWHM / FWTM	17.0° / 35.0°
Efficiency	88 %
LEDs/each optic	1
Light colour/type	IR
Required components:	



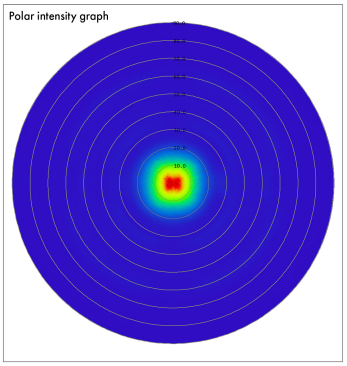


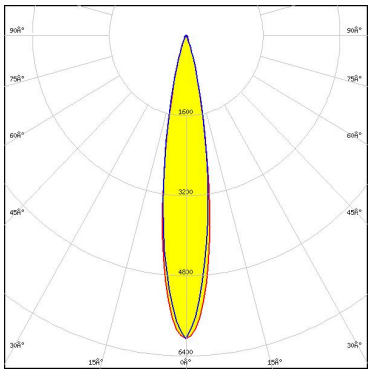
Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	SFH 4725AS
FWHM / FWTM	18.0° / 34.0°
Efficiency	88 %
LEDs/each optic	1
Light colour/type	IR
Required components:	

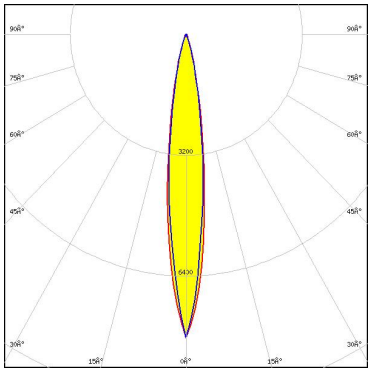




Light distribution files

OSRAM
Opto Semiconductors

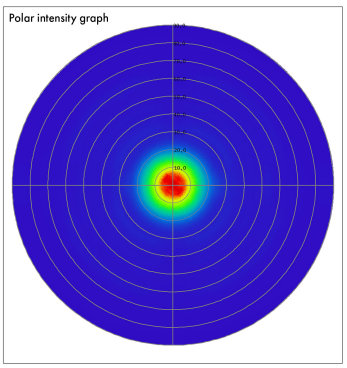
LED	SFH 4725S
FWHM / FWTM	14.0° / 32.0°
Efficiency	88 %
LEDs/each optic	1
Light colour/type	IR
Required components:	

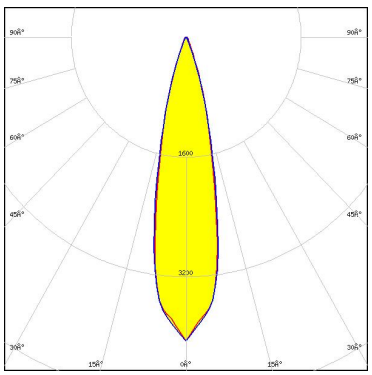


Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4727AS
FWHM / FWTM	23.0° / 42.0°
Efficiency	86 %
LEDs/each optic	1
Light colour/type	IR
Required components:	



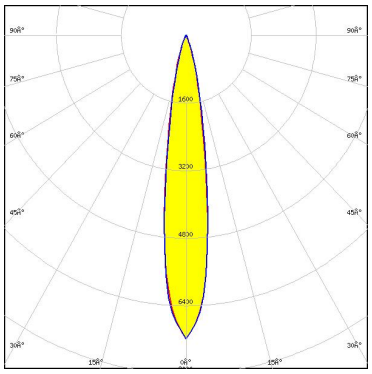


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH351C
FWHM / FWTM	16.0° / 34.0°
Efficiency	91 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour/type	White
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.

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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