HB-SQ-WWW

~90° beam. Assembly with installation tape.

SPECIFICATION:

Dimensions	25.0 x 25.0 mm
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish	Length
HB-SQ-WWW	Single lens	PMMA	clear		25.0
ROSE-TAPE	Tape	Acrylic foam	black		21.6

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA16372_HB-SQ-WWW	2058	294	98	8.9

» Box size: 480 x 280 x 300 mm

21.52
10.76
φ2
φ2
adhesive colored area

9.96 1.1
A

(11.06)

0.15
adhesive compression distance

Detail A
Scale: 4:1

Exploded view

25
φ3.2
φ3.2
25
25.4

COMPONENTS

CA16372_HB-SQ-WWW

INDEX	PART	TYPE	MATERIAL	COLOR / COATING
1	C16371_HB-SQ-WWW	lens	PMMA	clear
2	C16393_ROSE-TAPE	tape	Acrylic foam	adhesive

MECHANICAL DRAWING

PRODUCT
HB

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures: Up to 30mm
class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

FIRST ANGLE PROJECTION:

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| SCALE | 2:1 | WEIGHT | - | A3 | SHEET 1/1 |

Notes

🔴	1	PCB or heatsink level.
🟢	2	LED location.
	3	Ensure LED fitting from a product specific 3D model available from www.ledil.com.

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP70
FWHM / FWTM	88.0° / 122.0°
Efficiency	91 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
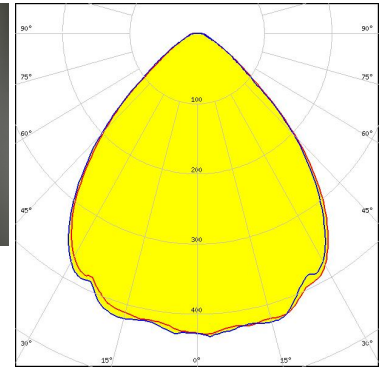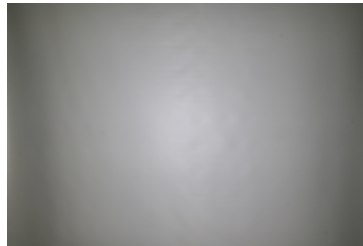
Light distribution files

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	80.0° / 110.0°
Efficiency	93 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
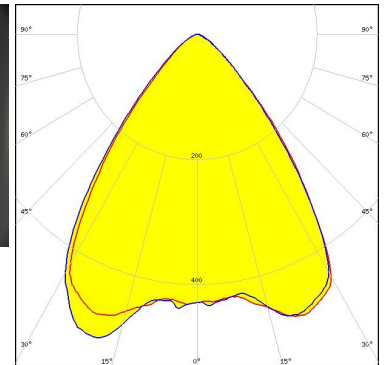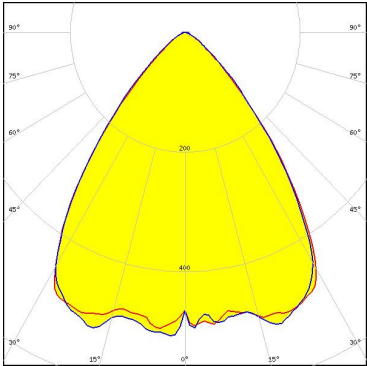
Light distribution files

OPTICAL RESULTS (SIMULATED):
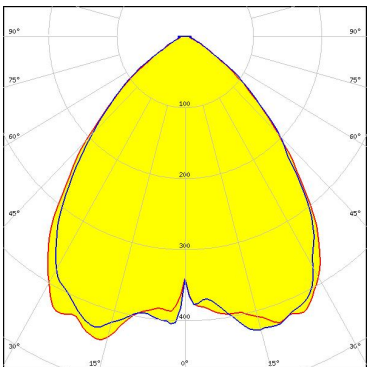
LED	Bridgelux SMD 5050
FWHM / FWTM	77.0° / 108.0°
Efficiency	93 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LED	MHD-E/G
FWHM / FWTM	85.5° / 120.0°
Efficiency	91 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LED	XHP50.2
FWHM / FWTM	86.0° / 120.0°
Efficiency	93 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OPTICAL RESULTS (SIMULATED):

CREE LEDs	
LED	XHP70
FWHM / FWTM	83.0° / 115.0 + 114.0°
Efficiency	89 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
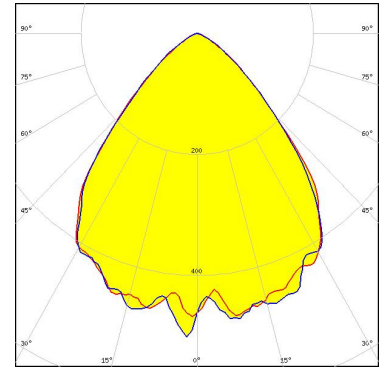
Light distribution files

CREE LEDs	
LED	XHP70.2
FWHM / FWTM	85.0° / 119.0 + 120.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
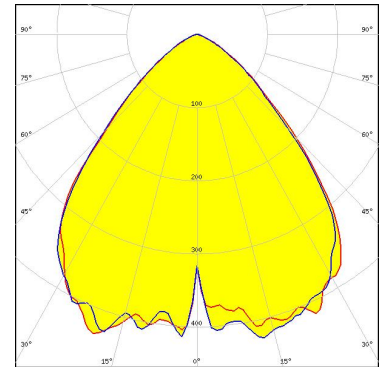
Light distribution files

LUMILEDS	
LED	LUXEON 7070
FWHM / FWTM	74.0° / 108.0°
Efficiency	92 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS
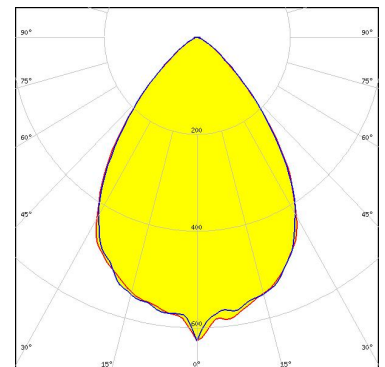
LED	LUXEON 7070
FWHM / FWTM	75.0° / 108.0°
Efficiency	83 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

Light distribution files

LUMILEDS
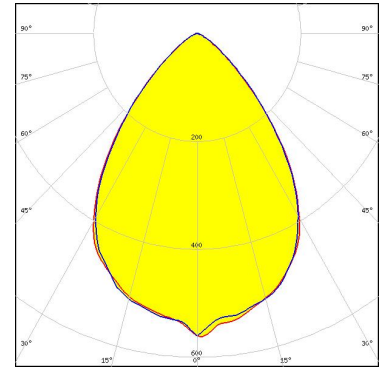
LED	LUXEON M/MX
FWHM / FWTM	88.0° / 121.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

Light distribution files

LUMILEDS
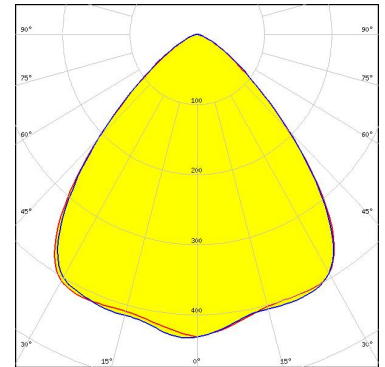
LED	LUXEON M/MX
FWHM / FWTM	80.0° / 109.0°
Efficiency	90 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS
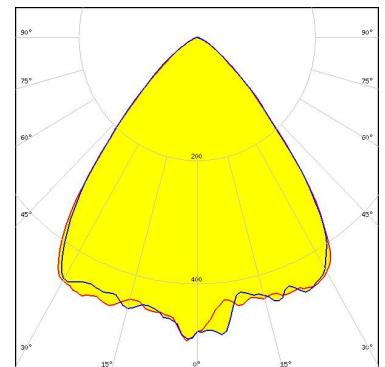
LED	LUXEON MZ
FWHM / FWTM	77.0° / 107.0°
Efficiency	94 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
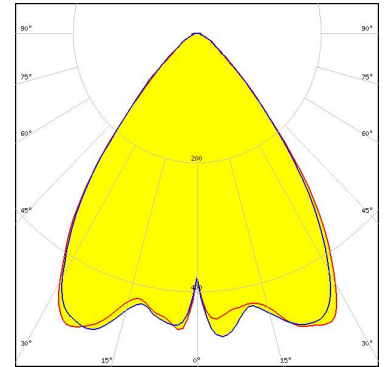
Light distribution files

LUMILEDS

LED	LUXEON V
FWHM / FWTM	81.0° / 111.0°
Efficiency	92 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

NICHIA
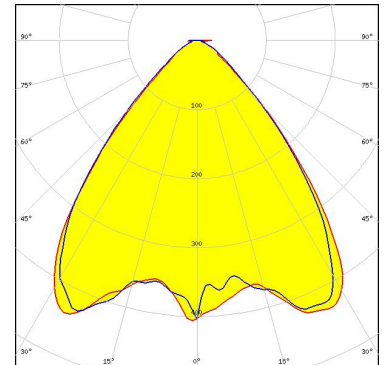
LED	NV4x144A
FWHM / FWTM	86.0° / 121.0°
Efficiency	90 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
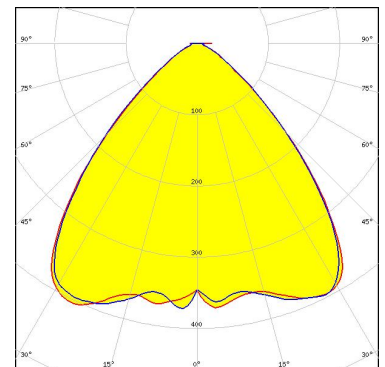
Light distribution files

OPTICAL RESULTS (SIMULATED):
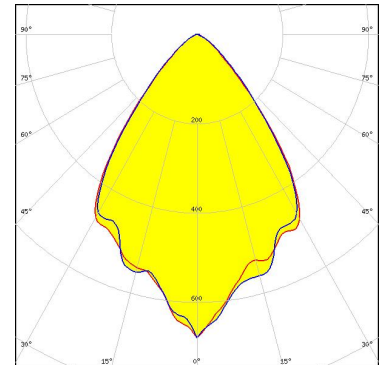
OSRAM Opto Semiconductors

LED	Duris S10
FWHM / FWTM	74.0° / 107.0°
Efficiency	95 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
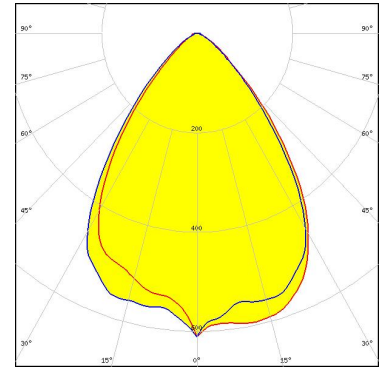
Light distribution files

OSRAM Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	74.0 + 73.0° / 104.0 + 105.0°
Efficiency	94 %
Peak intensity	0.7 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	

Light distribution files

OSRAM Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	75.0° / 105.0 + 103.0°
Efficiency	91 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
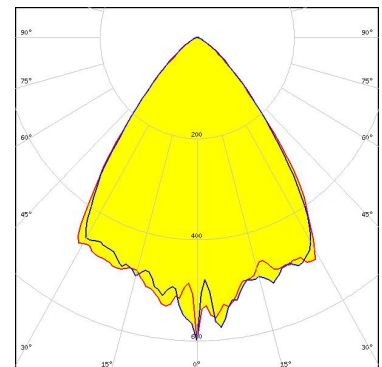
Light distribution files

OPTICAL RESULTS (SIMULATED):
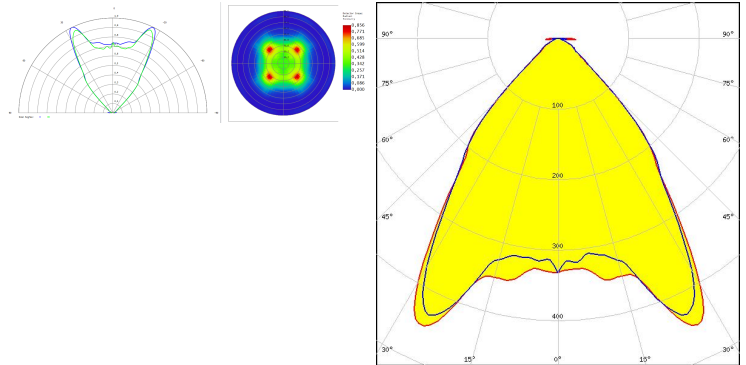
OSRAM
Opto Semiconductors

LED	SFH 4715AS
FWHM / FWTM	65.0° / 93.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	IR
Required components:	
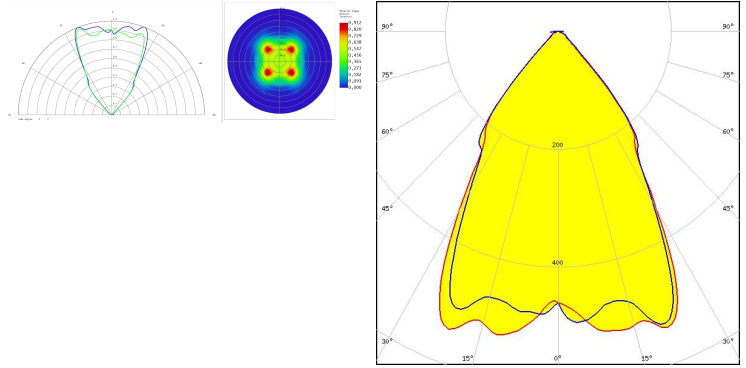
Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4716AS
FWHM / FWTM	76.0° / 100.0°
Efficiency	93 %
LEDs/each optic	1
Light colour/type	IR
Required components:	

Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4716S
FWHM / FWTM	75.0° / 101.0°
Efficiency	93 %
LEDs/each optic	1
Light colour/type	IR
Required components:	
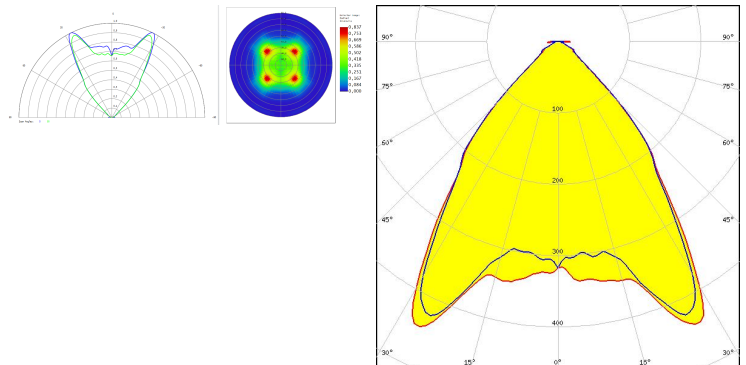
Light distribution files

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:

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