TINA-M

~30° medium beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

SPECIFICATION:

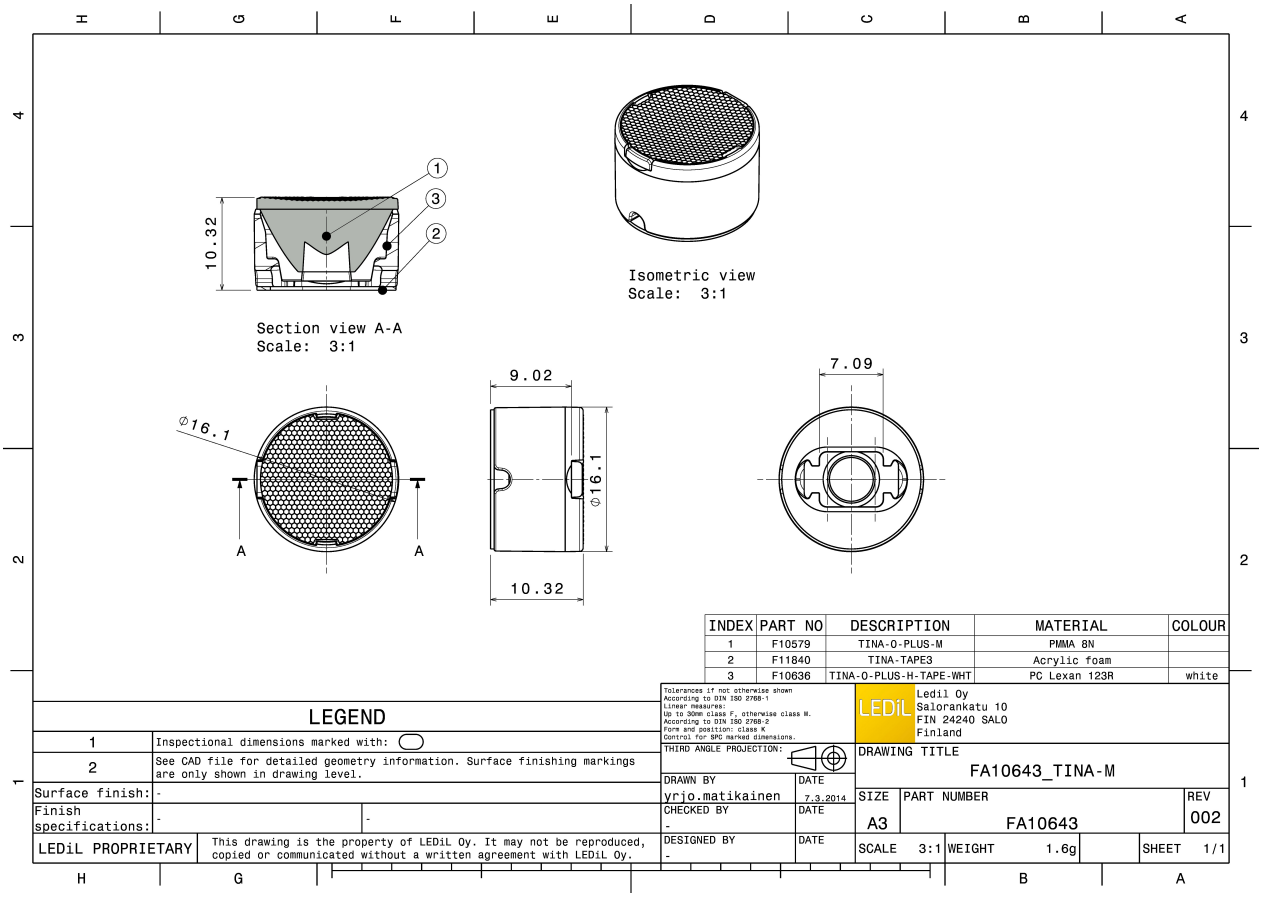
Dimensions	Ø 16.1 mm
Height	10.1 mm
Fastening	tape
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish
TINA-O-PLUS-M	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)
FA10643_TINA-M	Single lens	2016	288	144	4.0
» Box size:					



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F10579	TINA-O-PLUS-M	PMMA 8N	
2	F11840	TINA-TAPE3	Acrylic foam	
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:	- -

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: FA10643_TINA-M

SIZE	PART NUMBER	REV
A3	FA10643	002

SCALE 3:1 | WEIGHT 1.6g | SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

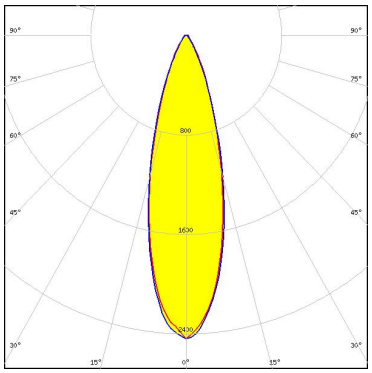
LED	Golden Dragon+
FWHM / FWTM	30.0° / 58.0°
Efficiency	92 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

OPTICAL RESULTS (SIMULATED):

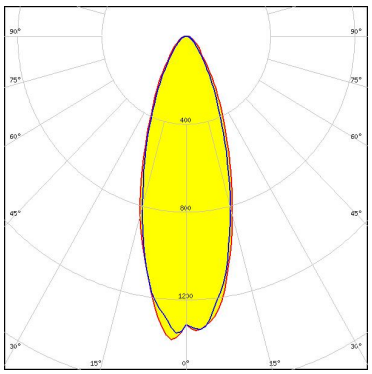
CREE LEDs

LED	XP-L HI
FWHM / FWTM	29.0° / 58.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



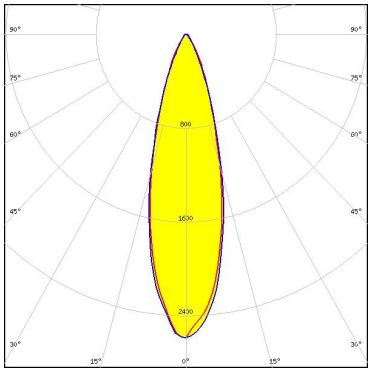
LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	35.0° / 76.0°
Efficiency	82 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



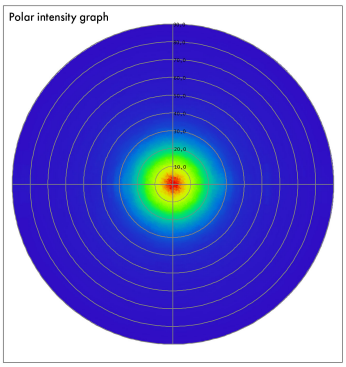
OSRAM Opto Semiconductors

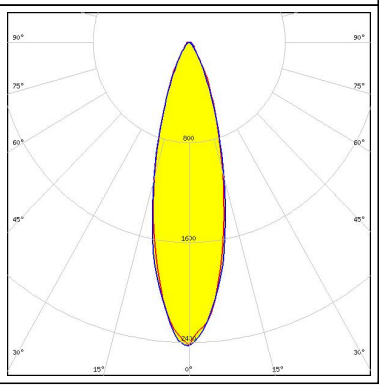
LED	OSLON Boost HX (KW CULPM1.TG)
FWHM / FWTM	28.0° / 57.0°
Efficiency	87 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM Opto Semiconductors

LED	SFH 4715AS
FWHM / FWTM	28.0° / 58.0°
Efficiency	87 %
Peak intensity	
LEDs/each optic	1
Light colour	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.

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