

LENINA-S

~19° spot beam

TECHNICAL SPECIFICATIONS:

Dimensions Ø 74.0 mm

Height 40 mm

Fastening

Colour metal

Box size 476 x 273 x 197 mm

Box weight 2 kg Quantity in Box 60 pcs

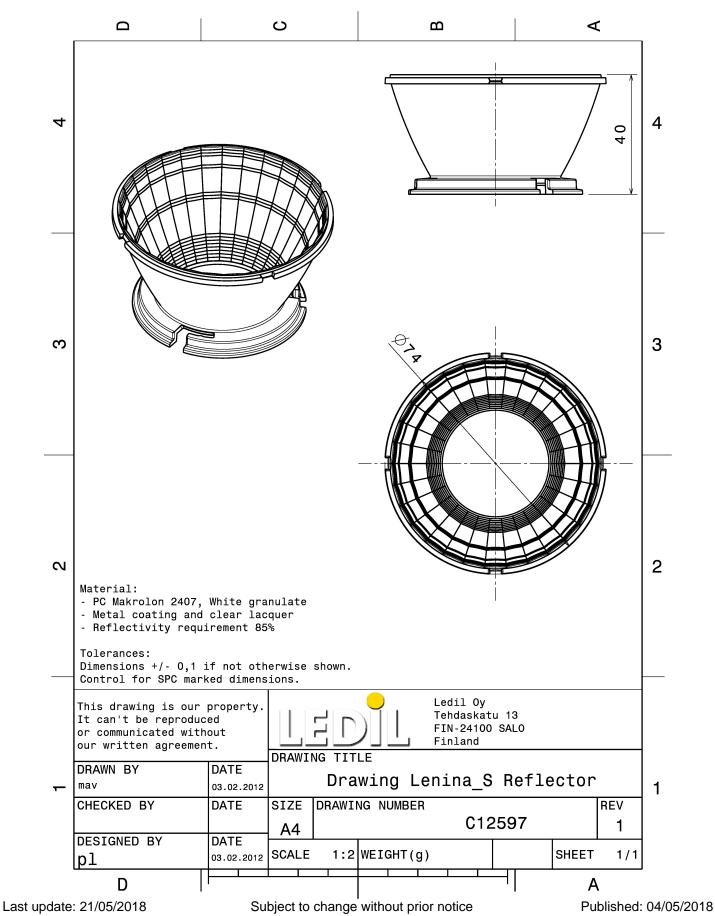
yes 🕕 **ROHS** compliant



MATERIAL SPECIFICATIONS:

Component **Type** Material Colour Coating **LENINA-S** Reflector PC metal lacquer





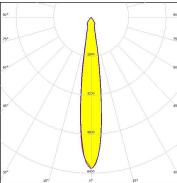
PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED BXRA ES Rectangle

FWHM 15.0° Efficiency 88 % Peak intensity cd/lm Required components:

C12153_LENA-STD-BASE-BXRA



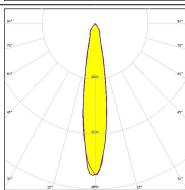
bridgelux.

LED BXRA ES Rectangle

FWHM 20.0°
Efficiency 80 %
Peak intensity cd/lm
Required components:

C12153_LENA-STD-BASE-BXRA

C12606_LENINA-DL



bridgelux

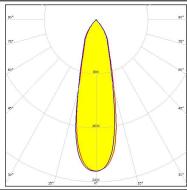
LED BXRA RS FWHM 28.0°

Efficiency 89 %

Peak intensity 2.292 cd/lm

Required components:

C12229_LENA-STD-BASE-RS



bridgelux.

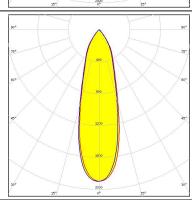
LED BXRA RS FWHM 32.0° Efficiency 81 %

Peak intensity 2.000 cd/lm

Required components:

C12229_LENA-STD-BASE-RS

C12606_LENINA-DL





PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED V10 Gen6 FWHM 13.0° Efficiency 83 %

Peak intensity 7.200 cd/lm Required components:

C13186_LENA-STD-BASE-CXA15

C12606_LENINA-DL



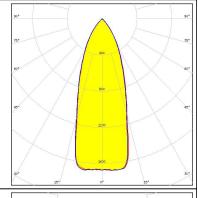
bridgelux.

LED Vero SE 29 FWHM 38.0° Efficiency 92 % Peak intensity 1.700 cd/lm

Required components:

C15083_LENA-STD-BASE-VERO29

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bridgelux.

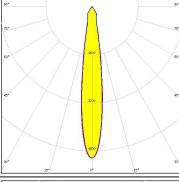
LED VERO13
FWHM 16.0°
Efficiency 86 %
Peak intensity 5.050 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL



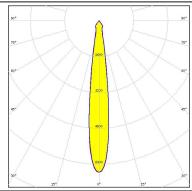


bridgelux.

LED VERO13
FWHM 15.0°
Efficiency 91 %
Peak intensity 6.780 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18





PHOTOMETRIC DATA (MEASURED):

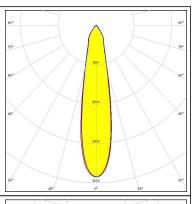


LED VERO18
FWHM 22.0°
Efficiency 86 %
Peak intensity 3.060 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL



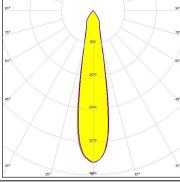


bridgelux.

LED VERO18
FWHM 21.0°
Efficiency 90 %
Peak intensity 3.700 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18





bridgelux.

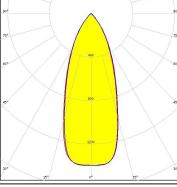
LED VERO29
FWHM 40.0°
Efficiency 85 %
Peak intensity 1.500 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL



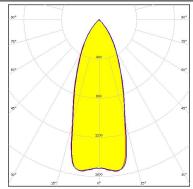


bridgelux.

LED VERO29
FWHM 40.0°
Efficiency 89 %
Peak intensity 1.560 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29





PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CL-L340

FWHM 17.0°

Efficiency 88 %

Peak intensity cd/lm

Required components:

C11995_LENA-STD-BASE-CL340

CITIZEN

LED CL-L340

FWHM 22.0°

80 % Efficiency

Peak intensity cd/lm

Required components:

C11995_LENA-STD-BASE-CL340

C12606_LENINA-DL

CITIZEN

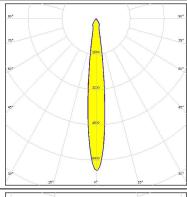
LED CLL02x/CLU02x (LES10)

FWHM 13.0° Efficiency 86 % Peak intensity 6.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 434 Typ L1



CITIZEN

LED CLL02x/CLU02x (LES10)

FWHM 11.0° 91 % Efficiency

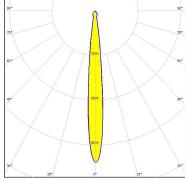
Peak intensity 10.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1





PHOTOMETRIC DATA (MEASURED):

CITIZEN

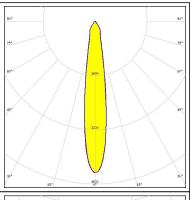
LED CLL03x/CLU03x

FWHM 17.0°
Efficiency 87 %
Peak intensity 4.500 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030

C12606_LENINA-DL





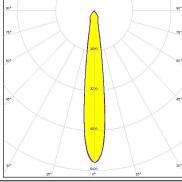
CITIZEN

LED CLL03x/CLU03x

FWHM 15.0°
Efficiency 91 %
Peak intensity 6.100 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030





CITIZEN

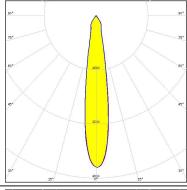
LED CLL03x/CLU03x

FWHM 17.0°
Efficiency 87 %
Peak intensity 4.500 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 433 Typ L1





CITIZEN

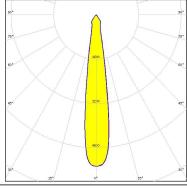
LED CLL03x/CLU03x

FWHM 17.0°
Efficiency 91 %
Peak intensity 5.500 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1





PHOTOMETRIC DATA (MEASURED):

CITIZEN

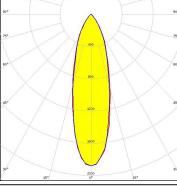
LED CLL04x/CLU04x

FWHM 30.0°
Efficiency 78 %
Peak intensity 1.900 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040

C12606_LENINA-DL





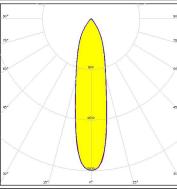
CITIZEN

LED CLL04x/CLU04x

FWHM 25.0°
Efficiency 87 %
Peak intensity 2.400 cd/lm
Required components:
C12606_LENINA-DL

IDEAL: 50-2204CT + 50-2100LN





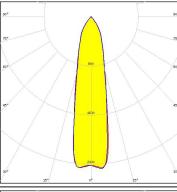
CITIZEN

LED CLL04x/CLU04x

FWHM 24.0°
Efficiency 83 %
Peak intensity 2.500 cd/lm
Required components:

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





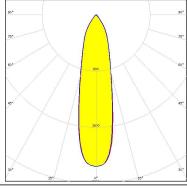
CITIZEN

LED CLL04x/CLU04x

FWHM 26.0°
Efficiency 79 %
Peak intensity 2.200 cd/lm
Required components:
C12606_LENINA-DL

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







PHOTOMETRIC DATA (MEASURED):

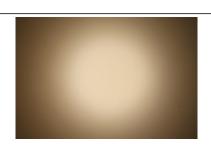
CITIZEN

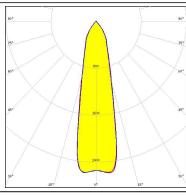
LED CLL04x/CLU04x

FWHM 26.0°
Efficiency 91 %
Peak intensity 2.600 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 431 Typ L3





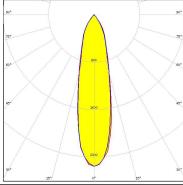
CITIZEN

LED CLL04x/CLU04x

FWHM 26.0°
Efficiency 86 %
Peak intensity 2.600 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040





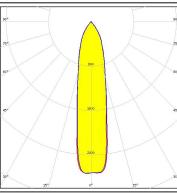
CITIZEN

LED CLL04x/CLU04x

FWHM 23.0°
Efficiency 90 %
Peak intensity 2.700 cd/lm
Required components:

IDEAL: 50-2204CT + 50-2100LN





CITIZEN

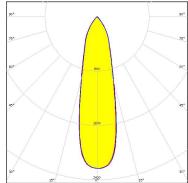
LED CLL04x/CLU04x

FWHM 27.0°
Efficiency 86 %
Peak intensity 2.200 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 431 Typ L3





PHOTOMETRIC DATA (MEASURED):

CITIZEN

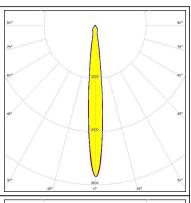
LED CLU700/701

FWHM 11.0°
Efficiency 86 %
Peak intensity 9.100 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 434 Typ L1





CITIZEN

LED CLU700/701

FWHM 8.0° Efficiency 91 %

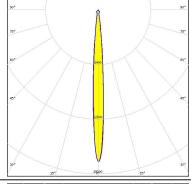
Peak intensity 17.800 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1





CITIZEN

LED CLU710/711

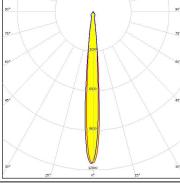
FWHM 10.0° Efficiency 94 %

Peak intensity 12.300 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030





CITIZEN

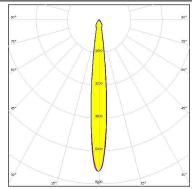
LED CLU710/711

FWHM 12.0°
Efficiency 89 %
Peak intensity 7.400 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030

C12606_LENINA-DL





PHOTOMETRIC DATA (MEASURED):

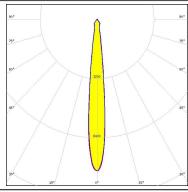
CITIZEN

LED CLU720/721

FWHM 12.0°
Efficiency 89 %
Peak intensity 8.200 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030





CITIZEN

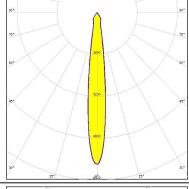
LED CLU720/721

FWHM 13.0°
Efficiency 84 %
Peak intensity 5.800 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030

C12606_LENINA-DL





CITIZEN

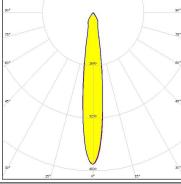
LED CLU730/731

FWHM 15.0°
Efficiency 85 %
Peak intensity 4.600 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040

C12606_LENINA-DL





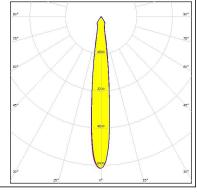
CITIZEN

LED CLU730/731

FWHM 14.0°
Efficiency 94 %
Peak intensity 6.500 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040





PHOTOMETRIC DATA (MEASURED):

CREE 💠

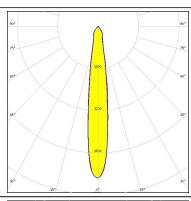
LED CMA1840 FWHM 15.0°

Efficiency 92 %

Peak intensity 5.700 cd/lm Required components:

C14146_LENA-STD-BASE-CXA18





CREE 🚓

LED CXA/B 15xx

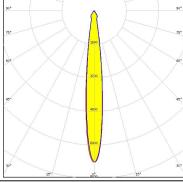
FWHM 13.0° Efficiency 87 % Peak intensity 7.200 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 441 Typ L1





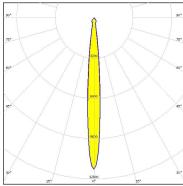
CREE 🚓

LED CXA/B 15xx

FWHM 10.0° Efficiency 91 % Peak intensity 12.050 cd/lm

Required components:

C13186_LENA-STD-BASE-CXA15



CREE 🕏

LED CXA/B 15xx

FWHM 10.0° Efficiency 91 %

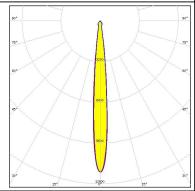
Peak intensity 11.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 441 Typ L1







PHOTOMETRIC DATA (MEASURED):

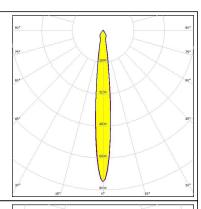
CREE 💠

LED CXA/B 15xx

FWHM 12.0° Efficiency 86 % Peak intensity 7.600 cd/lm Required components:

C13186_LENA-STD-BASE-CXA15

C12606_LENINA-DL



CREE ÷

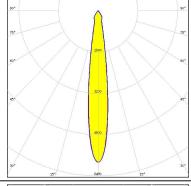
LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 15.0° 88 % Efficiency Peak intensity 5.900 cd/lm Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 437 Typ L1





CREE ÷

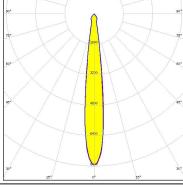
LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 13.0° Efficiency 92 % Peak intensity 8.000 cd/lm Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1





CREE 🚓

LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 12.0° 92 % Efficiency Peak intensity 9.600 cd/lm Required components:

C14146_LENA-STD-BASE-CXA18



PHOTOMETRIC DATA (MEASURED):

CREE 💠

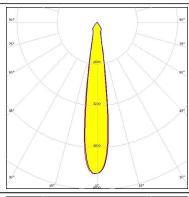
LED CXA/B 1830

FWHM 16.0°
Efficiency 93 %
Peak intensity 5.800 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1





CREE 💠

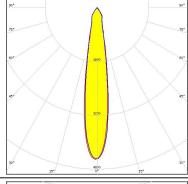
LED CXA/B 1830

FWHM 18.0°
Efficiency 88 %
Peak intensity 4.500 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 437 Typ L1





CREE 🚓

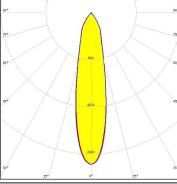
LED CXA/B 25xx

FWHM 23.0°
Efficiency 78 %
Peak intensity 2.700 cd/lm
Required components:

C13324_LENA-STD-BASE-CXA25

C12606_LENINA-DL





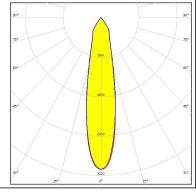
CREE \$

LED CXA/B 25xx

FWHM 22.0°
Efficiency 86 %
Peak intensity 3.200 cd/lm
Required components:

C13324_LENA-STD-BASE-CXA25







PHOTOMETRIC DATA (MEASURED):

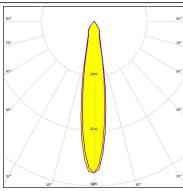
CREE 🚓

LED CXA2011 **FWHM** 16.0°

Efficiency 88 %

Peak intensity 4.400 cd/lm Required components:

C12105_LENA-STD-BASE-CXA20



CREE ÷

LED CXA2011

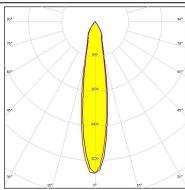
FWHM 20.0° 80 % Efficiency

Peak intensity 3.500 cd/lm

Required components:

C12105_LENA-STD-BASE-CXA20

C12606_LENINA-DL



EVERLIGHT

LED CHI3030 19W

FWHM 25.0° Efficiency 91 % Peak intensity 2.600 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 468 Typ L3



ERLIGHT

LED CHI3030 29W

FWHM 33.0° 87 % Efficiency Peak intensity 1.700 cd/lm Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 468 Typ L3





PHOTOMETRIC DATA (MEASURED):

MUMILEDS

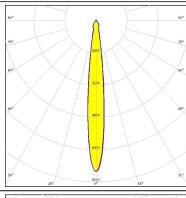
LED LUXEON CoB 1202/1203

FWHM 13.0°
Efficiency 88 %
Peak intensity 7.500 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 438 Typ L1





MILEDS

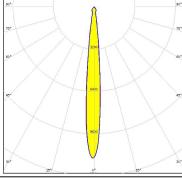
LED LUXEON CoB 1202/1203

FWHM 11.0°
Efficiency 92 %
Peak intensity 11.500 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 438 Typ L1





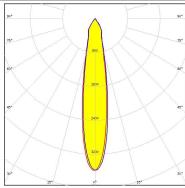
MUMILEDS

LED LUXEON CoB 1204/1205

FWHM 19.0°
Efficiency 84 %
Peak intensity 3.600 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ

C12606_LENINA-DL

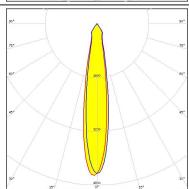


DESCRIPTION LUMILEDS

LED LUXEON CoB 1204/1205

FWHM 18.0°
Efficiency 88 %
Peak intensity 4.500 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ



PHOTOMETRIC DATA (MEASURED):

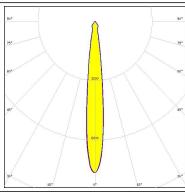
MUMILEDS

LED LUXEON CoB 1205HD

FWHM 12.0°
Efficiency 92 %
Peak intensity 8.200 cd/lm
Required components:

C11981_LENA-STD-BASE-COB-L110





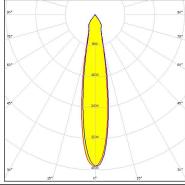
MILEDS

LED LUXEON CoB 1208

FWHM 20.0°
Efficiency 89 %
Peak intensity 3.900 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ





MUMILEDS

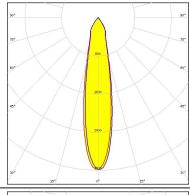
LED LUXEON CoB 1208

FWHM 21.0°
Efficiency 85 %
Peak intensity 3.200 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ

C12606_LENINA-DL





DESCRIPTION LUMILEDS

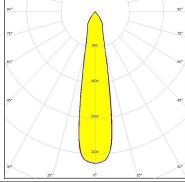
LED LUXEON CoB 1211

FWHM 22.0°
Efficiency 92 %
Peak intensity 3.400 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 431 Typ L3







PHOTOMETRIC DATA (MEASURED):

MUMILEDS

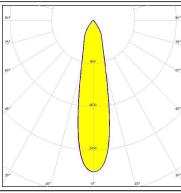
LED LUXEON CoB 1211

FWHM 23.0°
Efficiency 86 %
Peak intensity 2.800 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 431 Typ L3





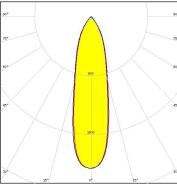
MUMILEDS

LED LUXEON CoB 1216/1812

FWHM 27.0°
Efficiency 81 %
Peak intensity 2.060 cd/lm
Required components:
C12606_LENINA-DL

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



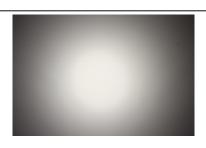


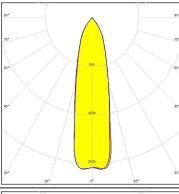
DESCRIPTION LUMILEDS

LED LUXEON CoB 1216/1812

FWHM 27.0°
Efficiency 91 %
Peak intensity 2.500 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040



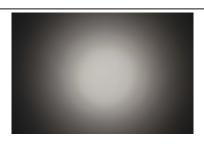


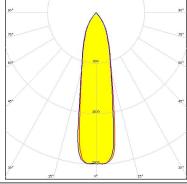
DESCRIPTION LUMILEDS

LED LUXEON CoB 1216/1812

FWHM 25.0°
Efficiency 85 %
Peak intensity 2.410 cd/lm
Required components:

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







PHOTOMETRIC DATA (MEASURED):

MUMILEDS

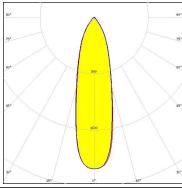
LED LUXEON CoB 1216/1812

FWHM 28.0°
Efficiency 87 %
Peak intensity 2.200 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040

C12606_LENINA-DL





MILEDS

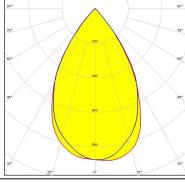
LED LUXEON K12

FWHM 17.5°
Efficiency 83 %
Peak intensity 3.700 cd/lm
Required components:

C12924_LENA-STD-BASE-LUXEON-K

C12606_LENINA-DL





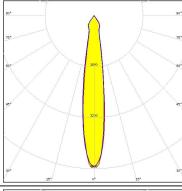
MUMILEDS

LED LUXEON K12

FWHM 16.0°
Efficiency 89 %
Peak intensity 4.800 cd/lm
Required components:

C12924_LENA-STD-BASE-LUXEON-K





DESCRIPTION LUMILEDS

LED LUXEON K16

FWHM 22.0°
Efficiency 80 %
Peak intensity 2.600 cd/lm
Required components:

C12924_LENA-STD-BASE-LUXEON-K

C12606_LENINA-DL





PHOTOMETRIC DATA (MEASURED):

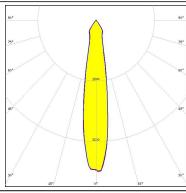


LED LUXEON K16

FWHM 18.0°
Efficiency 87 %
Peak intensity 4.000 cd/lm
Required components:

C12924_LENA-STD-BASE-LUXEON-K





ELUMINUS

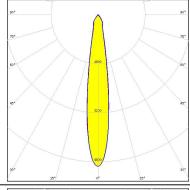
LED CDM-14 (Dim-To-Warm)

FWHM 16.0°
Efficiency 88 %
Peak intensity 4.900 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 491 Typ L2





ELUMINUS

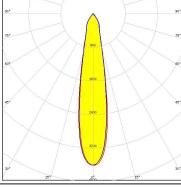
LED CDM-18 (Dim-To-Warm)

FWHM 21.0°
Efficiency 88 %
Peak intensity 3.600 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 491 Typ L2





LUMINUS

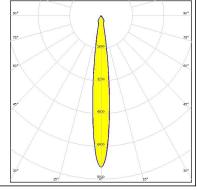
LED CDM-9 (Dim-To-Warm)

FWHM 13.0°
Efficiency 87 %
Peak intensity 7.400 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 490 Typ L1







PHOTOMETRIC DATA (MEASURED):



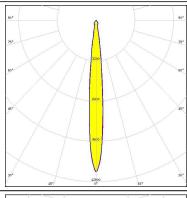
LED CDM-9 (Dim-To-Warm)

FWHM 11.0°
Efficiency 92 %
Peak intensity 12.000 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 490 Typ L1





ELUMINUS

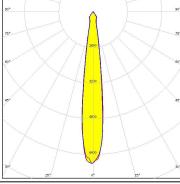
LED CTM-14 (Tunable White)

FWHM 15.0°
Efficiency 92 %
Peak intensity 6.800 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 442 Typ L3





ELUMINUS

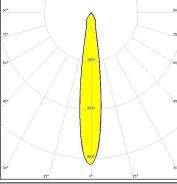
LED CTM-14 (Tunable White)

FWHM 16.0°
Efficiency 87 %
Peak intensity 5.000 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 442 Typ L3





LUMINUS

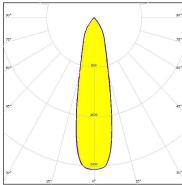
LED CTM-22 (Tunable White)

FWHM 26.0°
Efficiency 87 %
Peak intensity 2.400 cd/lm
Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 494 Typ L3





PHOTOMETRIC DATA (MEASURED):

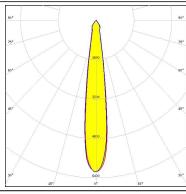
ELUMINUS

LED CXM-14
FWHM 16.0°
Efficiency 93 %
Peak intensity 6.200 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030





ELUMINUS

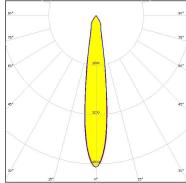
LED CXM-14
FWHM 17.0°
Efficiency 88 %
Peak intensity 4.900 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030

C12606_LENINA-DL





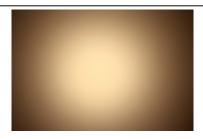
ELUMINUS

LED CXM-22
FWHM 28.0°
Efficiency 88 %
Peak intensity 2.300 cd/lm

Required components:

C12692_LENA-STD-BASE-CLL040

C12606_LENINA-DL



WNICHIA

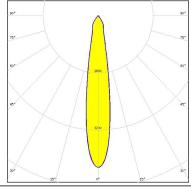
LED COB J-Type

FWHM 18.0°
Efficiency 88 %
Peak intensity 4.200 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 463 Typ L2





PHOTOMETRIC DATA (MEASURED):

WNICHIA

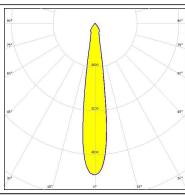
LED COB J-Type

FWHM 17.0°
Efficiency 92 %
Peak intensity 5.600 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 463 Typ L2





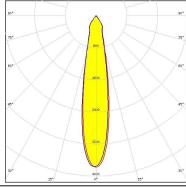
WNICHIA

LED COB J-Type

FWHM 20.0°
Efficiency 88 %
Peak intensity 3.790 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ





WNICHIA

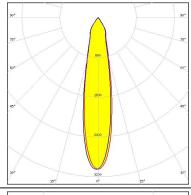
LED COB J-Type

FWHM 21.0°
Efficiency 83 %
Peak intensity 3.060 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ

C12606_LENINA-DL





WNICHIA

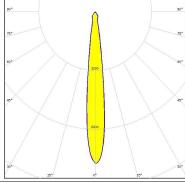
LED COB L-Type (LES 11)

FWHM 13.0°
Efficiency 91 %
Peak intensity 8.300 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 438 Typ L1





PHOTOMETRIC DATA (MEASURED):

WNICHIA

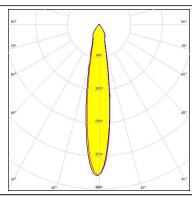
LED COB L-Type (LES 11)

FWHM 18.0°
Efficiency 81 %
Peak intensity 3.700 cd/lm
Required components:

C11981_LENA-STD-BASE-COB-L110

C12606_LENINA-DL





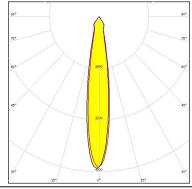
WNICHIA

LED COB L-Type (LES 11)

FWHM 17.0°
Efficiency 85 %
Peak intensity 4.700 cd/lm
Required components:

C11981_LENA-STD-BASE-COB-L110





WNICHIA

LED COB L-Type (LES 11)

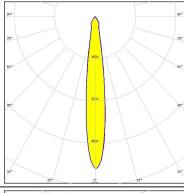
FWHM 15.0°
Efficiency 87 %
Peak intensity 5.800 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 438 Typ L1





WNICHIA

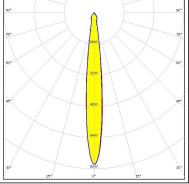
LED COB L-Type (LES 9)

FWHM 12.0°
Efficiency 90 %
Peak intensity 7.800 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 438 Typ L1





PHOTOMETRIC DATA (MEASURED):

WNICHIA

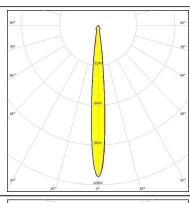
LED COB L-Type (LES 9)

FWHM 10.0°
Efficiency 94 %
Peak intensity 12.100 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 438 Typ L1





OSRAM Opto Semiconductors

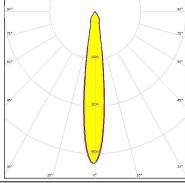
LED Soleriq S13

FWHM 16.0°
Efficiency 86 %
Peak intensity 5.100 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 437 Typ L1





OSRAM Opto Semicondi

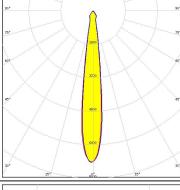
LED Soleriq S13

FWHM 14.0°
Efficiency 91 %
Peak intensity 7.200 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1





OSRAM Opto Semiconductors

LED

Soleriq S19

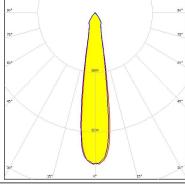
FWHM 19.0° Efficiency 92 % Peak intensity 4.100 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 462 Typ L3







PHOTOMETRIC DATA (MEASURED):

OSRAM

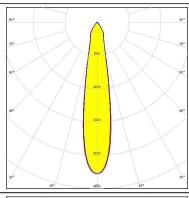
LED Soleriq S19 FWHM 20.0° Efficiency 88 %

Peak intensity 3.700 cd/lm Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 462 Typ L3





SAMSUNG

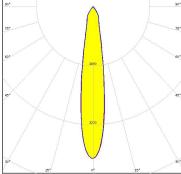
LED COB D Series LES 14.5 mm

FWHM 18.0°
Efficiency 87 %
Peak intensity 4.100 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030

C12606_LENINA-DL





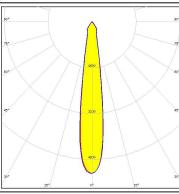
SAMSUNG

LED COB D Series LES 14.5 mm

FWHM 16.0°
Efficiency 91 %
Peak intensity 5.300 cd/lm
Required components:

C12691_LENA-STD-BASE-CLL030





SAMSUNG

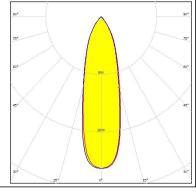
LED COB D Series LES 22 mm

FWHM 29.0°
Efficiency 87 %
Peak intensity 2.100 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040

C12606_LENINA-DL







PHOTOMETRIC DATA (MEASURED):

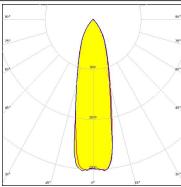
SAMSUNG

LED COB D Series LES 22 mm

FWHM 28.0°
Efficiency 91 %
Peak intensity 2.400 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040





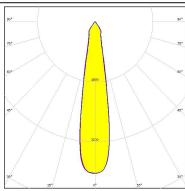
SAMSUNG

LED LC026B / 033B / 040B

FWHM 20.0°
Efficiency 91 %
Peak intensity 4.000 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 450 Typ L2



SAMSUNG

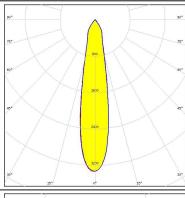
LED LC026B / 033B / 040B

FWHM 21.0°
Efficiency 87 %
Peak intensity 3.300 cd/lm
Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 450 Typ L2





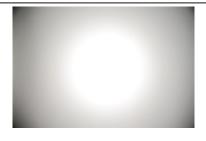


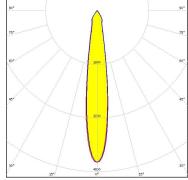
LED ZC12/18
FWHM 16.0°
Efficiency 85 %
Peak intensity 4.530 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030

C12606_LENINA-DL





PHOTOMETRIC DATA (MEASURED):

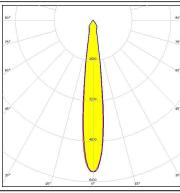


LED ZC12/18
FWHM 15.0°
Efficiency 90 %
Peak intensity 6.000 cd/lm

Required components:

C12691_LENA-STD-BASE-CLL030





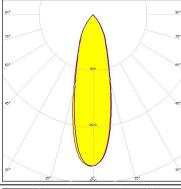


LED ZC25/40/60 FWHM 29.0° Efficiency 86 % Peak intensity 2.200 cd/lm

Required components:

C12692_LENA-STD-BASE-CLL040







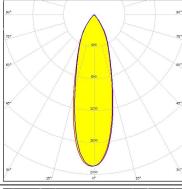
LED ZC25/40/60

FWHM 30.0°
Efficiency 82 %
Peak intensity 1.900 cd/lm
Required components:

C12692_LENA-STD-BASE-CLL040

C12606_LENINA-DL





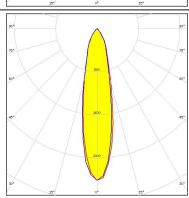
SHARP

LED Mega Zenigata (GW5DGC)

FWHM 24.0°
Efficiency 80 %
Peak intensity 2.800 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ

C12606_LENINA-DL



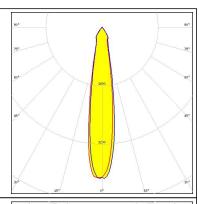
PHOTOMETRIC DATA (MEASURED):

SHARP

LED Mega Zenigata (GW5DGC)

FWHM 17.0° Efficiency 88 % Peak intensity cd/lm Required components:

C12292_LENA-STD-BASE-MEZ



SHARP

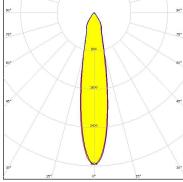
LED Mega Zenigata (GW6DME)

FWHM 21.0°
Efficiency 83 %
Peak intensity 3.170 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ

C12606_LENINA-DL





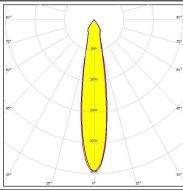
SHARP

LED Mega Zenigata (GW6DME)

FWHM 19.0°
Efficiency 88 %
Peak intensity 3.940 cd/lm
Required components:

C12292_LENA-STD-BASE-MEZ







PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED V10 Gen7 FWHM 16.0° Efficiency 85 %

Peak intensity 5.510 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 434 Typ L1 250 Sept. Se

bridgelux.

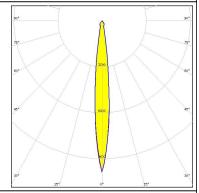
LED V10 Gen7 FWHM 11.0° Efficiency 91 %

Peak intensity 10.560 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1



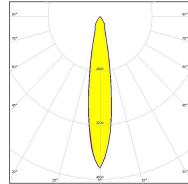
bridgelux.

LED V13 Gen7
FWHM 18.0°
Efficiency 86 %
Peak intensity 4.480 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 477 Typ L1

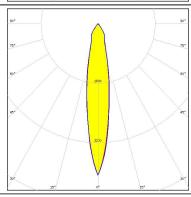


bridgelux.

LED V13 Gen7
FWHM 18.0°
Efficiency 90 %
Peak intensity 4.080 cd/lm

Required components:

IDEAL: 50-2103CT + 50-2100AN





PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED V13 Gen7

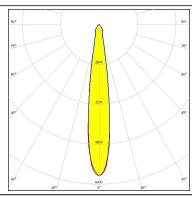
FWHM 16.0° Efficiency 91 %

Peak intensity 6.070 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 477 Typ L1



bridgelux.

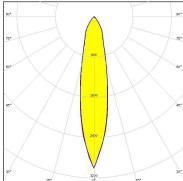
LED V13 Gen7

FWHM 22.0° Efficiency 87 %

Peak intensity 3.000 cd/lm

Required components: C12606_LENINA-DL

IDEAL: 50-2103CT + 50-2100AN



bridgelux

LED V22 Gen7

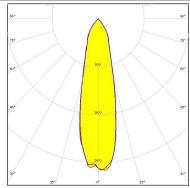
FWHM 27.0° Efficiency 90 %

Peak intensity 2.682 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 431 Typ L3



bridgelux.

LED V22 Gen7

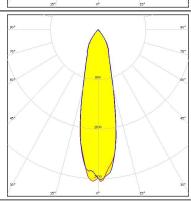
FWHM 26.0° Efficiency 87 %

Peak intensity 2.528 cd/lm

Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 431 Typ L3



PHOTOMETRIC DATA (SIMULATED):

CREE 💠

LED CXA/B 13xx

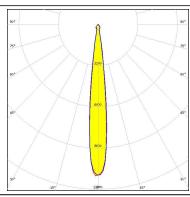
FWHM 12.0° Efficiency 94 %

Peak intensity 11.830 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 448 Typ L1



CREE \$

LED CXA/B 13xx

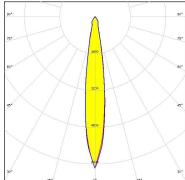
FWHM 15.0° Efficiency 91 %

Peak intensity 6.590 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 448 Typ L1



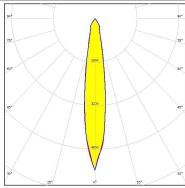
CREE 🕏

LED CXA/B 1830

FWHM 16.0° Efficiency 93 % Peak intensity 5.580 cd/lm

Required components:

C14146_LENA-STD-BASE-CXA18



CREE 🕏

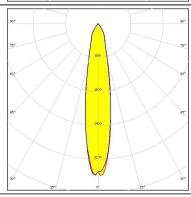
LED CXA/B 1830

FWHM 19.0° Efficiency 84 % Peak intensity 3.640 cd/lm

Required components:

C14146_LENA-STD-BASE-CXA18

C12606_LENINA-DL





PHOTOMETRIC DATA (SIMULATED):

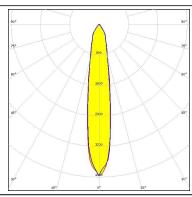
CREE 💠

LED CXA/B 30xx **FWHM** 18.0° Efficiency 90 %

Peak intensity 4.000 cd/lm

Required components:

IDEAL: 50-2234C + 50-2100LN



CREE ÷

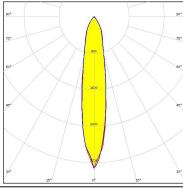
LED CXA/B 30xx

FWHM 19.0° 84 % Efficiency

Peak intensity 3.300 cd/lm

Required components: C12606_LENINA-DL

IDEAL: 50-2234C + 50-2100LN



ELUMINUS

LED CXM-14 **FWHM** 17.0° Efficiency 91 %

Peak intensity 5.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1

ELUMINUS

LED CXM-14 **FWHM** 17.0° 87 % Efficiency Peak intensity 4.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (SIMULATED):

ELUMINUS

LED CXM-9 13.0° **FWHM** Efficiency 86 % Peak intensity 6.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 434 Typ L1

ELUMINUS

LED CXM-9 **FWHM** 11.0° 91 % Efficiency

Peak intensity 10.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

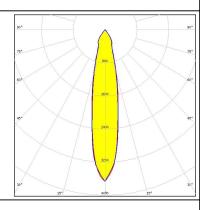
Bender Wirth: 434 Typ L1

OSRAM Opto Semisor

LED Soleriq S15 **FWHM** 20.0° Efficiency 91 % 3.660 cd/lm Peak intensity

Required components:

C12691_LENA-STD-BASE-CLL030





ZC12/18 **LED FWHM** 17.0° 87 % Efficiency Peak intensity 4.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (SIMULATED):



LED ZC12/18 FWHM 17.0° Efficiency 91 %

Peak intensity 5.500 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1



LED ZC4/6 **FWHM** 13.0° 86 % Efficiency

Peak intensity 6.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

C12606_LENINA-DL Bender Wirth: 434 Typ L1



LED ZC4/6 **FWHM** 11.0° Efficiency 91 %

Peak intensity 10.900 cd/lm

Required components:

C13868_LENA-STD-BASE-VERO13-18

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.

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