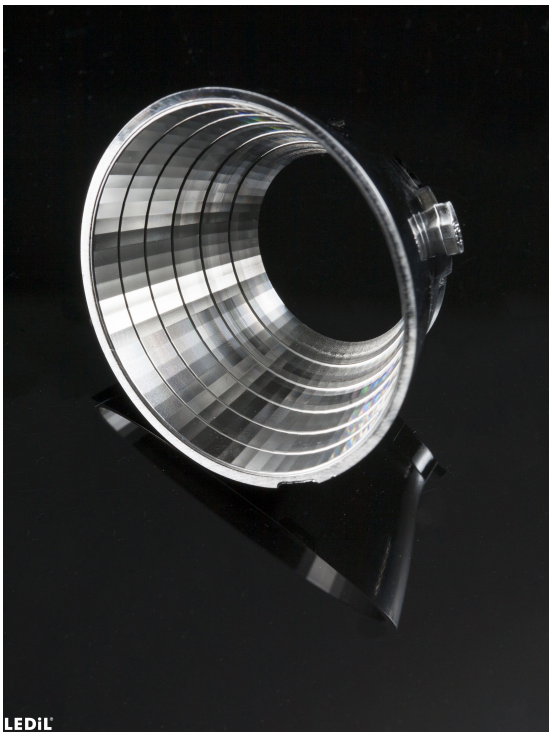
BROOKE-G2-M

~30° medium beam compatible with LEDiL HEKLA.



SPECIFICATION:

Dimensions	Ø 45.0
Height	18.9 mm
Fastening	socket
ROHS compliant	yes

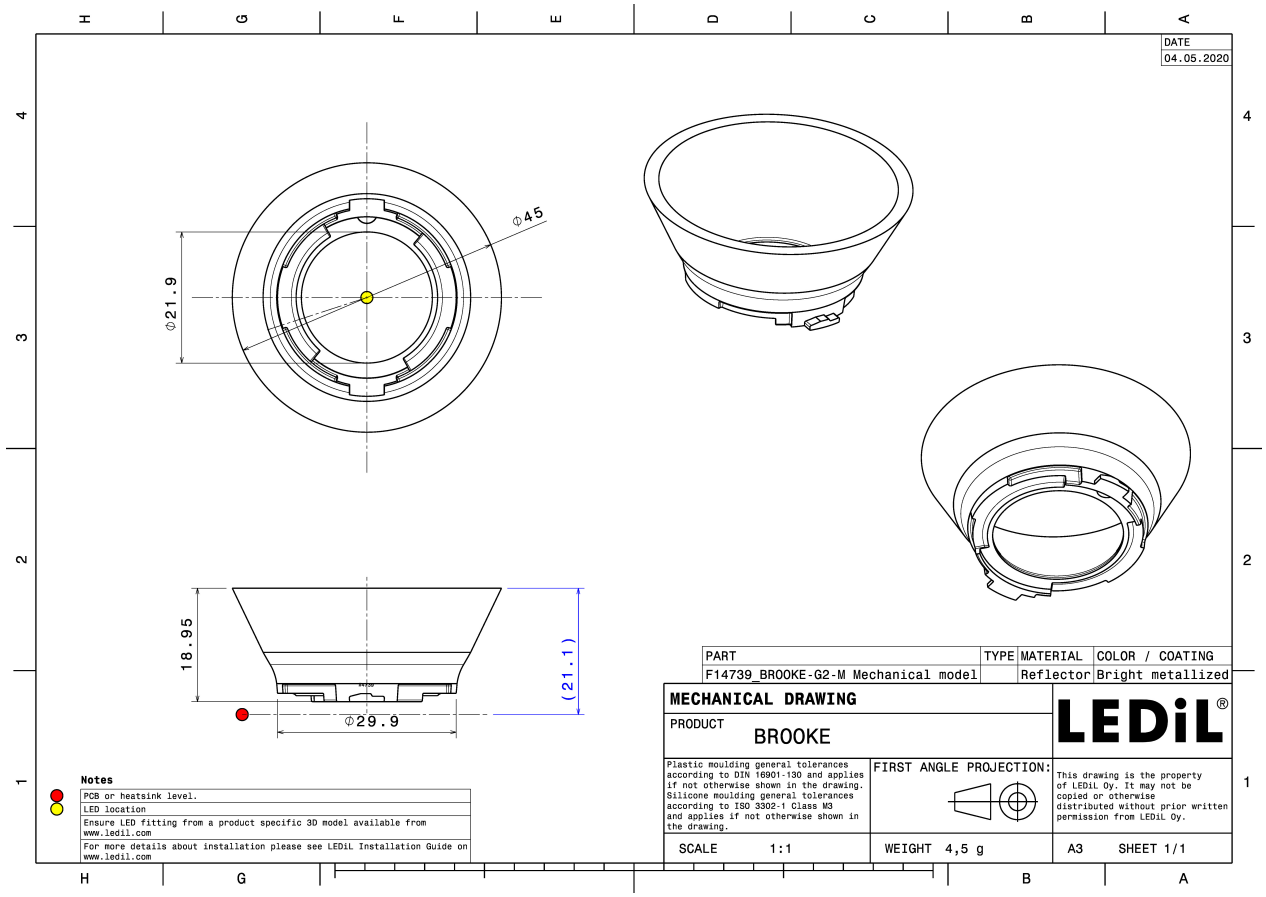
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
BROOKE-G2-M	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14739_BROOKE-G2-M » Box size: 480 x 280 x 300 mm	720	45	45	5.0

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

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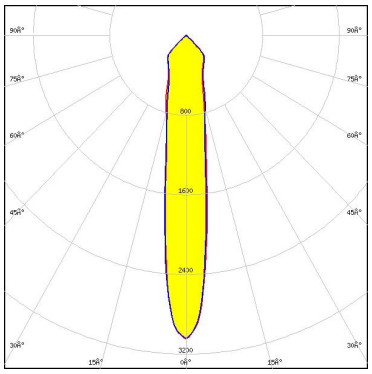
OPTICAL RESULTS (MEASURED):

bridgelux

LED	V4 HD Gen 7
FWHM / FWTM	16.0° / 76.0°
Efficiency	94 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15253_HEKLA-SOCKET-A





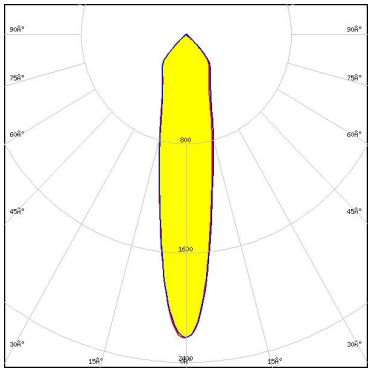
Light distribution files

bridgelux

LED	V4 HD Gen 7
FWHM / FWTM	21.0° / 86.0°
Efficiency	90 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15253_HEKLA-SOCKET-A
C14658_BARBARA-RZ-LENS



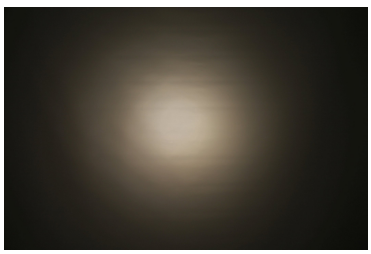


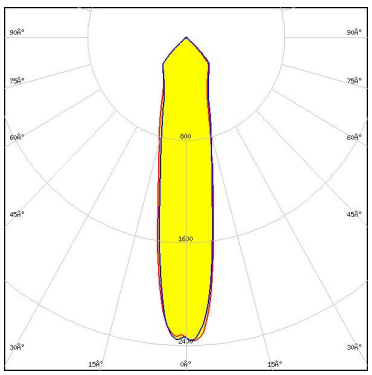
Light distribution files

bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	21.0° / 87.0°
Efficiency	94 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





Light distribution files

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OPTICAL RESULTS (MEASURED):

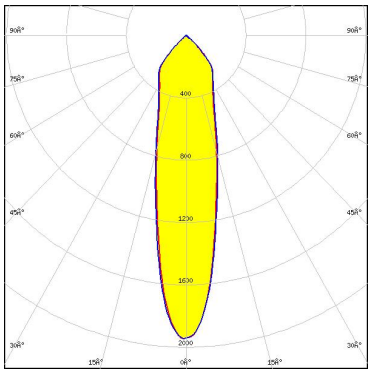
bridgelux

LED	V6 HD Gen 7
FWHM / FWTM	24.0° / 87.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C
C14658_BARBARA-RZ-LENS





Light distribution files

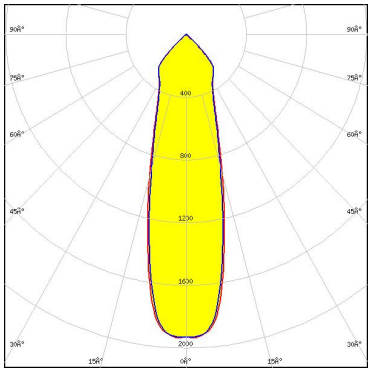
bridgelux

LED	V8 Gen 8-9
FWHM / FWTM	29.0° / 89.0°
Efficiency	95 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15253_HEKLA-SOCKET-A





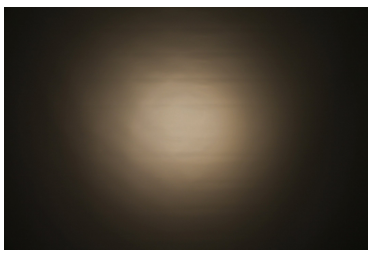
Light distribution files

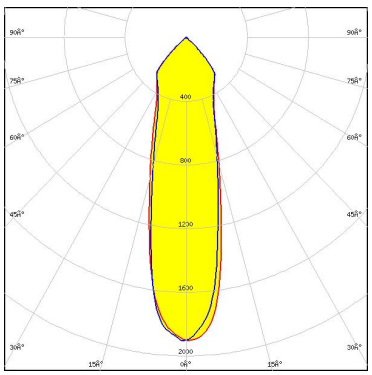
bridgelux

LED	V9 HD Gen7
FWHM / FWTM	27.0° / 89.0°
Efficiency	94 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15859_HEKLA-SOCKET-I





Light distribution files

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OPTICAL RESULTS (MEASURED):

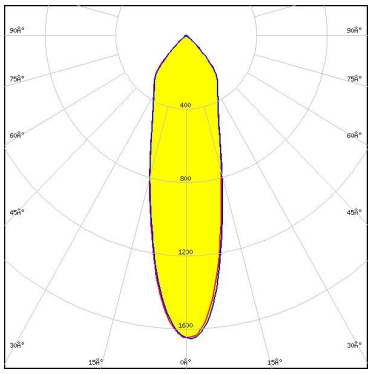
bridgelux

LED	V9 HD Gen7
FWHM / FWTM	29.0° / 89.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15859_HEKLA-SOCKET-I
C14658_BARBARA-RZ-LENS





Light distribution files

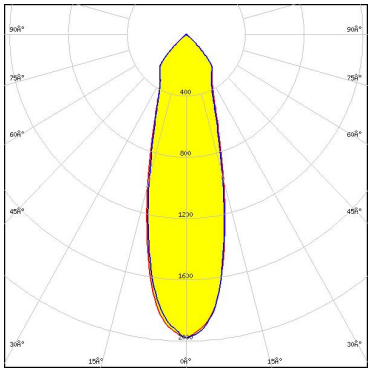
bridgelux

LED	VERO10
FWHM / FWTM	30.0° / 88.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15616_HEKLA-SOCKET-F





Light distribution files

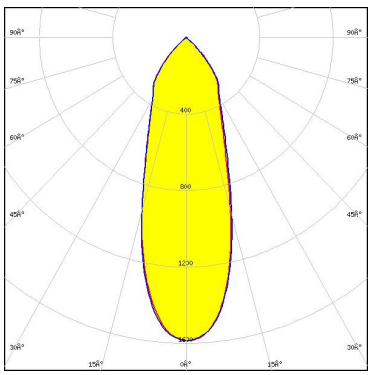
bridgelux

LED	VERO13
FWHM / FWTM	34.0° / 87.0°
Efficiency	90 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K





Light distribution files

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OPTICAL RESULTS (MEASURED):

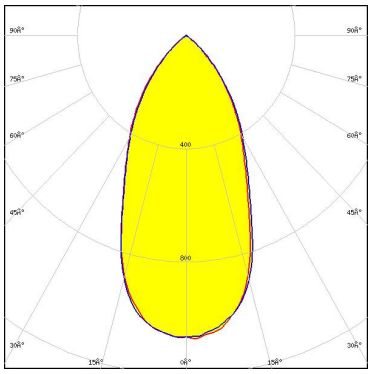
bridgelux

LED	VERO18
FWHM / FWTM	50.0° / 93.0°
Efficiency	89 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K





Light distribution files

bridgelux

LED	Vesta DTW 13mm (21W)
FWHM / FWTM	41.0° / 91.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

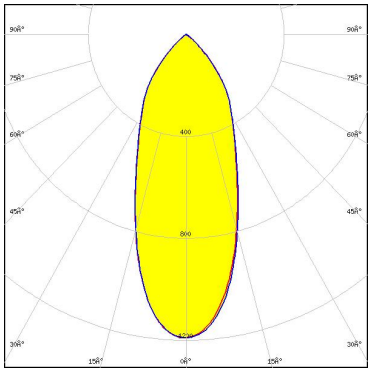
Required components:

C16142_HEKLA-SOCKET-K

C14658_BARBARA-RZ-LENS

Bender Wirth: 491 Typ L8





Light distribution files

bridgelux

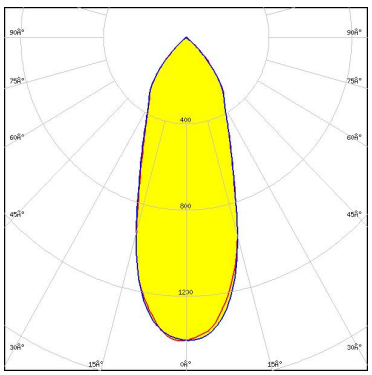
LED	Vesta DTW 13mm (21W)
FWHM / FWTM	38.0° / 88.0°
Efficiency	90 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 491 Typ L8





Light distribution files

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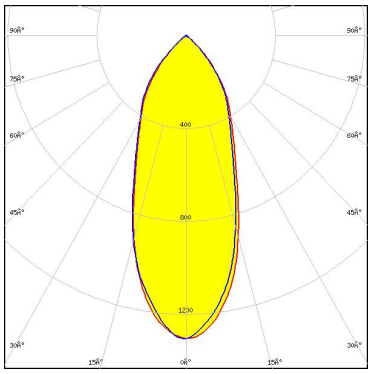
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vesta DTW 15mm (33W)
FWHM / FWTM	41.0° / 90.0°
Efficiency	90 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- Bender Wirth: 491 Typ L8





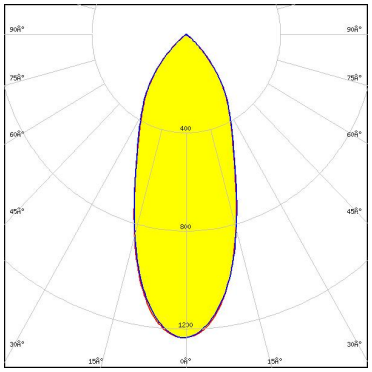
Light distribution files

bridgelux

LED	Vesta DTW 15mm (33W)
FWHM / FWTM	40.0° / 89.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 491 Typ L8



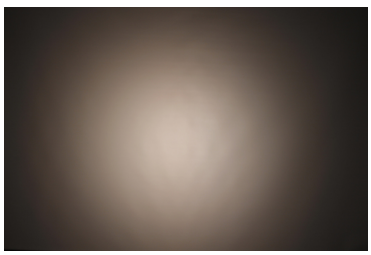


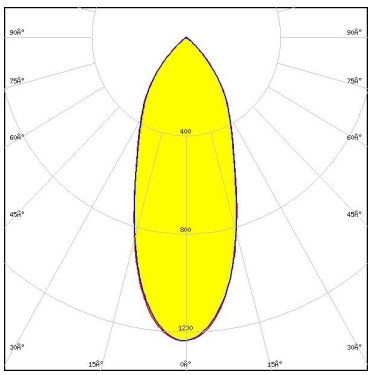
Light distribution files

bridgelux

LED	Vesta DTW 9mm (4W/6W/12W)
FWHM / FWTM	31.0° / 88.0°
Efficiency	86 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 490 Typ L8





Light distribution files

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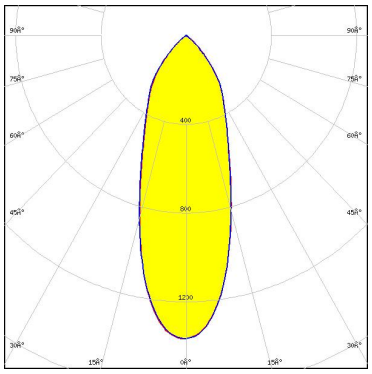
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vesta TW 13mm (25W) CSP
FWHM / FWTM	36.0° / 87.0°
Efficiency	84 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 492 Typ L8





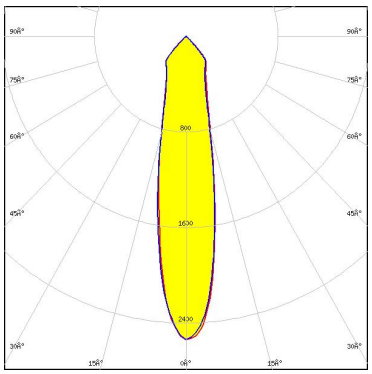
Light distribution files

bridgelux

LED	Vesta TW 6mm DP
FWHM / FWTM	22.0° / 82.0°
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- Bender Wirth: 504 Typ L8





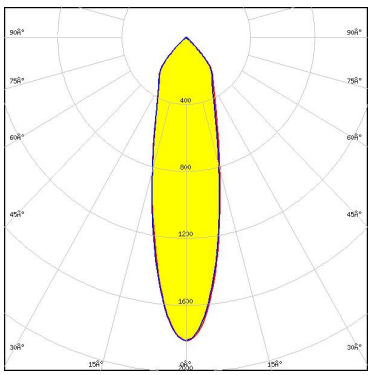
Light distribution files

bridgelux

LED	Vesta TW 6mm DP
FWHM / FWTM	27.0° / 86.0°
Efficiency	85 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 504 Typ L8





Light distribution files

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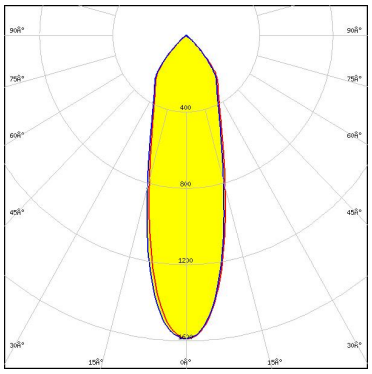
OPTICAL RESULTS (MEASURED):

bridgelux

LED	Vesta TW 9mm (12W) CSP
FWHM / FWTM	30.0° / 86.0°
Efficiency	85 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 489 Typ L8



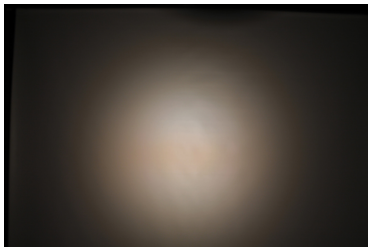


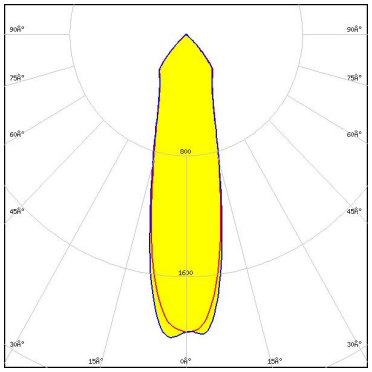
Light distribution files

bridgelux

LED	Vesta TW 9mm (12W) CSP
FWHM / FWTM	27.0° / 84.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- Bender Wirth: 490 Typ L8





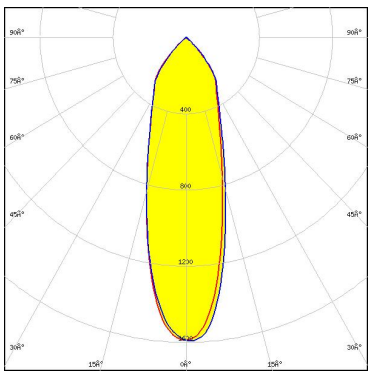
Light distribution files

CITIZEN

LED	CLC020 Series (Dim-To-Warm)
FWHM / FWTM	31.0° / 86.0°
Efficiency	84 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 487 Typ L8





Light distribution files

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OPTICAL RESULTS (MEASURED):

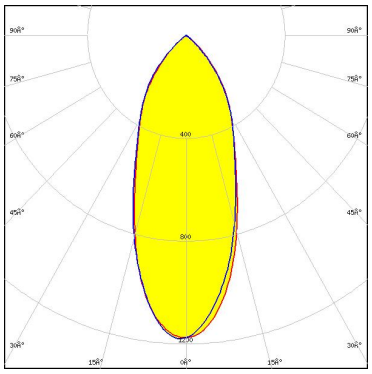
CITIZEN

LED	CLC030 Series (Dim-To-Warm)
FWHM / FWTM	41.0° / 90.0°
Efficiency	82 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K
C14658_BARBARA-RZ-LENS
Bender Wirth: 436 Typ L8





Light distribution files

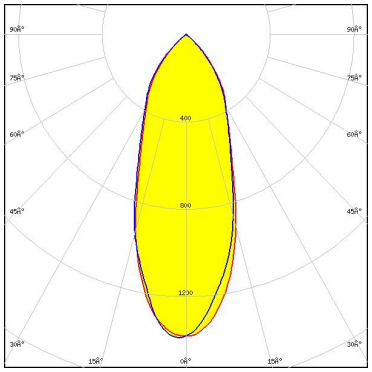
CITIZEN

LED	CLC030 Series (Dim-To-Warm)
FWHM / FWTM	38.0° / 88.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K





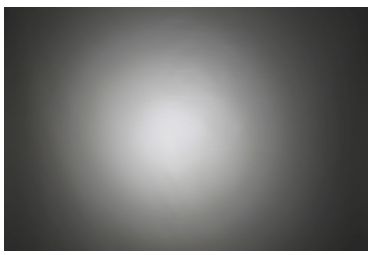
Light distribution files

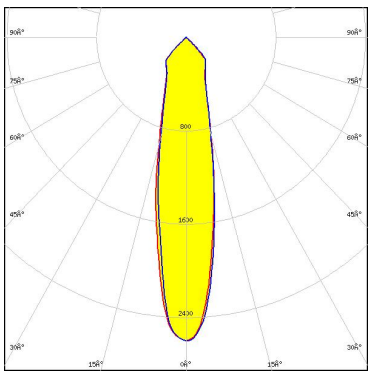
CITIZEN

LED	CLU700/701/702/703
FWHM / FWTM	23.0° / 84.0°
Efficiency	94 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

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OPTICAL RESULTS (MEASURED):

CITIZEN

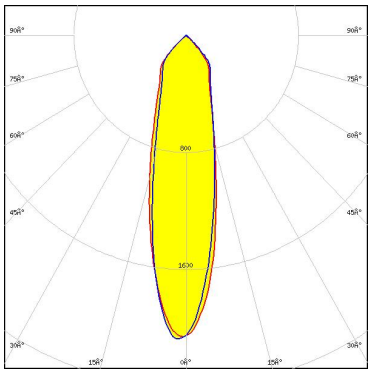
LED	CLU700/701/702/703
FWHM / FWTM	26.0° / 85.0°
Efficiency	91 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C

C14658_BARBARA-RZ-LENS





Light distribution files

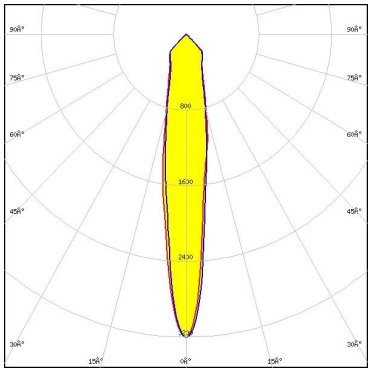
CITIZEN

LED	CLU7A2/7A3
FWHM / FWTM	16.0° / 68.0°
Efficiency	94 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

CITIZEN

LED	LCN-C01B (Tunable White)
FWHM / FWTM	29.0° / 85.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

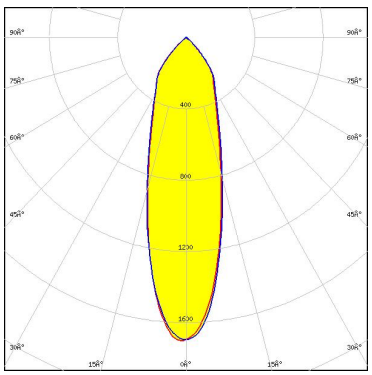
Required components:

C16142_HEKLA-SOCKET-K

C14658_BARBARA-RZ-LENS

Bender Wirth: 481 Typ L8





Light distribution files

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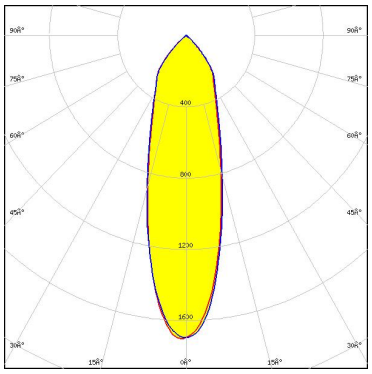
OPTICAL RESULTS (MEASURED):

CITIZEN

LED	LCN-C02B (Tunable White)
FWHM / FWTM	39.0° / 89.0°
Efficiency	84 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 481 Typ L8



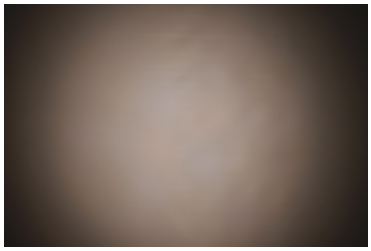


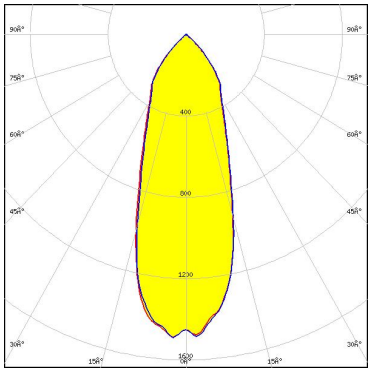
Light distribution files

CITIZEN

LED	LCN-C02B (Tunable White)
FWHM / FWTM	36.0° / 87.0°
Efficiency	90 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K



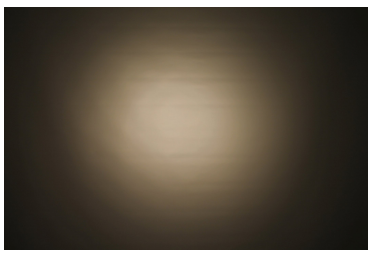


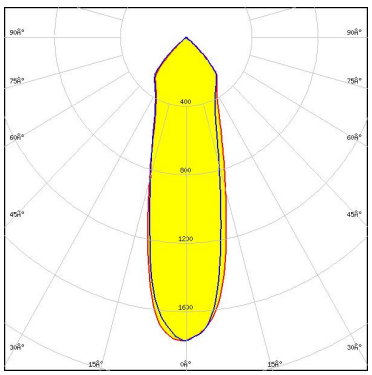
Light distribution files

CREE LEDs

LED	CMA1516
FWHM / FWTM	29.0° / 90.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- F15256_HEKLA-SOCKET-D





Light distribution files

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

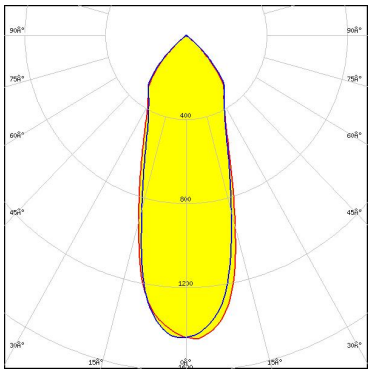
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CMA1825
FWHM / FWTM	36.0° / 92.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15254_HEKLA-SOCKET-B





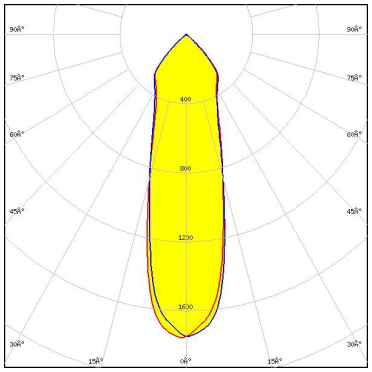
Light distribution files

CREE LEDs

LED	CMT14xx
FWHM / FWTM	29.0° / 90.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





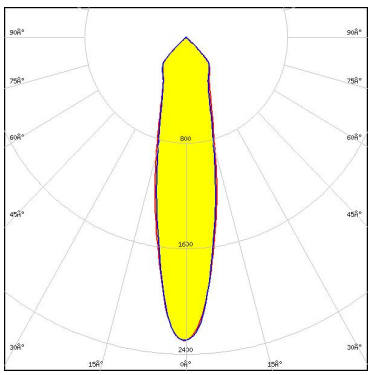
Light distribution files

CREE LEDs

LED	CXA/B 13xx
FWHM / FWTM	25.0° / 88.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15956_HEKLA-SOCKET-J





Light distribution files

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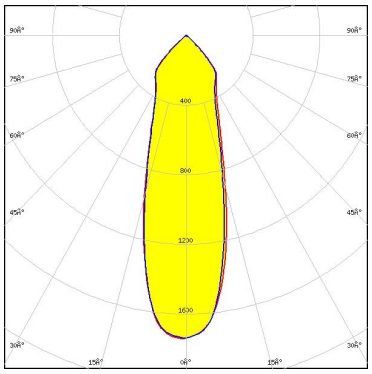
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	32.0° / 90.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15256_HEKLA-SOCKET-D





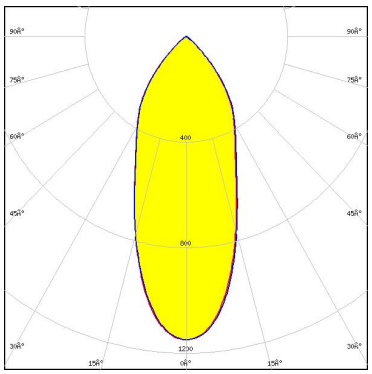
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM	41.0° / 91.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14658_BARBARA-RZ-LENS
Bender Wirth: 637a Hekla





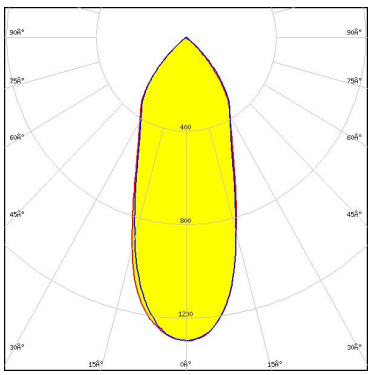
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB L08 (Gen2)
FWHM / FWTM	40.0° / 92.0°
Efficiency	92 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 637a Hekla





Light distribution files

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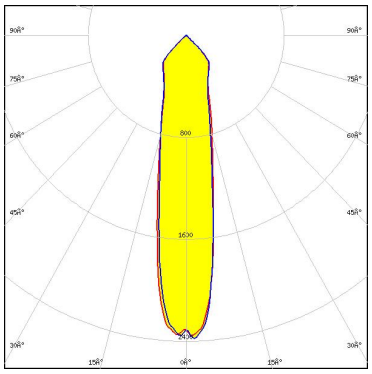
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202HD
FWHM / FWTM	22.0° / 87.0°
Efficiency	95 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15848_HEKLA-SOCKET-G





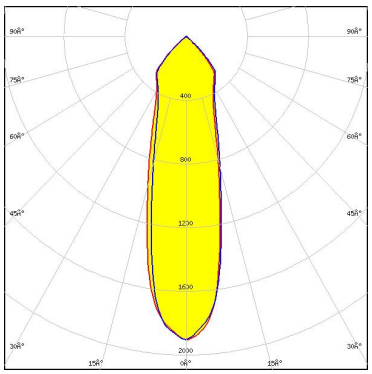
Light distribution files

LUMILEDS

LED	LUXEON CoB 1204HD
FWHM / FWTM	28.0° / 89.0°
Efficiency	96 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15858_HEKLA-SOCKET-H





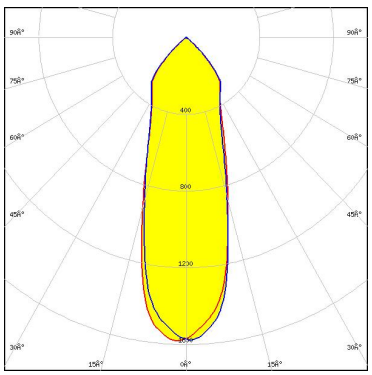
Light distribution files

LUMILEDS

LED	LUXEON CoB 1205HD
FWHM / FWTM	33.0° / 90.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15858_HEKLA-SOCKET-H





Light distribution files

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OPTICAL RESULTS (MEASURED):

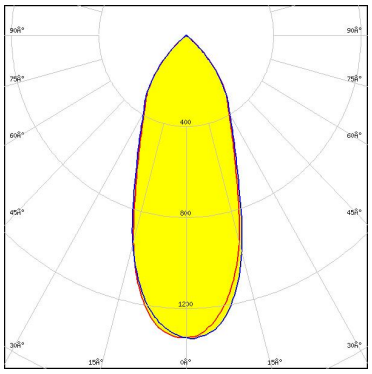
LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	41.0° / 90.0°
Efficiency	92 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 632a Hekla XL





Light distribution files

LUMILEDS

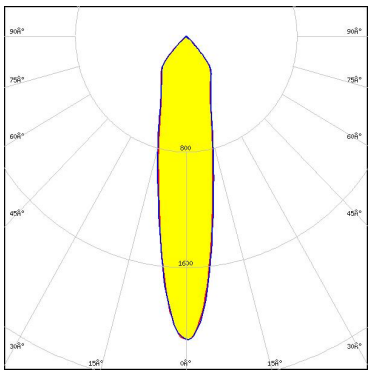
LED	LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM	22.0° / 84.0°
Efficiency	86 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C14658_BARBARA-RZ-LENS

Bender Wirth: 634c Hekla





Light distribution files

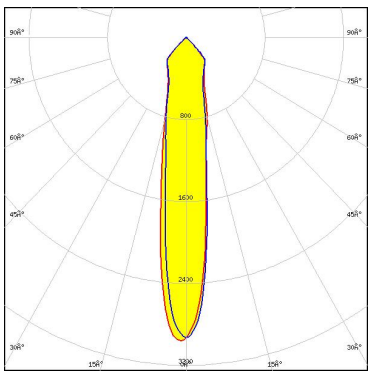
LUMILEDS

LED	LUXEON CX Plus CoB - HD S01H4
FWHM / FWTM	18.0° / 81.0°
Efficiency	93 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 634c Hekla





Light distribution files

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OPTICAL RESULTS (MEASURED):

LUMILEDS

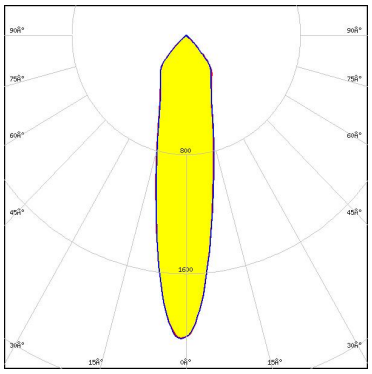
LED	LUXEON CX Plus CoB - HD S02H6
FWHM / FWTM	23.0° / 84.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C14658_BARBARA-RZ-LENS

Bender Wirth: 634c Hekla





Light distribution files

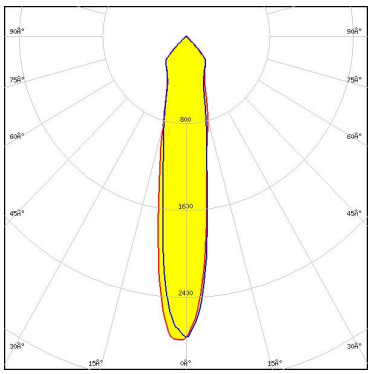
LUMILEDS

LED	LUXEON CX Plus CoB - HD S02H6
FWHM / FWTM	18.0° / 84.0°
Efficiency	93 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Bender Wirth: 634c Hekla





Light distribution files

LUMILEDS

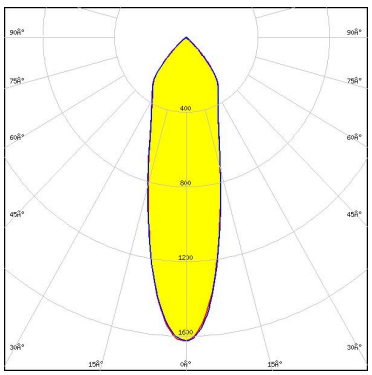
LED	LUXEON CX Plus CoB - HD S04H9
FWHM / FWTM	29.0° / 87.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C14658_BARBARA-RZ-LENS

Bender Wirth: 634c Hekla





Light distribution files

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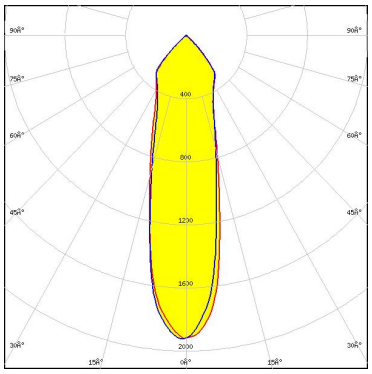
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB - HD S04H9
FWHM / FWTM	26.0° / 88.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 634c Hekla





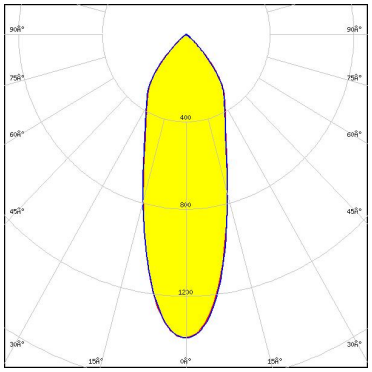
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB L04 / L05 (Gen2)
FWHM / FWTM	34.0° / 89.0°
Efficiency	85 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14658_BARBARA-RZ-LENS
Bender Wirth: 637a Hekla





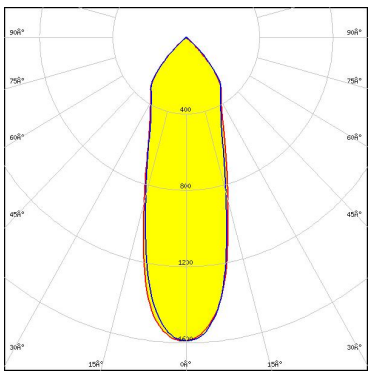
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB L04 / L05 (Gen2)
FWHM / FWTM	33.0° / 89.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 637a Hekla





Light distribution files

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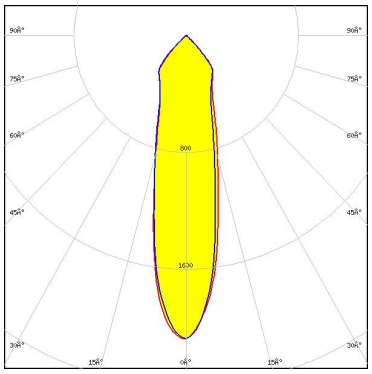
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	25.0° / 86.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 641a Hekla





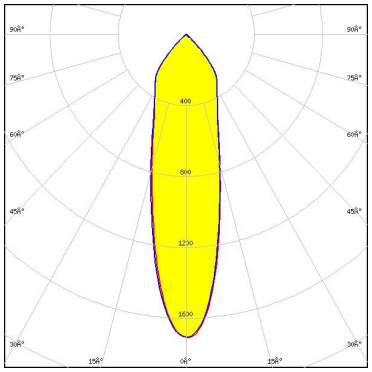
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB M02 / M03 (Gen2)
FWHM / FWTM	27.0° / 86.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C14658_BARBARA-RZ-LENS
Bender Wirth: 641a Hekla





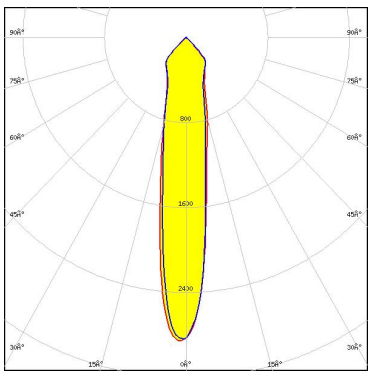
Light distribution files

LUMILEDS

LED	LUXEON CX Plus CoB S01 (Gen2)
FWHM / FWTM	17.0° / 83.0°
Efficiency	93 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
Bender Wirth: 634c Hekla





Light distribution files

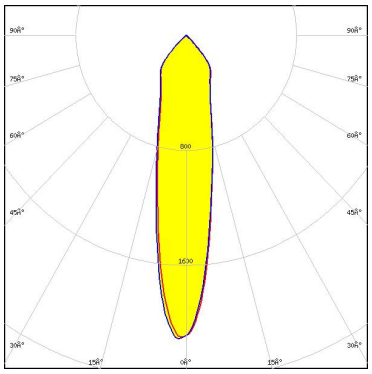
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CX Plus CoB S01 (Gen2)
FWHM / FWTM	22.0° / 84.0°
Efficiency	86 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C14658_BARBARA-RZ-LENS	
Bender Wirth: 634c Hekla	

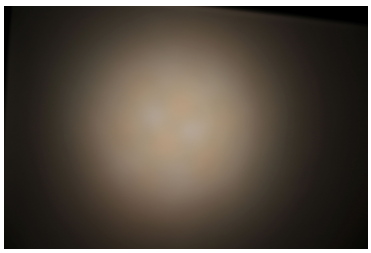


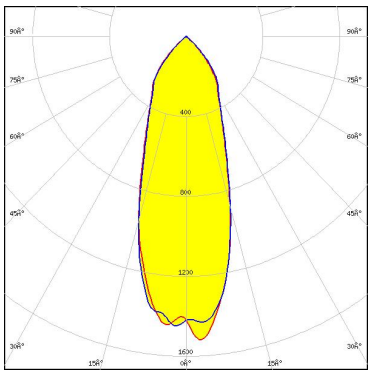


Light distribution files

LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM / FWTM	36.0° / 87.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 491 Typ L8	



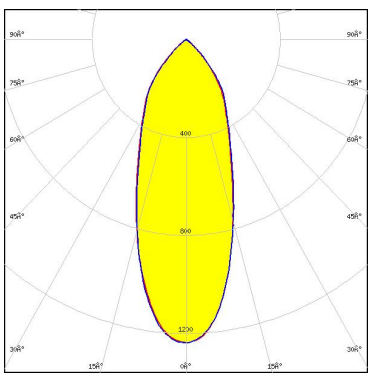


Light distribution files

LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM / FWTM	38.0° / 89.0°
Efficiency	82 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	
C14658_BARBARA-RZ-LENS	
Bender Wirth: 491 Typ L8	





Light distribution files

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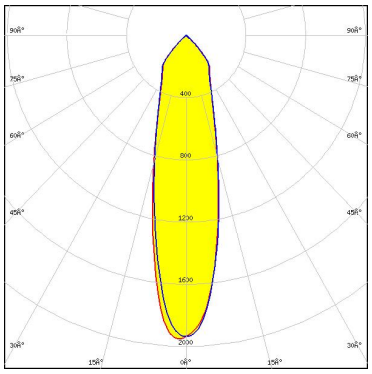
OPTICAL RESULTS (MEASURED):

LUMINUS

LED	CDM-6 (Dim-To-Warm)
FWHM / FWTM	26.0° / 84.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 490 Typ L8





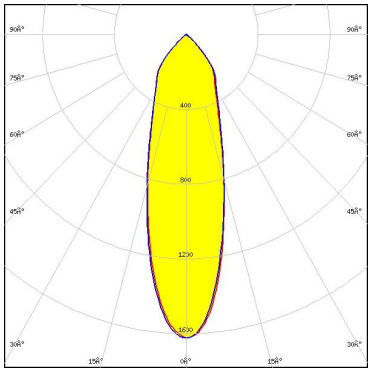
Light distribution files

LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM / FWTM	30.0° / 86.0°
Efficiency	84 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 490 Typ L8





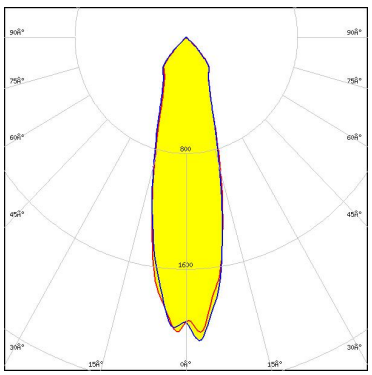
Light distribution files

LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM / FWTM	28.0° / 84.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- Bender Wirth: 490 Typ L8





Light distribution files

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

OPTICAL RESULTS (MEASURED):

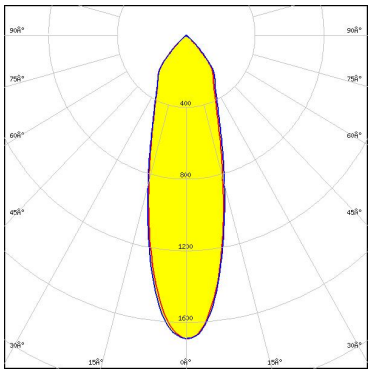
LUMINUS

LED	CTM-9 (Tunable White)
FWHM / FWTM	30.0° / 86.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K
C14658_BARBARA-RZ-LENS
Bender Wirth: 495 Typ L8





Light distribution files

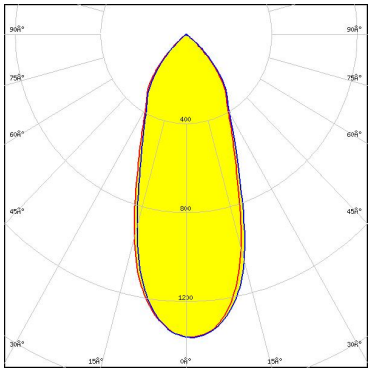
LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	40.0° / 91.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15859_HEKLA-SOCKET-I





Light distribution files

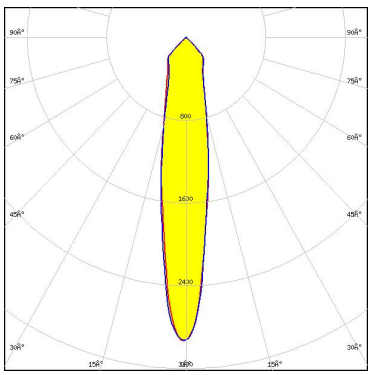
LUMINUS

LED	CXM-4
FWHM / FWTM	19.0° / 74.0°
Efficiency	93 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

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

OPTICAL RESULTS (MEASURED):

LUMINUS

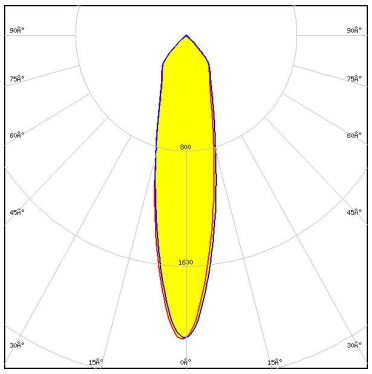
LED	CXM-4
FWHM / FWTM	24.0° / 85.0°
Efficiency	89 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C

C14658_BARBARA-RZ-LENS





Light distribution files

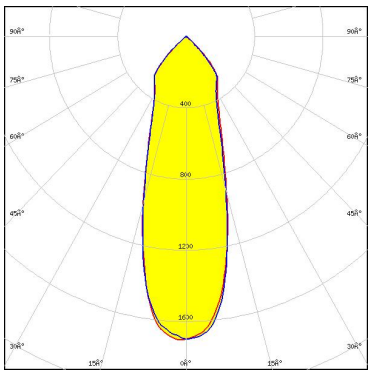
LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM / FWTM	32.0° / 90.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

NICHIA

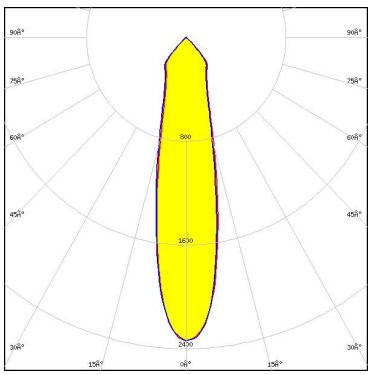
LED	NJCWL024Z-V1MT: COB L-Type Tunable White
FWHM / FWTM	24.0° / 82.0°
Efficiency	86 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 497 Typ L8





Light distribution files

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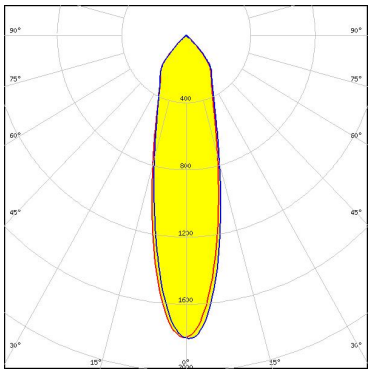
OPTICAL RESULTS (MEASURED):

NICHIA

LED	NJCWL024Z-V1MT: COB L-Type Tunable White
FWHM / FWTM	26.0° / 84.0°
Efficiency	81 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 497 Typ L8





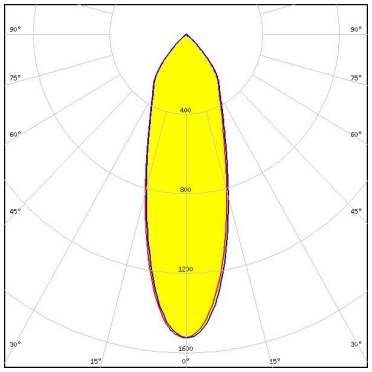
Light distribution files

NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM	32.0° / 86.0°
Efficiency	85 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- C14658_BARBARA-RZ-LENS
- Bender Wirth: 498 Typ L8



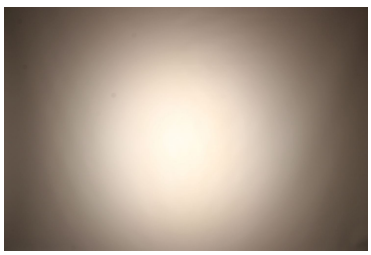


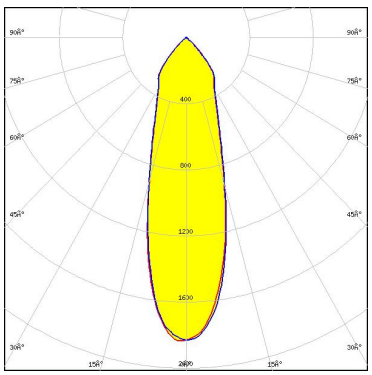
Light distribution files

NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM	30.0° / 84.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C16142_HEKLA-SOCKET-K
- Bender Wirth: 498 Typ L8





Light distribution files

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

OPTICAL RESULTS (MEASURED):

PHILIPS

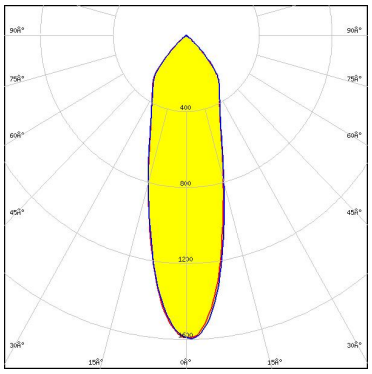
LED	Fortimo SLM L09 CoB
FWHM / FWTM	30.0° / 89.0°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15858_HEKLA-SOCKET-H

C14658_BARBARA-RZ-LENS





Light distribution files

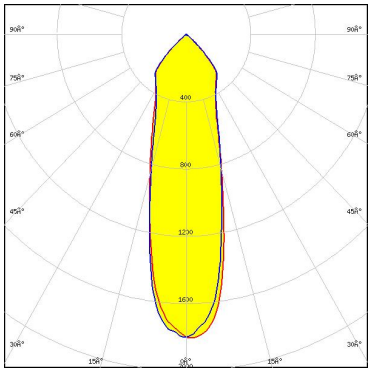
PHILIPS

LED	Fortimo SLM L09 CoB
FWHM / FWTM	28.0° / 89.0°
Efficiency	%
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15858_HEKLA-SOCKET-H





Light distribution files

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	39.0° / 90.0°
Efficiency	84 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C16142_HEKLA-SOCKET-K

C14658_BARBARA-RZ-LENS

Bender Wirth: 432 Typ L8



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 L13 CoB
FWHM / FWTM	36.0° / 89.0°
Efficiency	89 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	
Bender Wirth: 432 Typ L8	

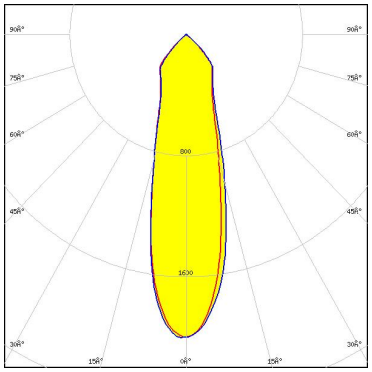


Light distribution files

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	28.0° / 87.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	





Light distribution files

SAMSUNG

LED	LC003D / LC006D / LC009D / LC013D
FWHM / FWTM	28.0° / 87.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	

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

OPTICAL RESULTS (MEASURED):

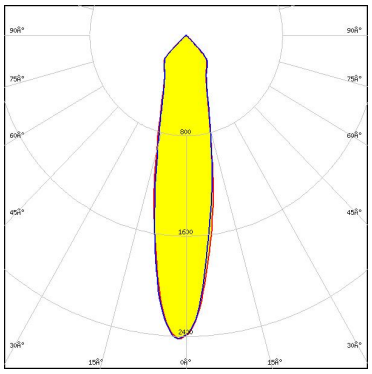
SAMSUNG

LED	LC010C G2
FWHM / FWTM	23.0° / 86.0°
Efficiency	93 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15255_HEKLA-SOCKET-C





Light distribution files

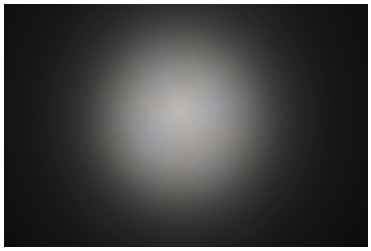
SAMSUNG

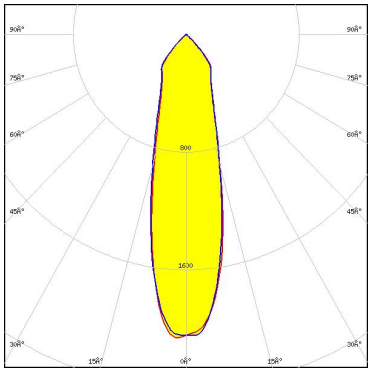
LED	LC010T (Tunable White)
FWHM / FWTM	27.0° / 84.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 501 Typ L8





Light distribution files

SAMSUNG

LED	LC010T (Tunable White)
FWHM / FWTM	30.0° / 85.0°
Efficiency	86 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

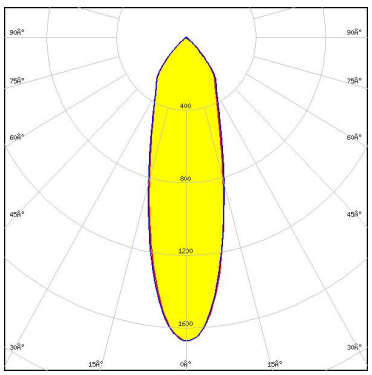
Required components:

C16142_HEKLA-SOCKET-K

C14658_BARBARA-RZ-LENS

Bender Wirth: 501 Typ L8





Light distribution files

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OPTICAL RESULTS (MEASURED):

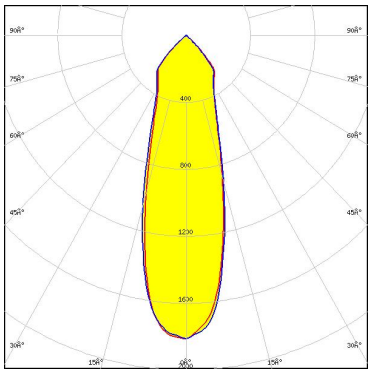
SAMSUNG

LED	LC020C G2
FWHM / FWTM	31.0° / 88.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F15859_HEKLA-SOCKET-I





Light distribution files

SAMSUNG

LED	LC020T (Tunable white)
FWHM / FWTM	38.0° / 86.0°
Efficiency	85 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

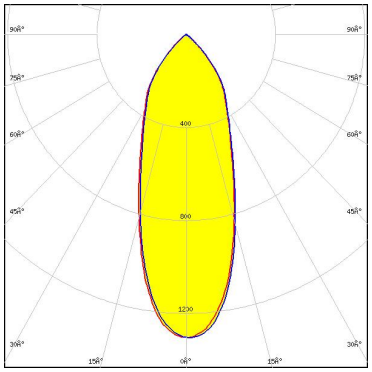
Required components:

C16142_HEKLA-SOCKET-K

C14658_BARBARA-RZ-LENS

Bender Wirth: 501 Typ L8





Light distribution files

SAMSUNG

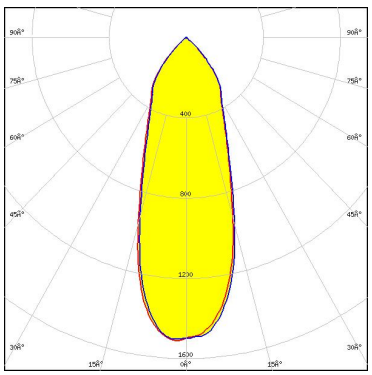
LED	LC020T (Tunable white)
FWHM / FWTM	36.0° / 87.0°
Efficiency	90 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White

Required components:

C16142_HEKLA-SOCKET-K

Bender Wirth: 501 Typ L8





Light distribution files

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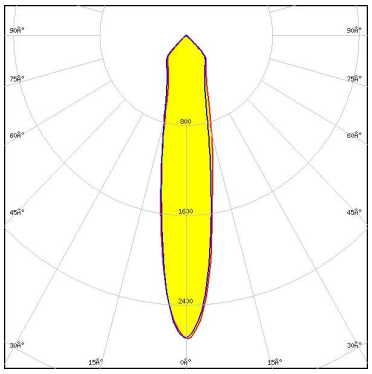
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	MJT COB LES 6
FWHM / FWTM	20.0° / 82.0°
Efficiency	93 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





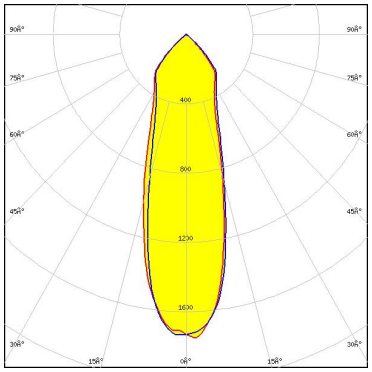
Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT COB LES 9.8
FWHM / FWTM	31.0° / 89.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C



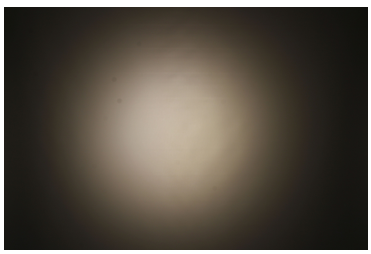


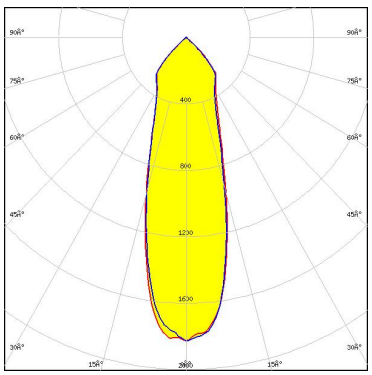
Light distribution files

TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	31.0° / 89.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C





Light distribution files

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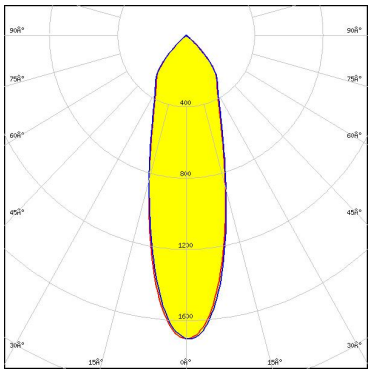
OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	SLE G7 LES09
FWHM / FWTM	30.0° / 87.0°
Efficiency	91 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- F15255_HEKLA-SOCKET-C
- C14658_BARBARA-RZ-LENS





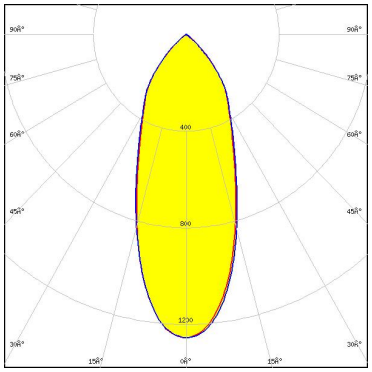
Light distribution files

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	40.0° / 90.0°
Efficiency	86 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- F15859_HEKLA-SOCKET-I
- C14658_BARBARA-RZ-LENS





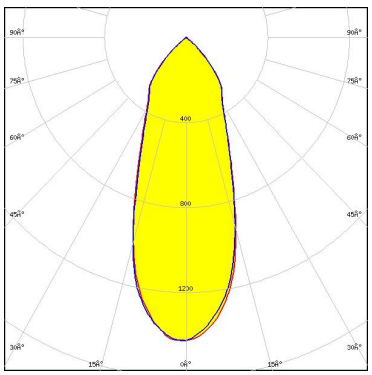
Light distribution files

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	39.0° / 91.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- F15859_HEKLA-SOCKET-I





Light distribution files

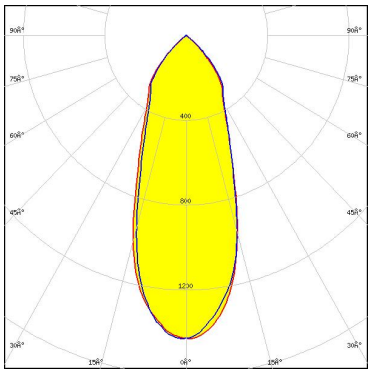
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	38.0° / 91.0°
Efficiency	93 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



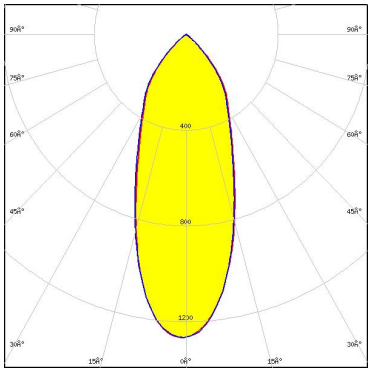


Light distribution files

TRIDONIC

LED	SLE G7 LES13
FWHM / FWTM	39.0° / 91.0°
Efficiency	87 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	
C14658_BARBARA-RZ-LENS	



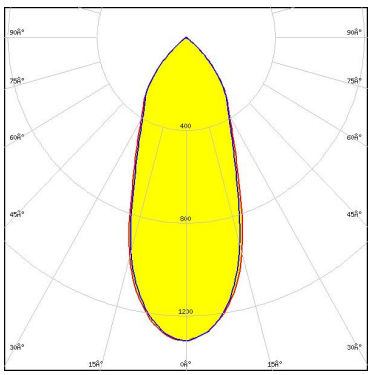


Light distribution files

TRIDONIC

LED	SLE G7 LES15
FWHM / FWTM	42.0° / 92.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	





Light distribution files

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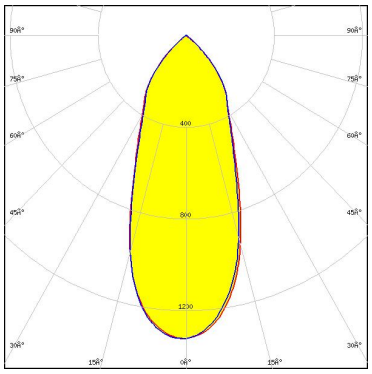
OPTICAL RESULTS (MEASURED):

XICATO

LED	XOB 14.5 mm
FWHM / FWTM	42.0° / 92.0°
Efficiency	94 %
Peak intensity	1.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15859_HEKLA-SOCKET-I





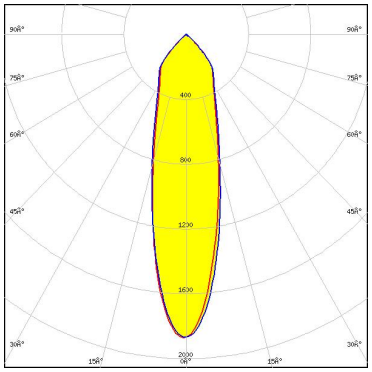
Light distribution files

XICATO

LED	XOB 6 mm
FWHM / FWTM	27.0° / 86.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C
C14658_BARBARA-RZ-LENS





Light distribution files

XICATO

LED	XOB 6 mm
FWHM / FWTM	25.0° / 87.0°
Efficiency	94 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F15255_HEKLA-SOCKET-C



Light distribution files

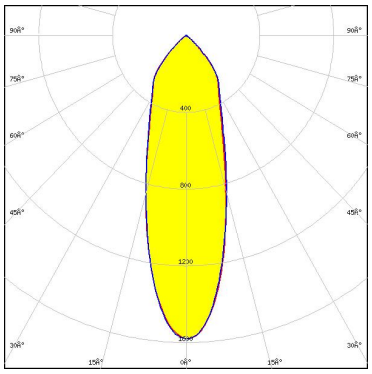
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

XICATO

LED	XOB 9.8 mm
FWHM / FWTM	32.0° / 89.0°
Efficiency	89 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- F15255_HEKLA-SOCKET-C
- C14658_BARBARA-RZ-LENS



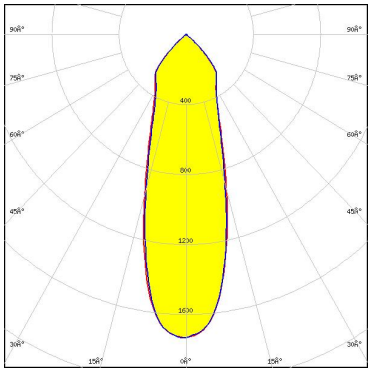
Light distribution files

XICATO

LED	XOB 9.8 mm
FWHM / FWTM	32.0° / 90.0°
Efficiency	94 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- F15255_HEKLA-SOCKET-C





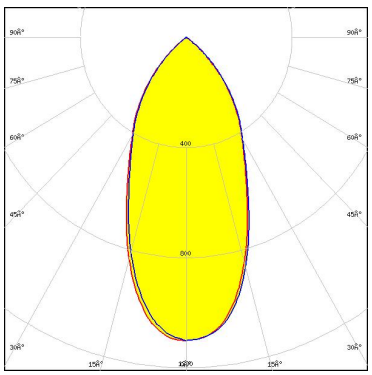
Light distribution files

XICATO

LED	XTM - 19mm LES
FWHM / FWTM	48.0° / 95.0°
Efficiency	91 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
- C15743_XTM-ADAPTER-50-B





Light distribution files

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

OPTICAL RESULTS (MEASURED):

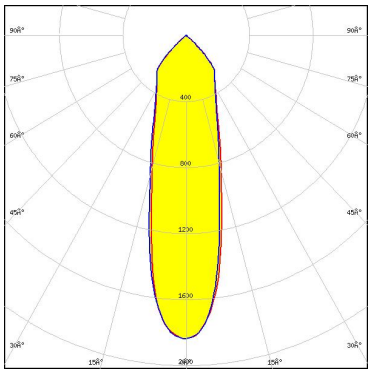
XICATO

LED	XTM - 9mm LES
FWHM / FWTM	28.0° / 90.0°
Efficiency	94 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C15743_XTM-ADAPTER-50-B





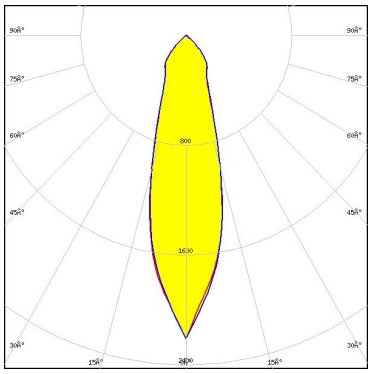
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

bridgelux

LED	V13 Gen6
FWHM / FWTM	28.0° / 80.0°
Efficiency	91 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F14988_HEKLA-SOCKET-E	



Light distribution files

bridgelux

LED	V8 Gen6
FWHM / FWTM	25.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	
F15253_HEKLA-SOCKET-A	

bridgelux

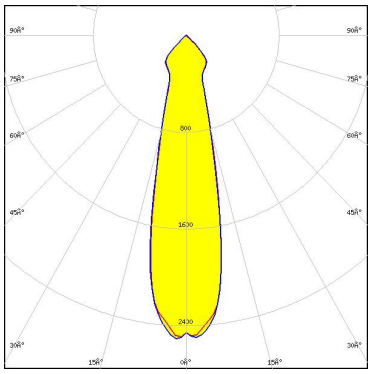
LED	V8 Gen6
FWHM / FWTM	25.0°
Efficiency	0 %
LEDs/each optic	1
Light colour/type	White
Required components:	
F15253_HEKLA-SOCKET-A	

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OPTICAL RESULTS (SIMULATED):

bridgelux

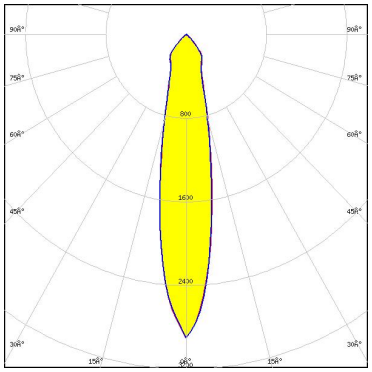
LED	V8 Gen7
FWHM / FWTM	24.0° / 83.0°
Efficiency	92 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15253_HEKLA-SOCKET-A	



Light distribution files

bridgelux

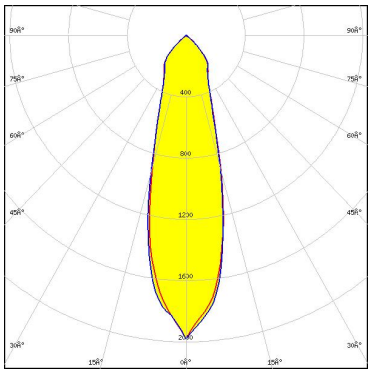
LED	VERO10
FWHM / FWTM	20.0° / 66.0°
Efficiency	86 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15616_HEKLA-SOCKET-F	
C14658_BARBARA-RZ-LENS	



Light distribution files

bridgelux

LED	Vesta TW 9mm (9W) DP
FWHM / FWTM	28.0° / 84.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	
C14658_BARBARA-RZ-LENS	



Light distribution files

Bender Wirth: 489 Typ L8

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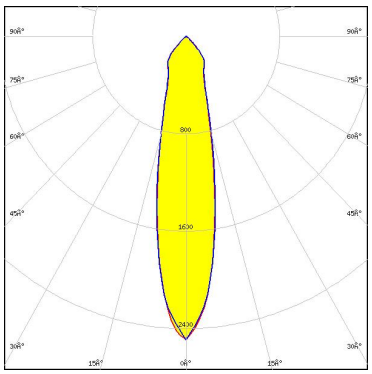
OPTICAL RESULTS (SIMULATED):

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	26.0° / 78.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	

CITIZEN

LED	CLU02x (LES10)
FWHM / FWTM	22.0° / 76.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	
C14658_BARBARA-RZ-LENS	



Light distribution files

CITIZEN

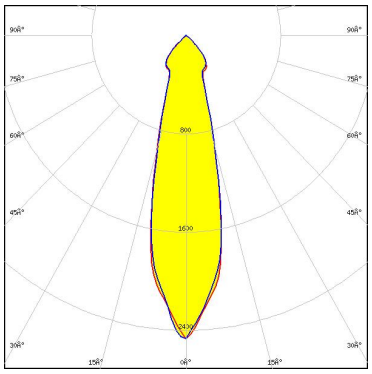
LED	CLU02x (LES10)
FWHM / FWTM	26.0°
Efficiency	0 %
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	

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

OPTICAL RESULTS (SIMULATED):

CITIZEN

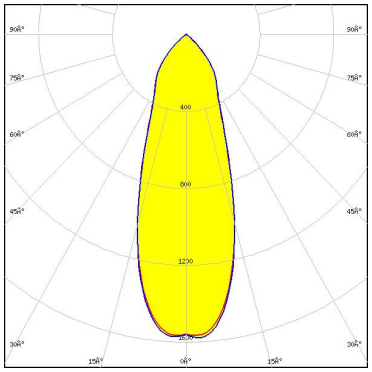
LED	CLU02x (LES10)
FWHM / FWTM	26.0° / 81.0°
Efficiency	92 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

CITIZEN

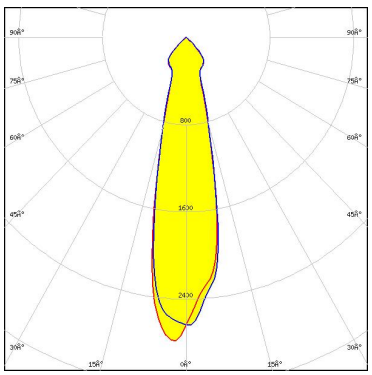
LED	CLU03x
FWHM / FWTM	36.0° / 87.0°
Efficiency	93 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



Light distribution files

CREE LEDs

LED	CXA/B 15xx
FWHM / FWTM	24.0° / 76.0°
Efficiency	91 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15256_HEKLA-SOCKET-D	



Light distribution files

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

OPTICAL RESULTS (SIMULATED):

LED	CXA/B 15xx
FWHM / FWTM	25.0°
Efficiency	0 %
LEDs/each optic	1
Light colour/type	White
Required components:	
F15256_HEKLA-SOCKET-D	

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	31.0°
Efficiency	0 %
LEDs/each optic	1
Light colour/type	White
Required components:	
F15254_HEKLA-SOCKET-B	

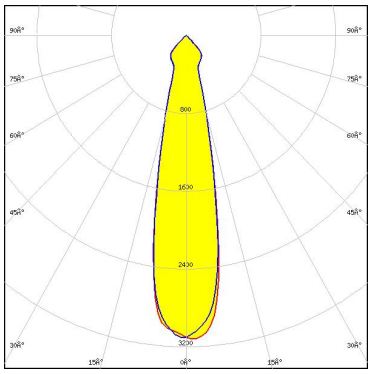
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	31.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	
F15254_HEKLA-SOCKET-B	

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OPTICAL RESULTS (SIMULATED):

LUMINUS

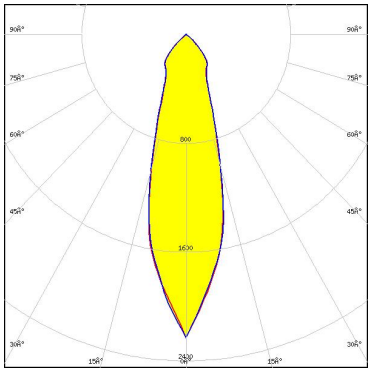
LED	CxM-6 (13.5x13.5)
FWHM / FWTM	22.0° / 56.0°
Efficiency	93 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F17435_HEKLA-G2-C	



Light distribution files

NICHIA

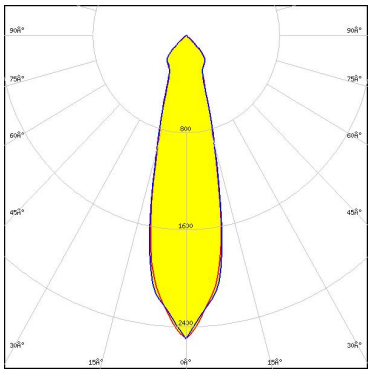
LED	COB L-Type (LES 11)
FWHM / FWTM	28.0° / 82.0°
Efficiency	93 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15858_HEKLA-SOCKET-H	



Light distribution files

NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	26.0° / 80.0°
Efficiency	93 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15858_HEKLA-SOCKET-H	



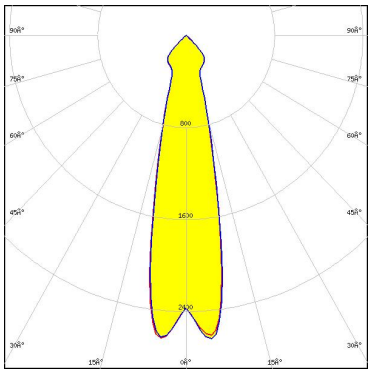
Light distribution files

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OPTICAL RESULTS (SIMULATED):

NICHIA

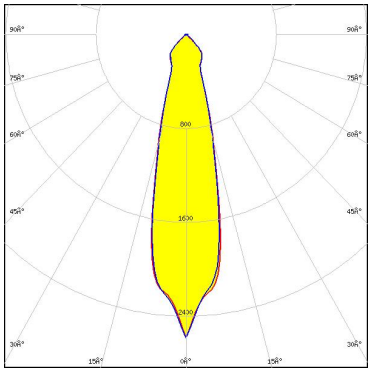
LED	COB T-Type
FWHM / FWTM	24.0° / 77.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15848_HEKLA-SOCKET-G	



Light distribution files

NICHIA

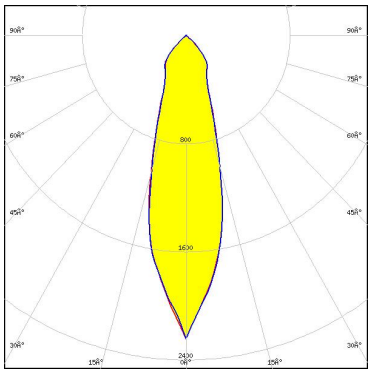
LED	NFSWE11A
FWHM / FWTM	24.0° / 64.0°
Efficiency	86 %
Peak intensity	2.6 cd/lm
LEDs/each optic	30
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	



Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	28.2° / 81.4°
Efficiency	93 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



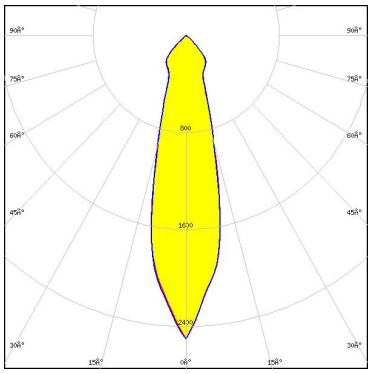
Light distribution files

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OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

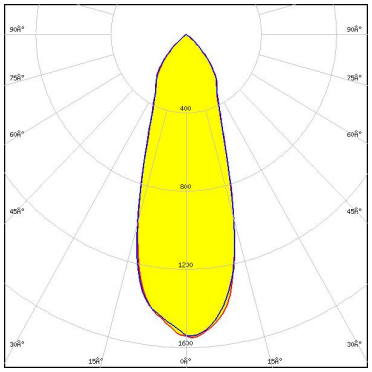
LED	Soleriq S9
FWHM / FWTM	25.7° / 80.8°
Efficiency	93 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15255_HEKLA-SOCKET-C	



Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	35.0° / 86.5°
Efficiency	88 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F15859_HEKLA-SOCKET-I	



Light distribution files

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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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LEDiL Oy
Joensuunkatu 7
FI-24100 SALO
Finland

LEDiL Inc.
228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.
405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support
www.ledil.com/
where_to_buy

Shipping locations
Poznan, Poland
Hong Kong, China

Distribution Partners
www.ledil.com/
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