

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 ⓘ

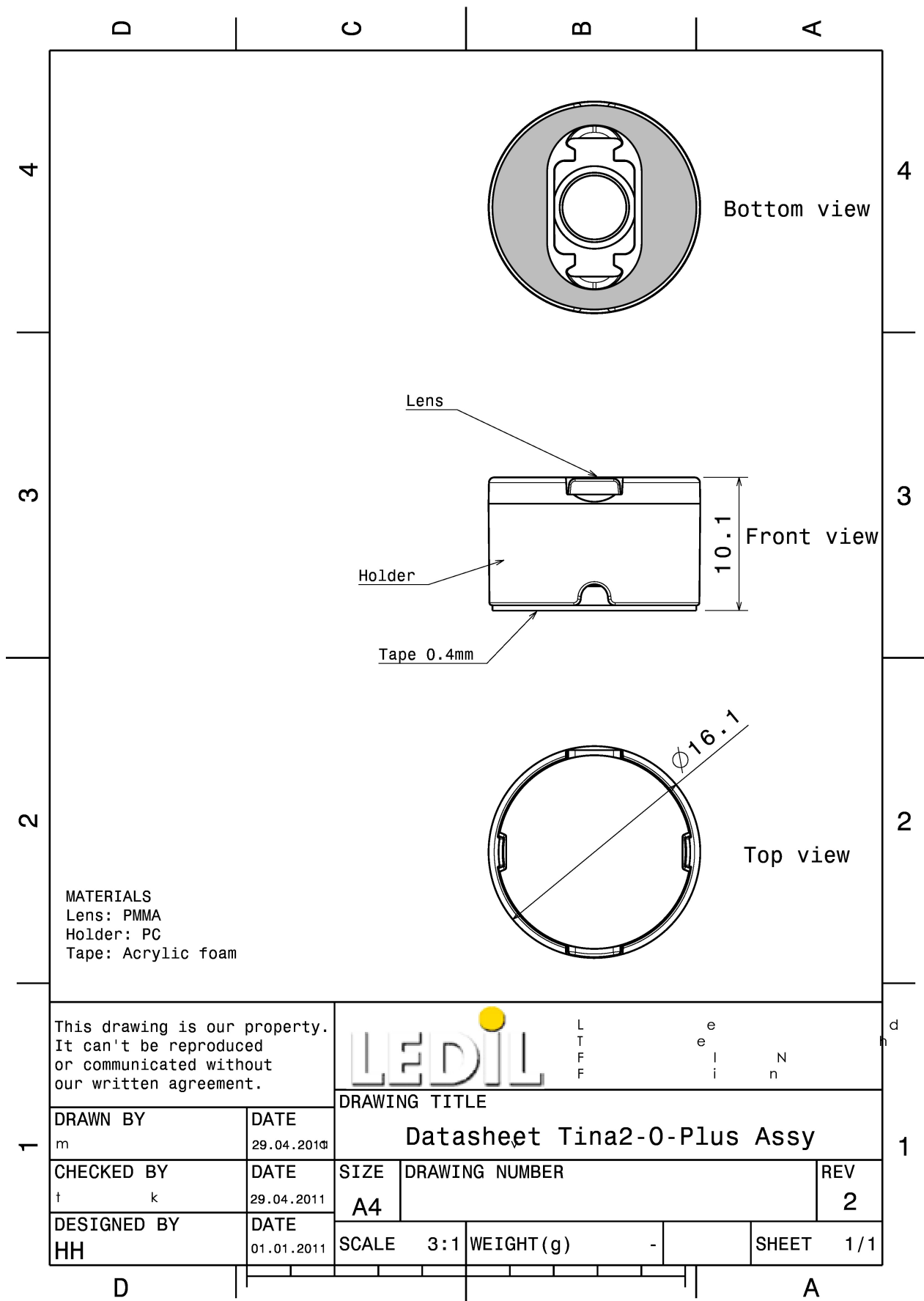


MATERIALS:

Component	Type	Material	Colour	Finish
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	Single lens	4140	230	230	0.0
» Box size: 451 x 241 x 298 mm					



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

OPTICAL RESULTS (MEASURED):

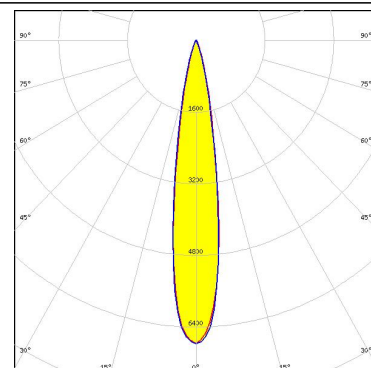
OSRAM Opto Semiconductors

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

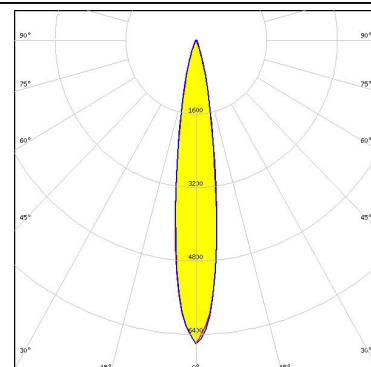
OPTICAL RESULTS (SIMULATED):



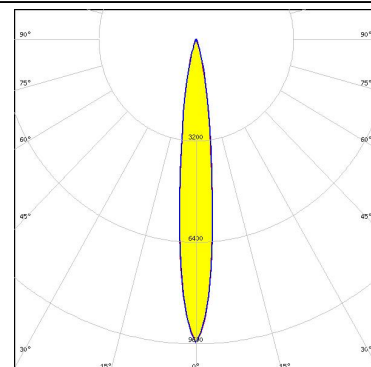
LED XP-G2 HE
FWHM / FWTM 17.0° / 34.0°
Efficiency 88 %
Peak intensity 6.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



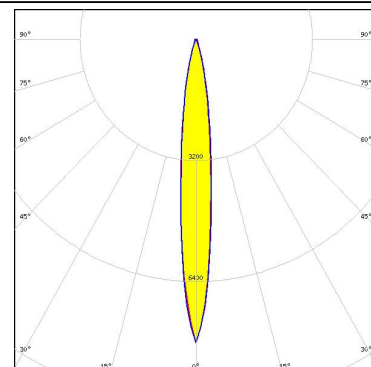
LED XP-G3
FWHM / FWTM 16.0° / 34.0°
Efficiency 85 %
Peak intensity 6.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



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



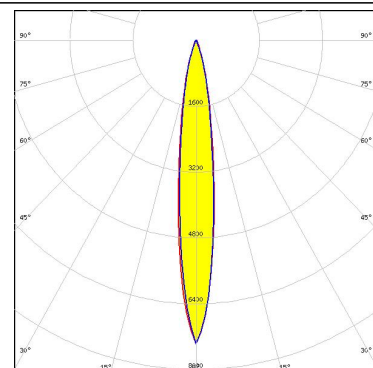
LED XT-E
FWHM / FWTM 12.0° / 30.0°
Efficiency 82 %
Peak intensity 8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

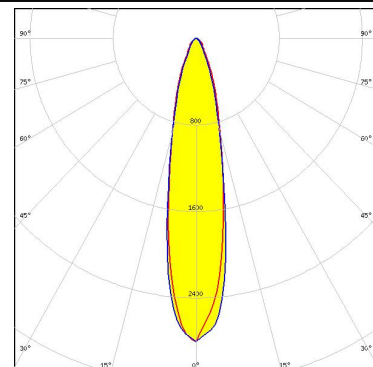
LUMILEDS

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 White
Required components:



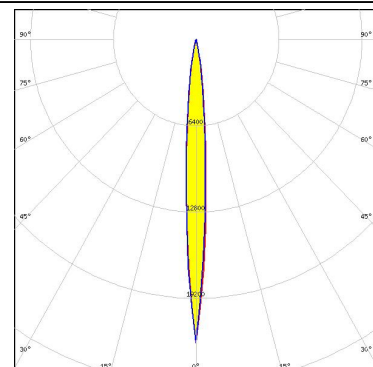
LUMILEDS

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 White
Required components:



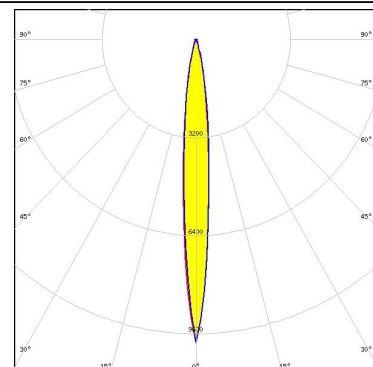
LUMILEDS

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



LUMILEDS

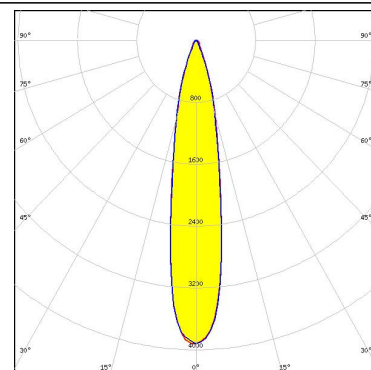
LED LUXEON IR Domed 150 (L110-0xxx150000000)
FWHM / FWTM 10.0° / 27.0°
Efficiency 81 %
LEDs/each optic 1
Light colour IR
Required components:



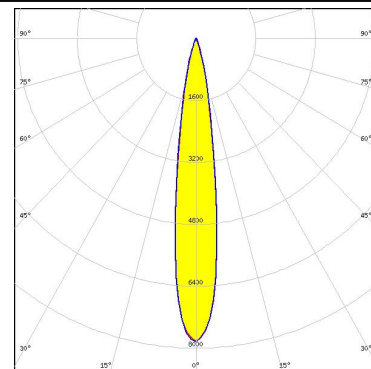
OPTICAL RESULTS (SIMULATED):



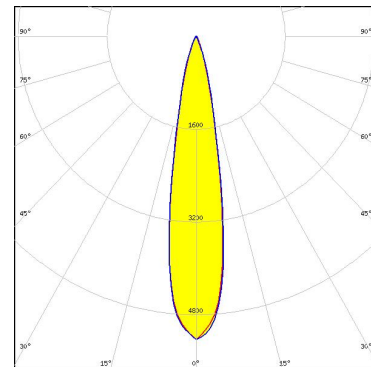
LED NV4WB35AM
FWHM / FWTM 20.0° / 44.0°
Efficiency 86 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



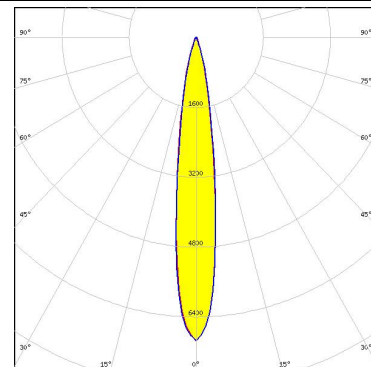
LED NVSW219F
FWHM / FWTM 16.0° / 32.0°
Efficiency 89 %
Peak intensity 7.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



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

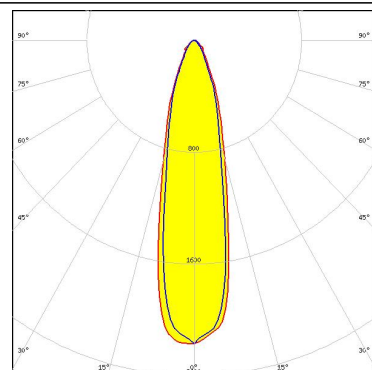


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

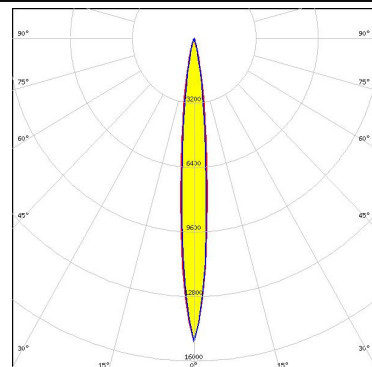
LED Duris S8
FWHM / FWTM 25.0° / 59.0°
Efficiency 85 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

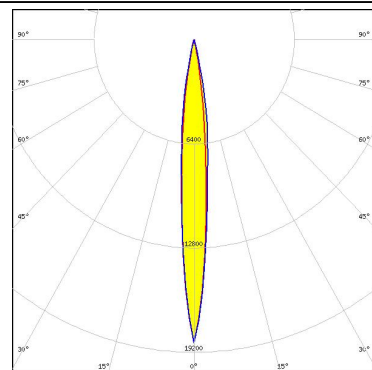
LED OSLO Boost HX (KW CULPM1.TG)
FWHM / FWTM 10.0° / 24.0°
Efficiency 89 %
Peak intensity 15.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

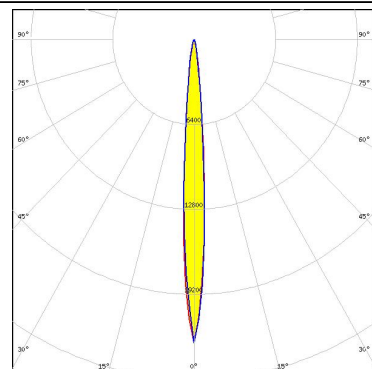
LED PLPVEC2 850A
FWHM / FWTM 10.0° / 23.0°
Efficiency 93 %
LEDs/each optic 1
Light colour IR
Required components:



OSRAM

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

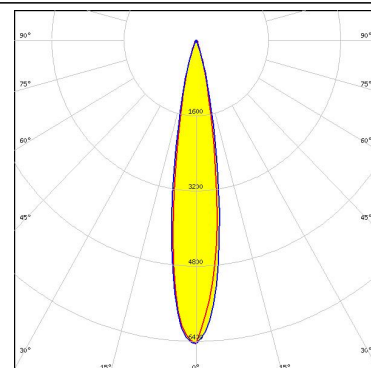
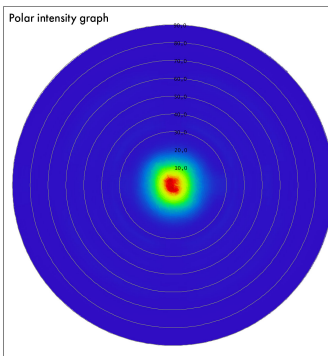


OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

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

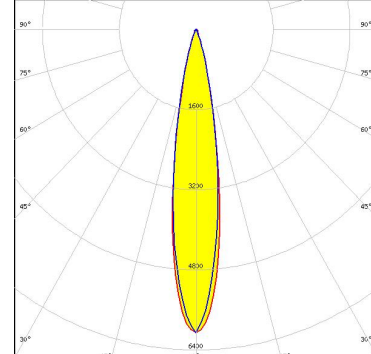
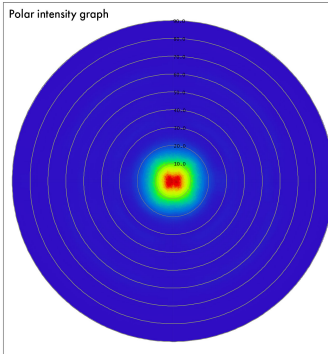
Polar intensity graph



OSRAM
Opto Semiconductors

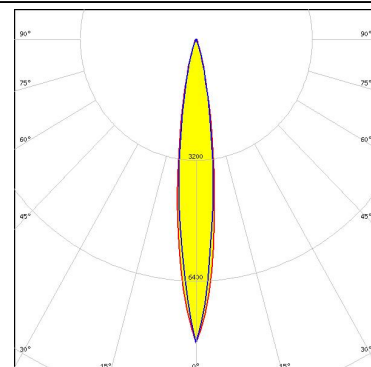
LED SFH 4725AS
FWHM / FWTM 18.0° / 34.0°
Efficiency 88 %
LEDs/each optic 1
Light colour IR
Required components:

Polar intensity graph



OSRAM
Opto Semiconductors

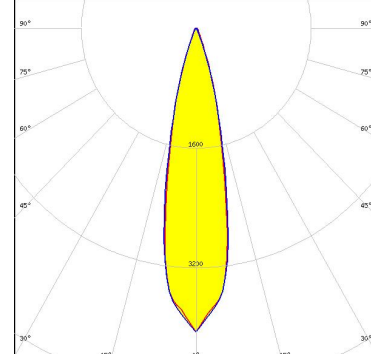
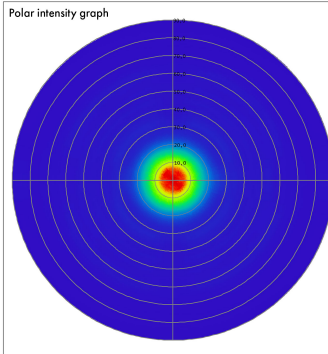
LED SFH 4725S
FWHM / FWTM 14.0° / 32.0°
Efficiency 88 %
LEDs/each optic 1
Light colour IR
Required components:



OSRAM
Opto Semiconductors

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

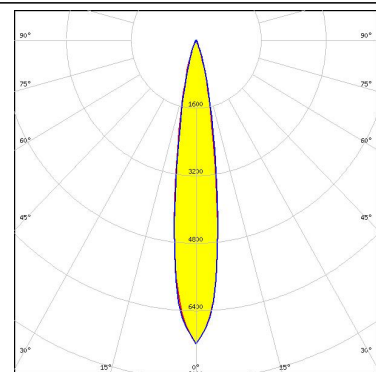
Polar intensity graph



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	White
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:

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