TINA-RS

~13° spot beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.



TECHNICAL SPECIFICATIONS:

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

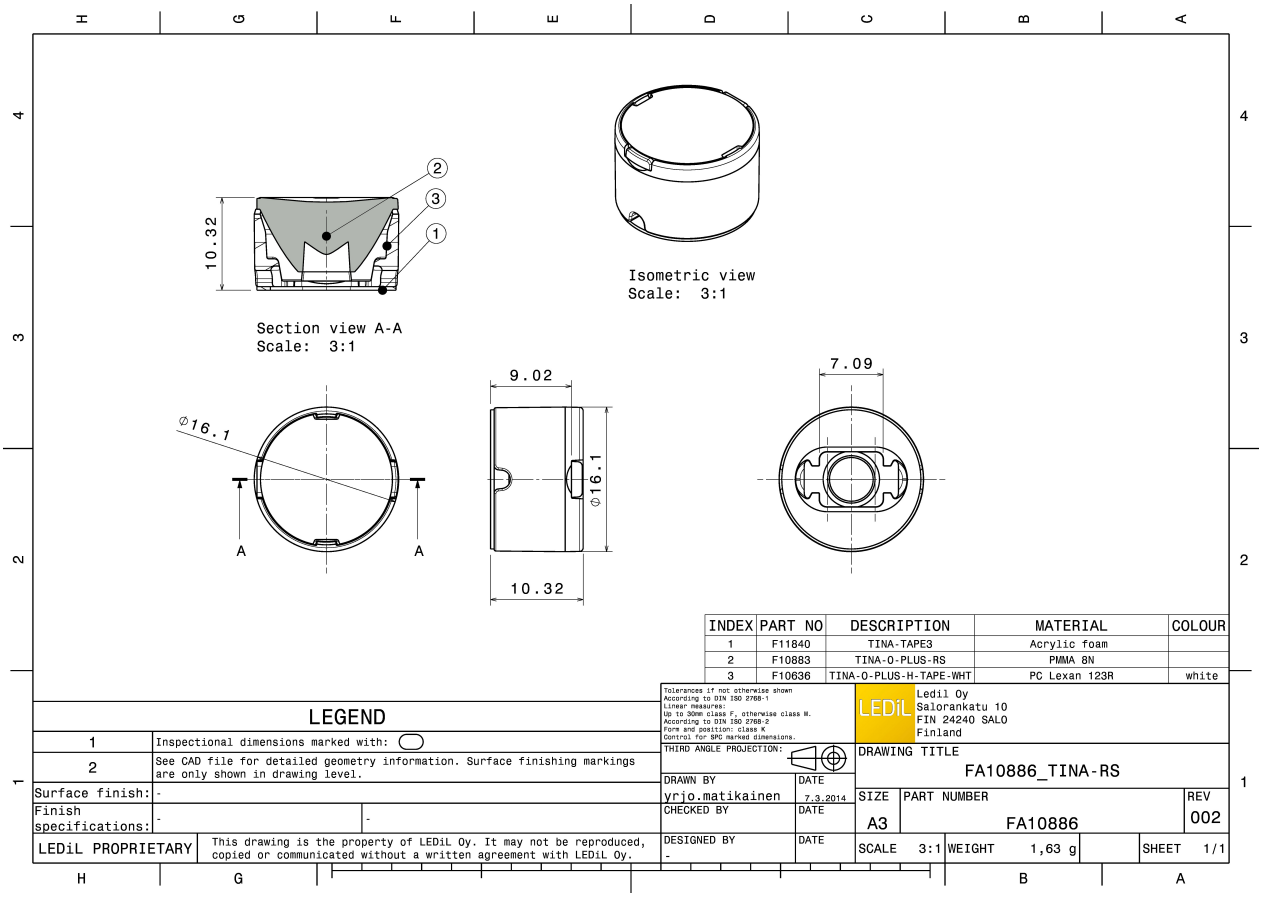
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA-O-PLUS-RS	Single lens	PMMA	clear	
TINA-O-PLUS-H-TAPE-WHT	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA10886_TINA-RS	Single lens	2016	288	144	4.1
» Box size:					

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INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F11840	TINA-TAPE3	Acrylic foam	
2	F10883	TINA-O-PLUS-RS	PMMA 8N	
3	F10636	TINA-O-PLUS-H-TAPE-WHT	PC Lexan 123R	white

LEGEND	
1	Inspectional dimensions marked with: ⬭
2	See CAD file for detailed geometry information. Surface finishing markings are only shown in drawing level.
Surface finish:	-
Finish specifications:	- -

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Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class F, otherwise class M.
According to DIN ISO 2768-2
Form and position: class K
Control for SPC marked dimensions.

THIRD ANGLE PROJECTION:

DRAWN BY	yrjo.matikainen	DATE 7.3.2014
CHECKED BY		DATE
DESIGNED BY	-	DATE

LEDiL
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
FA10886_TINA-RS

SIZE	PART NUMBER	REV
A3	FA10886	002

SCALE 3:1 | WEIGHT 1,63 g | SHEET 1/1

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

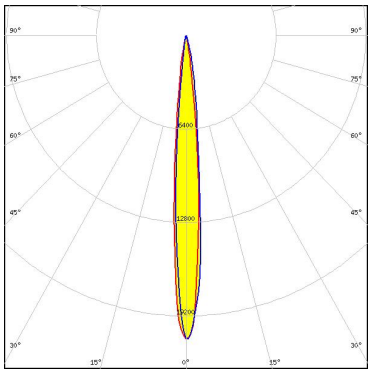
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Golden Dragon+
FWHM / FWTM	10.0° / 19.0°
Efficiency	93 %
Peak intensity	20.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



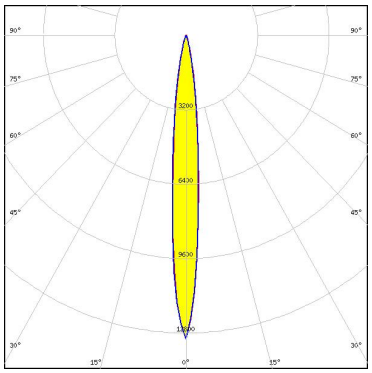


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PHOTOMETRIC DATA (SIMULATED):

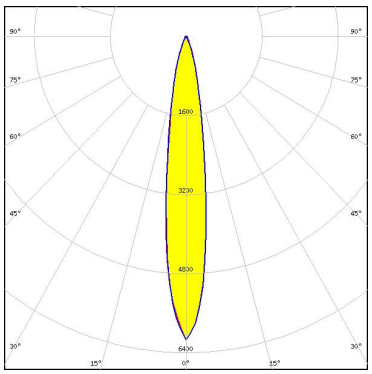
CREE LED

LED	XP-E2
FWHM / FWTM	10.0° / 25.0°
Efficiency	88 %
Peak intensity	13.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



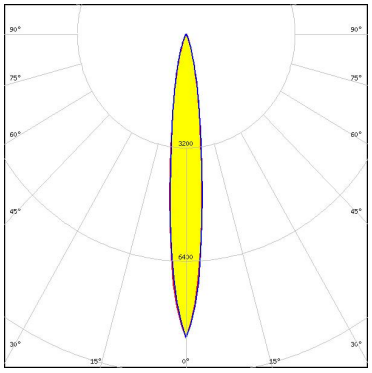
CREE LED

LED	XP-G3
FWHM / FWTM	16.0° / 36.0°
Efficiency	85 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



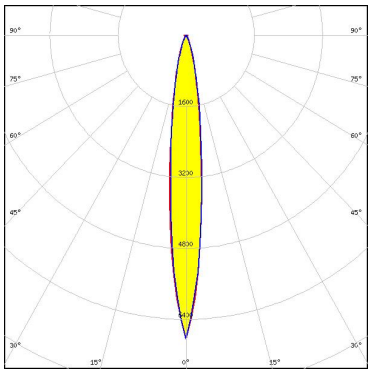
CREE LED

LED	XP-L HI
FWHM / FWTM	12.0° / 32.0°
Efficiency	89 %
Peak intensity	8.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XT-E
FWHM / FWTM	12.0° / 32.0°
Efficiency	81 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

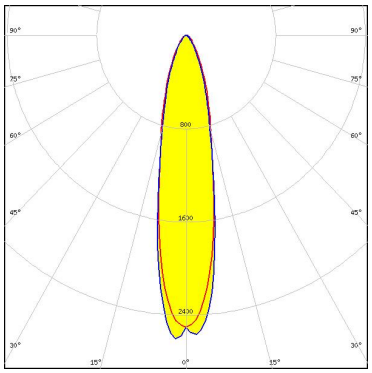


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PHOTOMETRIC DATA (SIMULATED):

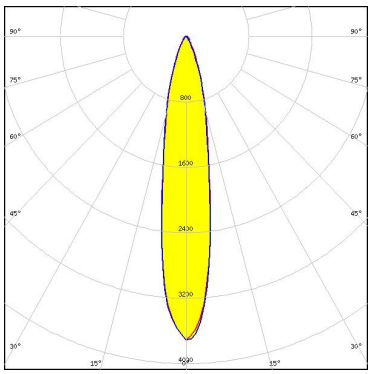
LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	22.0° / 56.0°
Efficiency	84 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



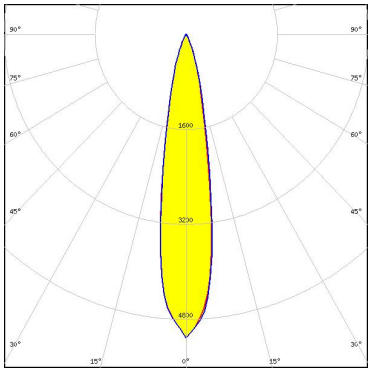
NICHIA

LED	NV4WB35AM
FWHM / FWTM	18.0° / 46.0°
Efficiency	85 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



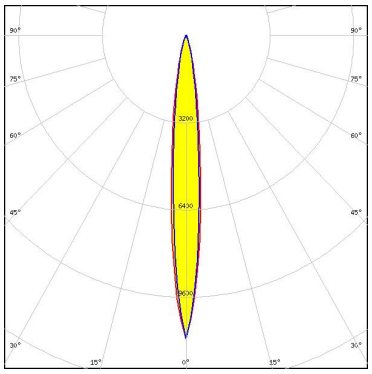
NICHIA

LED	NVSW519A
FWHM / FWTM	19.0° / 40.0°
Efficiency	85 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	KW CULPM1.TG
FWHM / FWTM	11.0° / 27.0°
Efficiency	88 %
Peak intensity	11.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

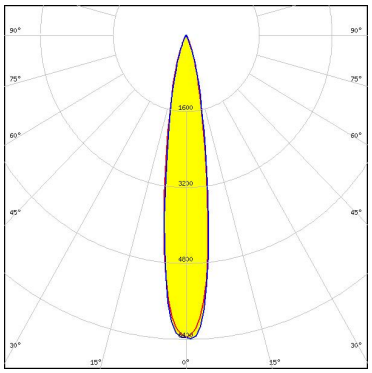


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PHOTOMETRIC DATA (SIMULATED):

SAMSUNG

LED	LH351C
FWHM / FWTM	16.0° / 37.0°
Efficiency	91 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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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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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

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
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