LENINA-W

~55° wide beam

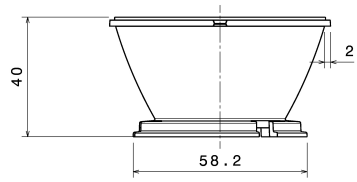
TECHNICAL SPECIFICATIONS:

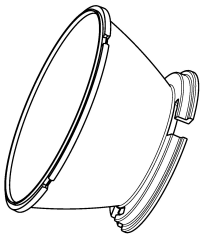
Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	socket
Colour	metal
Box size	476 x 273 x 197 mm
Box weight	2 kg
Quantity in Box	60 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

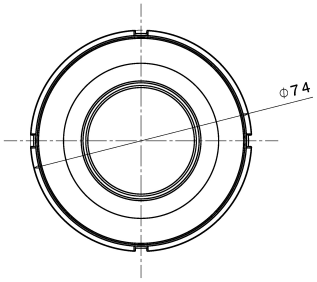
Component	Type	Material	Colour	Coating
LENINA-W	Reflector	PC	metal	lacquer

This drawing applies to:
C12597_LENINA-S
C12598_LENINA-M
C12599_LENINA-W
C12958_LENINA-XW





Isometric view



INDEX	PART NO	DESCRIPTION
1	Lenina-reflector	PC

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class B, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
LENINA_datasheet

SIZE	PART NUMBER
A3	-

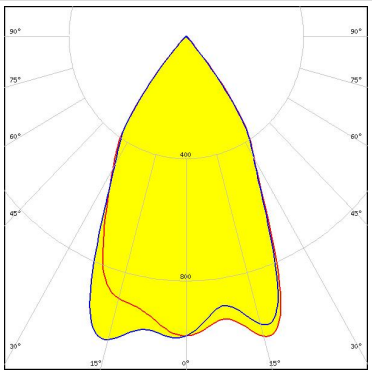
SCALE	WEIGHT	SHEET
1:1	-	1/1

PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	BXRA ES Rectangle
FWHM	58.0°
Efficiency	91 %
Peak intensity	1.100 cd/lm

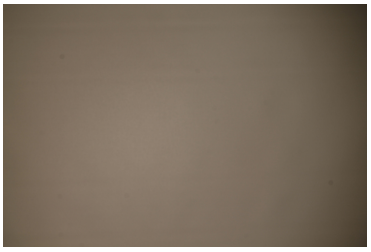
Required components:
C12153_LENA-STD-BASE-BXRA

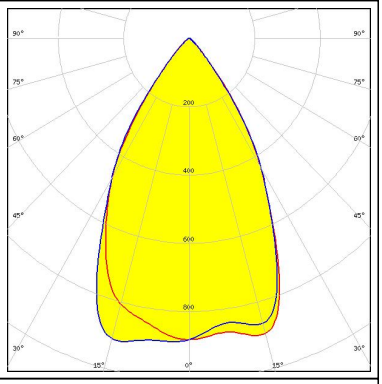


bridgelux

LED	BXRA ES Rectangle
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.920 cd/lm

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

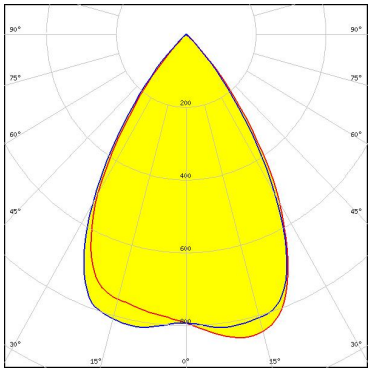




bridgelux

LED	BXRA RS
FWHM	64.0°
Efficiency	88 %
Peak intensity	0.888 cd/lm

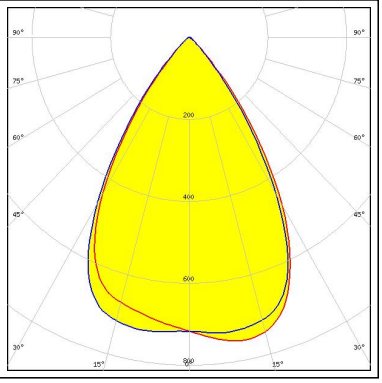
Required components:
C12229_LENA-STD-BASE-RS



bridgelux

LED	BXRA RS
FWHM	60.0°
Efficiency	80 %
Peak intensity	0.816 cd/lm

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



PHOTOMETRIC DATA (MEASURED):

bridgelux

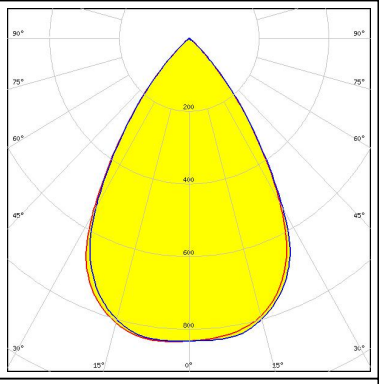
LED	V10 Gen6
FWHM	47.0°
Efficiency	83 %
Peak intensity	1.300 cd/lm

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

bridgelux

LED	Vero SE 29
FWHM	66.0°
Efficiency	91 %
Peak intensity	0.840 cd/lm

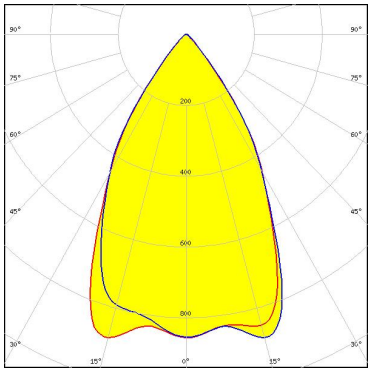
Required components:
- C15083_LENA-STD-BASE-VERO29



bridgelux

LED	VERO13
FWHM	60.0°
Efficiency	85 %
Peak intensity	0.890 cd/lm

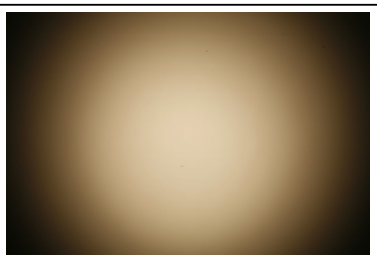
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL

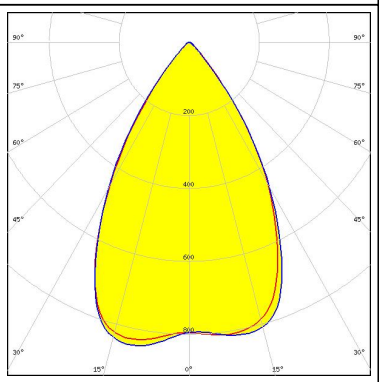


bridgelux

LED	VERO18
FWHM	64.0°
Efficiency	85 %
Peak intensity	0.850 cd/lm

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





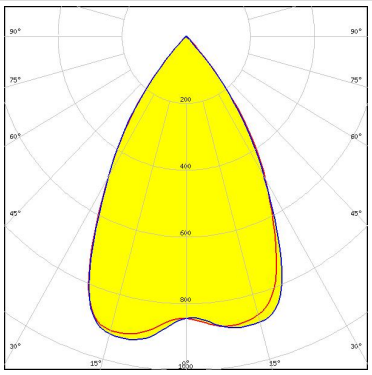
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	VERO18
FWHM	64.0°
Efficiency	89 %
Peak intensity	0.930 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18



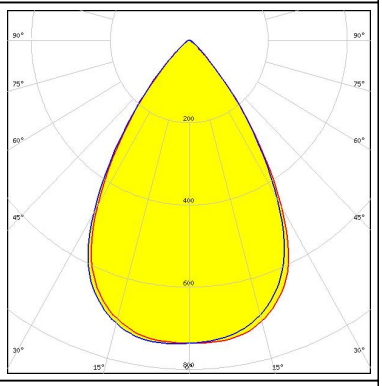
bridgelux

LED	VERO29
FWHM	67.0°
Efficiency	84 %
Peak intensity	0.740 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL

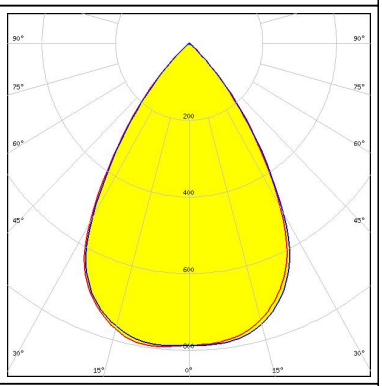


bridgelux

LED	VERO29
FWHM	67.0°
Efficiency	88 %
Peak intensity	0.800 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29



CITIZEN

LED	CL-L340
FWHM	48.0°
Efficiency	86 %
Peak intensity	cd/lm

Required components:

C11995_LENA-STD-BASE-CL340

PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CL-L340
FWHM	50.0°
Efficiency	78 %
Peak intensity	0.000 cd/lm

Required components:

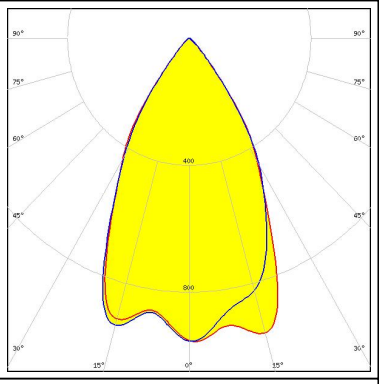
- C11995_LENA-STD-BASE-CL340
- C12606_LENINA-DL

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	57.0°
Efficiency	86 %
Peak intensity	0.980 cd/lm

Required components:

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

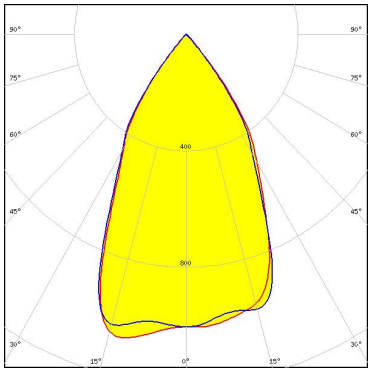


CITIZEN

LED	CLL03x/CLU03x
FWHM	56.0°
Efficiency	90 %
Peak intensity	1.100 cd/lm

Required components:

- C12691_LENA-STD-BASE-CLL030

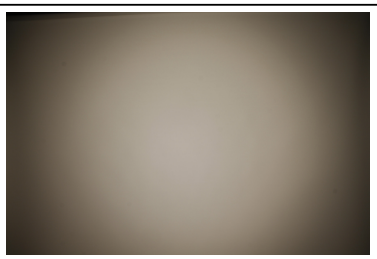


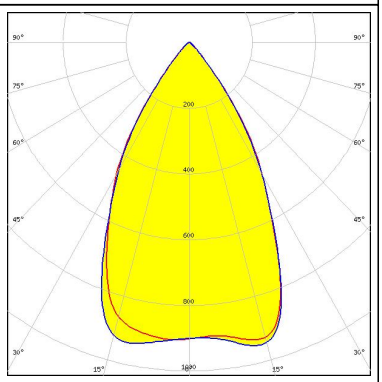
CITIZEN

LED	CLL03x/CLU03x
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.950 cd/lm

Required components:

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

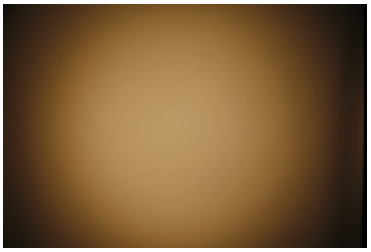


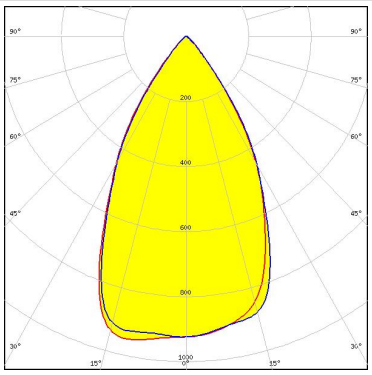


PHOTOMETRIC DATA (MEASURED):

CITIZEN

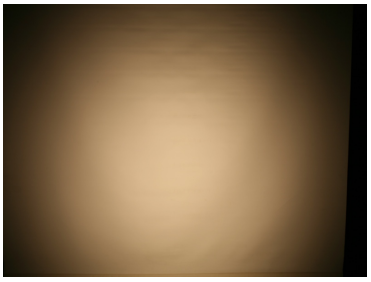
LED CLL03x/CLU03x
FWHM 58.0°
Efficiency 86 %
Peak intensity 0.950 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030
C12606_LENINA-DL

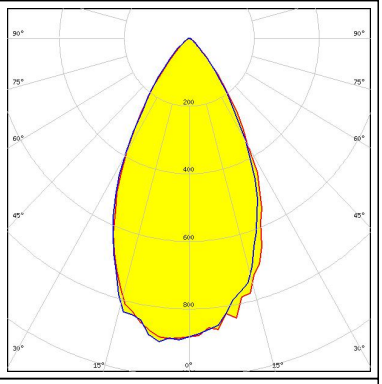




CITIZEN

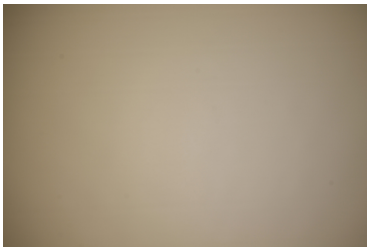
LED CLL04x/CLU04x
FWHM 56.0°
Efficiency 76 %
Peak intensity 0.900 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL

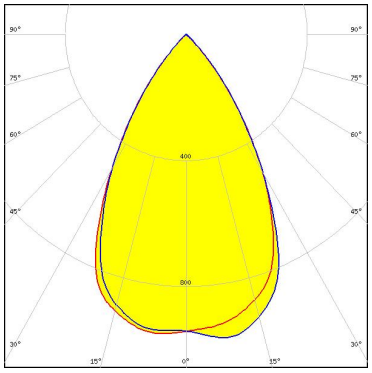




CITIZEN

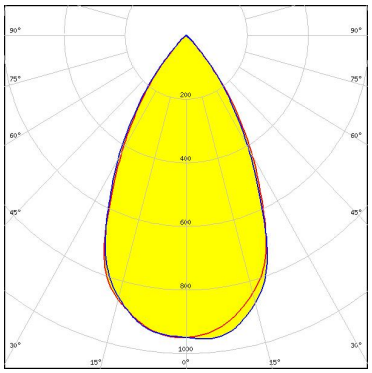
LED CLL04x/CLU04x
FWHM 61.0°
Efficiency 91 %
Peak intensity 0.970 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
Bender Wirth: 431 Typ L3





CITIZEN

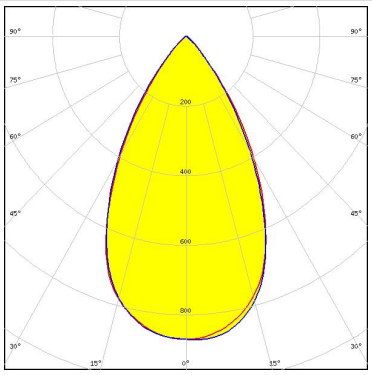
LED CLL04x/CLU04x
FWHM 57.0°
Efficiency 82 %
Peak intensity 1.000 cd/lm
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



PHOTOMETRIC DATA (MEASURED):

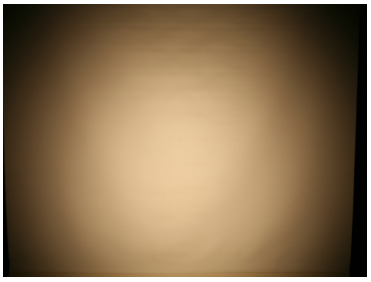
CITIZEN

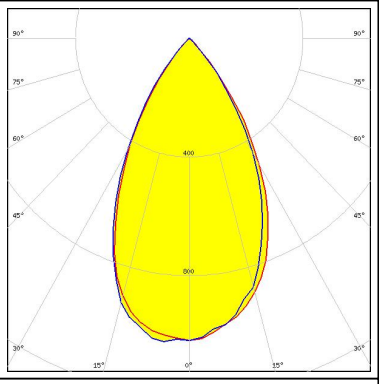
LED CLL04x/CLU04x
FWHM 58.0°
Efficiency 78 %
Peak intensity 0.900 cd/lm
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102/G2 + S-8000/12



CITIZEN

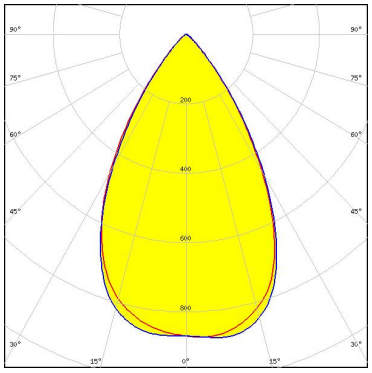
LED CLL04x/CLU04x
FWHM 59.0°
Efficiency 84 %
Peak intensity 1.000 cd/lm
Required components:
C12692_LENA-STD-BASE-CLL040





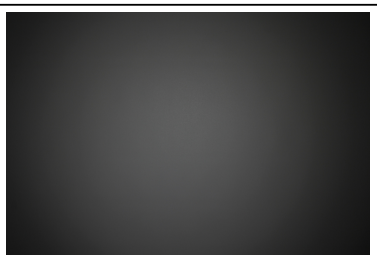
CITIZEN

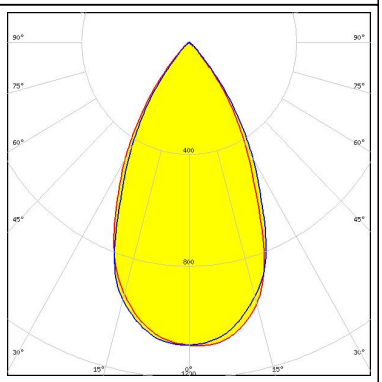
LED CLL04x/CLU04x
FWHM 61.0°
Efficiency 86 %
Peak intensity 0.880 cd/lm
Required components:
C13867_LENA-STD-BASE-VERO29
C12606_LENINA-DL
Bender Wirth: 431 Typ L3



CITIZEN

LED CLL04x/CLU04x
FWHM 54.0°
Efficiency 87 %
Peak intensity 1.100 cd/lm
Required components:
IDEAL: 50-2204CT + 50-2100LN

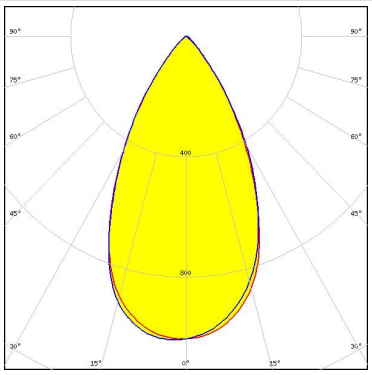




PHOTOMETRIC DATA (MEASURED):

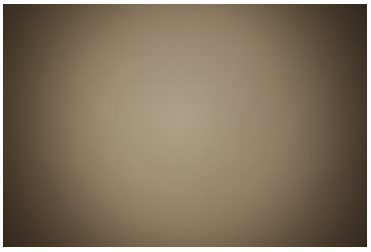
CITIZEN

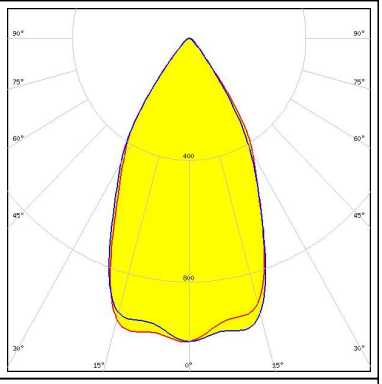
LED CLL04x/CLU04x
FWHM 55.0°
Efficiency 86 %
Peak intensity 1.000 cd/lm
Required components:
C12606_LENINA-DL
IDEAL: 50-2204CT + 50-2100LN



CITIZEN

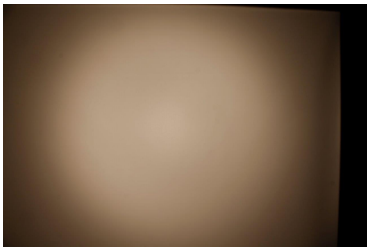
LED CLU710/711
FWHM 55.0°
Efficiency 89 %
Peak intensity 1.000 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030
C12606_LENINA-DL

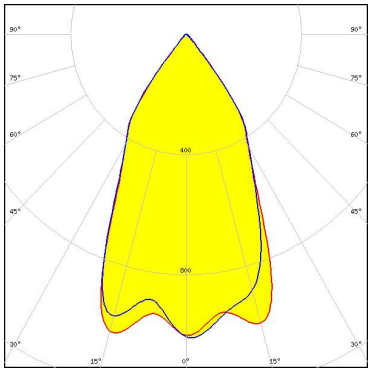




CITIZEN

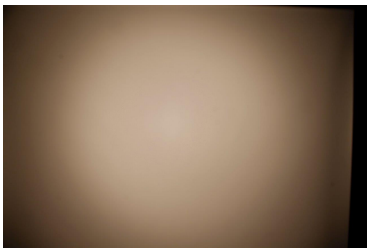
LED CLU720/721
FWHM 54.0°
Efficiency 87 %
Peak intensity 1.000 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030

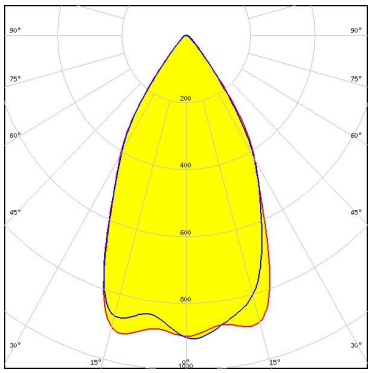




CITIZEN

LED CLU720/721
FWHM 57.0°
Efficiency 83 %
Peak intensity 0.910 cd/lm
Required components:
C12691_LENA-STD-BASE-CLL030
C12606_LENINA-DL



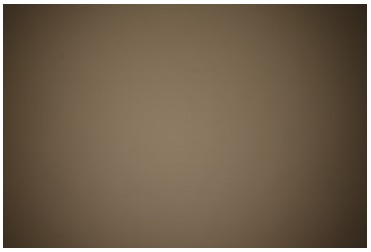


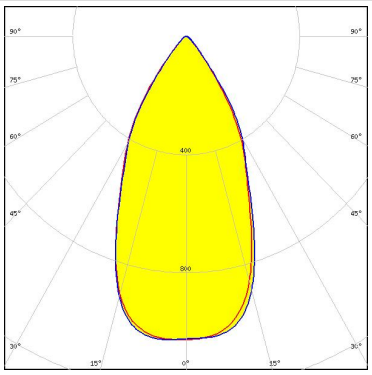
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU730/731
FWHM	50.0°
Efficiency	83 %
Peak intensity	1.000 cd/lm

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

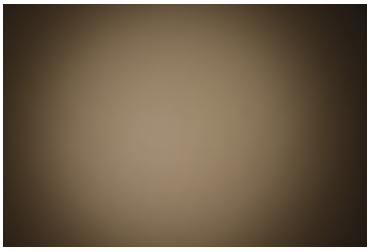


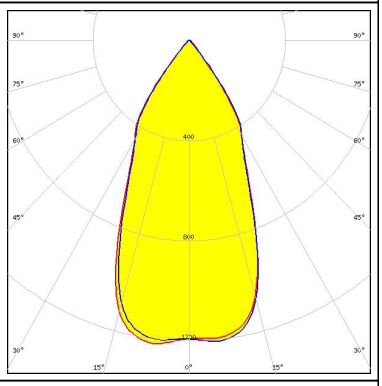


CITIZEN

LED	CLU730/731
FWHM	49.0°
Efficiency	93 %
Peak intensity	1.200 cd/lm

Required components:
- C12692_LENA-STD-BASE-CLL040

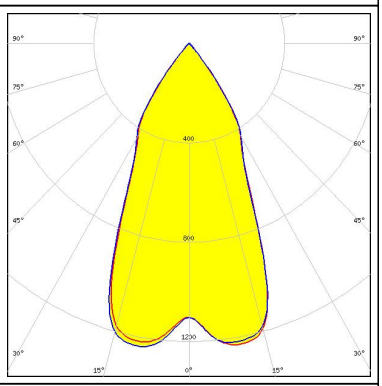




CREE

LED	CMA1840
FWHM	48.0°
Efficiency	91 %
Peak intensity	1.200 cd/lm

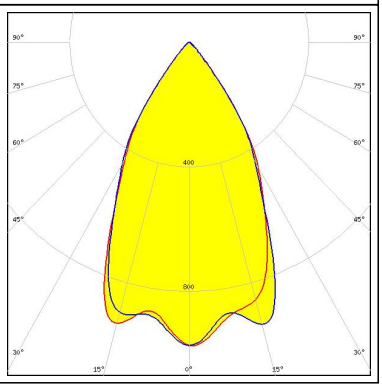
Required components:
- C14146_LENA-STD-BASE-CXA18



CREE

LED	CXA/B 15xx
FWHM	57.0°
Efficiency	86 %
Peak intensity	1.000 cd/lm

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

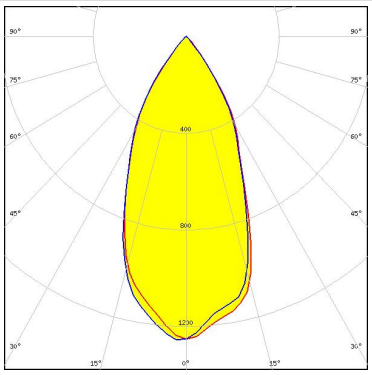


PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 15xx
FWHM	48.0°
Efficiency	83 %
Peak intensity	1.300 cd/lm

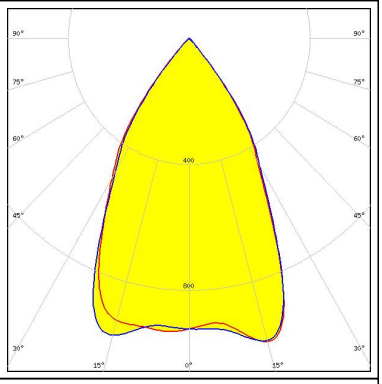
Required components:
- C13186_LENA-STD-BASE-CXA15
- C12606_LENINA-DL



CREE

LED	CXA/B 1830
FWHM	60.0°
Efficiency	91 %
Peak intensity	1.000 cd/lm

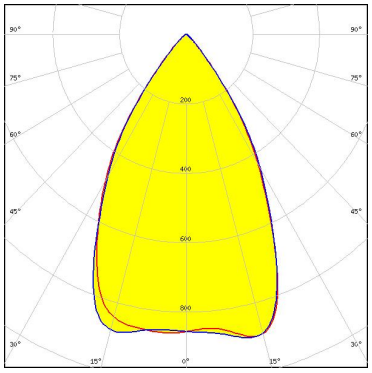
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 437 Typ L1



CREE

LED	CXA/B 1830
FWHM	61.0°
Efficiency	86 %
Peak intensity	0.900 cd/lm

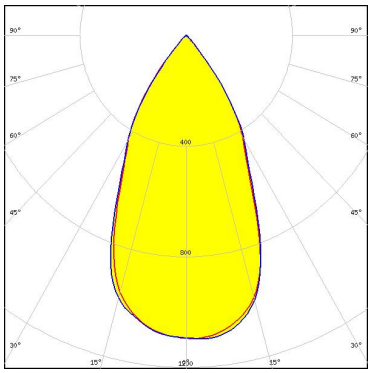
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 437 Typ L1



CREE

LED	CXA/B 25xx
FWHM	51.0°
Efficiency	84 %
Peak intensity	1.200 cd/lm

Required components:
- C13324_LENA-STD-BASE-CXA25



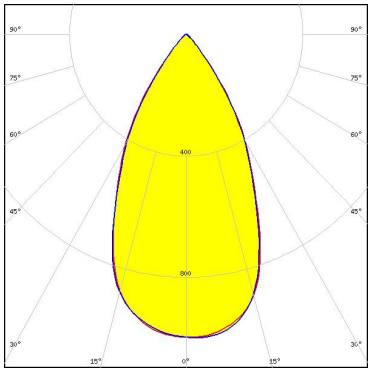
PHOTOMETRIC DATA (MEASURED):

CREE

LED	CXA/B 25xx
FWHM	52.0°
Efficiency	76 %
Peak intensity	1.100 cd/lm

Required components:

- C13324_LENA-STD-BASE-CXA25
- C12606_LENINA-DL

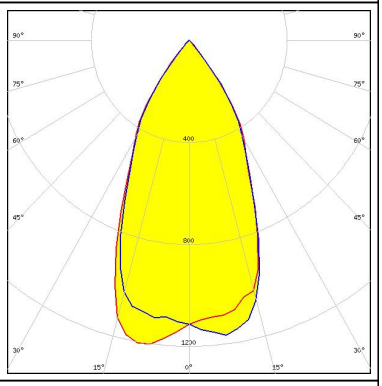


CREE

LED	CXA2011
FWHM	50.0°
Efficiency	86 %
Peak intensity	1.200 cd/lm

Required components:

- C12105_LENA-STD-BASE-CXA20

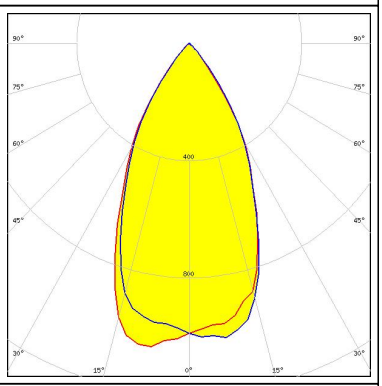


CREE

LED	CXA2011
FWHM	52.0°
Efficiency	78 %
Peak intensity	1.000 cd/lm

Required components:

- C12105_LENA-STD-BASE-CXA20
- C12606_LENINA-DL

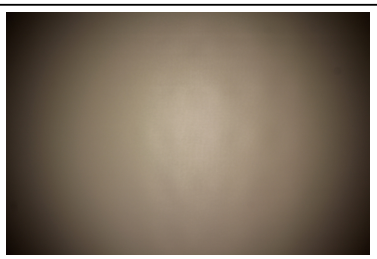


EVERLIGHT

LED	CHI3030 19W
FWHM	62.0°
Efficiency	90 %
Peak intensity	0.900 cd/lm

Required components:

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



PHOTOMETRIC DATA (MEASURED):

EVERLIGHT

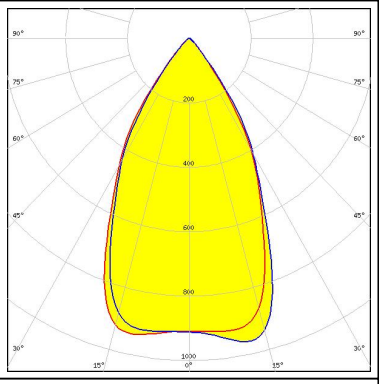
LED	CHI3030 29W
FWHM	63.0°
Efficiency	86 %
Peak intensity	0.800 cd/lm

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

LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	57.0°
Efficiency	84 %
Peak intensity	1.000 cd/lm

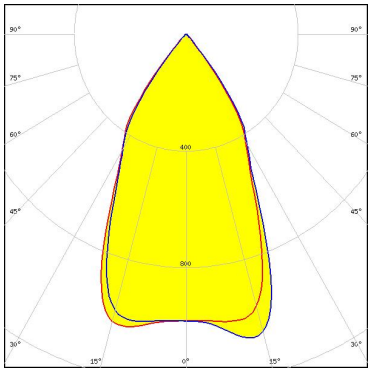
Required components:
- C12292_LENA-STD-BASE-MEZ
- C12606_LENINA-DL



LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM	55.0°
Efficiency	89 %
Peak intensity	1.100 cd/lm

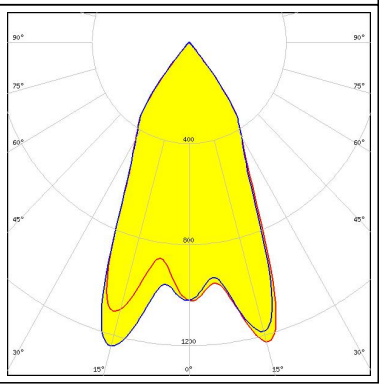
Required components:
- C12292_LENA-STD-BASE-MEZ



LUMILEDS

LED	LUXEON CoB 1205HD
FWHM	54.0°
Efficiency	91 %
Peak intensity	1.255 cd/lm

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

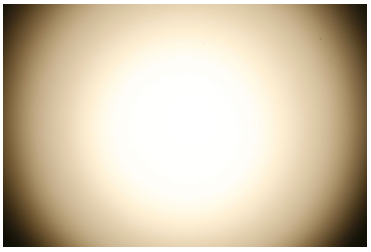


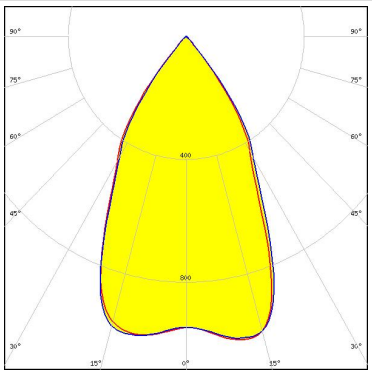
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1208
FWHM	58.0°
Efficiency	88 %
Peak intensity	1.000 cd/lm

Required components:
C12292_LENA-STD-BASE-MEZ

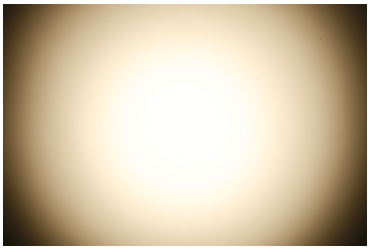


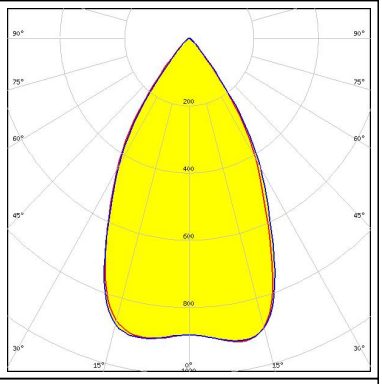


LUMILEDS

LED	LUXEON CoB 1208
FWHM	60.0°
Efficiency	84 %
Peak intensity	0.900 cd/lm

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

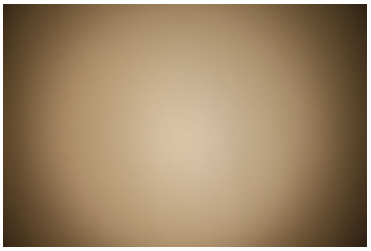


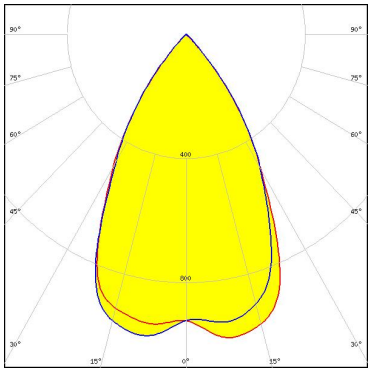


LUMILEDS

LED	LUXEON CoB 1211
FWHM	60.0°
Efficiency	91 %
Peak intensity	1.000 cd/lm

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

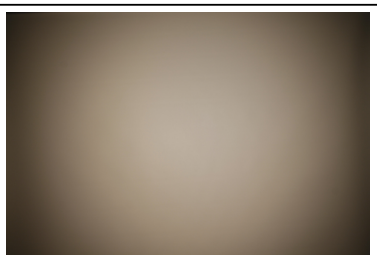


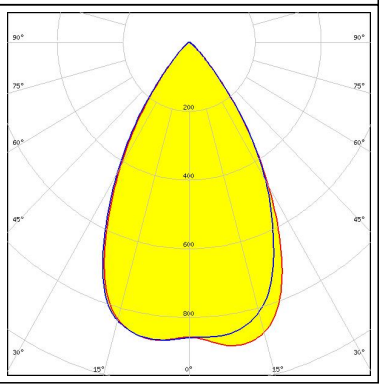


LUMILEDS

LED	LUXEON CoB 1211
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.900 cd/lm

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



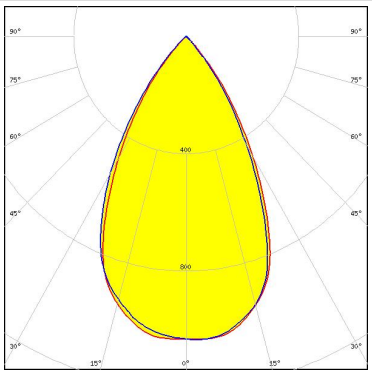


PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	58.0°
Efficiency	90 %
Peak intensity	1.000 cd/lm

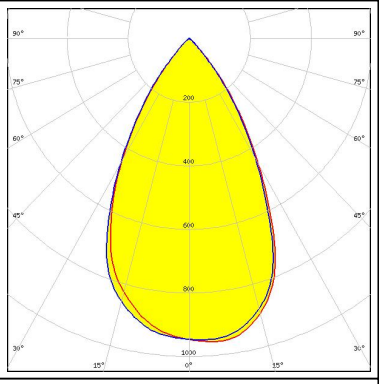
Required components:
C12692_LENA-STD-BASE-CLL040



LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	58.0°
Efficiency	84 %
Peak intensity	0.960 cd/lm

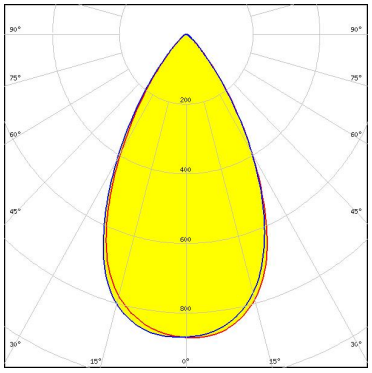
Required components:
A.A.G. STUCCHI: 8102/G2 + S-8000/12



LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	58.0°
Efficiency	80 %
Peak intensity	0.870 cd/lm

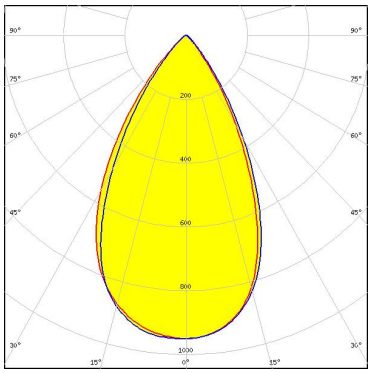
Required components:
C12606_LENINA-DL
A.A.G. STUCCHI: 8102/G2 + S-8000/12



LUMILEDS

LED	LUXEON CoB 1216/1812
FWHM	58.0°
Efficiency	86 %
Peak intensity	0.950 cd/lm

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

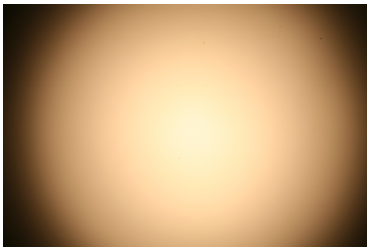


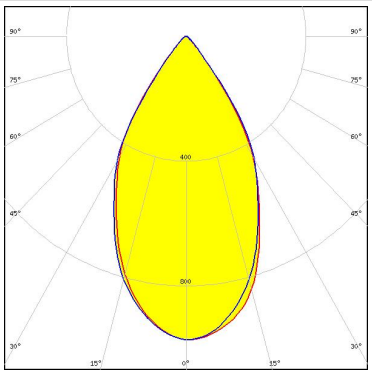
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON K12
FWHM	57.0°
Efficiency	83 %
Peak intensity	1.000 cd/lm

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

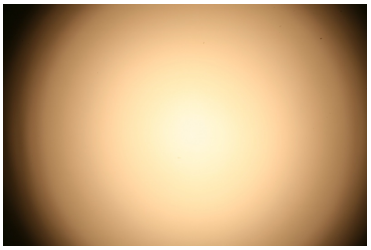


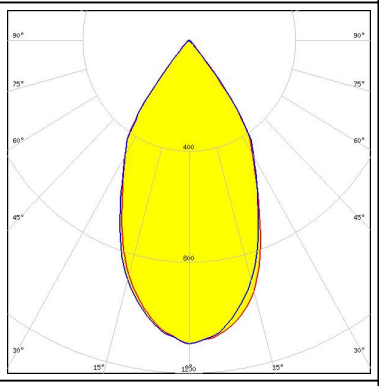


LUMILEDS

LED	LUXEON K12
FWHM	54.0°
Efficiency	88 %
Peak intensity	1.100 cd/lm

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

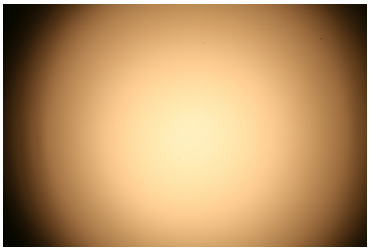


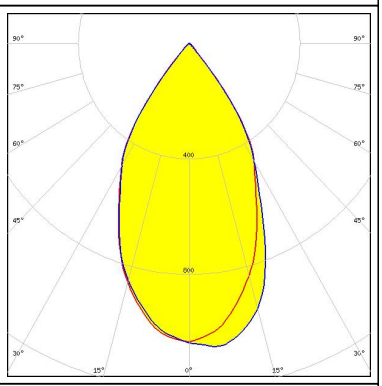


LUMILEDS

LED	LUXEON K16
FWHM	55.0°
Efficiency	85 %
Peak intensity	1.050 cd/lm

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

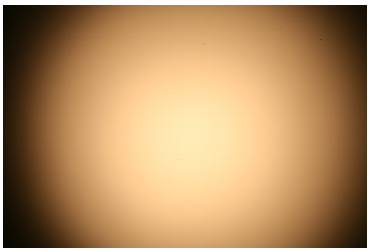


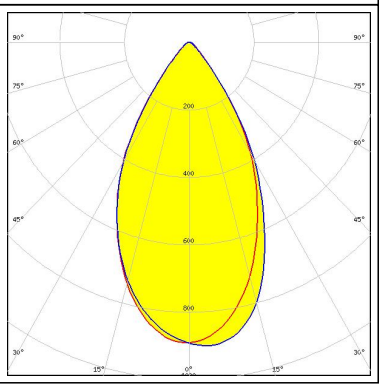


LUMILEDS

LED	LUXEON K16
FWHM	56.0°
Efficiency	79 %
Peak intensity	0.900 cd/lm

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



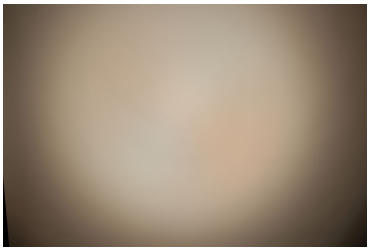


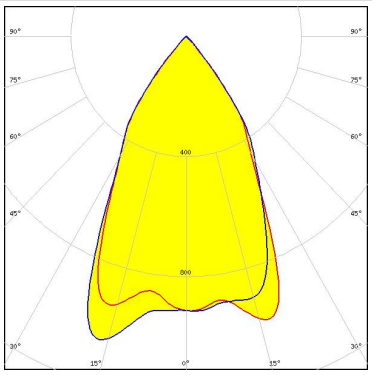
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	58.0°
Efficiency	91 %
Peak intensity	1.100 cd/lm

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

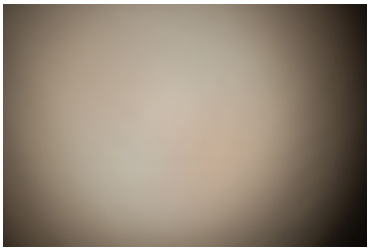


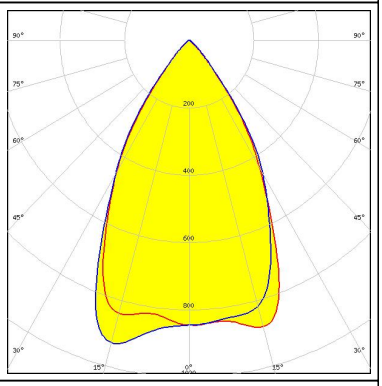


LUMINUS

LED	CDM-14 (Dim-To-Warm)
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.900 cd/lm

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

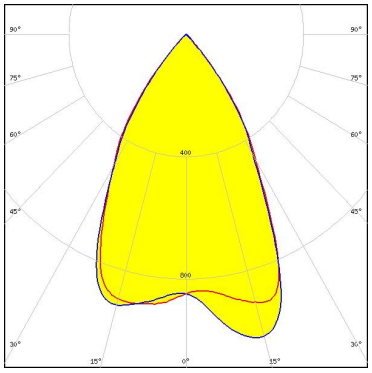




LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	64.0°
Efficiency	91 %
Peak intensity	1.000 cd/lm

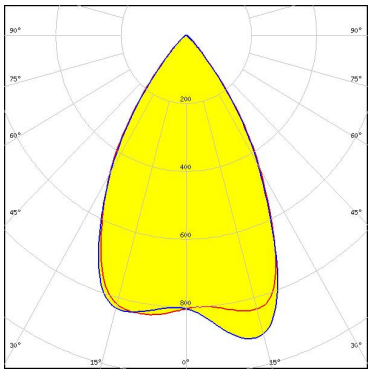
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 491 Typ L2



LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM	62.0°
Efficiency	86 %
Peak intensity	0.900 cd/lm

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

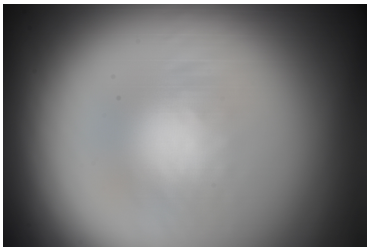


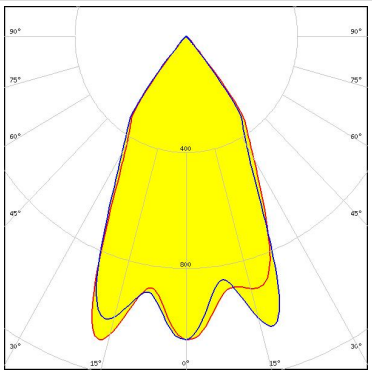
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	55.0°
Efficiency	90 %
Peak intensity	1.100 cd/lm

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

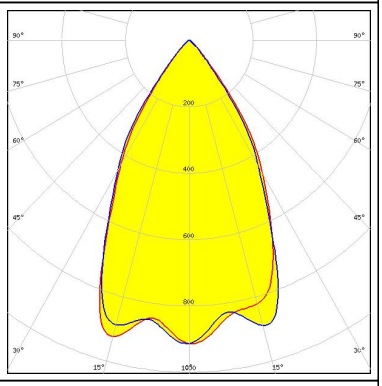




LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM	59.0°
Efficiency	86 %
Peak intensity	0.960 cd/lm

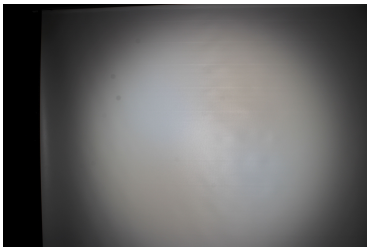
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 490 Typ L1

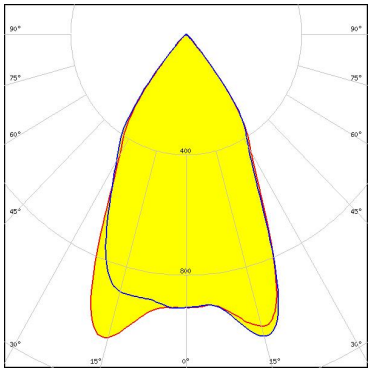


LUMINUS

LED	CTM-14 (Tunable White)
FWHM	58.0°
Efficiency	91 %
Peak intensity	1.100 cd/lm

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

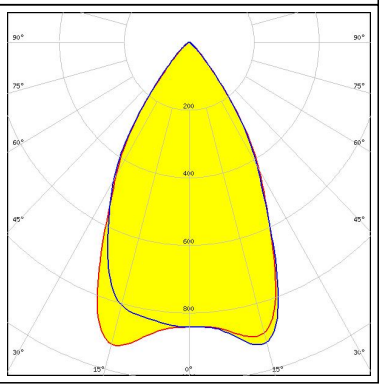




LUMINUS

LED	CTM-14 (Tunable White)
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.950 cd/lm

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

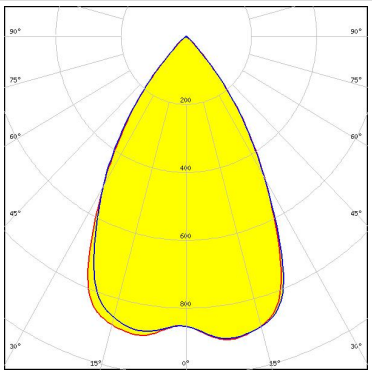


PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CTM-22 (Tunable White)
FWHM	63.0°
Efficiency	90 %
Peak intensity	0.900 cd/lm

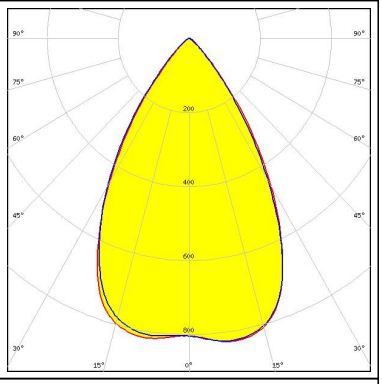
Required components:
- C13867_LENA-STD-BASE-VERO29
- Bender Wirth: 494 Typ L3



LUMINUS

LED	CTM-22 (Tunable White)
FWHM	63.0°
Efficiency	85 %
Peak intensity	0.800 cd/lm

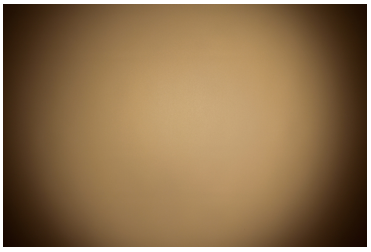
Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 494 Typ L3

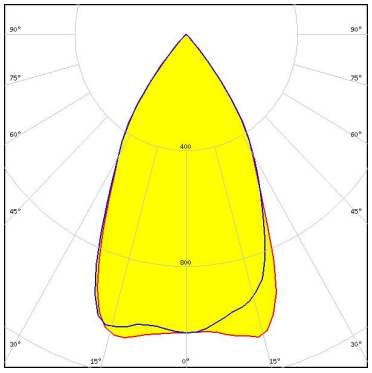


LUMINUS

LED	CXM-14
FWHM	58.0°
Efficiency	92 %
Peak intensity	1.100 cd/lm

Required components:
- C12691_LENA-STD-BASE-CLL030

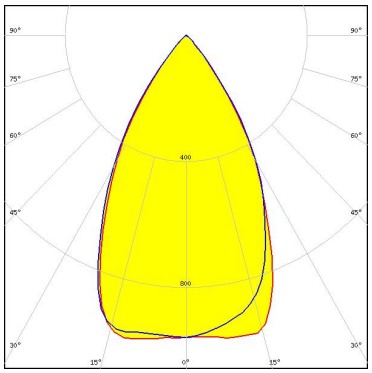




LUMINUS

LED	CXM-14
FWHM	59.0°
Efficiency	88 %
Peak intensity	1.000 cd/lm

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



PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CXM-22
FWHM	58.0°
Efficiency	92 %
Peak intensity	1.100 cd/lm

Required components:
C12692_LENA-STD-BASE-CLL040

LUMINUS

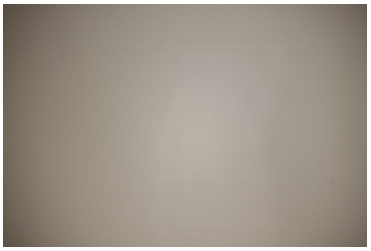
LED	CXM-22
FWHM	58.0°
Efficiency	87 %
Peak intensity	1.000 cd/lm

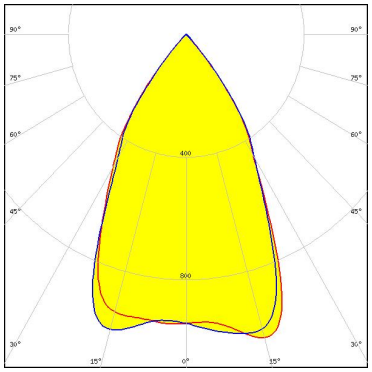
Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL

NICHIA

LED	COB J-Type
FWHM	59.0°
Efficiency	91 %
Peak intensity	1.100 cd/lm

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

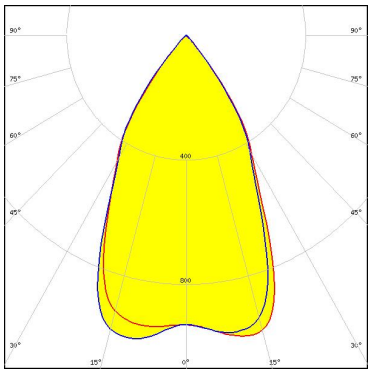




NICHIA

LED	COB J-Type
FWHM	58.0°
Efficiency	86 %
Peak intensity	1.010 cd/lm

Required components:
C12292_LENA-STD-BASE-MEZ

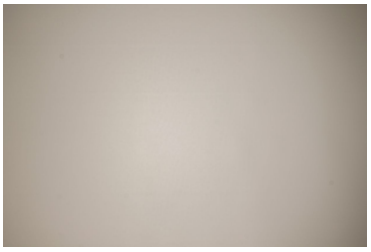


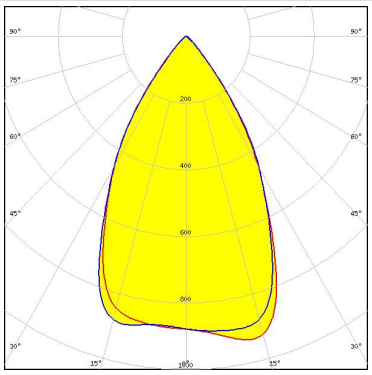
PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB J-Type
FWHM	59.0°
Efficiency	87 %
Peak intensity	1.000 cd/lm

Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 463 Typ L2

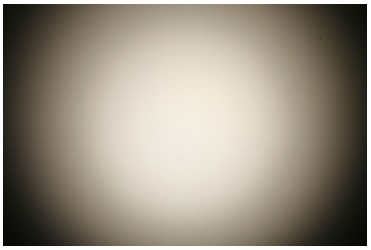


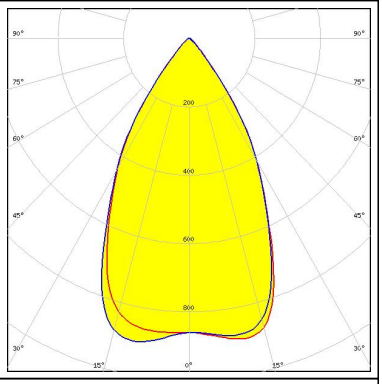


NICHIA

LED	COB J-Type
FWHM	59.0°
Efficiency	82 %
Peak intensity	0.910 cd/lm

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

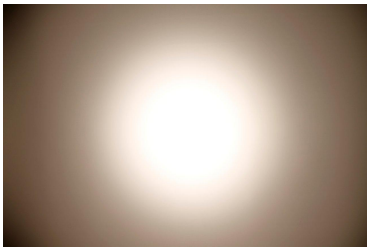


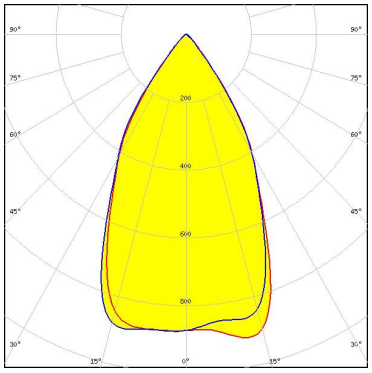


NICHIA

LED	COB L-Type (LES 11)
FWHM	58.0°
Efficiency	80 %
Peak intensity	0.900 cd/lm

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

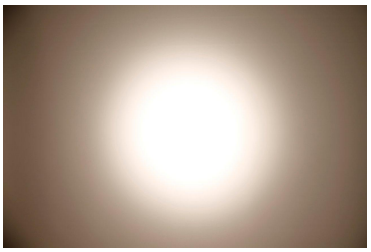


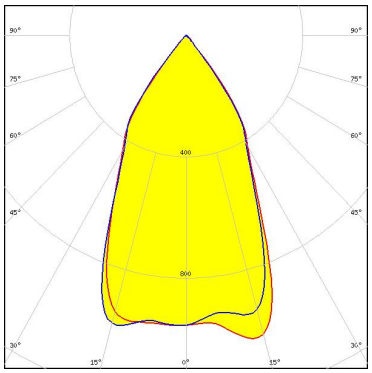


NICHIA

LED	COB L-Type (LES 11)
FWHM	56.0°
Efficiency	85 %
Peak intensity	1.000 cd/lm

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



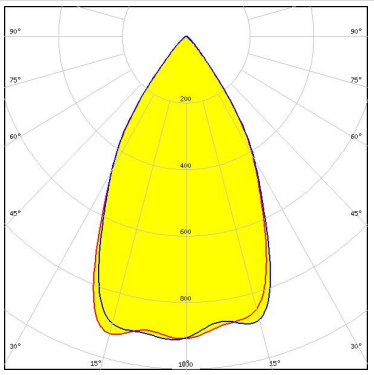


PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	59.0°
Efficiency	86 %
Peak intensity	0.940 cd/lm

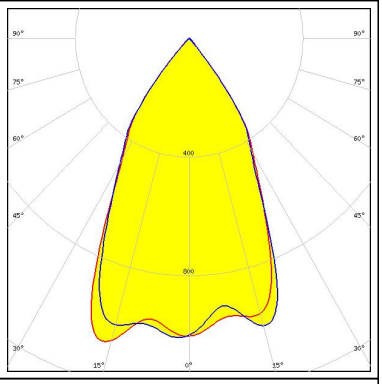
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 437 Typ L1



OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM	56.0°
Efficiency	90 %
Peak intensity	1.100 cd/lm

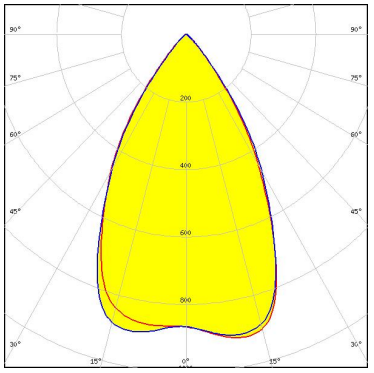
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- Bender Wirth: 437 Typ L1



OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	60.0°
Efficiency	87 %
Peak intensity	0.930 cd/lm

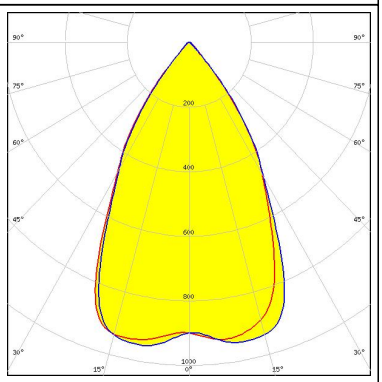
Required components:
- C13867_LENA-STD-BASE-VERO29
- C12606_LENINA-DL
- Bender Wirth: 462 Typ L3



OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM	60.0°
Efficiency	92 %
Peak intensity	1.000 cd/lm

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

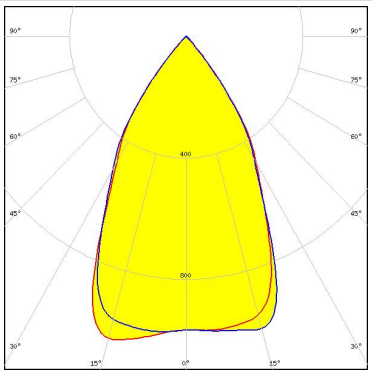


PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	COB D Series LES 14.5 mm
FWHM	57.0°
Efficiency	91 %
Peak intensity	1.000 cd/lm

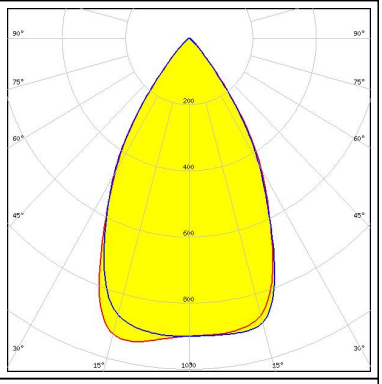
Required components:
C12691_LENA-STD-BASE-CLL030



SAMSUNG

LED	COB D Series LES 14.5 mm
FWHM	59.0°
Efficiency	87 %
Peak intensity	0.950 cd/lm

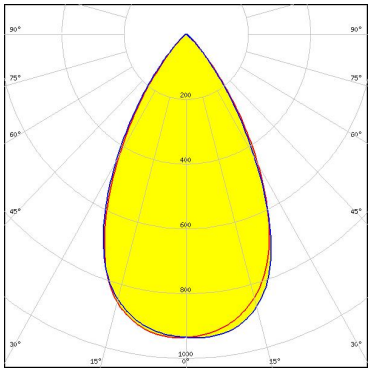
Required components:
C12691_LENA-STD-BASE-CLL030
C12606_LENINA-DL



SAMSUNG

LED	COB D Series LES 22 mm
FWHM	59.0°
Efficiency	86 %
Peak intensity	0.940 cd/lm

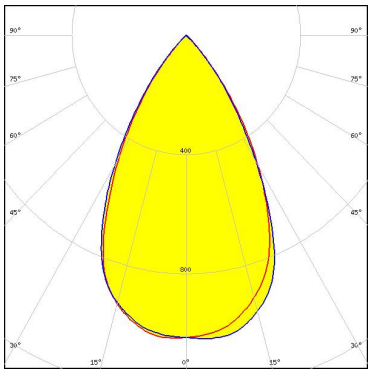
Required components:
C12692_LENA-STD-BASE-CLL040
C12606_LENINA-DL



SAMSUNG

LED	COB D Series LES 22 mm
FWHM	59.0°
Efficiency	91 %
Peak intensity	1.000 cd/lm

Required components:
C12692_LENA-STD-BASE-CLL040

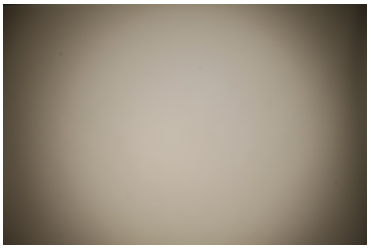


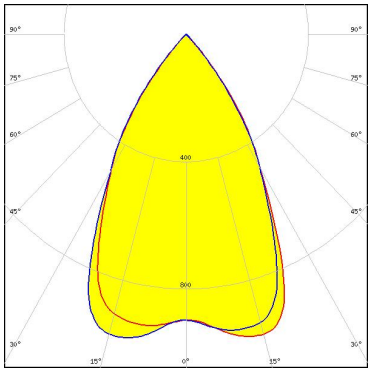
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LC026B / 033B / 040B
FWHM	61.0°
Efficiency	91 %
Peak intensity	0.980 cd/lm

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

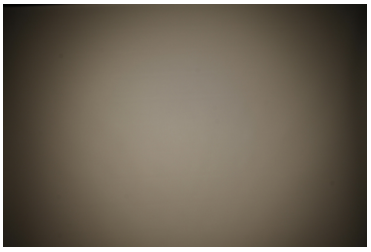


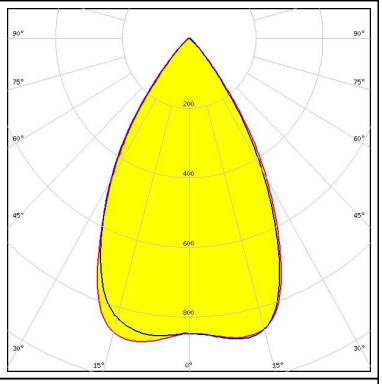


SAMSUNG

LED	LC026B / 033B / 040B
FWHM	61.0°
Efficiency	86 %
Peak intensity	0.890 cd/lm

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

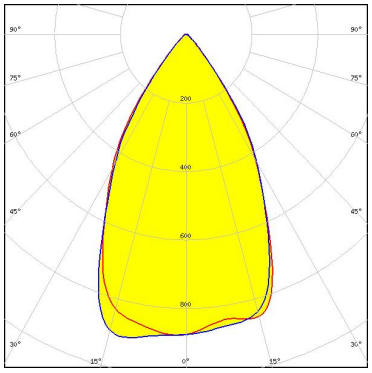




SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	59.0°
Efficiency	84 %
Peak intensity	0.910 cd/lm

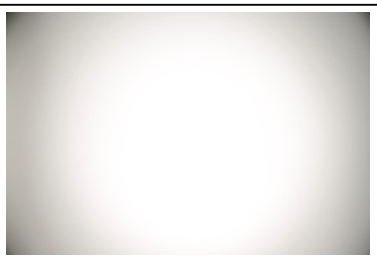
Required components:
- C12691_LENA-STD-BASE-CLL030
- C12606_LENINA-DL

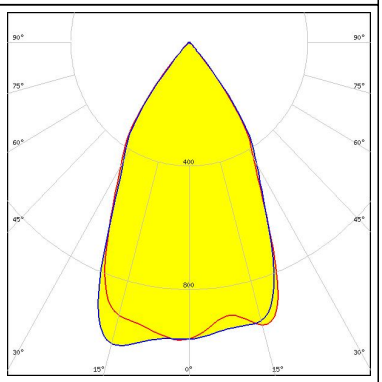


SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	57.0°
Efficiency	88 %
Peak intensity	1.020 cd/lm

Required components:
- C12691_LENA-STD-BASE-CLL030



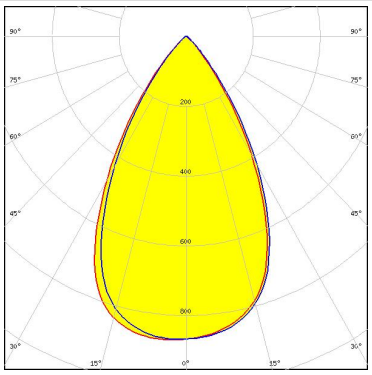


PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM	60.0°
Efficiency	82 %
Peak intensity	0.900 cd/lm

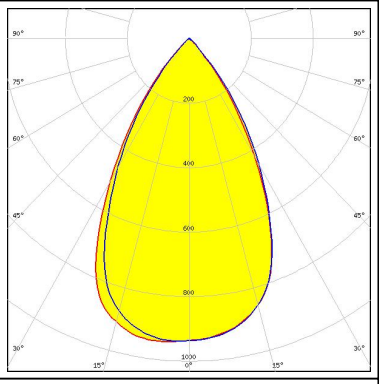
Required components:
- C12692_LENA-STD-BASE-CLL040
- C12606_LENINA-DL



SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.900 cd/lm

Required components:
- C12692_LENA-STD-BASE-CLL040



SHARP

LED	Mega Zenigata (GW5DGC)
FWHM	45.0°
Efficiency	78 %
Peak intensity	cd/lm

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

SHARP

LED	Mega Zenigata (GW5DGC)
FWHM	41.0°
Efficiency	86 %
Peak intensity	cd/lm

Required components:
- C12292_LENA-STD-BASE-MEZ

PHOTOMETRIC DATA (MEASURED):

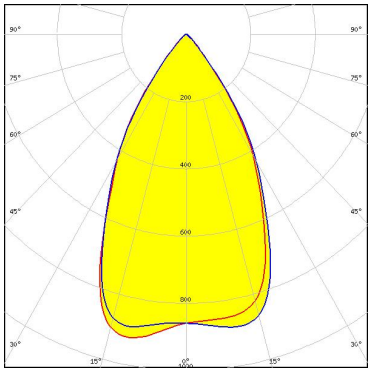
SHARP

LED	Mega Zenigata (GW6DME)
FWHM	59.0°
Efficiency	83 %
Peak intensity	0.940 cd/lm

Required components:

C12292_LENA-STD-BASE-MEZ

C12606_LENINA-DL

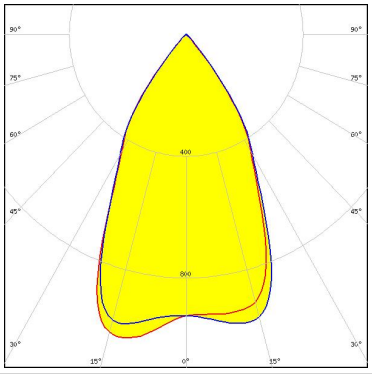


SHARP

LED	Mega Zenigata (GW6DME)
FWHM	57.0°
Efficiency	87 %
Peak intensity	1.050 cd/lm

Required components:

C12292_LENA-STD-BASE-MEZ

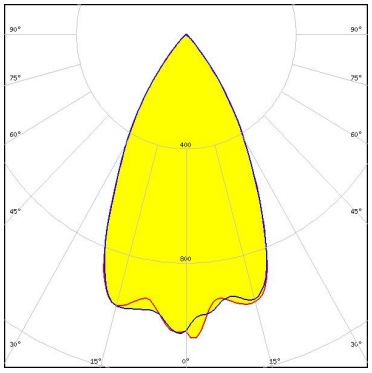


PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V10 Gen7
FWHM	55.0°
Efficiency	85 %
Peak intensity	1.060 cd/lm

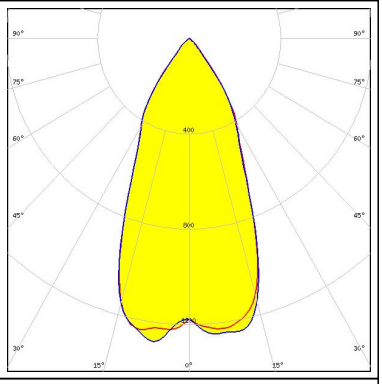
Required components:
- C13868_LENA-STD-BASE-VERO13-18
- C12606_LENINA-DL
- Bender Wirth: 434 Typ L1



bridgelux

LED	V13 Gen7
FWHM	46.0°
Efficiency	90 %
Peak intensity	1.280 cd/lm

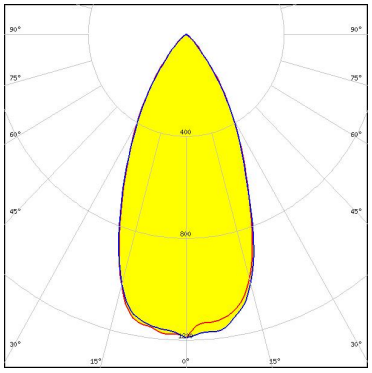
Required components:
- IDEAL: 50-2103CT + 50-2100AN



bridgelux

LED	V13 Gen7
FWHM	48.0°
Efficiency	88 %
Peak intensity	1.200 cd/lm

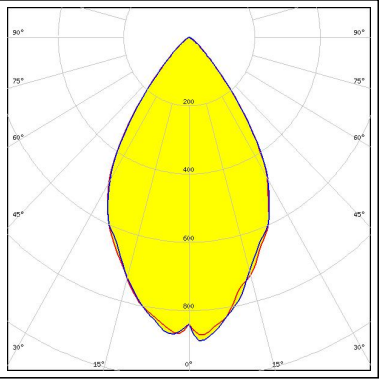
Required components:
- C12606_LENINA-DL
- IDEAL: 50-2103CT + 50-2100AN



bridgelux

LED	V13 Gen7
FWHM	63.0°
Efficiency	87 %
Peak intensity	0.900 cd/lm

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



PHOTOMETRIC DATA (SIMULATED):

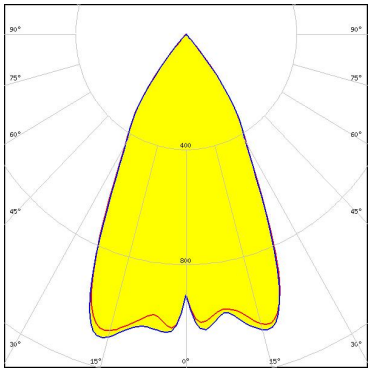
bridgelux

LED	V13 Gen7
FWHM	50.0°
Efficiency	90 %
Peak intensity	1.100 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 477 Typ L1



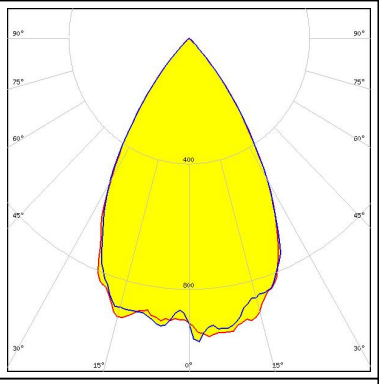
bridgelux

LED	V22 Gen7
FWHM	61.0°
Efficiency	90 %
Peak intensity	1.014 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 431 Typ L3



bridgelux

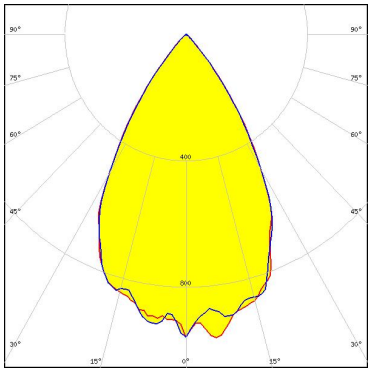
LED	V22 Gen7
FWHM	61.0°
Efficiency	87 %
Peak intensity	1.041 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL

Bender Wirth: 431 Typ L3



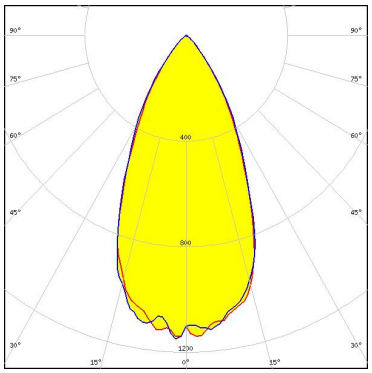
CREE

LED	CXA/B 30xx
FWHM	49.0°
Efficiency	84 %
Peak intensity	1.200 cd/lm

Required components:

C12606_LENINA-DL

IDEAL: 50-2234C + 50-2100LN



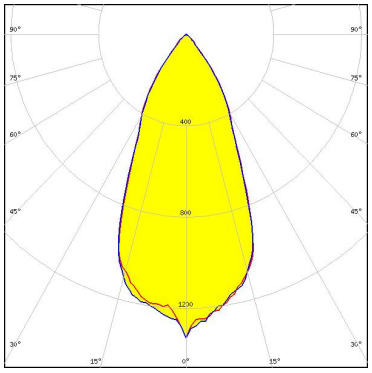
PHOTOMETRIC DATA (SIMULATED):

CREE

LED	CXA/B 30xx
FWHM	46.0°
Efficiency	89 %
Peak intensity	1.300 cd/lm

Required components:

IDEAL: 50-2234C + 50-2100LN



LUMINUS

LED	CXM-14
FWHM	57.0°
Efficiency	90 %
Peak intensity	1.000 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1

LUMINUS

LED	CXM-14
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.950 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 433 Typ L1

LUMINUS

LED	CXM-9
FWHM	57.0°
Efficiency	86 %
Peak intensity	0.980 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):

LUMINUS

LED	CXM-9
FWHM	54.0°
Efficiency	90 %
Peak intensity	1.100 cd/lm

Required components:

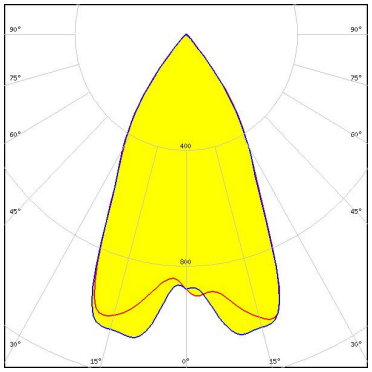
C13868_LENA-STD-BASE-VERO13-18

OSRAM
Opto Semiconductors

LED	Soleriq S15
FWHM	56.0°
Efficiency	90 %
Peak intensity	1.068 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030



SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	57.0°
Efficiency	90 %
Peak intensity	1.000 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM	60.0°
Efficiency	86 %
Peak intensity	0.950 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL

Bender Wirth: 433 Typ L1

PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	54.0°
Efficiency	90 %
Peak intensity	1.100 cd/lm

Required components:

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

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	57.0°
Efficiency	86 %
Peak intensity	0.980 cd/lm

Required components:

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

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy
Joensuunkatu 13
FI-24240 SALO
Finland

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

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

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy