ANGELA-W-B

~45° wide beam compatible with BJB and B+W connectors



SPECIFICATION:

Dimensions	Ø 119.5 mm
Height	74.5 mm
Fastening	socket
ROHS compliant	yes

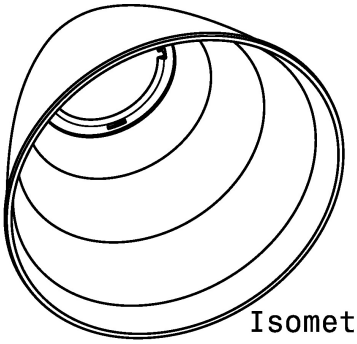
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELA-W-B	Reflector	PC	metal		HMDS

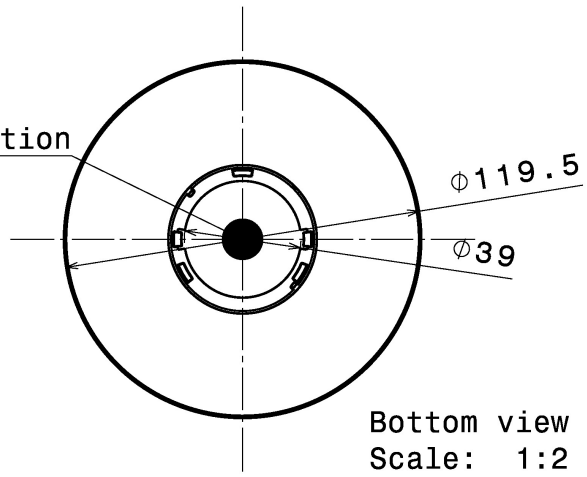
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13664_ANGELA-W-B » Box size: 398 x 298 x 265 mm	180	90	45	9.1

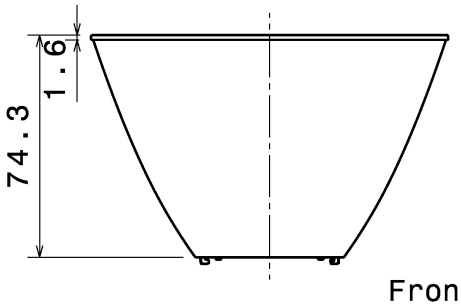
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.



Isometric view
Scale: 1:2



Bottom view
Scale: 1:2



Front view
Scale: 1:2

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	Ledil Oy Salorankatu 10 FIN 24240 SALO Finland
THIRD ANGLE PROJECTION:	DRAWING TITLE Angela-B
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."	SIZE A4 / PART NUMBER - SCALE 1:2 / WEIGHT - / SHEET 1/1

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

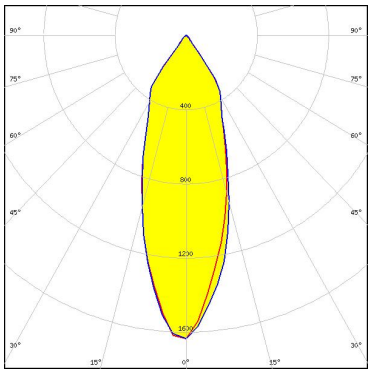
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	BXRA ES Rectangle
FWHM / FWTM	34.0° / 75.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2040	



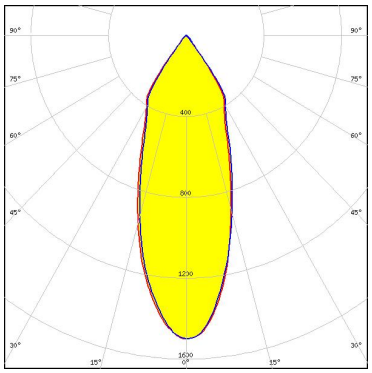


Light distribution files

bridgelux

LED	V15 Gen6
FWHM / FWTM	37.0° / 75.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2224	



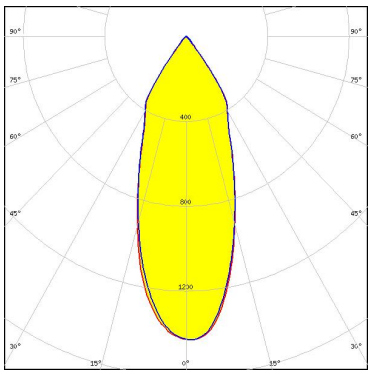


Light distribution files

bridgelux

LED	V18 Gen6
FWHM / FWTM	38.0° / 76.0°
Efficiency	81 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

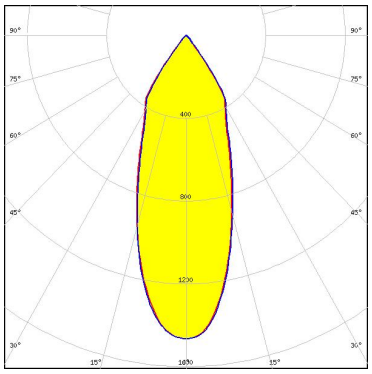
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OPTICAL RESULTS (MEASURED):

bridgelux

LED	V18 Gen7
FWHM / FWTM	38.0° / 76.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2350	



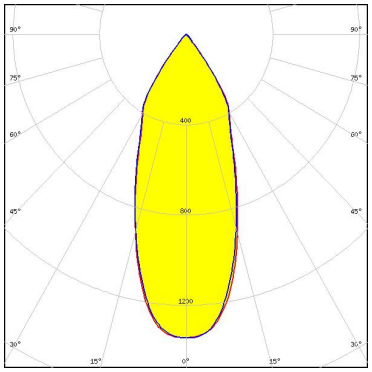


Light distribution files

bridgelux

LED	V22 Gen6
FWHM / FWTM	40.0° / 76.0°
Efficiency	80 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

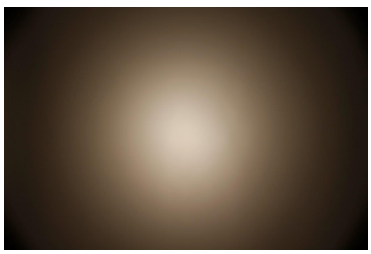


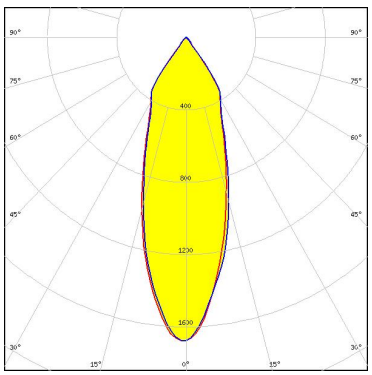


Light distribution files

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	33.0° / 75.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2021	





Light distribution files

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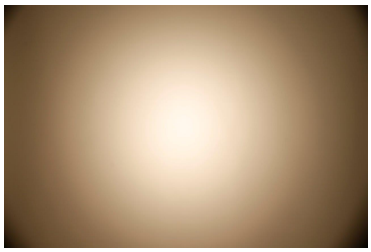
OPTICAL RESULTS (MEASURED):

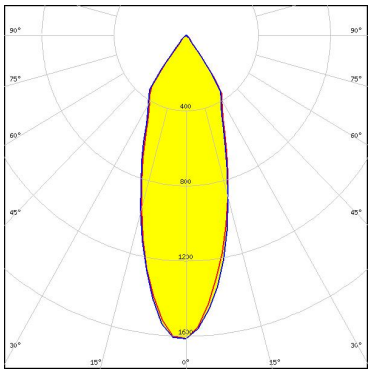
CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	34.0° / 75.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

A.A.G. STUCCHI: 8101-G2





Light distribution files

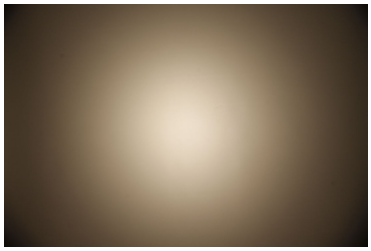
CITIZEN

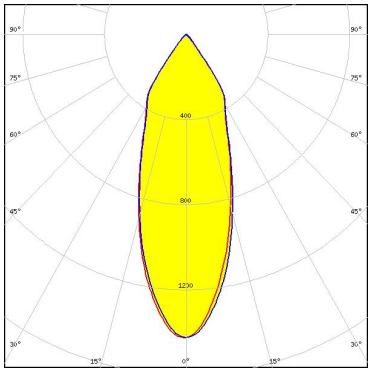
LED	CLL03x/CLU03x
FWHM / FWTM	37.0° / 76.0°
Efficiency	78 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

A.A.G. STUCCHI: 8101-G2





Light distribution files

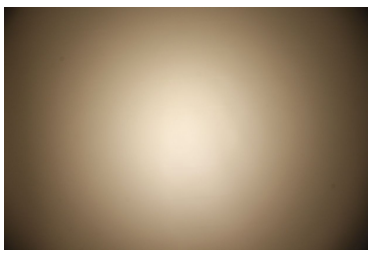
CITIZEN

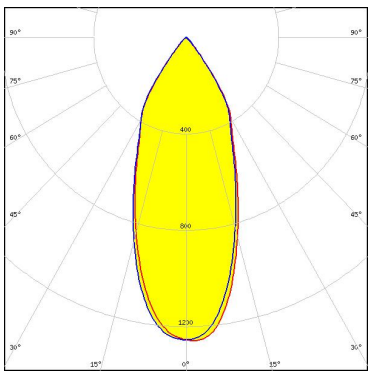
LED	CLL04x/CLU04x
FWHM / FWTM	41.0° / 78.0°
Efficiency	77 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

A.A.G. STUCCHI: 8102-G2





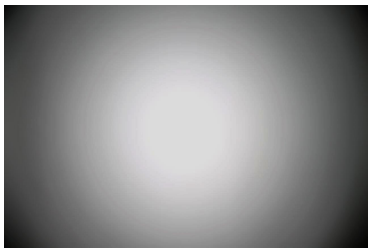
Light distribution files

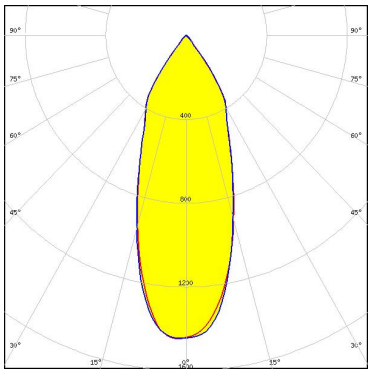
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OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	38.0° / 76.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2030	

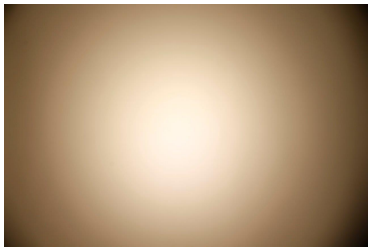


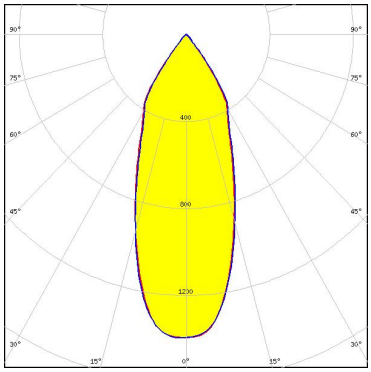


Light distribution files

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	39.0° / 77.0°
Efficiency	82 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8102-G2	

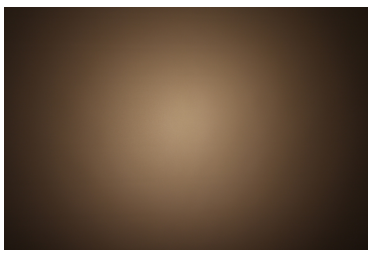


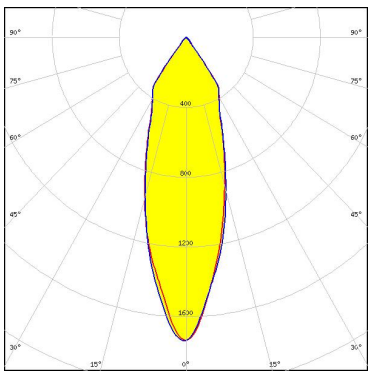


Light distribution files

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	32.0° / 74.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8101-G2	





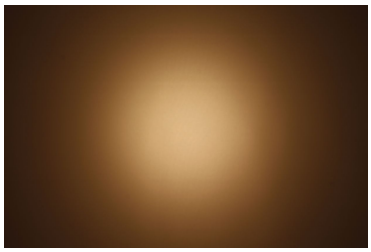
Light distribution files

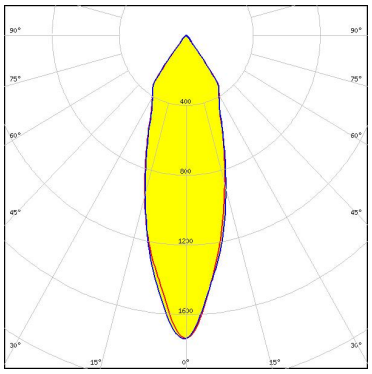
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OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	32.0° / 75.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2021	



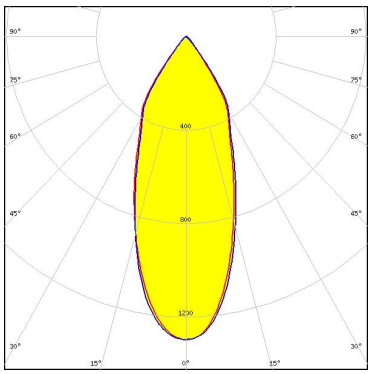


Light distribution files

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	40.0° / 77.0°
Efficiency	77 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
BJB: 47.319.2141	



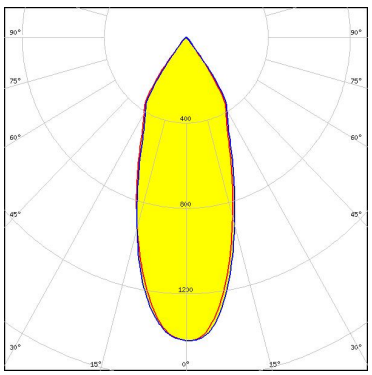


Light distribution files

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	38.0° / 76.0°
Efficiency	80 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

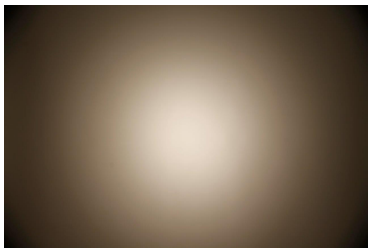
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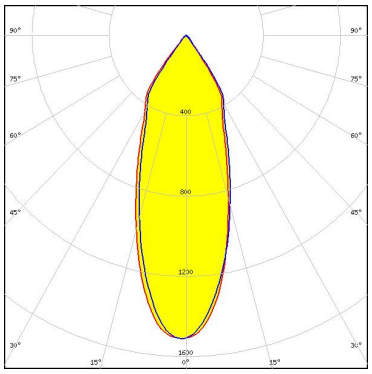
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	37.0° / 76.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8401-G2



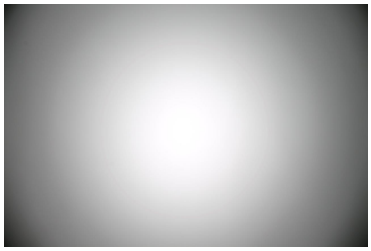


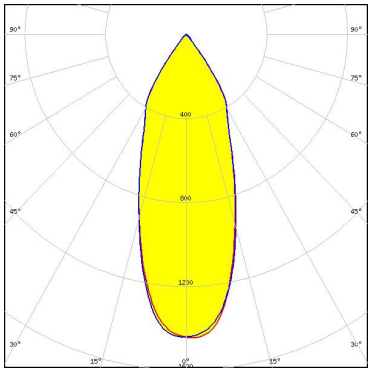
Light distribution files

CREE LEDs

LED	CXA/B 30xx
FWHM / FWTM	38.0° / 75.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8404-G2



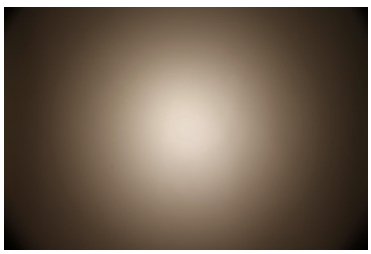


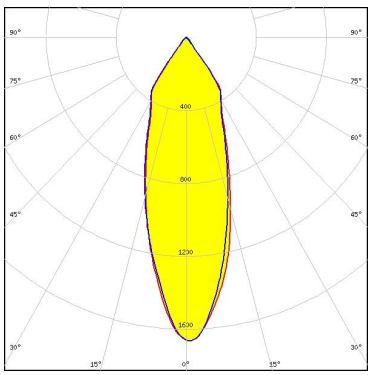
Light distribution files

LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	33.0° / 75.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8301-G2





Light distribution files

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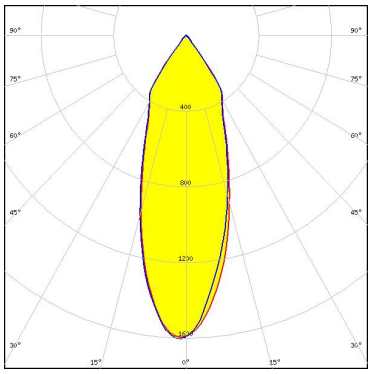
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	35.0° / 75.0°
Efficiency	84 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8301-G2





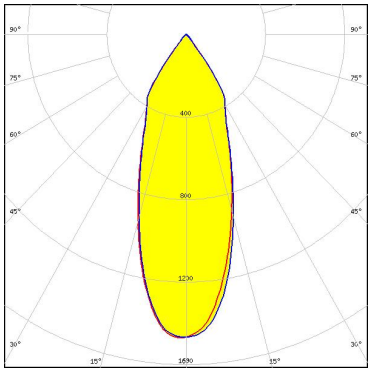
Light distribution files

LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	37.0° / 76.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2030



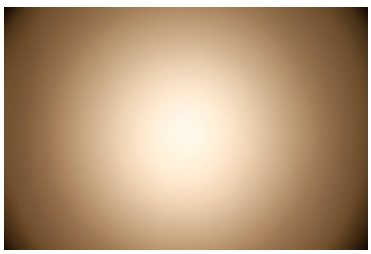


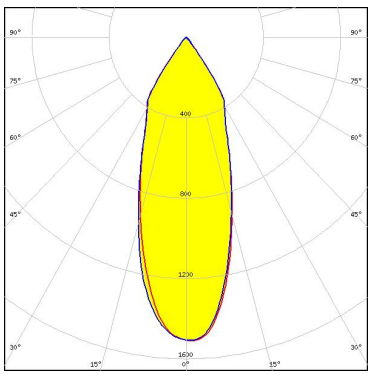
Light distribution files

LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	37.0° / 75.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8102-G2





Light distribution files

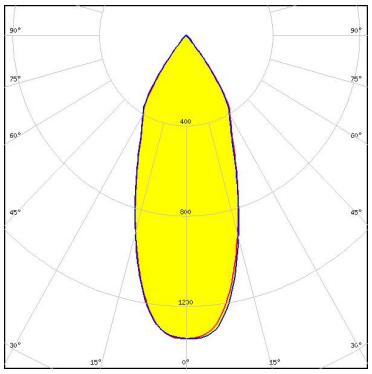
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OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	40.0° / 76.0°
Efficiency	80 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



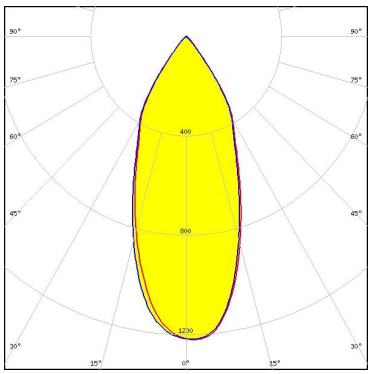


Light distribution files

LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	42.0° / 78.0°
Efficiency	76 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
BJB: 47.319.2030	

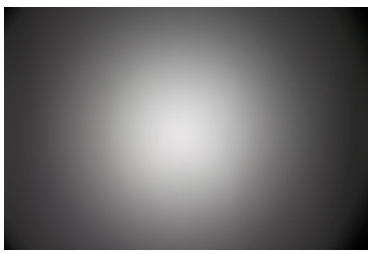


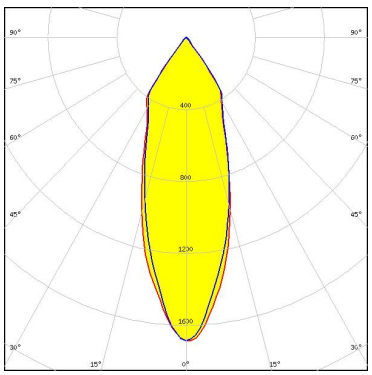


Light distribution files

LUMILEDS

LED	LUXEON K12
FWHM / FWTM	35.0° / 76.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2070	





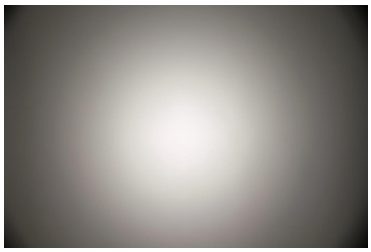
Light distribution files

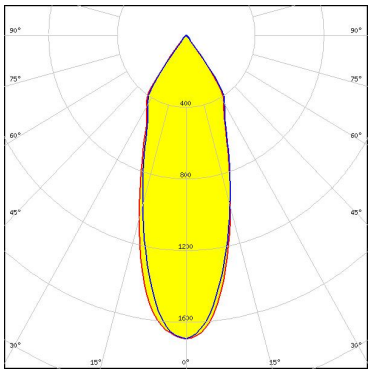
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON K16
FWHM / FWTM	36.0° / 75.0°
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2070	



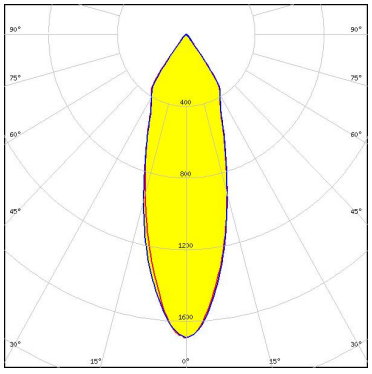


Light distribution files

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	33.0° / 74.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2021	

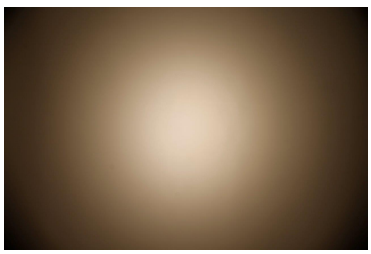


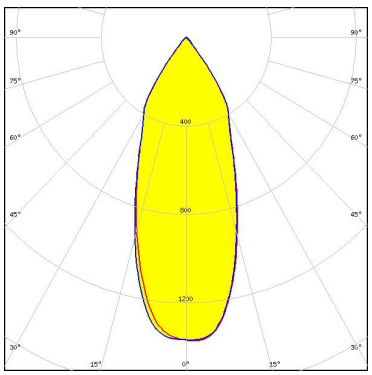


Light distribution files

LUMINUS

LED	CxM-22 (28x28)
FWHM / FWTM	40.0° / 77.0°
Efficiency	81 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2030	





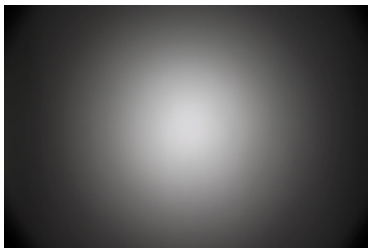
Light distribution files

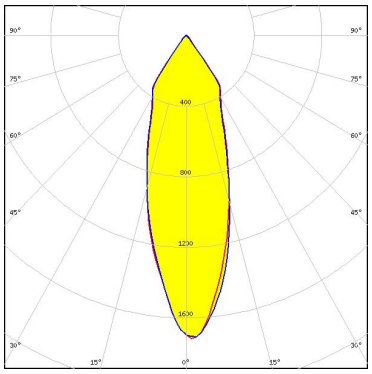
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	33.0° / 75.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8502-G2	

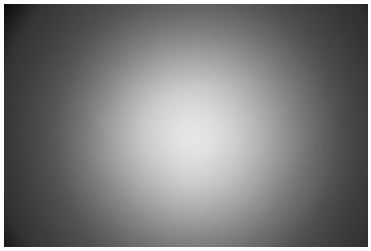


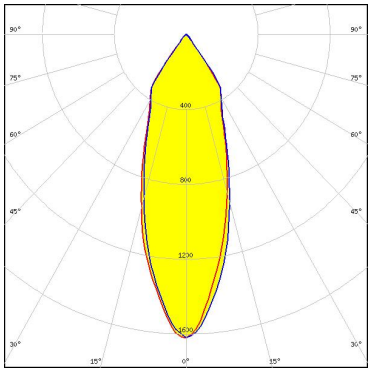


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	34.0° / 75.0°
Efficiency	81 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2021	

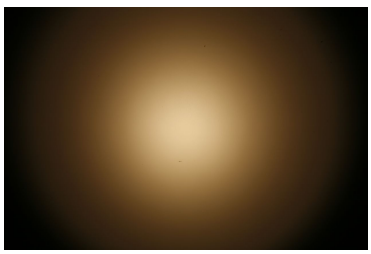


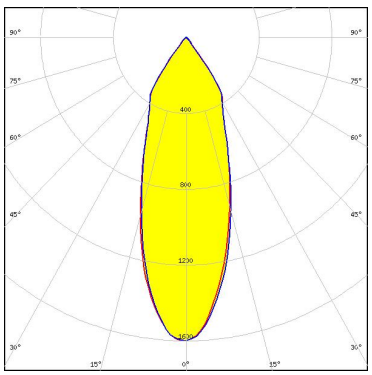


Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	35.0° / 75.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2170	





Light distribution files

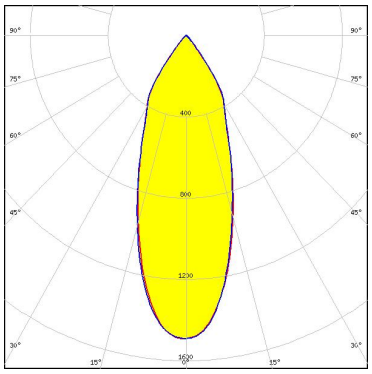
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo SLM L19 CoB
FWHM / FWTM	38.0° / 76.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
BJB: 47.319.2030	



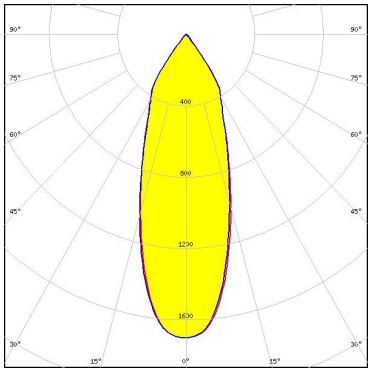


Light distribution files

PHILIPS

LED	Fortimo SLM L19 CoB
FWHM / FWTM	35.0° / 75.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2030	



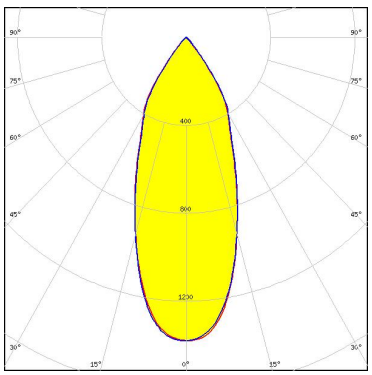


Light distribution files

PHILIPS

LED	Fortimo SLM L23 CoB
FWHM / FWTM	40.0° / 77.0°
Efficiency	82 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
BJB: 47.319.2030	





Light distribution files

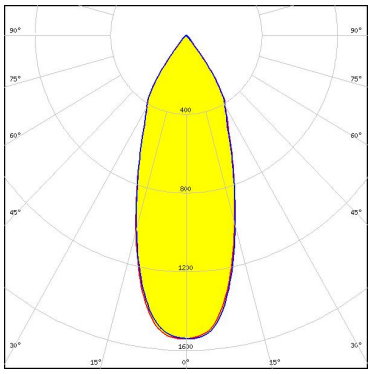
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo SLM L23 CoB
FWHM / FWTM	39.0° / 76.0°
Efficiency	86 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2030	



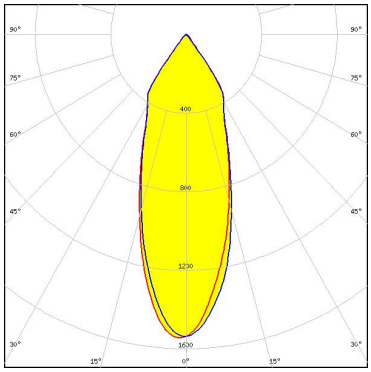


Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	36.0° / 76.0°
Efficiency	82 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2021	



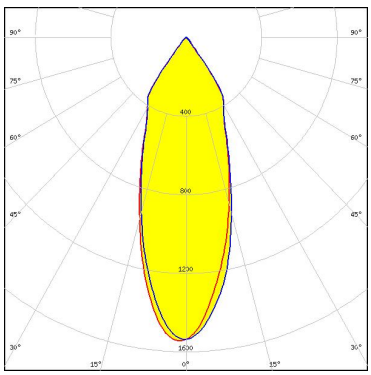


Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	36.0° / 76.0°
Efficiency	82 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8101-G2	





Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

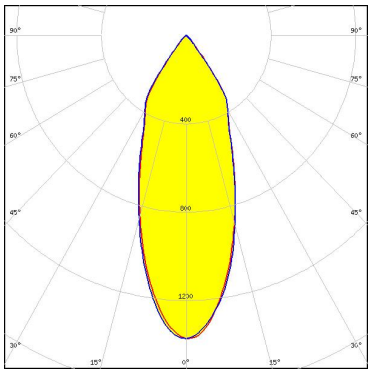
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	38.0° / 77.0°
Efficiency	79 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2021





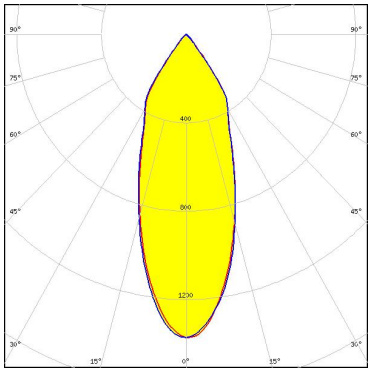
Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	38.0° / 77.0°
Efficiency	79 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101-G2



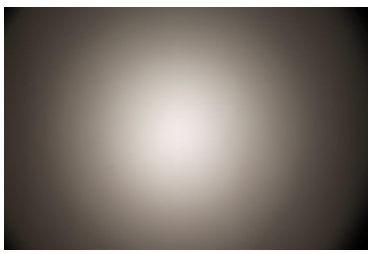


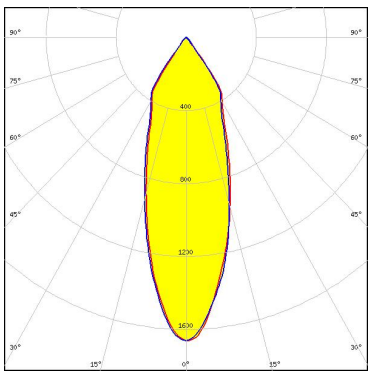
Light distribution files

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM / FWTM	34.0° / 74.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8101-G2





Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

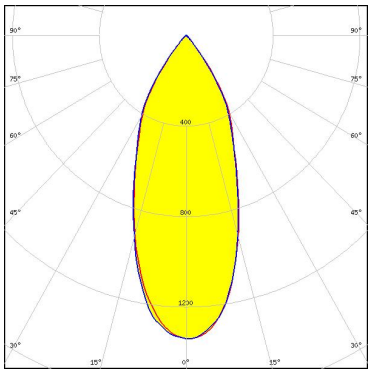
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM / FWTM	42.0° / 78.0°
Efficiency	79 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030





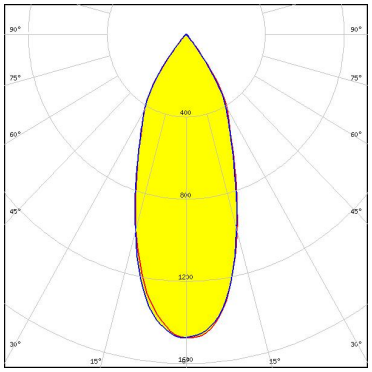
Light distribution files

SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM / FWTM	40.0° / 76.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2030



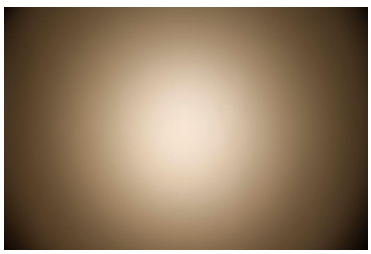


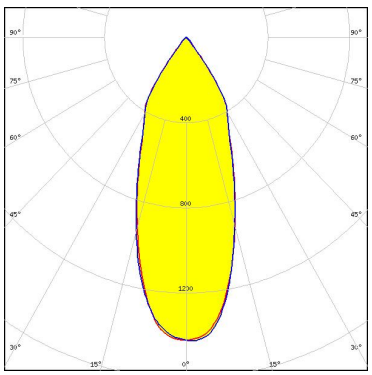
Light distribution files

SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM / FWTM	39.0° / 76.0°
Efficiency	82 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8102-G2





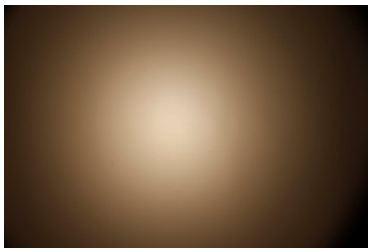
Light distribution files

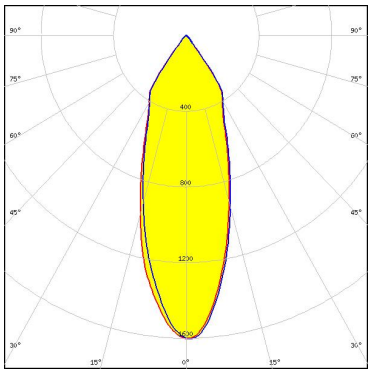
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SHARP

LED	Mega Zenigata (GW6DME)
FWHM / FWTM	35.0° / 75.0°
Efficiency	84 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8301-G2	

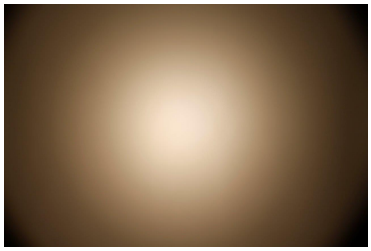


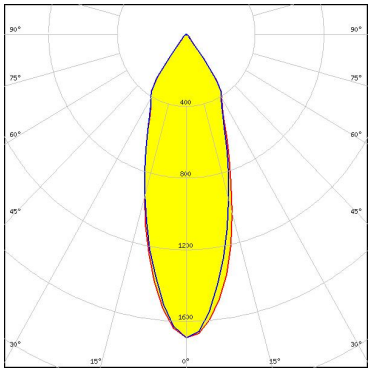


Light distribution files

SHARP

LED	Mega Zenigata (GW6DME)
FWHM / FWTM	34.0° / 75.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2011	



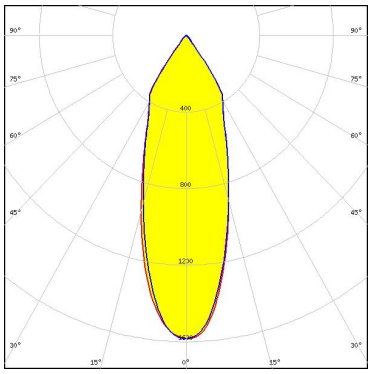


Light distribution files

TRIDONIC

LED	SLE G7 LES17 H
FWHM / FWTM	34.0° / 74.0°
Efficiency	81 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

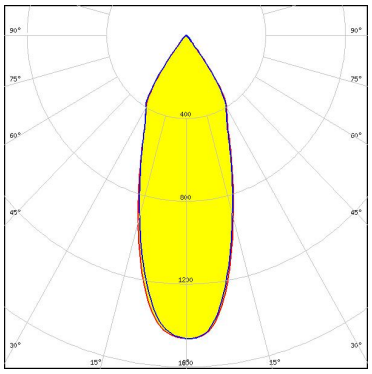
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	SLE G7 LES21 H
FWHM / FWTM	37.0° / 75.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



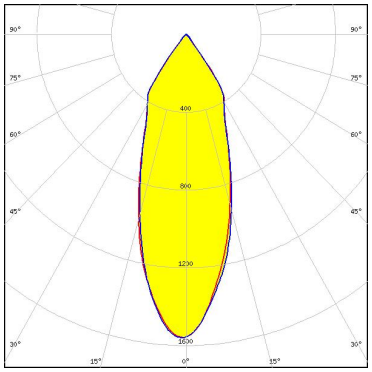


Light distribution files

XICATO

LED	XOB 14.5 mm
FWHM / FWTM	36.0° / 75.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2021	



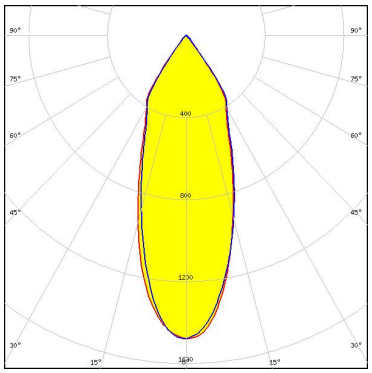


Light distribution files

XICATO

LED	XTM - 19mm LES
FWHM / FWTM	37.0° / 76.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C15743_XTM-ADAPTER-50-B	





Light distribution files

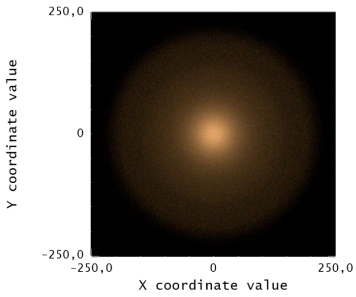
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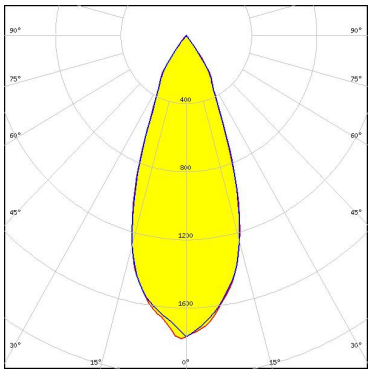
OPTICAL RESULTS (SIMULATED):

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	40.0° / 70.0°
Efficiency	85 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	

BJB: 47.319.2021



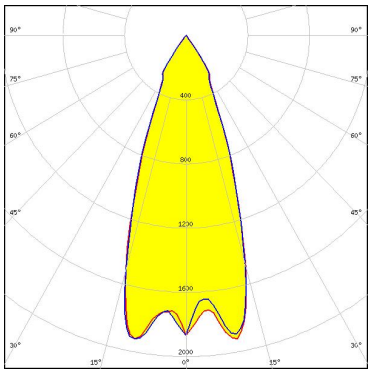


Light distribution files

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	35.0° / 69.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2030

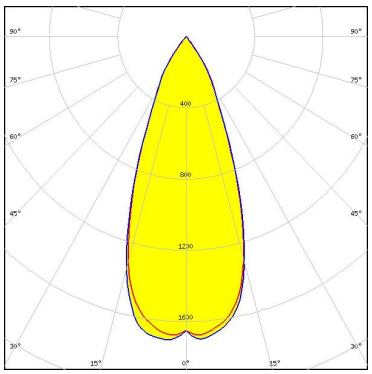


Light distribution files

SAMSUNG

LED	LC040D / LC060D / LC080D
FWHM / FWTM	40.0° / 70.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2030



Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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.

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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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