

SAGA-HB-IP-WHT

~60° high bay beam

SPECIFICATION:

Dimensions	Ø 50.0
Height	12 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
SAGA-HB-IP	Single lens	Silicone	clear		
SAGA-FRAME-WHT	Holder	HRPC	white		

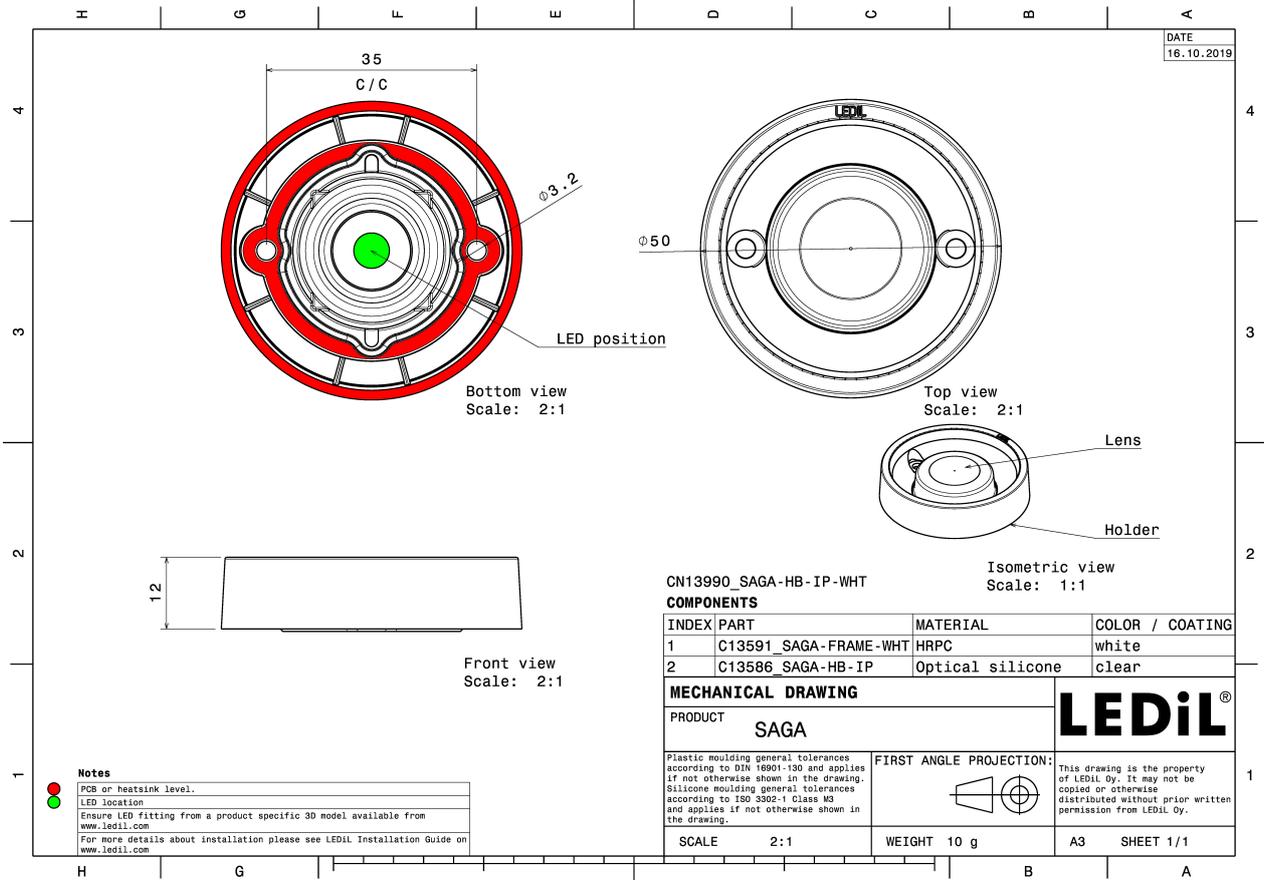


ORDERING INFORMATION:

Quantities for one set:

Single lens	1
Holder	1

Component		Qty in box	MOQ	MPQ	Box weight (kg)
C13586_SAGA-HB-IP	Single lens	650	52	26	4.7
» Box size: 480 x 280 x 300 mm					
C13591_SAGA-FRAME-WHT	Holder	900	52	26	6.5
» Box size: 480 x 280 x 300 mm					

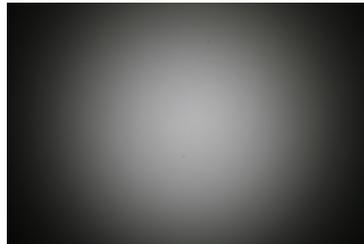


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



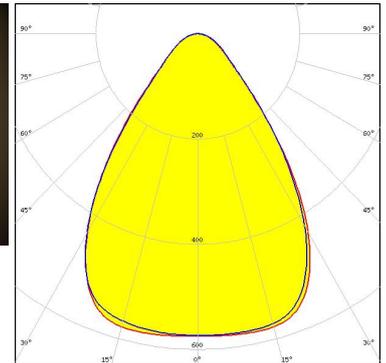
LED V10 Gen6
FWHM / FWTM 58.0° / 106.0°
Efficiency 89 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



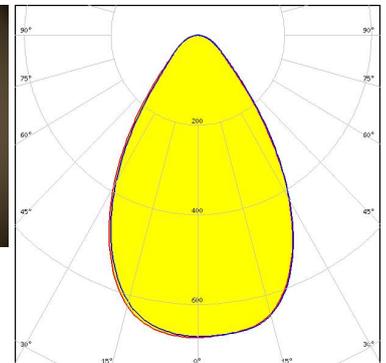
LED V6 Gen6
FWHM / FWTM 73.0° / 115.0°
Efficiency 88 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED V8 Gen6
FWHM / FWTM 66.0° / 109.0°
Efficiency 88 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

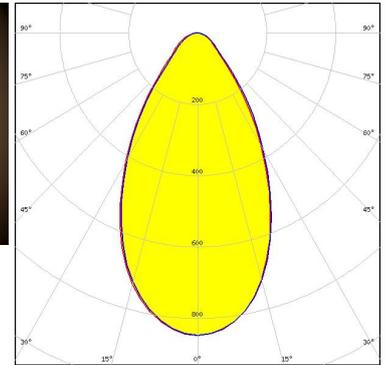


Light distribution files

OPTICAL RESULTS (MEASURED):



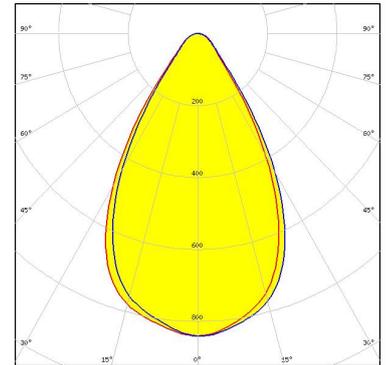
LED VERO10
FWHM / FWTM 58.0° / 101.0°
Efficiency 92 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

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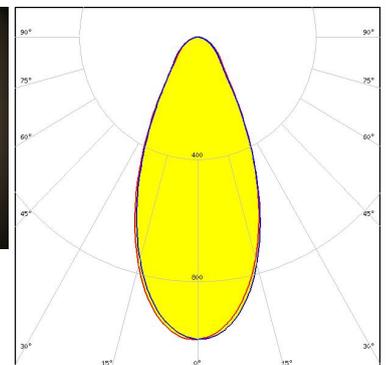
LED CLL01x
FWHM / FWTM 61.0° / 93.0°
Efficiency 92 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

LED CLU02x (LES10)
FWHM / FWTM 47.0° / 95.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 Bender Wirth: 434 Typ L6

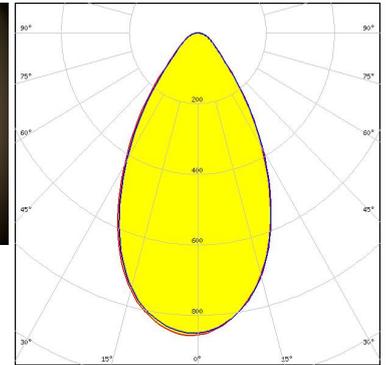


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

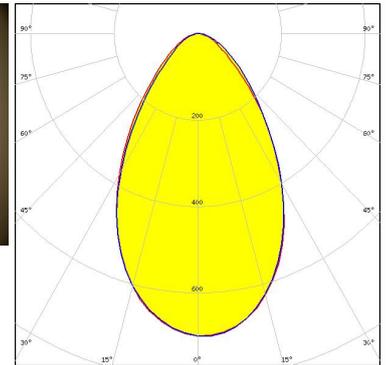
LED CLU02x (LES10)
 FWHM / FWTM 58.0° / 98.0°
 Efficiency 91 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

CITIZEN

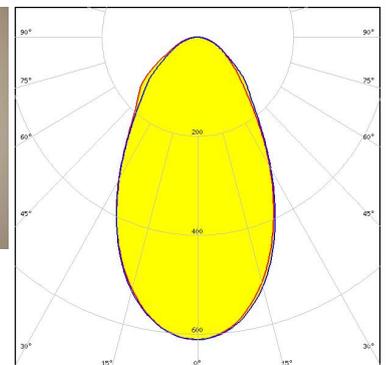
LED CLU03x
 FWHM / FWTM 64.0° / 116.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

CITIZEN

LED CLU03x
 FWHM / FWTM 61.0° / 125.0°
 Efficiency 84 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 433 Typ L6

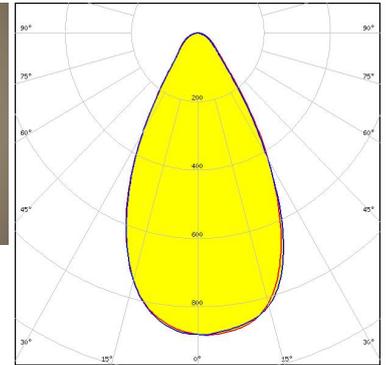


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

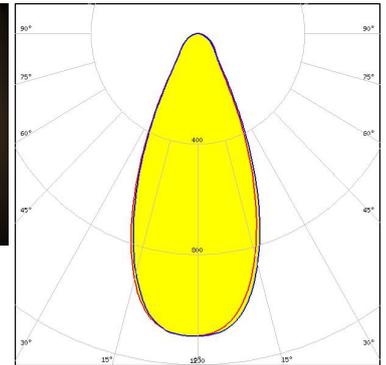
LED CLU700/701/702/703
 FWHM / FWTM 56.0° / 90.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

CITIZEN

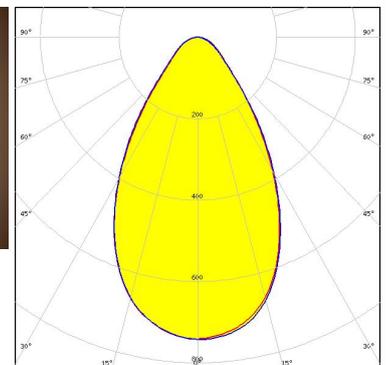
LED CLU700/701/702/703
 FWHM / FWTM 46.0° / 82.0°
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 434 Typ L6



Light distribution files

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LED CLU710/711
 FWHM / FWTM 62.0° / 107.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

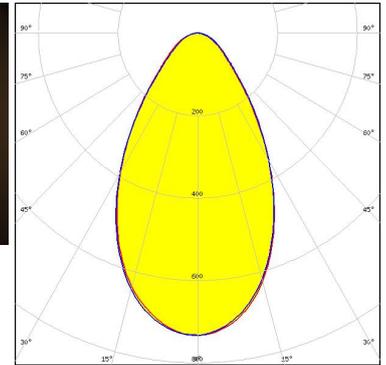


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

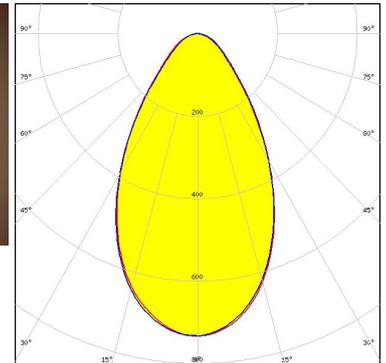
LED CLU720/721/723
 FWHM / FWTM 50.0° / 109.0°
 Efficiency 85 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 Bender Wirth: 433 Typ L6



Light distribution files

CITIZEN

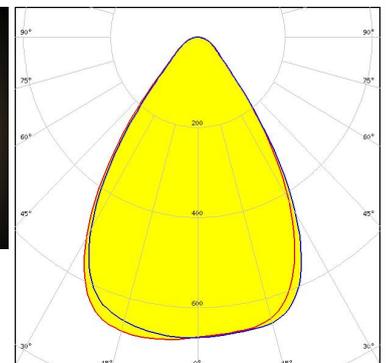
LED CLU720/721/723
 FWHM / FWTM 61.0° / 113.0°
 Efficiency 89 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED CXA/B 13xx
 FWHM / FWTM 70.0° / 104.0°
 Efficiency 92 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

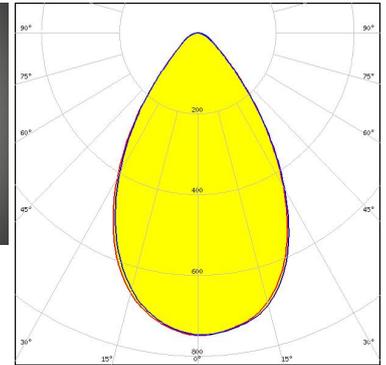
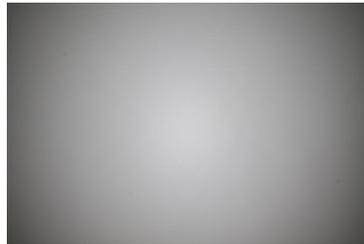


Light distribution files

OPTICAL RESULTS (MEASURED):



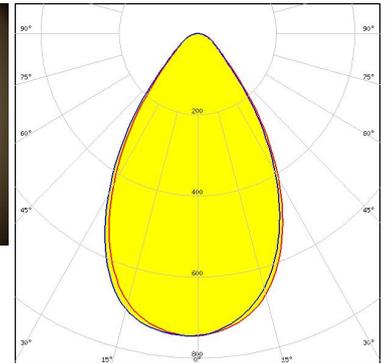
LED CXA/B 15xx
 FWHM / FWTM 64.0° / 102.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



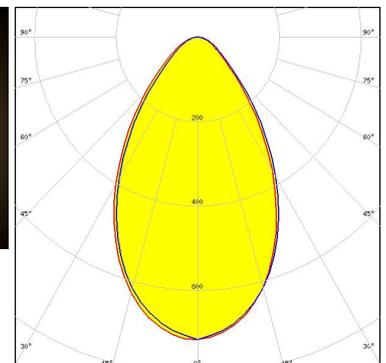
LED CXA/B 15xx
 FWHM / FWTM 64.0° / 104.0°
 Efficiency 92 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 63.0° / 111.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

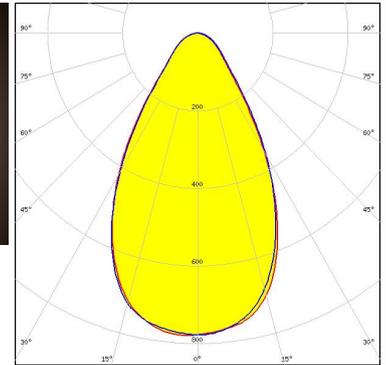


Light distribution files

OPTICAL RESULTS (MEASURED):



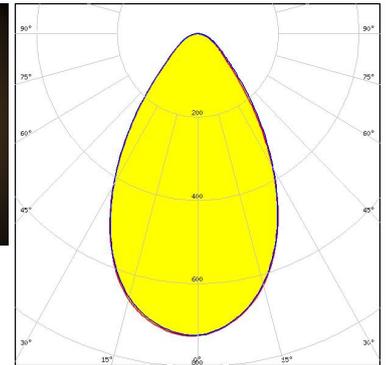
LED MHD-E/G
 FWHM / FWTM 60.0° / 105.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON CoB 1202/1203
 FWHM / FWTM 63.0° / 108.0°
 Efficiency 89 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON CoB 1202s
 FWHM / FWTM 67.0° / 106.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

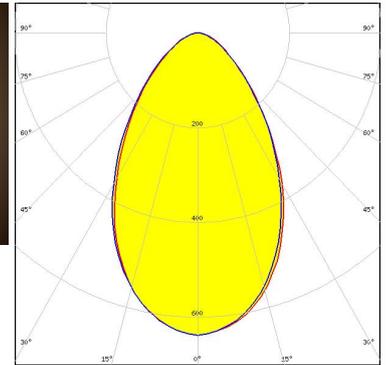


Light distribution files

OPTICAL RESULTS (MEASURED):



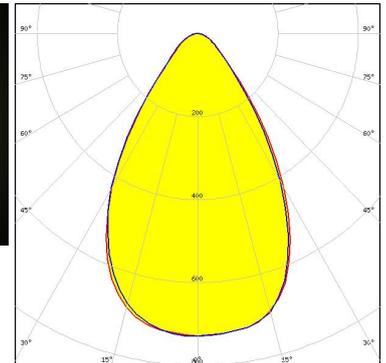
LED CxM-14 (19x19)
 FWHM / FWTM 66.0° / 121.0°
 Efficiency 88 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



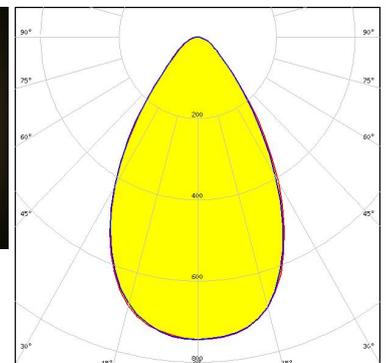
LED CxM-6 (12x13)
 FWHM / FWTM 66.0° / 104.0°
 Efficiency 89 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED CXM-7 (13x13)
 FWHM / FWTM 64.0° / 105.0°
 Efficiency 89 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

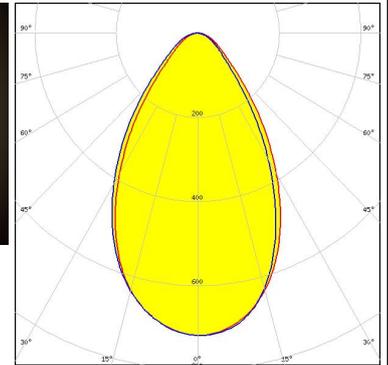


Light distribution files

OPTICAL RESULTS (MEASURED):



LED CxM-9 (13.5x13.5)
FWHM / FWTM 63.0° / 109.0°
Efficiency 88 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



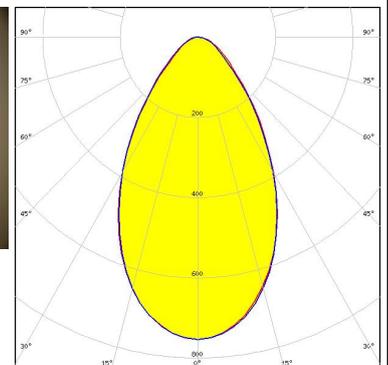
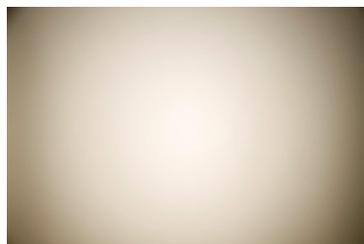
LED Duris S10
FWHM / FWTM 74.0° / 106.0°
Efficiency 91 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

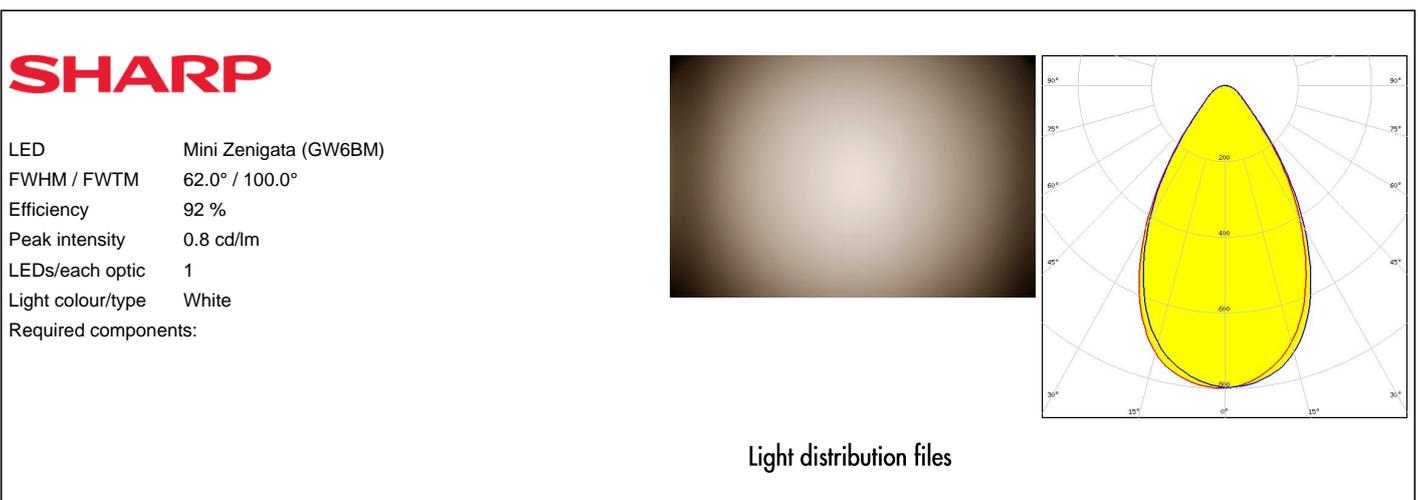


LED Soleriq S13
FWHM / FWTM 61.0° / 110.0°
Efficiency 91 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (SIMULATED):



LED	LUXEON CoB Compact
FWHM / FWTM	67.0° / 106.0°
Efficiency	90 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



LED	CxM-14 (19x19)
FWHM / FWTM	61.0° / 125.0°
Efficiency	84 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 433 Typ L6



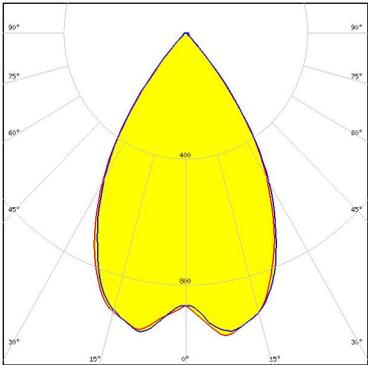
LED	CxM-9 (13.5x13.5)
FWHM / FWTM	47.0° / 95.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 434 Typ L6

OPTICAL RESULTS (SIMULATED):

NICHIA

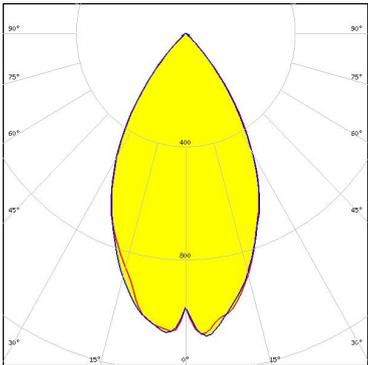
LED	COB S-Type (LES 7)
FWHM / FWTM	64.0° / 84.0°
Efficiency	95 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S9
FWHM / FWTM	56.0° / 87.0°
Efficiency	93 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

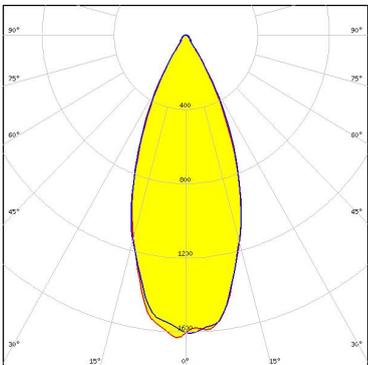


Light distribution files

SAMSUNG

LED	LC020C
FWHM / FWTM	42.0° / 66.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 479 Typ L6

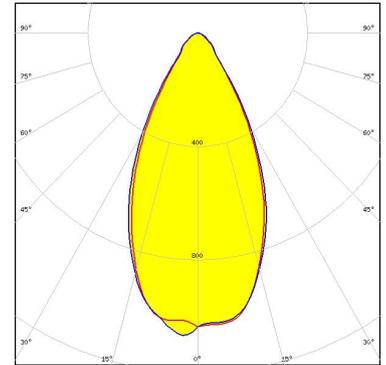


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LC040C
FWHM / FWTM 51.0° / 81.0°
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Bender Wirth: 480 Typ L6

Light distribution files



LED ZC12/18
FWHM / FWTM 61.0° / 125.0°
Efficiency 84 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 433 Typ L6



LED ZC4/6
FWHM / FWTM 47.0° / 95.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Bender Wirth: 434 Typ L6

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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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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