LENINA-M

~30° medium beam



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	socket
ROHS compliant	yes

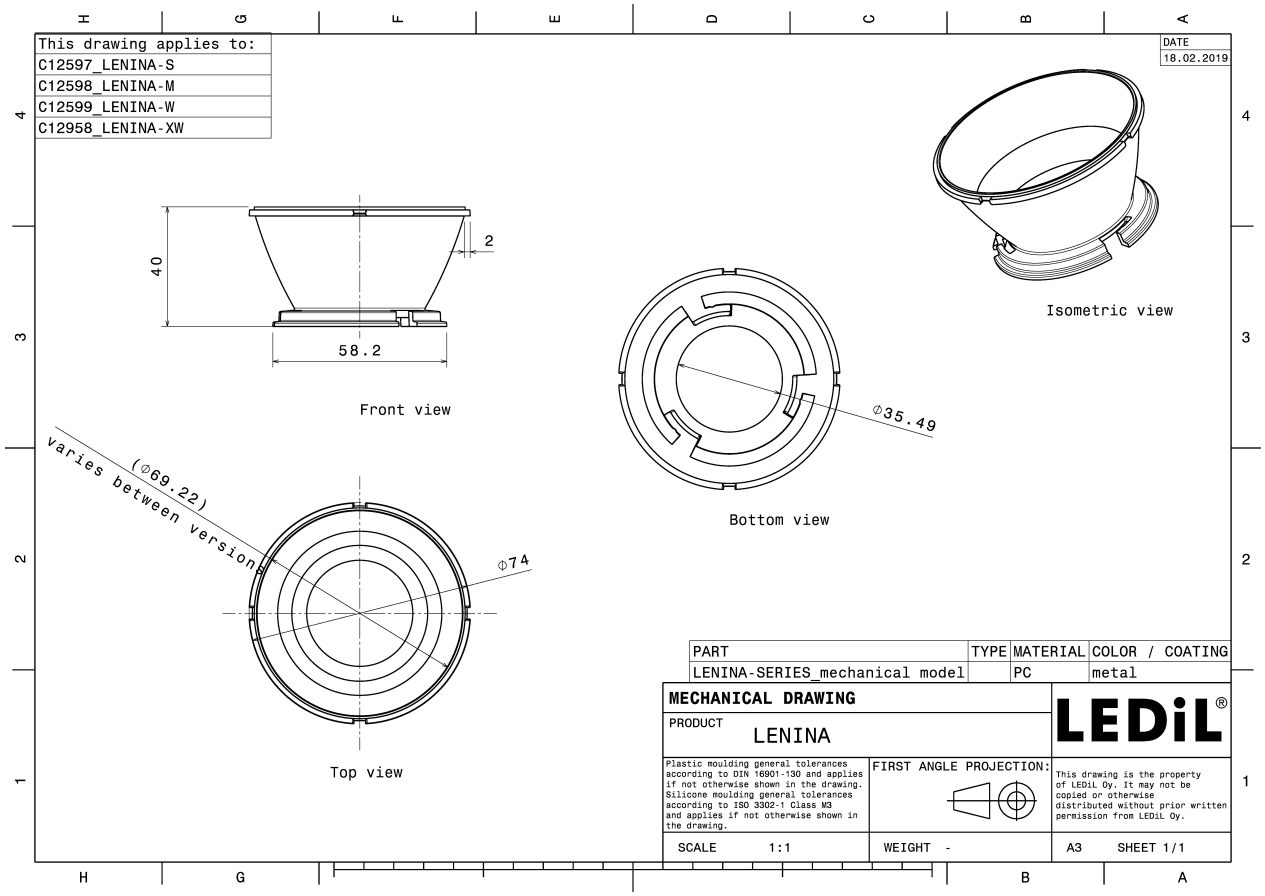
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish	Coating
LENINA-M	Reflector	PC	metal		lacquer

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12598_LENINA-M » Box size: 476 x 273 x 197 mm	60	120	60	2.0

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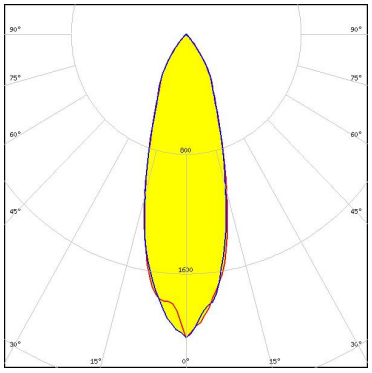
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	BXRA ES Rectangle
FWHM	36.0°
Efficiency	78 %
LEDs/each optic	1
Light colour	White

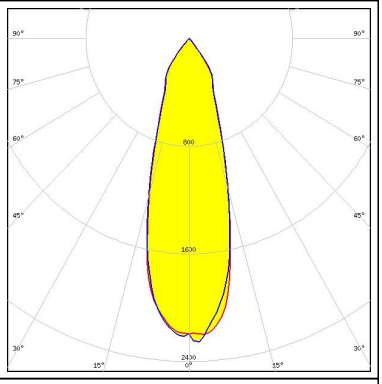
Required components:
- C12153_LENA-STD-BASE-BXRA
- C12606_LENINA-DL



bridgelux

LED	BXRA ES Rectangle
FWHM	29.0°
Efficiency	86 %
LEDs/each optic	1
Light colour	White

Required components:
- C12153_LENA-STD-BASE-BXRA



bridgelux

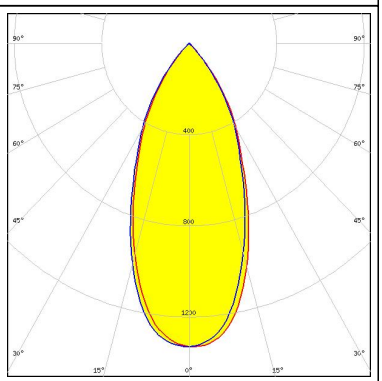
LED	BXRA RS
FWHM	47.0°
Efficiency	80 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12229_LENA-STD-BASE-RS
- C12606_LENINA-DL

bridgelux

LED	BXRA RS
FWHM	44.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12229_LENA-STD-BASE-RS



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PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	V10 Gen6
FWHM	21.0°
Efficiency	84 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13186_LENA-STD-BASE-CXA15
- C12606_LENINA-DL

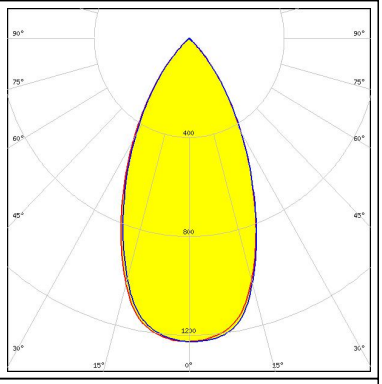


bridgelux

LED	Vero SE 29
FWHM	51.0°
Efficiency	92 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C15083_LENA-STD-BASE-VERO29

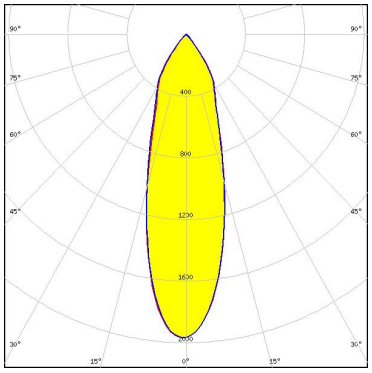




bridgelux

LED	VERO13
FWHM	31.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

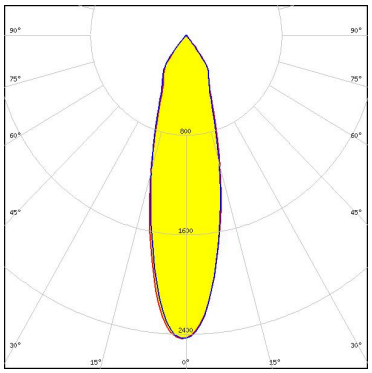
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL



bridgelux

LED	VERO13
FWHM	28.0°
Efficiency	91 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18



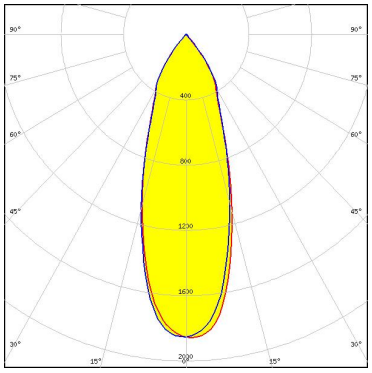
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PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	VERO18
FWHM	35.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

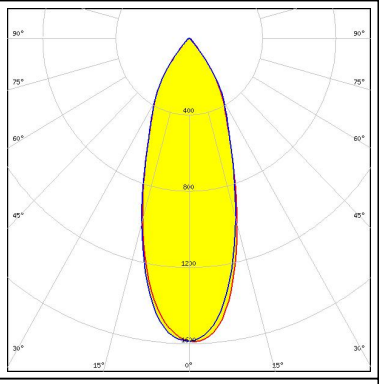
Required components:
C13868_LENA-STD-BASE-VERO13-18



bridgelux

LED	VERO18
FWHM	37.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

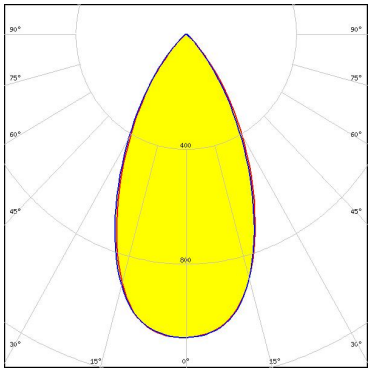
Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL



bridgelux

LED	VERO29
FWHM	52.0°
Efficiency	85 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

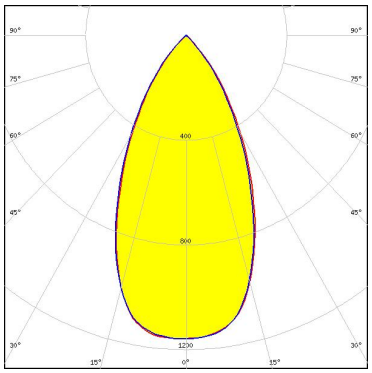
Required components:
C13867_LENA-STD-BASE-VERO29
C12606_LENINA-DL



bridgelux

LED	VERO29
FWHM	52.0°
Efficiency	89 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13867_LENA-STD-BASE-VERO29



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PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CL-L340
FWHM	35.0°
Efficiency	78 %
LEDs/each optic	1
Light colour	White

Required components:
- C11995_LENA-STD-BASE-CL340
- C12606_LENINA-DL

CITIZEN

LED	CL-L340
FWHM	30.0°
Efficiency	86 %
LEDs/each optic	1
Light colour	White

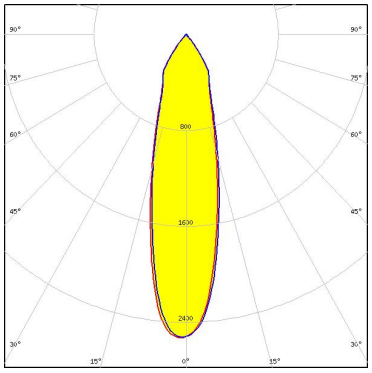
Required components:
- C11995_LENA-STD-BASE-CL340

CITIZEN

LED	CL-L340
FWHM	26.0°
Efficiency	92 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C11995_LENA-STD-BASE-CL340



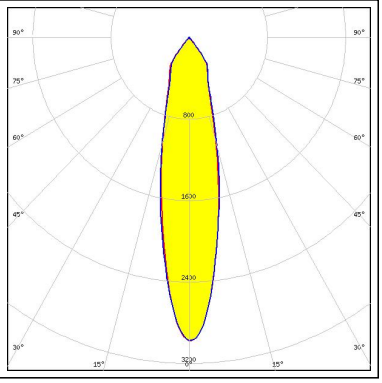


CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	23.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 434 Typ L1





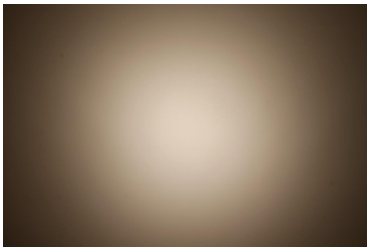
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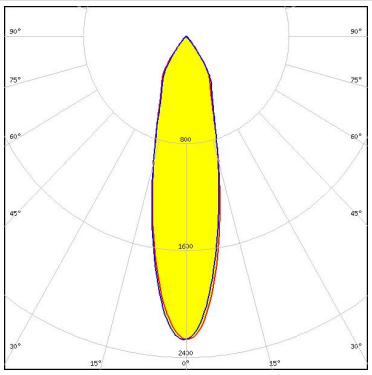
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 434 Typ L1



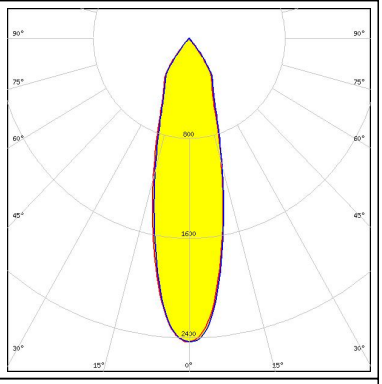


CITIZEN

LED	CLL03x/CLU03x
FWHM	28.0°
Efficiency	91 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030



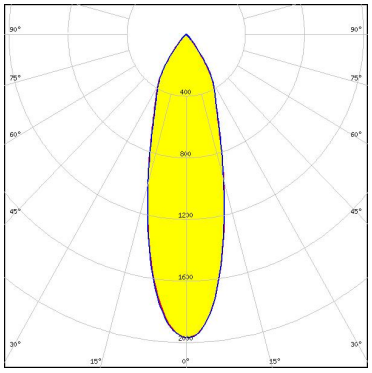


CITIZEN

LED	CLL03x/CLU03x
FWHM	30.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030
- C12606_LENINA-DL



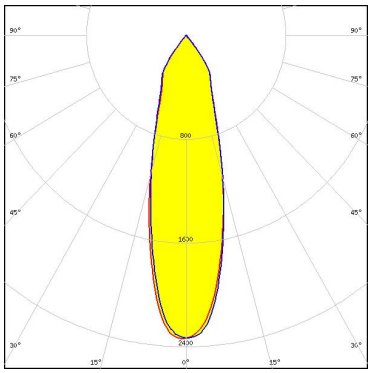


CITIZEN

LED	CLL03x/CLU03x
FWHM	29.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 433 Typ L1





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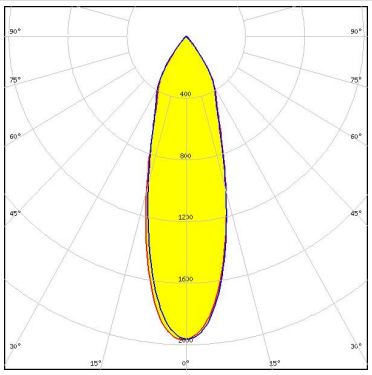
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM	31.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 433 Typ L1



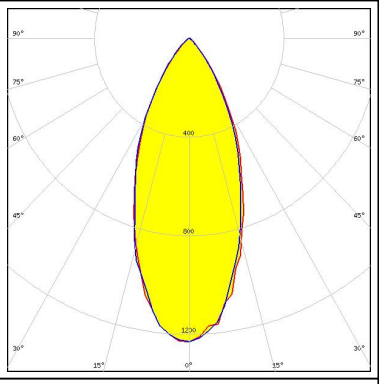


CITIZEN

LED	CLL04x/CLU04x
FWHM	43.0°
Efficiency	78 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040
- C12606_LENINA-DL



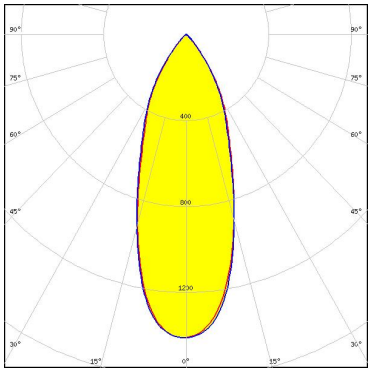


CITIZEN

LED	CLL04x/CLU04x
FWHM	38.0°
Efficiency	76 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12606_LENINA-DL
- A.A.G. STUCCHI: 8102/G2 + S-8000/12

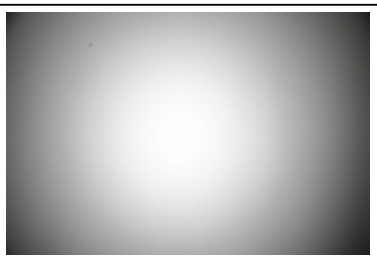


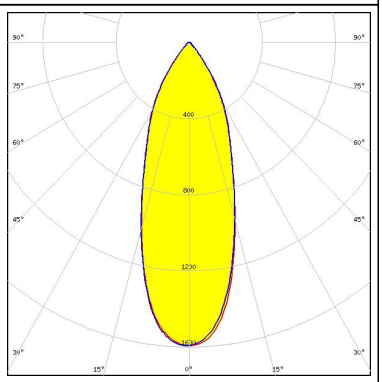


CITIZEN

LED	CLL04x/CLU04x
FWHM	37.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12606_LENINA-DL
- IDEAL: 50-2204CT + 50-2100LN





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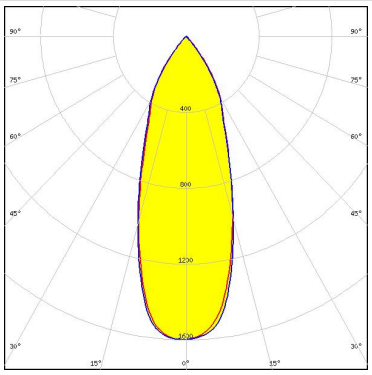
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL04x/CLU04x
FWHM	36.0°
Efficiency	83 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12

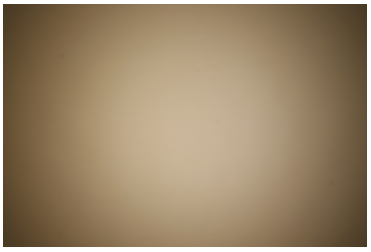


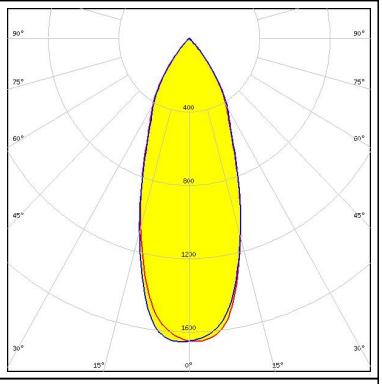


CITIZEN

LED	CLL04x/CLU04x
FWHM	39.0°
Efficiency	92 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3



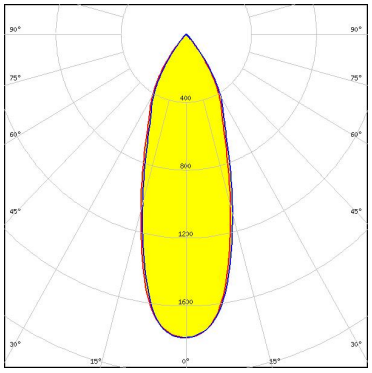


CITIZEN

LED	CLL04x/CLU04x
FWHM	35.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2204CT + 50-2100LN



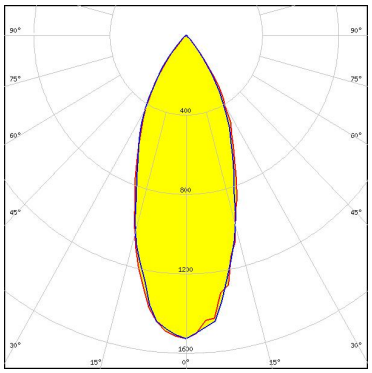


CITIZEN

LED	CLL04x/CLU04x
FWHM	40.0°
Efficiency	86 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040





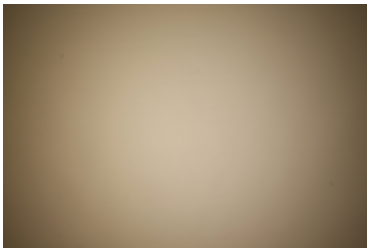
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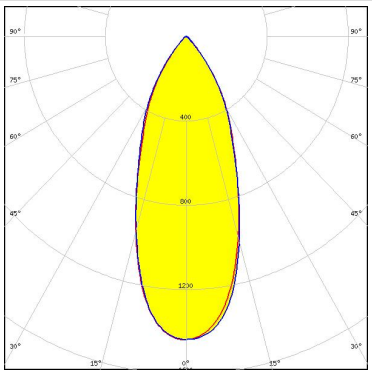
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL04x/CLU04x
FWHM	40.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 431 Typ L3



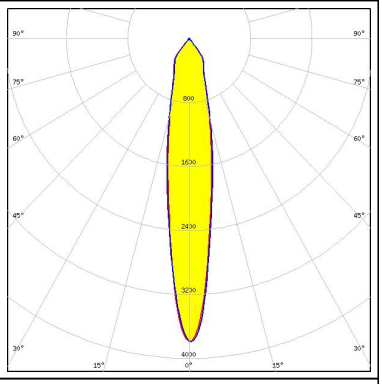


CITIZEN

LED	CLU700/701/702
FWHM	17.0°
Efficiency	91 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 434 Typ L1



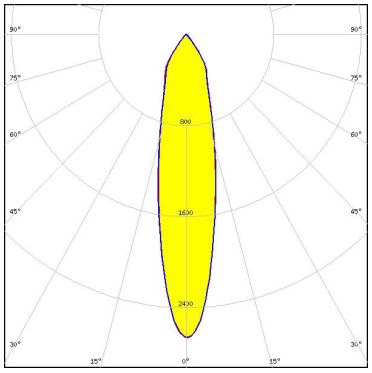


CITIZEN

LED	CLU700/701/702
FWHM	23.0°
Efficiency	87 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 434 Typ L1



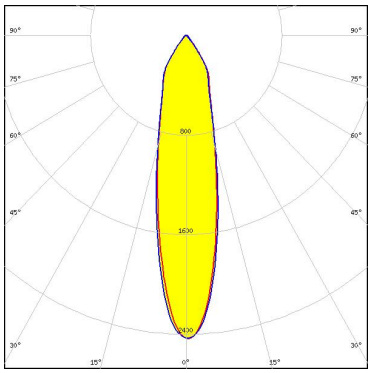


CITIZEN

LED	CLU710/711
FWHM	24.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030
- C12606_LENINA-DL





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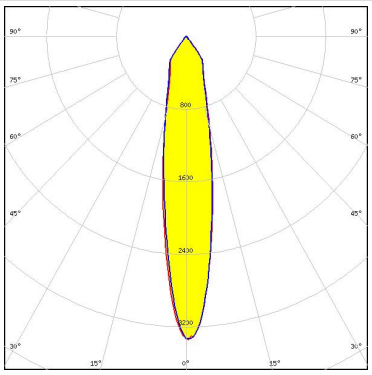
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU710/711
FWHM	19.0°
Efficiency	93 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12691_LENA-STD-BASE-CLL030

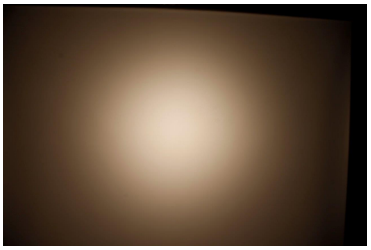


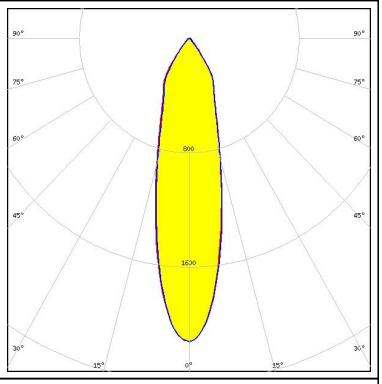


CITIZEN

LED	CLU720/721
FWHM	26.0°
Efficiency	84 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12691_LENA-STD-BASE-CLL030
C12606_LENINA-DL

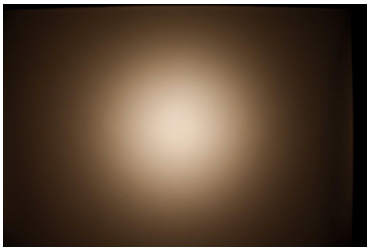


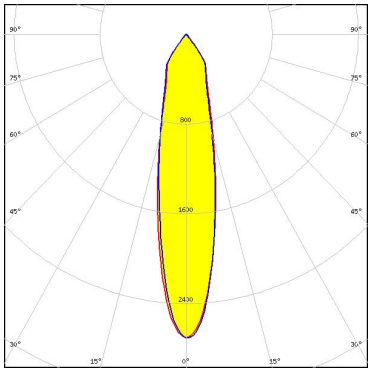


CITIZEN

LED	CLU720/721
FWHM	23.0°
Efficiency	88 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12691_LENA-STD-BASE-CLL030



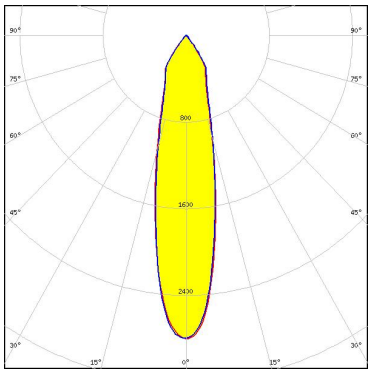


CITIZEN

LED	CLU730/731
FWHM	24.0°
Efficiency	94 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040





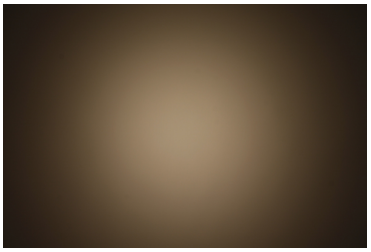
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

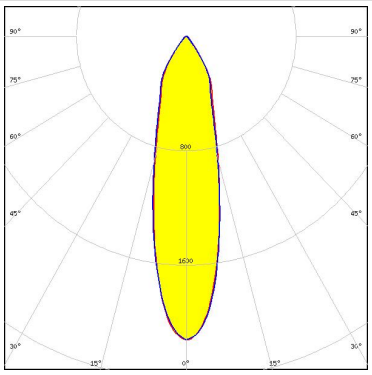
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU730/731
FWHM	26.0°
Efficiency	84 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL



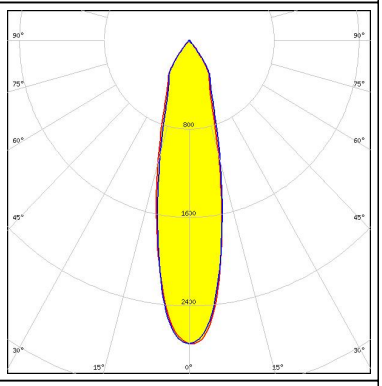


CREE

LED	CMA1840
FWHM	25.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14146_LENA-STD-BASE-CXA18



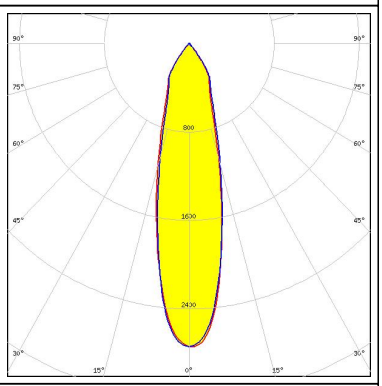


CREE

LED	CMA1840
FWHM	25.0°
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14146_LENA-STD-BASE-CXA18



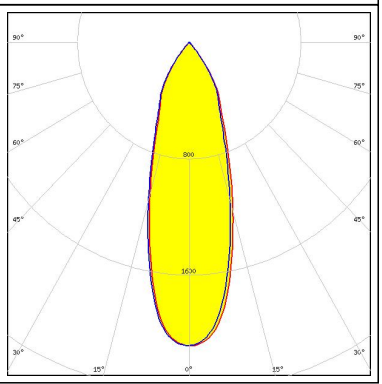


CREE

LED	CMA2550
FWHM	32.0°
Efficiency	92 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13324_LENA-STD-BASE-CXA25





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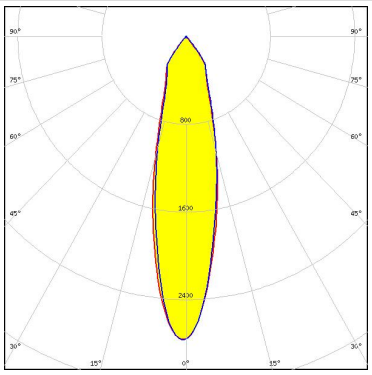
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CMT14xx
FWHM	25.0°
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1





CREE

LED	CMT19xx
FWHM	29.0°
Efficiency	92 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12691_LENA-STD-BASE-CLL030

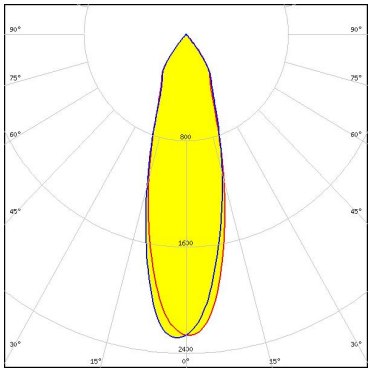


CREE

LED	CMT19xx
FWHM	30.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 477 Typ L1



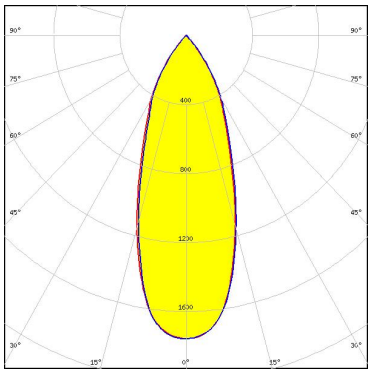


CREE

LED	CMT28xx
FWHM	37.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040





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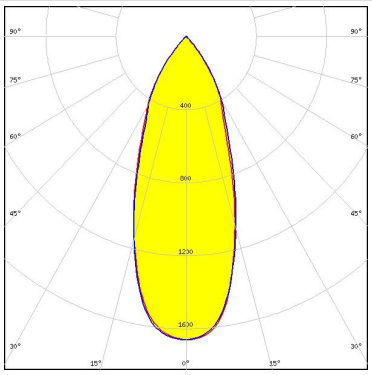
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CMT28xx
FWHM	39.0°
Efficiency	92 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 471 Typ L3



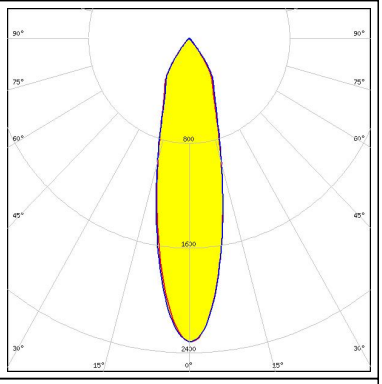


CREE

LED	CXA/B 15xx
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 441 Typ L1



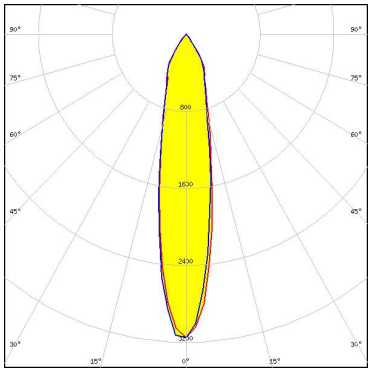


CREE

LED	CXA/B 15xx
FWHM	22.0°
Efficiency	86 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13186_LENA-STD-BASE-CXA15
- C12606_LENINA-DL

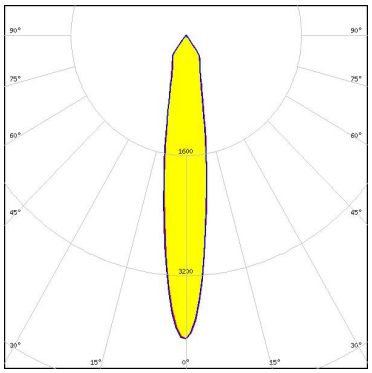




CREE

LED	CXA/B 15xx
FWHM	17.0°
Efficiency	91 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13186_LENA-STD-BASE-CXA15



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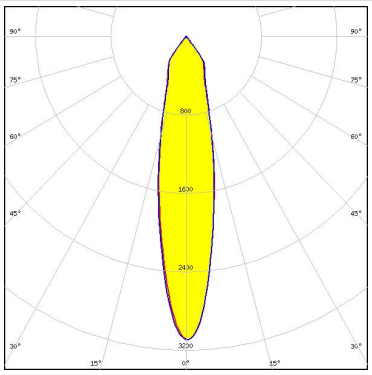
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 15xx
FWHM	22.0°
Efficiency	%
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 441 Typ L1

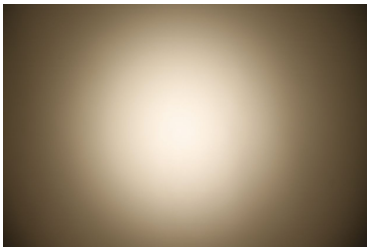


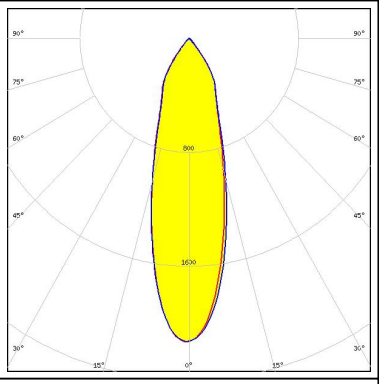


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	29.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 437 Typ L1



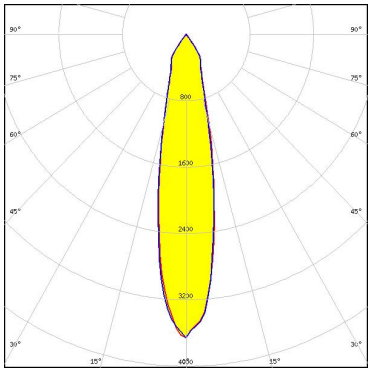


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	21.0°
Efficiency	92 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14146_LENA-STD-BASE-CXA18

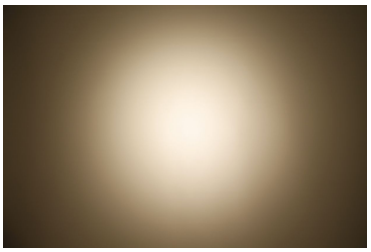


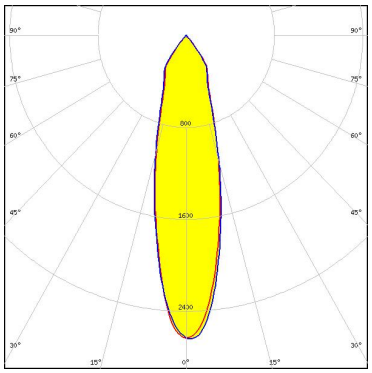


CREE

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM	26.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 437 Typ L1





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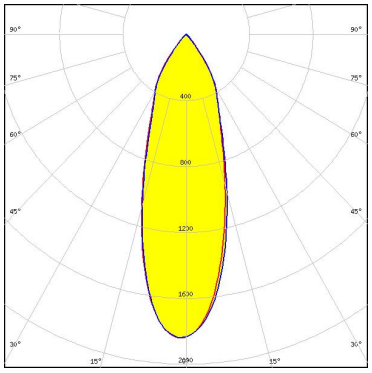
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 1830
FWHM	33.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 437 Typ L1



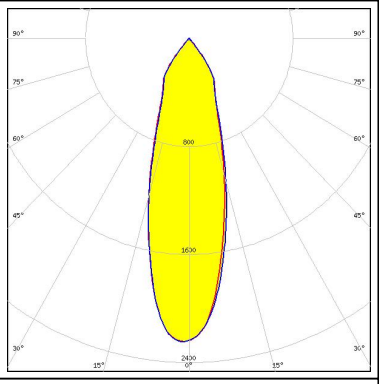


CREE

LED	CXA/B 1830
FWHM	30.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 437 Typ L1



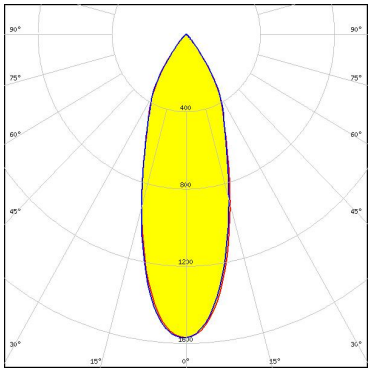


CREE

LED	CXA/B 25xx
FWHM	35.0°
Efficiency	78 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13324_LENA-STD-BASE-CXA25
- C12606_LENINA-DL



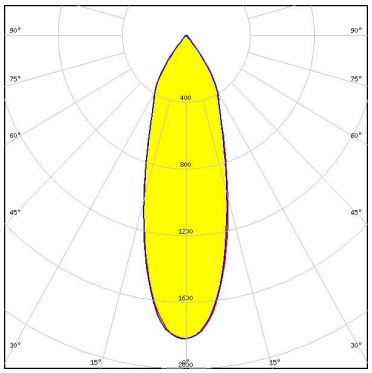


CREE

LED	CXA/B 25xx
FWHM	33.0°
Efficiency	86 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13324_LENA-STD-BASE-CXA25





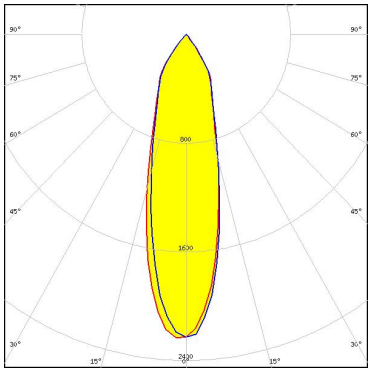
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PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA2011
FWHM	28.0°
Efficiency	85 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

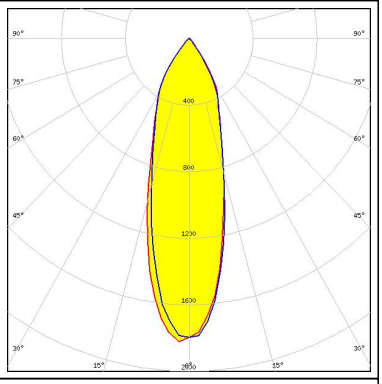
Required components:
- C12105_LENA-STD-BASE-CXA20



CREE

LED	CXA2011
FWHM	33.0°
Efficiency	77 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12105_LENA-STD-BASE-CXA20
- C12606_LENINA-DL



EVERLIGHT

LED	CHI3030 19W
FWHM	39.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

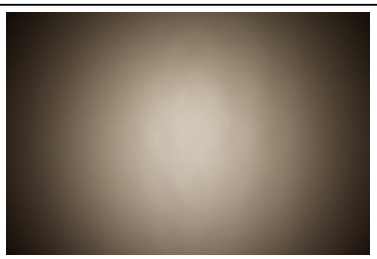
Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 468 Typ L3



EVERLIGHT

LED	CHI3030 29W
FWHM	47.0°
Efficiency	87 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 468 Typ L3



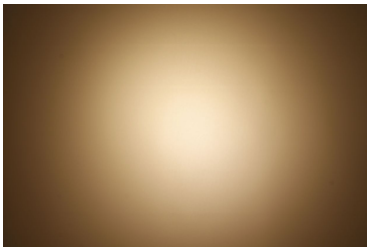
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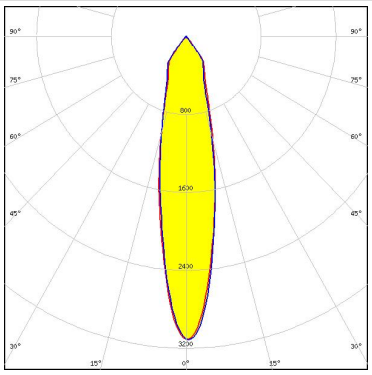
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	22.0°
Efficiency	92 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 438 Typ L1

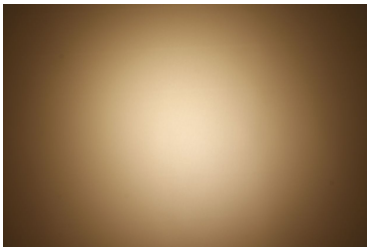


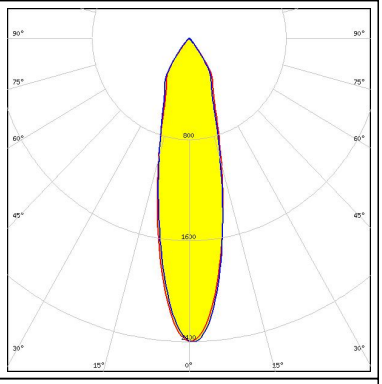


LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	26.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 438 Typ L1



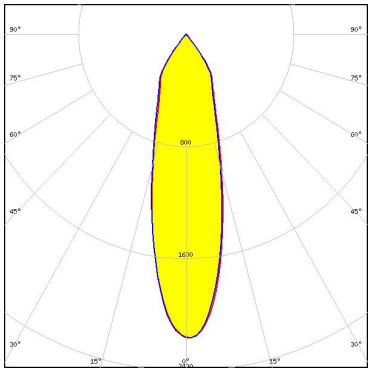


LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	28.0°
Efficiency	87 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12292_LENA-STD-BASE-MEZ



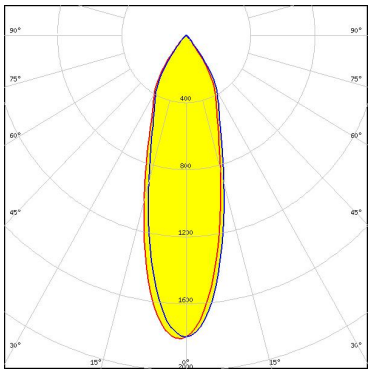


LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	30.0°
Efficiency	82 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12292_LENA-STD-BASE-MEZ
- C12606_LENINA-DL





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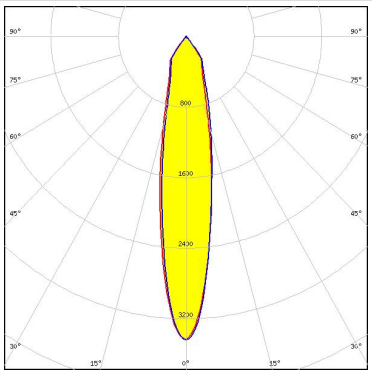
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1204HD
FWHM	20.0°
Efficiency	92 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C11981_LENA-STD-BASE-COB-L110



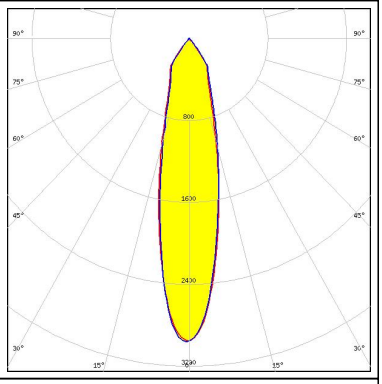


LUMILEDS

LED	LUXEON CoB 1205HD
FWHM	23.0°
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C11981_LENA-STD-BASE-COB-L110

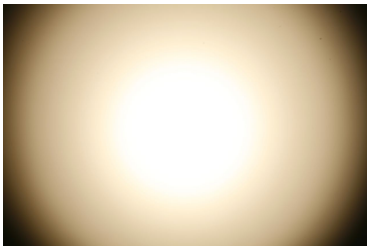


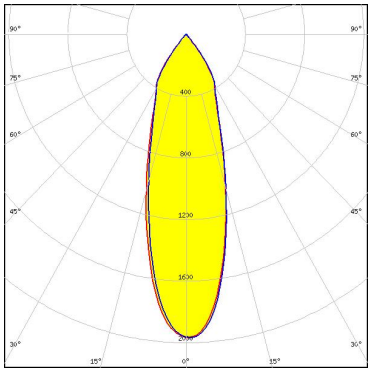


LUMILEDS

LED	LUXEON CoB 1208
FWHM	31.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ

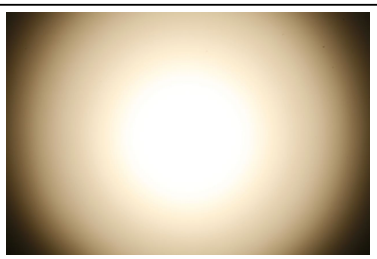


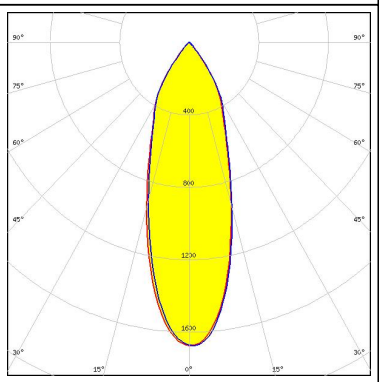


LUMILEDS

LED	LUXEON CoB 1208
FWHM	33.0°
Efficiency	83 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ
C12606_LENINA-DL





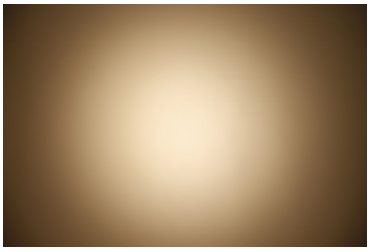
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

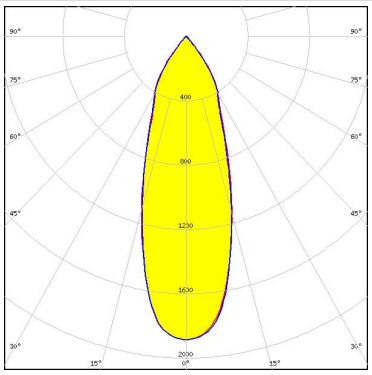
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1211
FWHM	35.0°
Efficiency	93 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 431 Typ L3



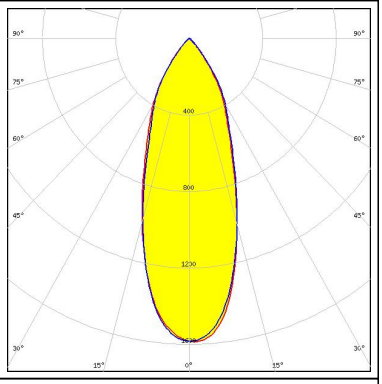


LUMILEDS

LED	LUXEON CoB 1211
FWHM	37.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 431 Typ L3



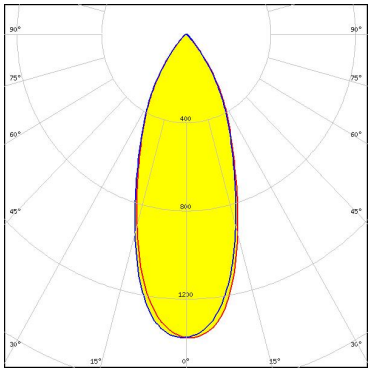


LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	39.0°
Efficiency	81 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12606_LENINA-DL
- A.A.G. STUCCHI: 8102/G2 + S-8000/12

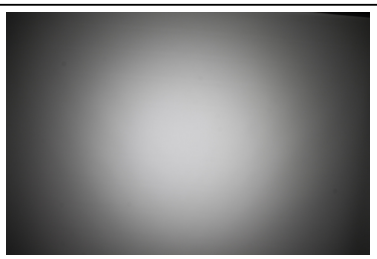


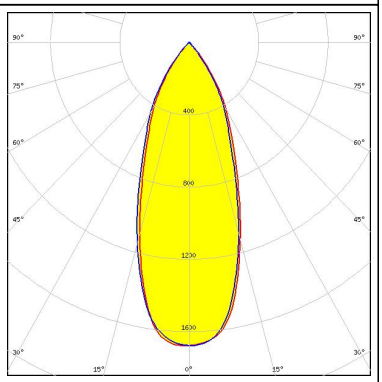


LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	39.0°
Efficiency	92 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040





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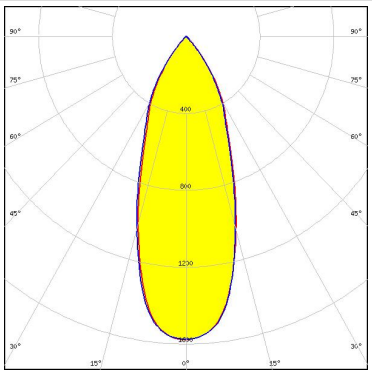
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	38.0°
Efficiency	85 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



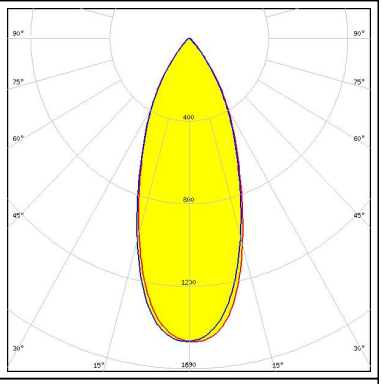


LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	40.0°
Efficiency	88 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL



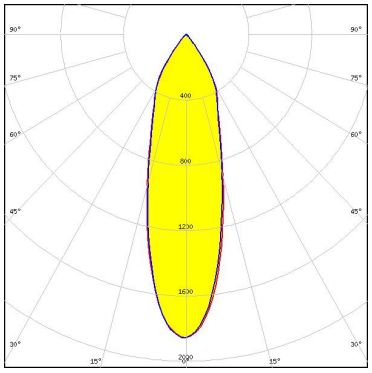


LUMILEDS

LED	LUXEON K12
FWHM	30.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12924_LENA-STD-BASE-LUXEON-K
C12606_LENINA-DL



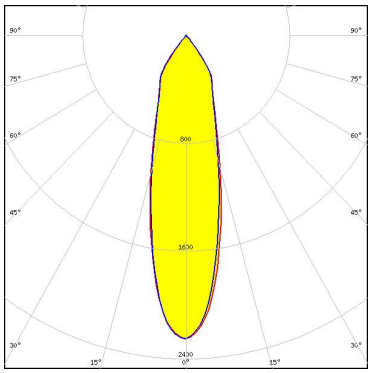


LUMILEDS

LED	LUXEON K12
FWHM	28.0°
Efficiency	89 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12924_LENA-STD-BASE-LUXEON-K





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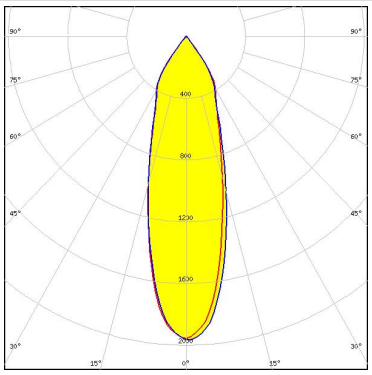
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON K16
FWHM	30.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12924_LENA-STD-BASE-LUXEON-K



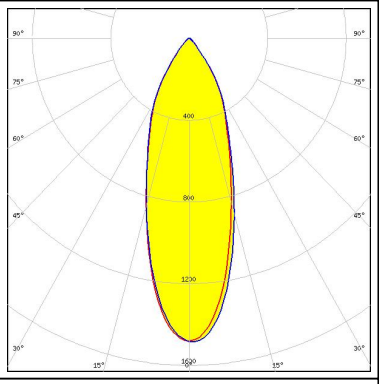


LUMILEDS

LED	LUXEON K16
FWHM	34.0°
Efficiency	79 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12924_LENA-STD-BASE-LUXEON-K
C12606_LENINA-DL



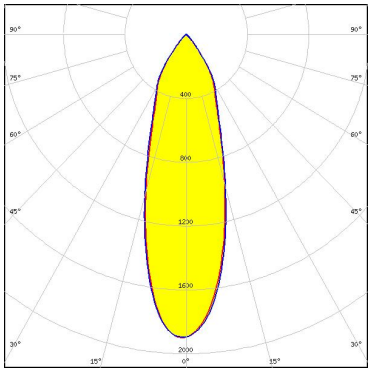


LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	31.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2

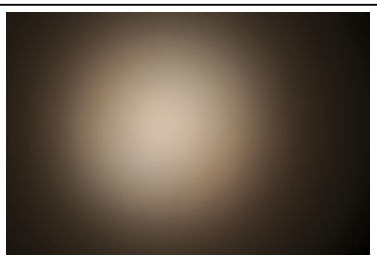


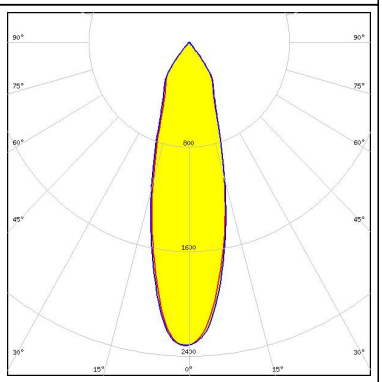


LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	29.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 491 Typ L2





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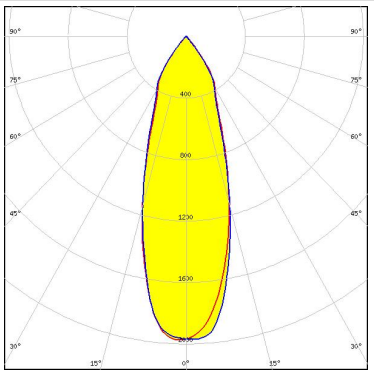
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	34.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 491 Typ L2



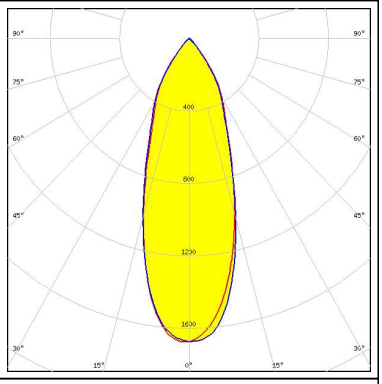


LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	36.0°
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 491 Typ L2



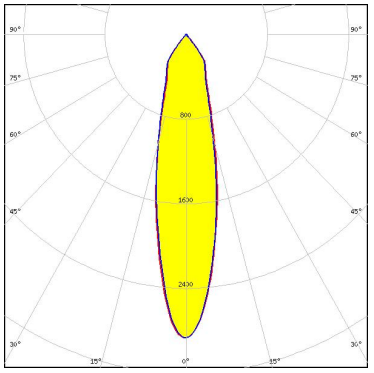


LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	24.0°
Efficiency	92 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 490 Typ L1



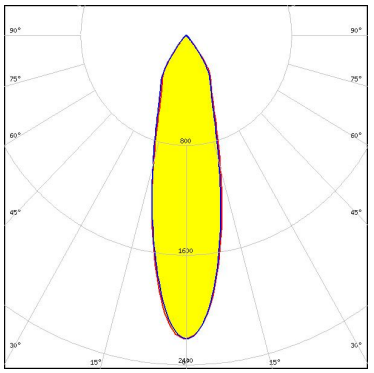


LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	27.0°
Efficiency	87 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 490 Typ L1





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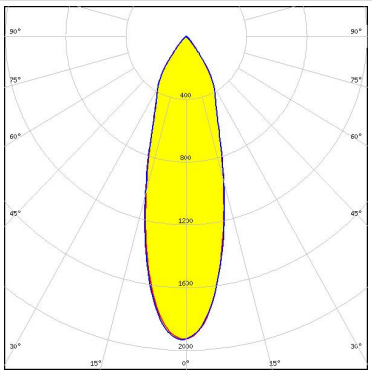
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CTM-14 (Tunable White)
FWHM	31.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 442 Typ L3



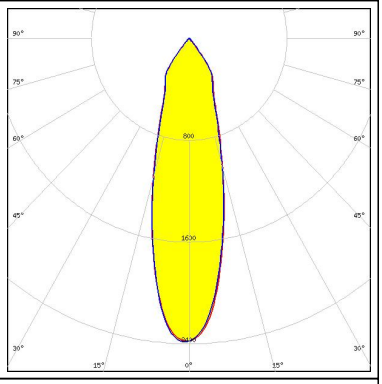


LUMINUS

LED	CTM-14 (Tunable White)
FWHM	28.0°
Efficiency	92 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 442 Typ L3



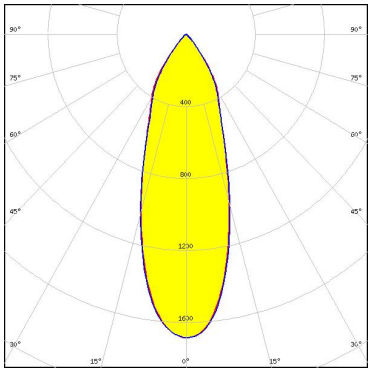


LUMINUS

LED	CTM-18 (Tunable White)
FWHM	34.0°
Efficiency	87 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 442 Typ L3

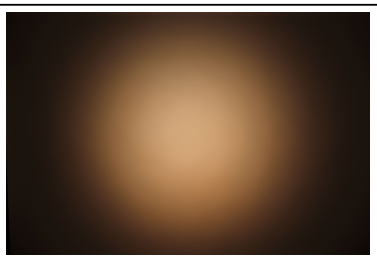


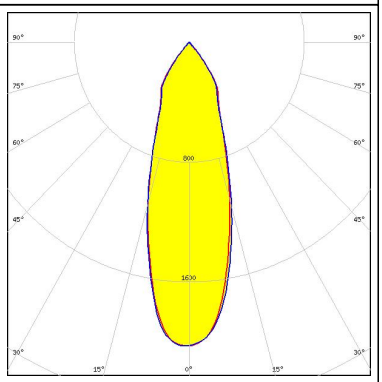


LUMINUS

LED	CTM-18 (Tunable White)
FWHM	32.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 442 Typ L3





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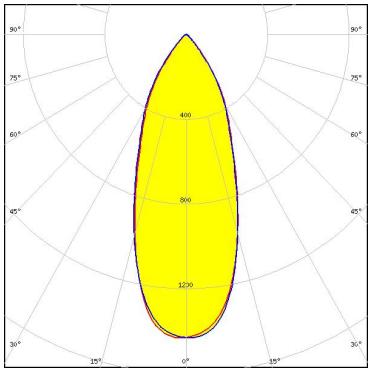
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CTM-22 (Tunable White)
FWHM	40.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 494 Typ L3



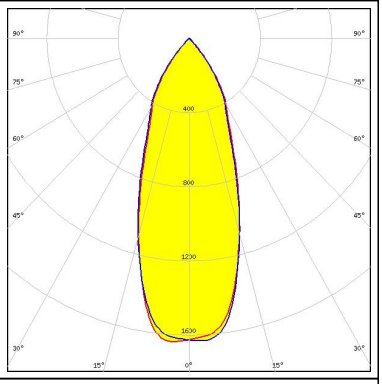


LUMINUS

LED	CTM-22 (Tunable White)
FWHM	39.0°
Efficiency	92 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 494 Typ L3



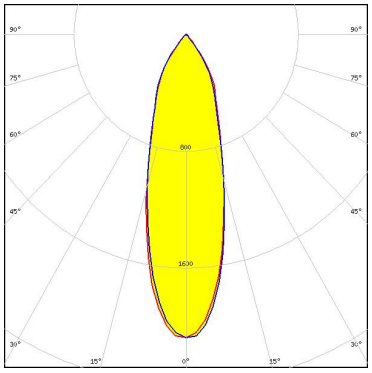


LUMINUS

LED	CxM-14 (19x19)
FWHM	31.0°
Efficiency	89 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030
- C12606_LENINA-DL



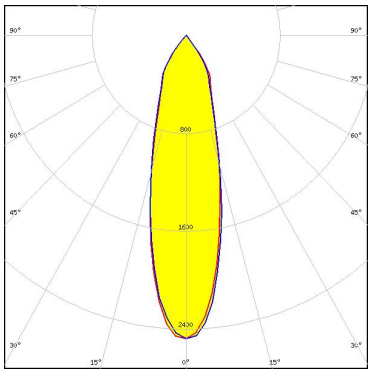


LUMINUS

LED	CxM-14 (19x19)
FWHM	28.0°
Efficiency	93 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030





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PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CxM-22 (28x28)
FWHM	39.0°
Efficiency	92 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040



LUMINUS

LED	CxM-22 (28x28)
FWHM	40.0°
Efficiency	89 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL

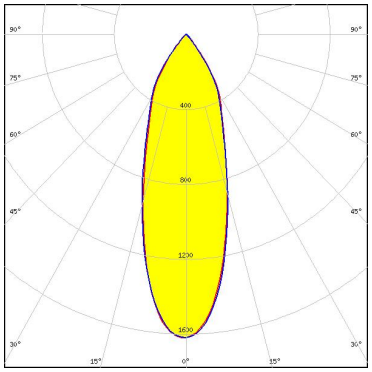


NICHIA

LED	COB J-Type
FWHM	33.0°
Efficiency	81 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ
C12606_LENINA-DL

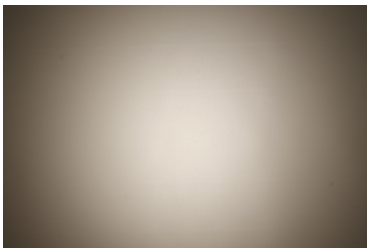


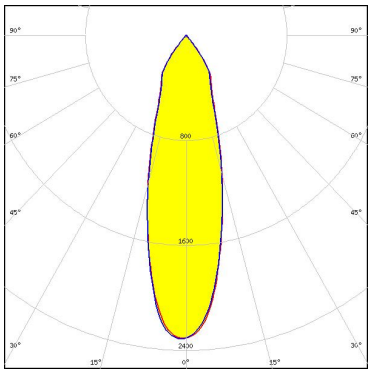


NICHIA

LED	COB J-Type
FWHM	29.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 463 Typ L2





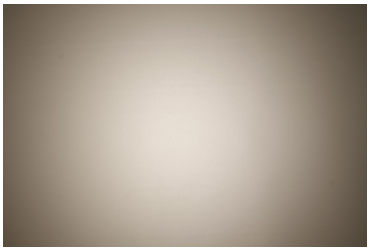
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

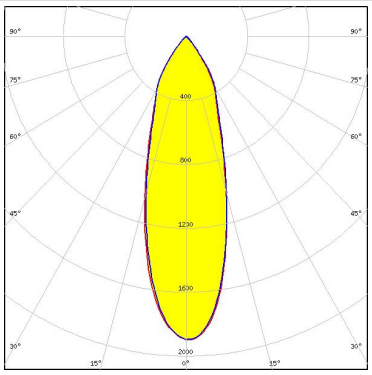
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB J-Type
FWHM	32.0°
Efficiency	89 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL

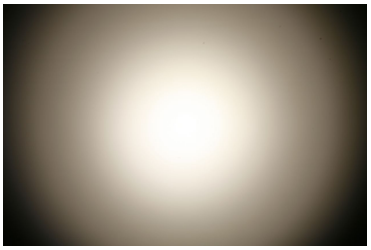


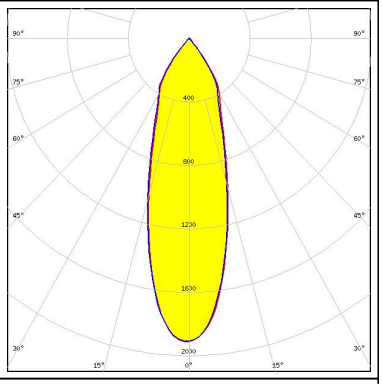


NICHIA

LED	COB J-Type
FWHM	31.0°
Efficiency	86 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12292_LENA-STD-BASE-MEZ

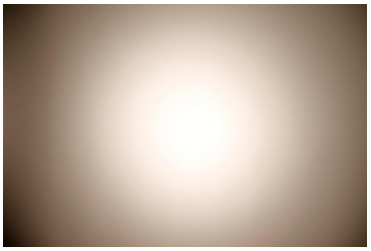


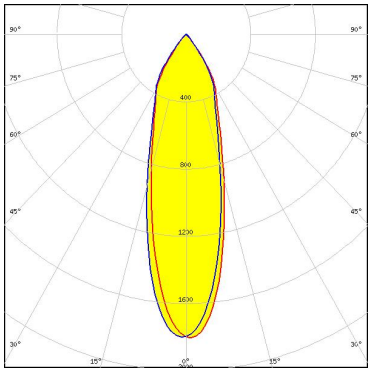


NICHIA

LED	COB L-Type (LES 11)
FWHM	29.0°
Efficiency	79 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C11981_LENA-STD-BASE-COB-L110
- C12606_LENINA-DL



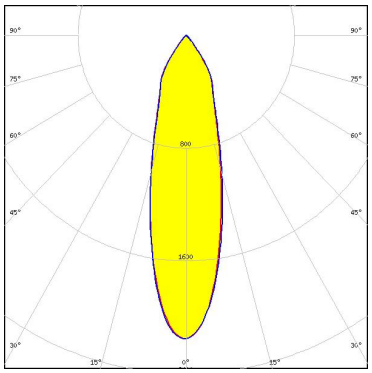


NICHIA

LED	COB L-Type (LES 11)
FWHM	28.0°
Efficiency	87 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 438 Typ L1





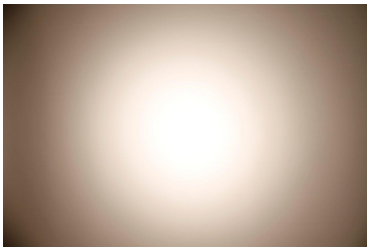
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

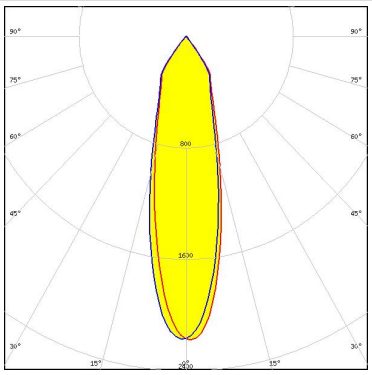
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM	27.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C11981_LENA-STD-BASE-COB-L110



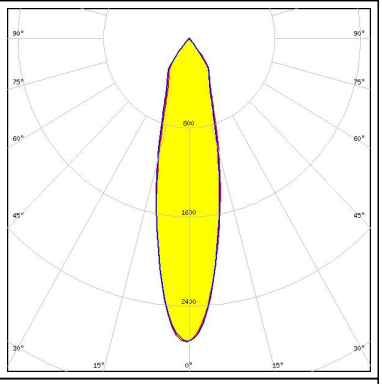


NICHIA

LED	COB L-Type (LES 11)
FWHM	25.0°
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 438 Typ L1

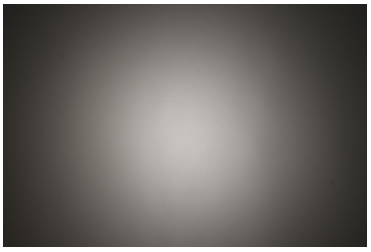


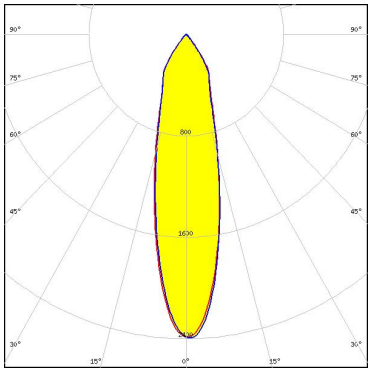


NICHIA

LED	COB L-Type (LES 9)
FWHM	26.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 438 Typ L1



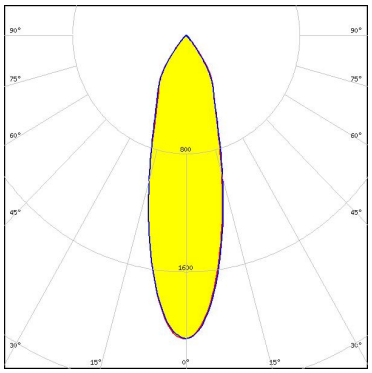


NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable Whit
FWHM	29.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 498 Typ L2





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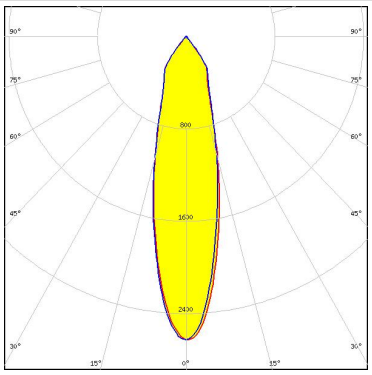
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM	26.0°
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 498 Typ L2



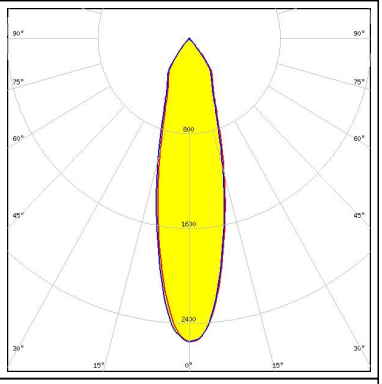


OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	27.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 437 Typ L1

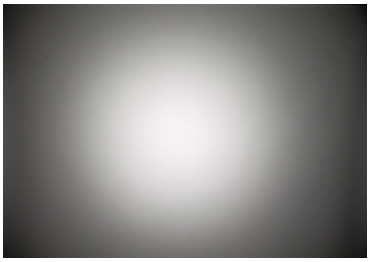


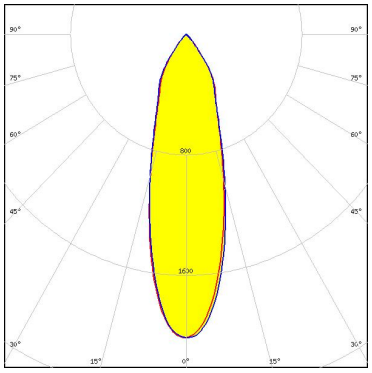


OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	30.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 437 Typ L1



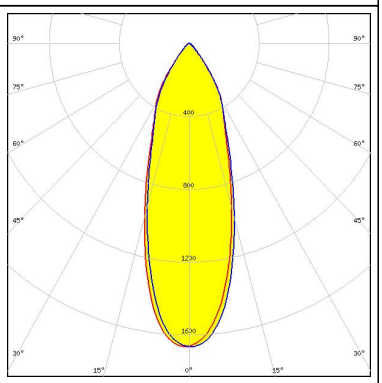


OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	34.0°
Efficiency	89 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 462 Typ L3





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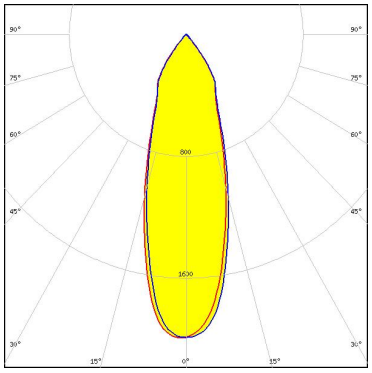
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	32.0°
Efficiency	93 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 462 Typ L3





PHILIPS

LED	Fortimo SLM L13 CoB
FWHM	30.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ
C12606_LENINA-DL



PHILIPS

LED	Fortimo SLM L13 CoB
FWHM	27.0°
Efficiency	93 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ

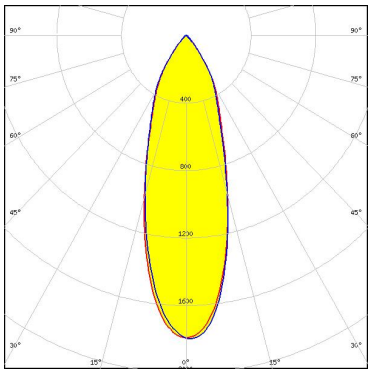


PHILIPS

LED	Fortimo SLM L15 CoB
FWHM	32.0°
Efficiency	86 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ
C12606_LENINA-DL





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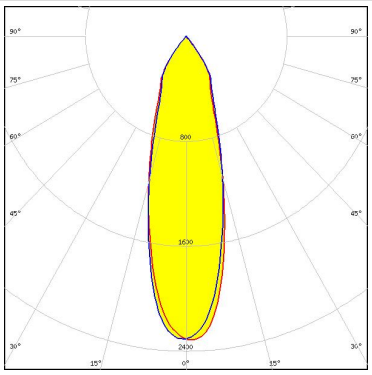
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L15 CoB
FWHM	29.0°
Efficiency	%
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12292_LENA-STD-BASE-MEZ



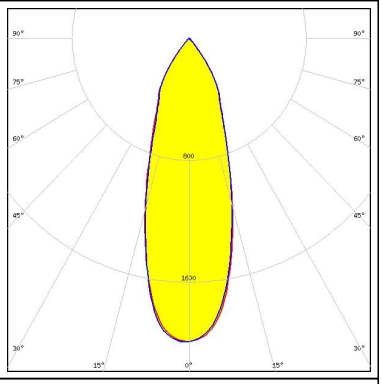


PHILIPS

LED	Fortimo SLM L19 CoB
FWHM	33.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040



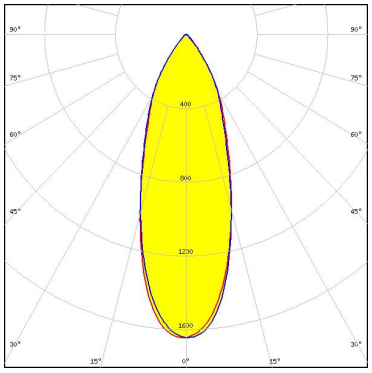


PHILIPS

LED	Fortimo SLM L19 CoB
FWHM	35.0°
Efficiency	86 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL

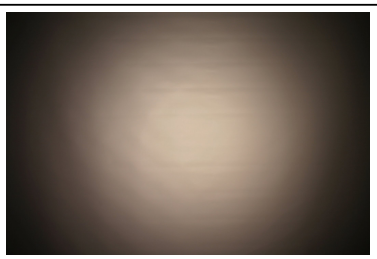


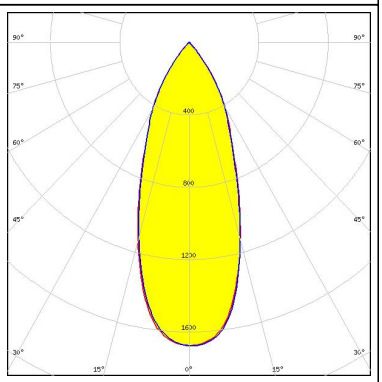


PHILIPS

LED	Fortimo SLM L23 CoB
FWHM	39.0°
Efficiency	92 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12692_LENA-STD-BASE-CLL040





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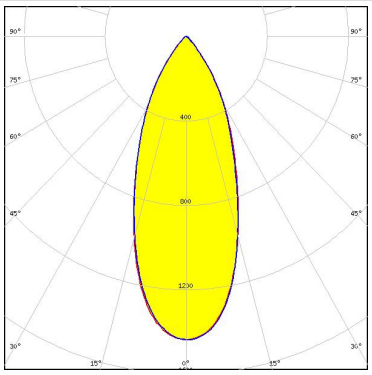
PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L23 CoB
FWHM	40.0°
Efficiency	86 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040
- C12606_LENINA-DL



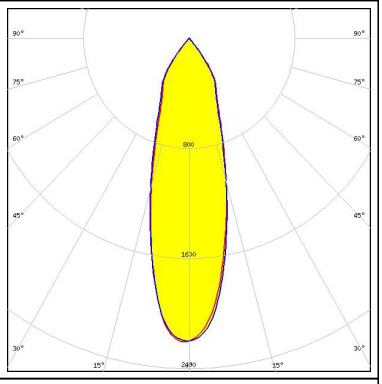


SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM	30.0°
Efficiency	92 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030

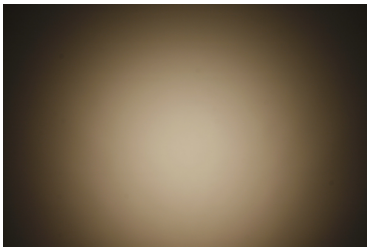


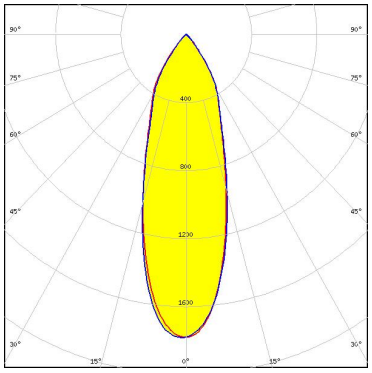


SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM	33.0°
Efficiency	87 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030
- C12606_LENINA-DL



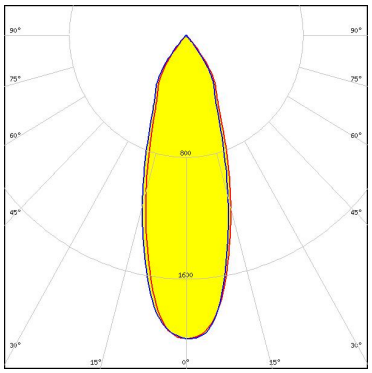


SAMSUNG

LED	LC026B / 033B / 040B
FWHM	33.0°
Efficiency	92 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 450 Typ L2





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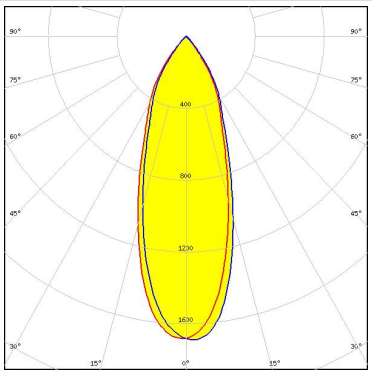
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LC026B / 033B / 040B
FWHM	35.0°
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 450 Typ L2



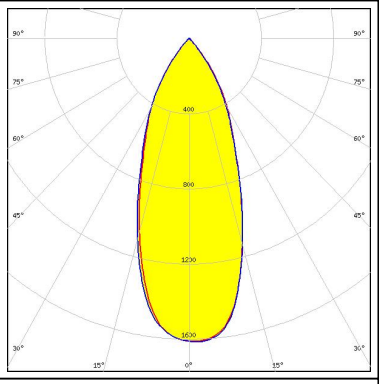


SAMSUNG

LED	LC040D / LC060D / LC080D
FWHM	40.0°
Efficiency	91 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040



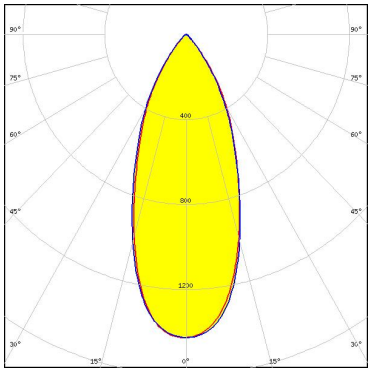


SAMSUNG

LED	LC040D / LC060D / LC080D
FWHM	41.0°
Efficiency	87 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040
- C12606_LENINA-DL



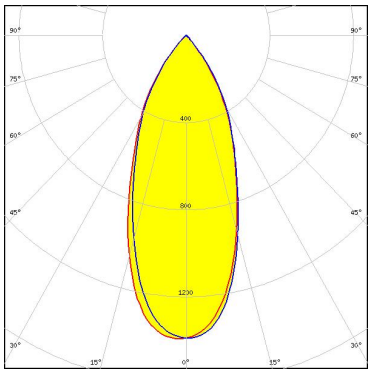


SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM	42.0°
Efficiency	85 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040





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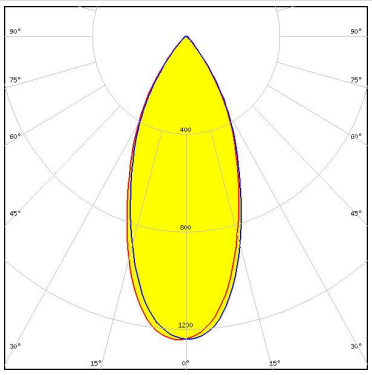
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM	44.0°
Efficiency	81 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12692_LENA-STD-BASE-CLL040
- C12606_LENINA-DL





SHARP

LED	Mega Zenigata (GW5DGC)
FWHM	22.0°
Efficiency	78 %
LEDs/each optic	1
Light colour	White

Required components:
- C12292_LENA-STD-BASE-MEZ
- C12606_LENINA-DL

SHARP

LED	Mega Zenigata (GW5DGC)
FWHM	21.0°
Efficiency	86 %
LEDs/each optic	1
Light colour	White

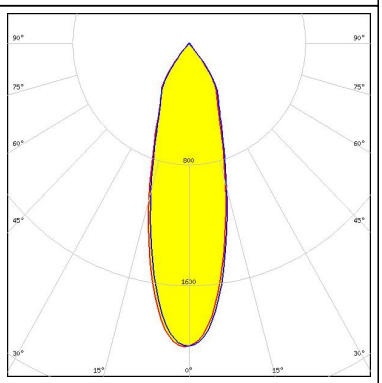
Required components:
- C12292_LENA-STD-BASE-MEZ

SHARP

LED	Mega Zenigata (GW6DME)
FWHM	30.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12292_LENA-STD-BASE-MEZ





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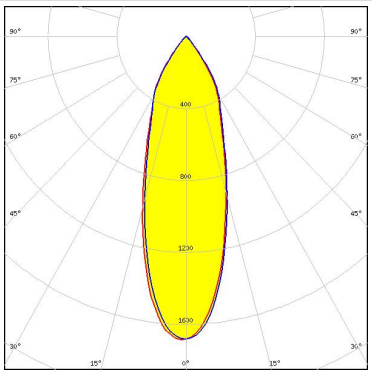
PHOTOMETRIC DATA (MEASURED):

SHARP

LED	Mega Zenigata (GW6DME)
FWHM	32.0°
Efficiency	82 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12292_LENA-STD-BASE-MEZ
- C12606_LENINA-DL



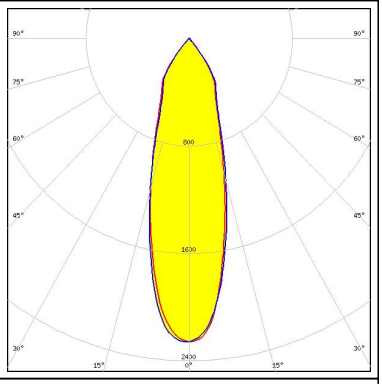


TRIDONIC

LED	SLE G7 LES15
FWHM	30.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030



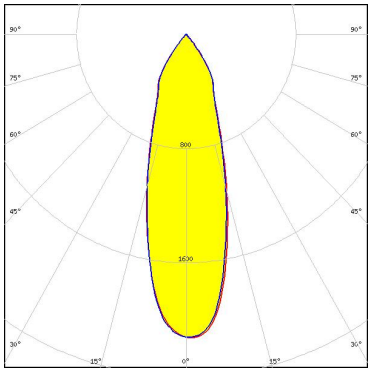


TRIDONIC

LED	SLE G7 LES17 H
FWHM	31.0°
Efficiency	91 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C14547_LENA-ADAPTER-B



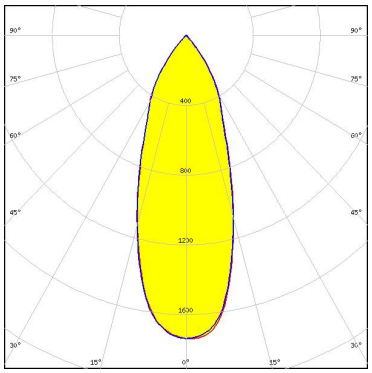


TRIDONIC

LED	SLE G7 LES21 H
FWHM	37.0°
Efficiency	91 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C14547_LENA-ADAPTER-B





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PHOTOMETRIC DATA (MEASURED):

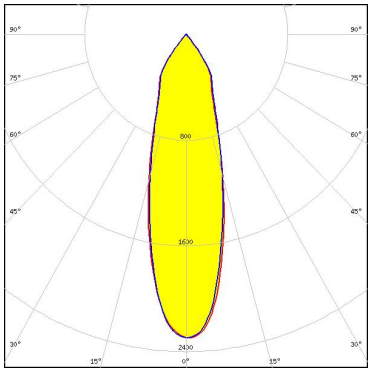
XICATO

LED	XOB 14.5 mm
FWHM	29.0°
Efficiency	93 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C12691_LENA-STD-BASE-CLL030





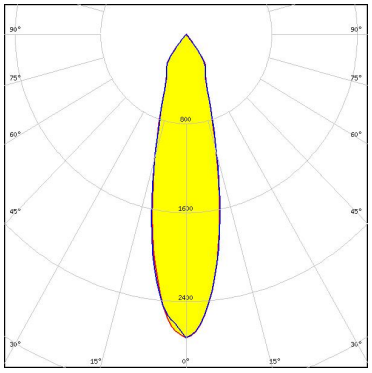
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PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V10 Gen7
FWHM	26.0°
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

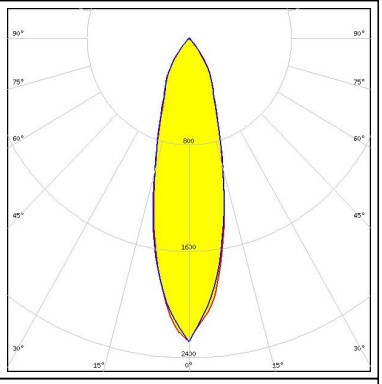
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 486 Typ L1



bridgelux

LED	V10 Gen7
FWHM	28.0°
Efficiency	86 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

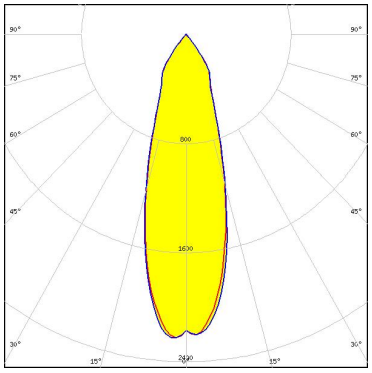
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 486 Typ L1



bridgelux

LED	V13 Gen7
FWHM	31.0°
Efficiency	90 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

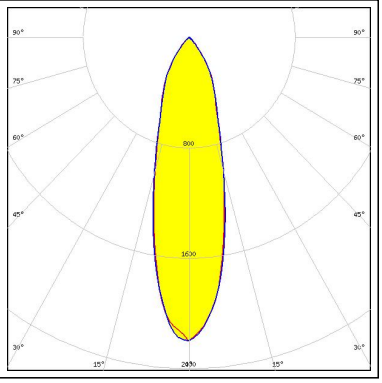
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 477 Typ L1



bridgelux

LED	V13 Gen7
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12606_LENINA-DL
- IDEAL: 50-2103CT + 50-2100AN



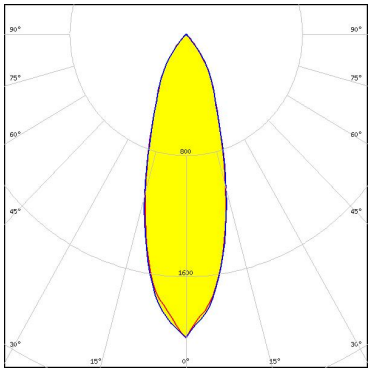
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PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V13 Gen7
FWHM	32.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

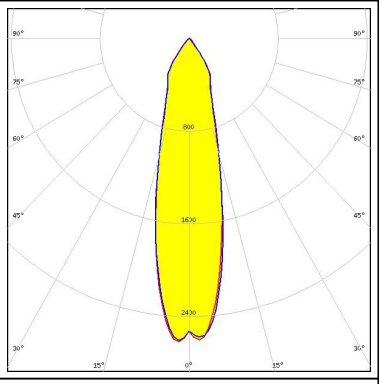
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 477 Typ L1



bridgelux

LED	V13 Gen7
FWHM	26.0°
Efficiency	90 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

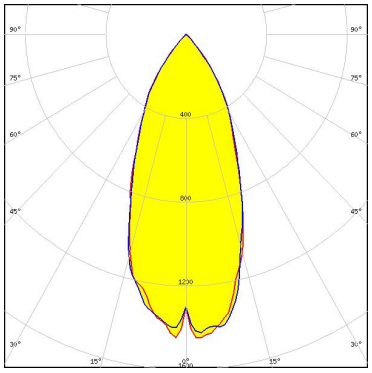
Required components:
- IDEAL: 50-2103CT + 50-2100AN



bridgelux

LED	V22 Gen7
FWHM	42.0°
Efficiency	90 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

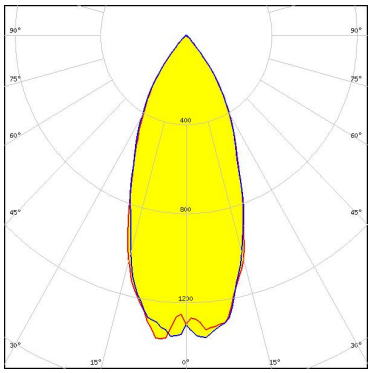
Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 431 Typ L3



bridgelux

LED	V22 Gen7
FWHM	42.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 431 Typ L3



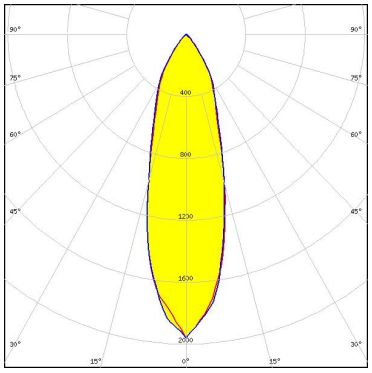
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PHOTOMETRIC DATA (SIMULATED):

CREE

LED	CXA/B 30xx
FWHM	30.0°
Efficiency	84 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

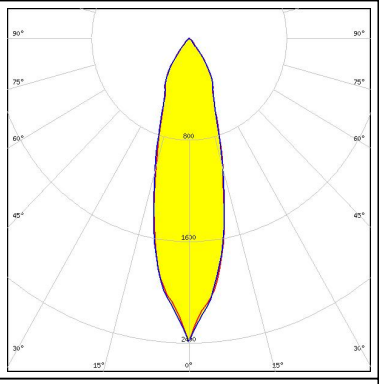
Required components:
- C12606_LENINA-DL
- IDEAL: 50-2234C + 50-2100LN



CREE

LED	CXA/B 30xx
FWHM	28.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- IDEAL: 50-2234C + 50-2100LN



LUMINUS

LED	CxM-14 (19x19)
FWHM	31.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 433 Typ L1

LUMINUS

LED	CxM-14 (19x19)
FWHM	29.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 433 Typ L1

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PHOTOMETRIC DATA (SIMULATED):

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM	23.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 434 Typ L1

LUMINUS

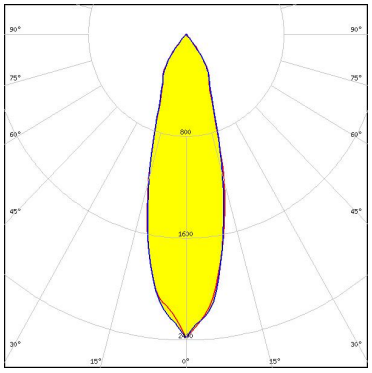
LED	CxM-9 (13.5x13.5)
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 434 Typ L1

OSRAM
Opto Semiconductors

LED	Soleriq S15
FWHM	30.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

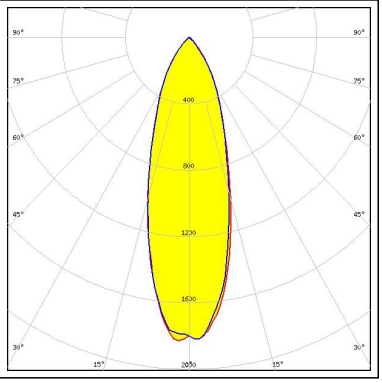
Required components:
- C12691_LENA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	32.0°
Efficiency	84 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12691_LENA-STD-BASE-CLL030
- C12606_LENINA-DL



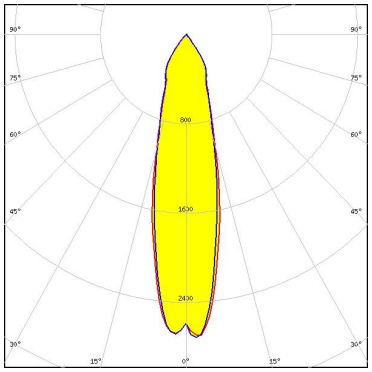
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PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	26.0°
Efficiency	89 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12691_LENA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	29.0°
Efficiency	91 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	31.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
C12606_LENINA-DL
Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	23.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13868_LENA-STD-BASE-VERO13-18
Bender Wirth: 434 Typ L1

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PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 434 Typ L1

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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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where_to_buy

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