WINNIE-M

~35° medium beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

SPECIFICATION:

Dimensions	Ø 49.8
Height	19.3 mm
Fastening	screw
ROHS compliant	yes

MATERIALS:

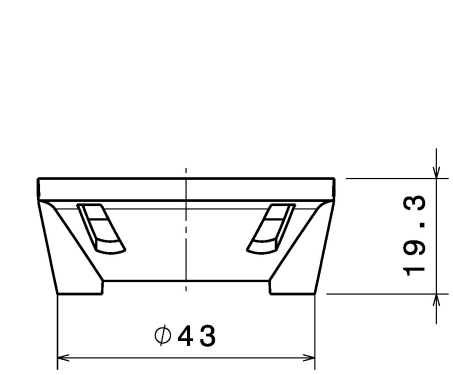
Component	Type	Material	Colour	Finish	Length (mm)
C14233_WINNIE-M	Single lens	PMMA	clear		
C14235_WINNIE-HOLDER	Holder	PC	white		

ORDERING INFORMATION:

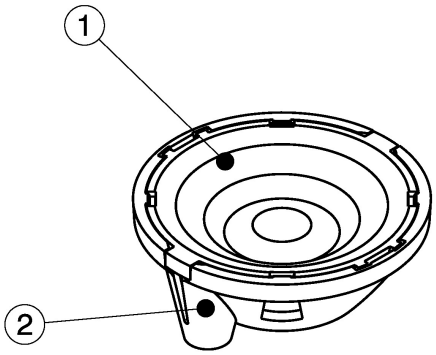
Quantities for one set:

Single lens	1
Holder	1

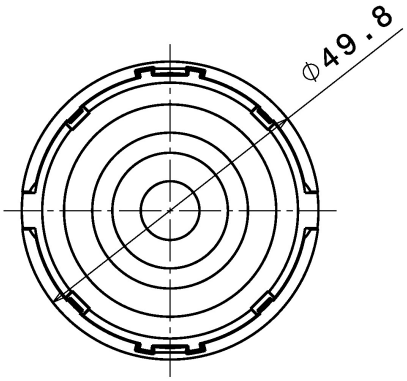
Component		Qty in box	MOQ	MPQ	Box weight (kg)
C14233_WINNIE-M » Box size: 480 x 280 x 300 mm	Single lens	364	84	28	6.5
C14235_WINNIE-HOLDER » Box size: 480 x 280 x 300 mm	Holder	1820	84	28	7.2



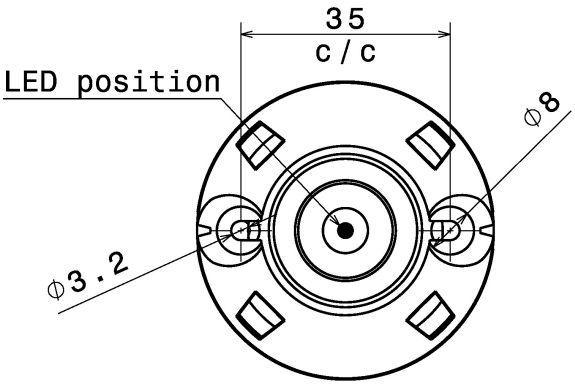
Front view



Isometric view



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14233	WINNIE-M	PMMA	clear
2	C14235	WINNIE-HOLDER	PC	white

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

THIRD ANGLE PROJECTION:

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
CN14237_WINNIE-M

SIZE A4

PART NUMBER
CN14237

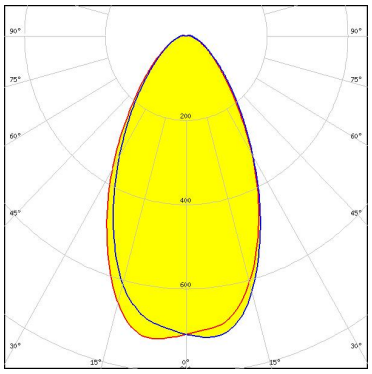
SCALE 1:1 | WEIGHT 17,74 g | SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

bridgelux

LED	V18 Gen6
FWHM / FWTM	58.0° / 113.0°
Efficiency	88 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

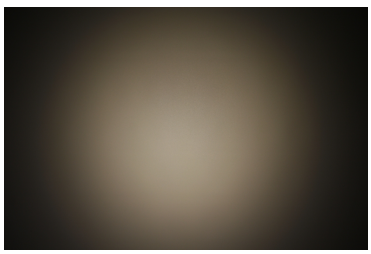
bridgelux

LED	V6 Gen6
FWHM / FWTM	27.0° / 58.0°
Efficiency	86 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

bridgelux

LED	V8 Gen6
FWHM / FWTM	31.0° / 70.0°
Efficiency	85 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

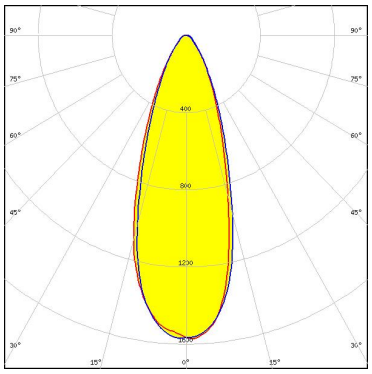


Light distribution files

OPTICAL RESULTS (MEASURED):

bridgelux

LED	VERO10
FWHM / FWTM	36.0° / 74.0°
Efficiency	89 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

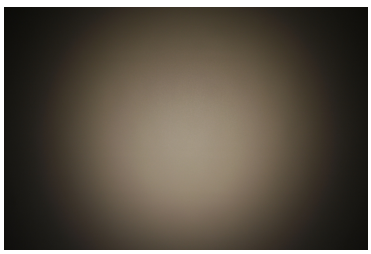
CITIZEN

LED	CLL01x
FWHM / FWTM	27.0° / 60.0°
Efficiency	85 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	35.0° / 72.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

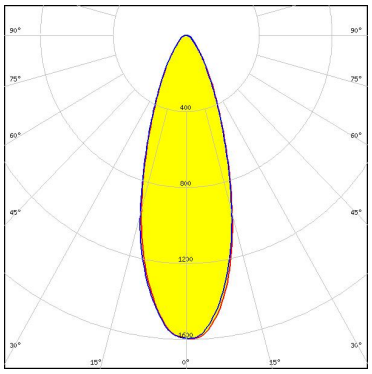


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

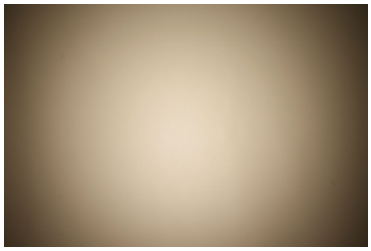
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	35.0° / 72.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 434 Typ L5	

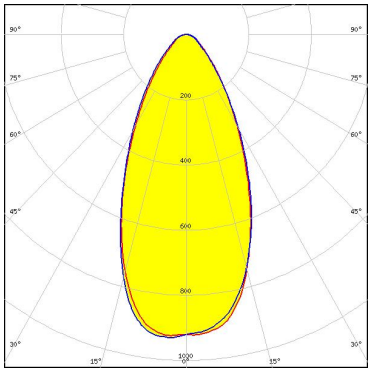


Light distribution files

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	49.0° / 95.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 433 Typ L5	

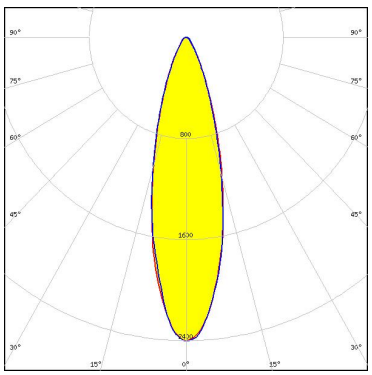




Light distribution files

CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	28.0° / 58.0°
Efficiency	87 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 434 Typ L5	

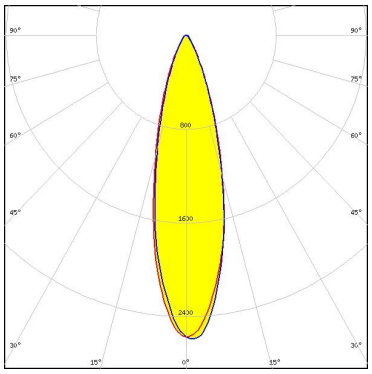


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

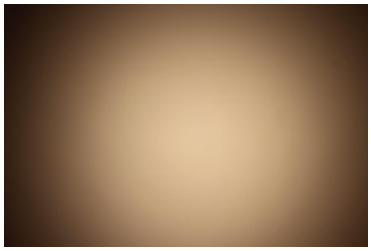
LED	CLU700/701/702/703
FWHM / FWTM	27.0° / 56.0°
Efficiency	89 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

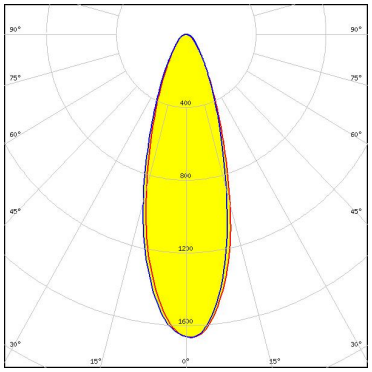


Light distribution files

CITIZEN

LED	CLU710/711
FWHM / FWTM	32.0° / 70.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

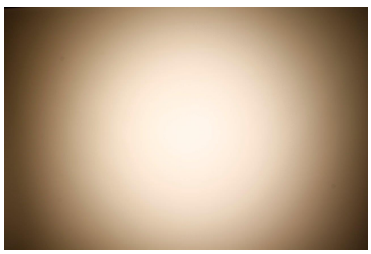


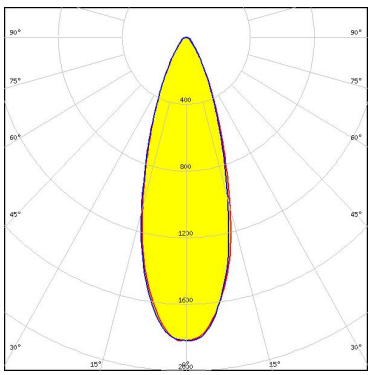


Light distribution files

CITIZEN

LED	CLU710/711
FWHM / FWTM	33.0° / 67.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 470 Typ L5	



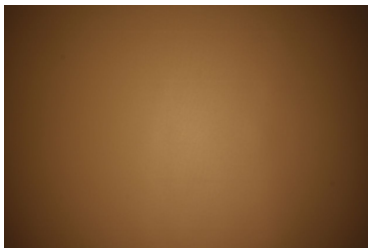


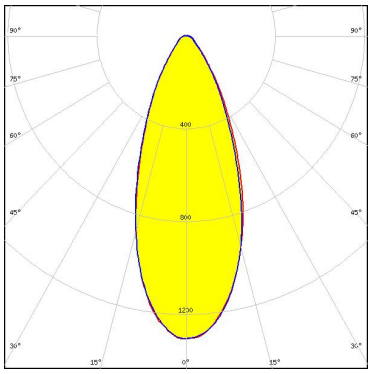
Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	41.0° / 80.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 433 Typ L5	





Light distribution files

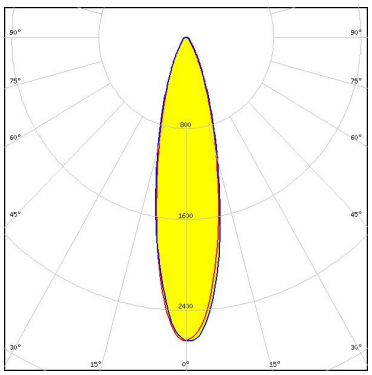
CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	26.0° / 58.0°
Efficiency	87 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	25.0° / 55.0°
Efficiency	88 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

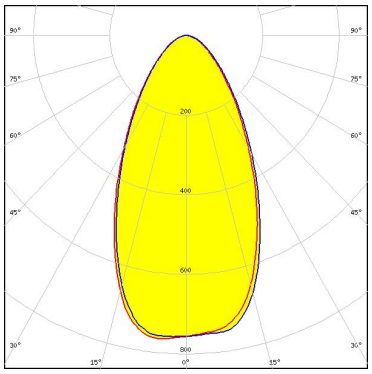


Light distribution files

OPTICAL RESULTS (MEASURED):

CREE LEDs

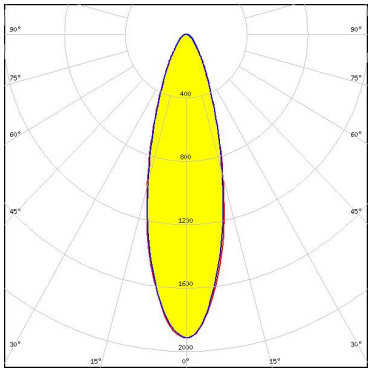
LED	CXA/B 25xx
FWHM / FWTM	55.0° / 109.0°
Efficiency	85 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

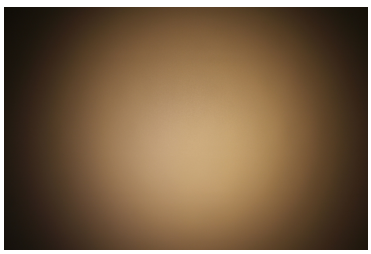
LED	MHD-E/G
FWHM / FWTM	30.0° / 67.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	34.0° / 74.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OPTICAL RESULTS (MEASURED):

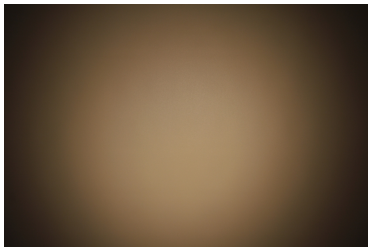
LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	27.0° / 60.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LUMINUS

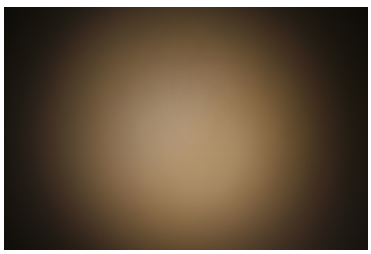
LED	CxM-14 (19x19)
FWHM / FWTM	45.0° / 94.0°
Efficiency	85 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	36.0° / 76.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	24.0° / 58.0°
Efficiency	88 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

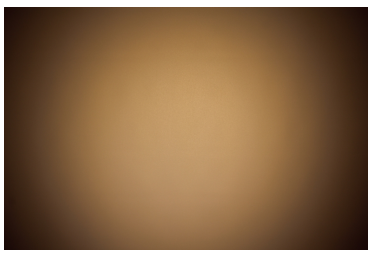
OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	41.0° / 88.0°
Efficiency	85 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	55.0° / 104.0°
Efficiency	83 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

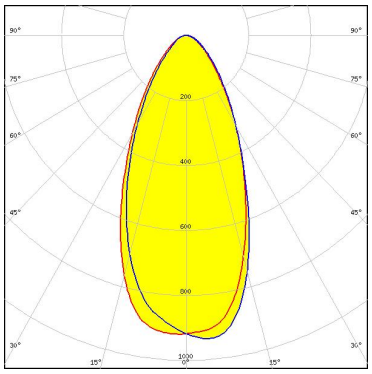


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

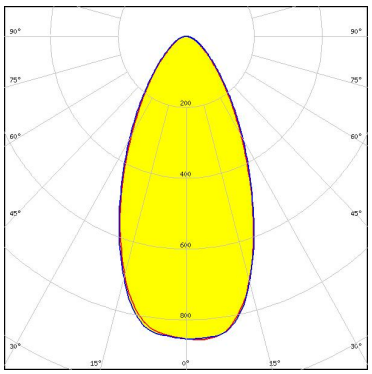
LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	48.0° / 98.0°
Efficiency	85 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

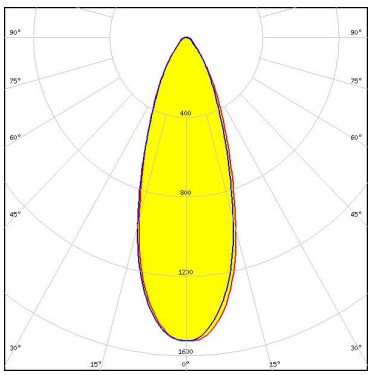
LED	MJT COB LES 14.5
FWHM / FWTM	51.0° / 101.0°
Efficiency	84 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 433 Typ L5	



Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 9.8
FWHM / FWTM	36.0° / 75.0°
Efficiency	89 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 434 Typ L5	

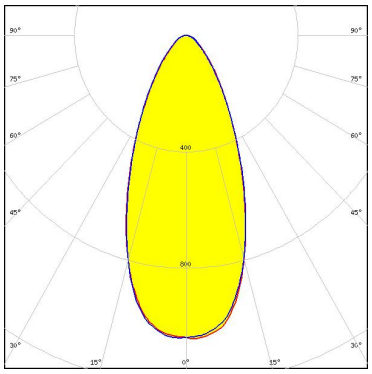


Light distribution files

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

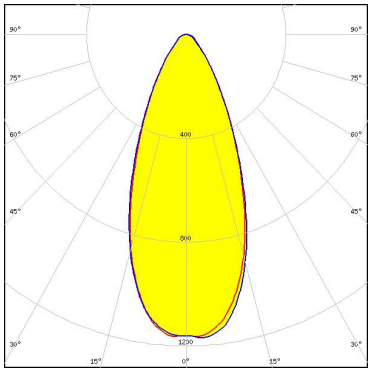
LED	ZC12/18
FWHM / FWTM	46.0° / 91.0°
Efficiency	87 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 433 Typ L5	



Light distribution files

LIGHTING SOLUTIONS

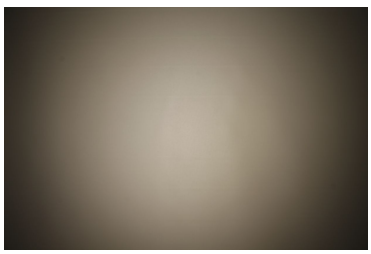
LED	DMC 124 / 125
FWHM / FWTM	44.0° / 84.0°
Efficiency	88 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 433 Typ L5	

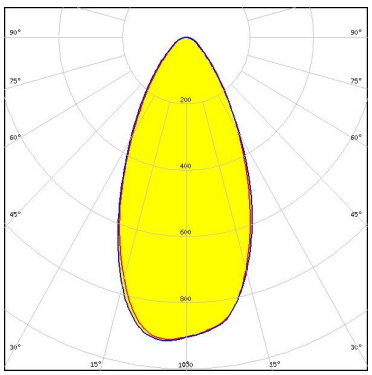


Light distribution files

LIGHTING SOLUTIONS

LED	DMC 128
FWHM / FWTM	50.0° / 96.0°
Efficiency	87 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
Bender Wirth: 433 Typ L5	



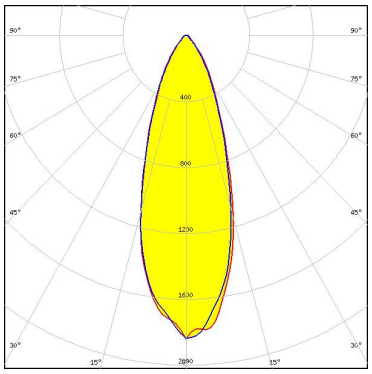


Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

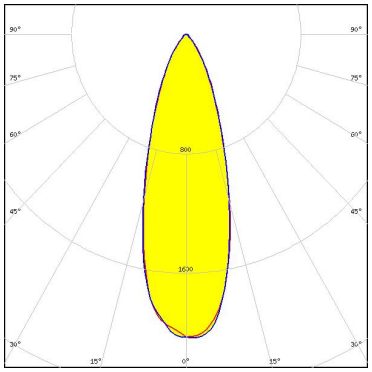
LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	35.0° / 72.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	33.0° / 68.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

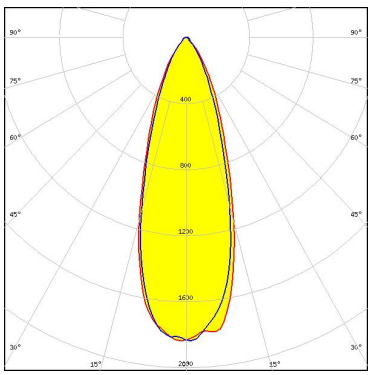


Light distribution files

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	34.0° / 69.0°
Efficiency	89 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 441 Typ L5



Light distribution files

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON CoB Compact
FWHM / FWTM	27.0° / 60.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	49.0° / 95.0°
Efficiency	86 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 433 Typ L5

Light distribution files

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	35.0° / 72.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

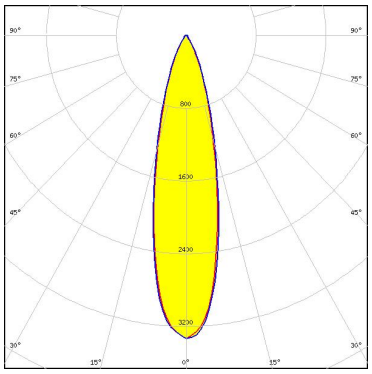
Bender Wirth: 434 Typ L5

Light distribution files

OPTICAL RESULTS (SIMULATED):

NICHIA

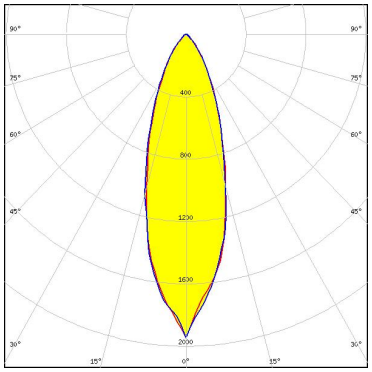
LED	COB S-Type (LES 6)
FWHM / FWTM	25.0° / 53.0°
Efficiency	92 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

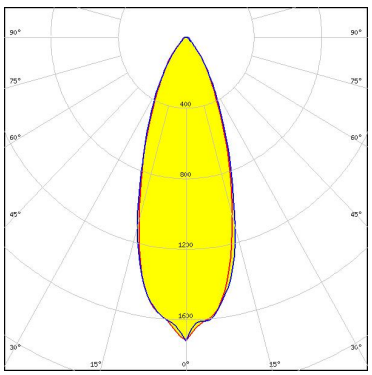
LED	Soleriq S9
FWHM / FWTM	32.0° / 71.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	36.0° / 74.0°
Efficiency	92 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



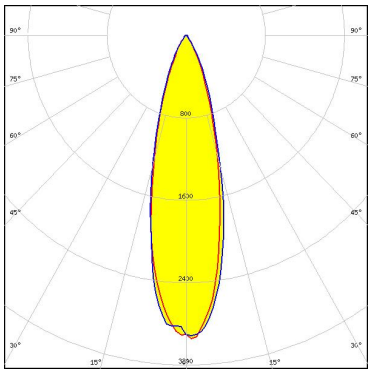
Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LC010C
FWHM / FWTM	27.0° / 56.0°
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 479 Typ L5

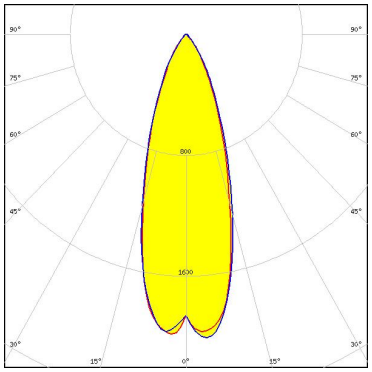


Light distribution files

SAMSUNG

LED	LC020C
FWHM / FWTM	32.0° / 66.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 479 Typ L5

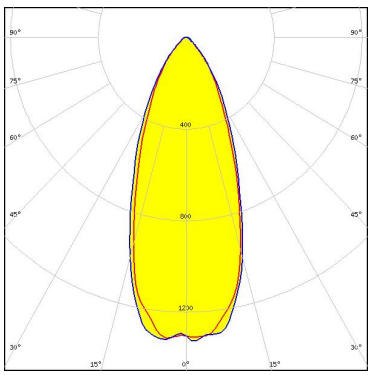


Light distribution files

SAMSUNG

LED	LC040C
FWHM / FWTM	40.0° / 82.0°
Efficiency	89 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 479 Typ L5



Light distribution files

OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM / FWTM	35.0° / 72.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Bender Wirth: 434 Typ L5

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:

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