

LENA-W

~45° wide beam

TECHNICAL SPECIFICATIONS:

Dimensions Ø 111.0 mm

Height 80 mm
Fastening socket
Colour metal

Box size 400 x 280 x 380 mm

Box weight 4 kg

Quantity in Box 60 pcs

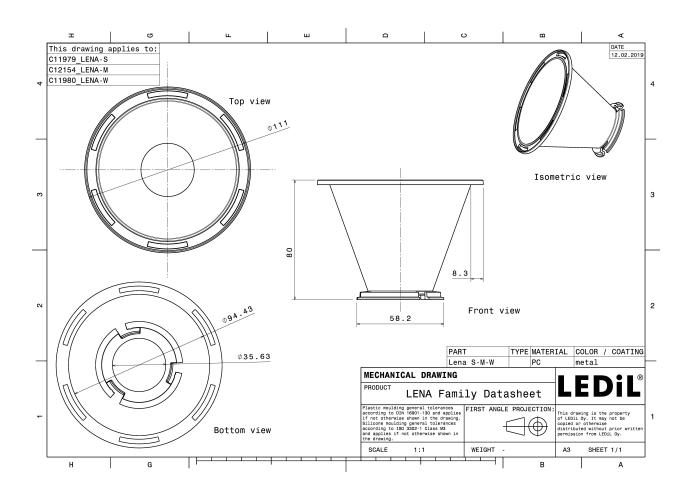
ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourCoatingLENA-WReflectorPCmetallacquer





PHOTOMETRIC DATA (MEASURED):

bridgelux

LED BXRA ES Rectangle

FWHM 46.0°
Efficiency 74 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

C12153_LENA-STD-BASE-BXRA

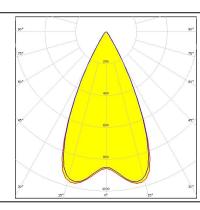
C11996_LENA-LENS

bridgelux.

LED BXRA RS
FWHM 51.0°
Efficiency 76 %
Peak intensity cd/Im
LEDs/each optic 1
Light colour White
Required components:

C12229_LENA-STD-BASE-RS

C11996_LENA-LENS



bridgelux

LED BXRA RS
FWHM 51.0°
Efficiency 81 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

C12229_LENA-STD-BASE-RS

bridgelux.

LED V10 Gen6
FWHM 39.0°
Efficiency 74 %
Peak intensity 1.870 cd/lm

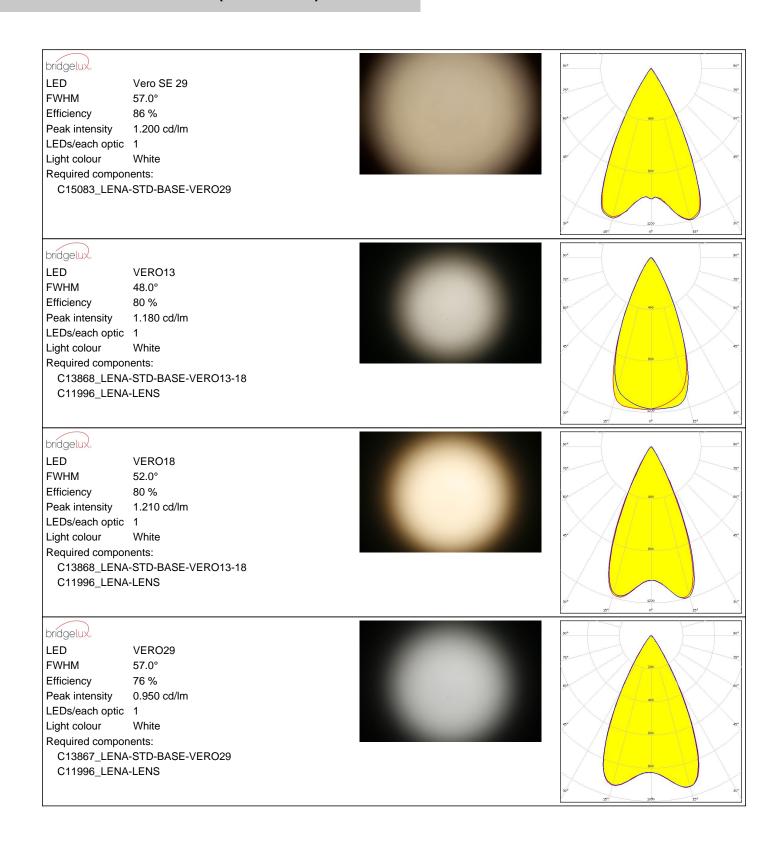
LEDs/each optic 1 Light colour White Required components:

C13186_LENA-STD-BASE-CXA15

C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CL-L340 **FWHM** 45.0° 75 % Efficiency Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

C11995_LENA-STD-BASE-CL340

C11996_LENA-LENS

CITIZEN

LED CLL02x/CLU02x (LES10)

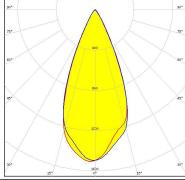
FWHM 45.0° 81 % Efficiency Peak intensity 1.500 cd/lm LEDs/each optic 1

Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 434 Typ L1





LED CLL03x/CLU03x

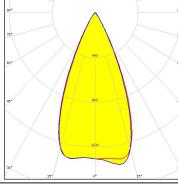
FWHM 47.0° Efficiency 80 % Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS





CITIZEN

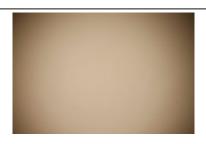
CLL03x/CLU03x

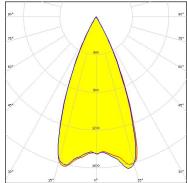
FWHM 47.0° Efficiency 81 % 1.300 cd/lm Peak intensity LEDs/each optic 1

White Light colour Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 433 Typ L1





PHOTOMETRIC DATA (MEASURED):

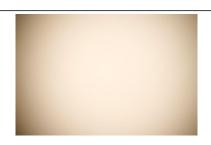
CITIZEN

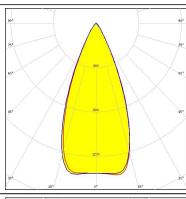
LED CLL03x/CLU03x

FWHM 45.0° Efficiency 79 % Peak intensity 1.400 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS

A.A.G. STUCCHI: 8101/G2 + S-8000/11





CITIZEN

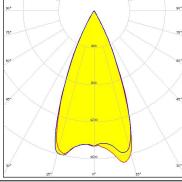
LED CLL03x/CLU03x

FWHM 47.0°
Efficiency 85 %
Peak intensity 1.700 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:

C12691_LENA-STD-BASE-CLL030





CITIZEN

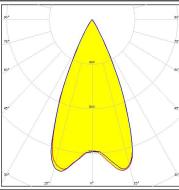
LED CLL04x/CLU04x

FWHM 50.0° Efficiency 81 % Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

IDEAL: 50-2204CT + 50-2100LN





CITIZEN

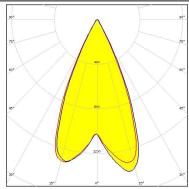
LED CLL04x/CLU04x

FWHM 52.0° Efficiency 86 % Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12692_LENA-STD-BASE-CLL040





PHOTOMETRIC DATA (MEASURED):

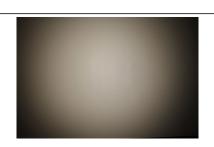
CITIZEN

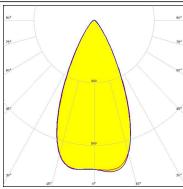
LED CLL04x/CLU04x

FWHM 50.0° Efficiency 73 % Peak intensity 1.000 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS

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





CITIZEN

LED CLL04x/CLU04x

FWHM 46.0° Efficiency 76 % Peak intensity 1.090 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12692_LENA-STD-BASE-CLL040

C11996_LENA-LENS



CITIZEN

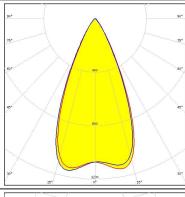
LED CLL04x/CLU04x

FWHM 49.0° Efficiency 77 % Peak intensity 1.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS

IDEAL: 50-2204CT + 50-2100LN





CITIZEN

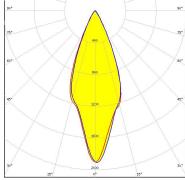
LED CLU700/701
FWHM 39.0°
Efficiency 81 %
Peak intensity 1.900 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 434 Typ L1





PHOTOMETRIC DATA (MEASURED):

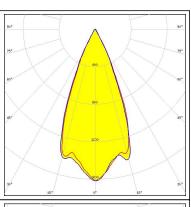
CITIZEN

LED CLU720/721
FWHM 44.0°
Efficiency 81 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1

Light colour White Required components:

C12691_LENA-STD-BASE-CLL030





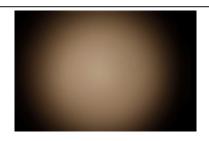
CITIZEN

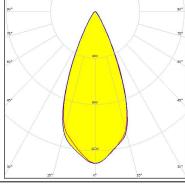
LED CLU720/721
FWHM 46.0°
Efficiency 76 %
Peak intensity 1.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS





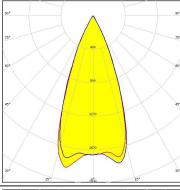
CREE 🚓

LED CMA1840 FWHM 43.0° Efficiency 86 % Peak intensity 1.800 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C14146_LENA-STD-BASE-CXA18





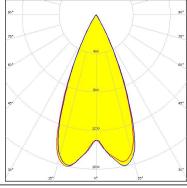
CREE \$

LED CMA2550
FWHM 49.0°
Efficiency 86 %
Peak intensity 1.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13324_LENA-STD-BASE-CXA25





PHOTOMETRIC DATA (MEASURED):

CREE \$

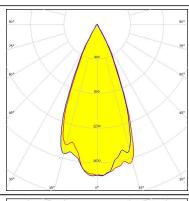
LED CMT14xx **FWHM** 44.0° 85 % Efficiency Peak intensity 1.750 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1





CREE

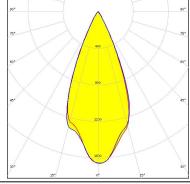
LED CXA/B 15xx **FWHM** 44.0° Efficiency Peak intensity 1.700 cd/lm

LEDs/each optic 1 White Light colour Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 441 Typ L1





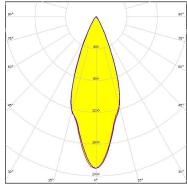
CREE 🕏

LED CXA/B 15xx **FWHM** 38.0° Efficiency 77 % Peak intensity 1.910 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13186_LENA-STD-BASE-CXA15

C11996_LENA-LENS



CREE ÷

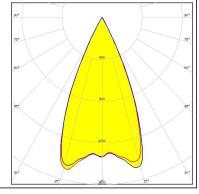
LED CXA/B 1830 **FWHM** 49.0° Efficiency 82 % 1.500 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:

C13868_LENA-STD-BASE-VERO13-18

C14169_LENA-CLEAR-LENS Bender Wirth: 437 Typ L1





PHOTOMETRIC DATA (MEASURED):

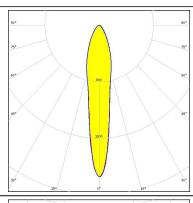
CREE \$

LED CXA/B 1830
FWHM 17.0°
Efficiency 74 %
Peak intensity 2.200 cd/lm
LEDs/each optic 1

Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18 C12231_LENA-FRESNEL-LENS Bender Wirth: 437 Typ L1





CREE &

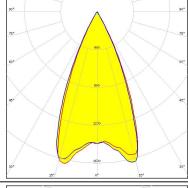
LED CXA/B 1830
FWHM 48.0°
Efficiency 87 %
Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 437 Typ L1





CREE 🚓

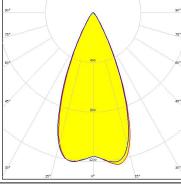
LED CXA/B 25xx FWHM 44.0°
Efficiency 76 % Peak intensity 1.300 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13324_LENA-STD-BASE-CXA25

C11996_LENA-LENS





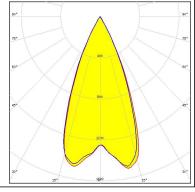
CREE 🕏

LED CXA/B 25xx FWHM 44.0° Efficiency 81 % Peak intensity 1.500 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13324_LENA-STD-BASE-CXA25







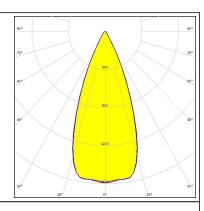
PHOTOMETRIC DATA (MEASURED):

CREE ÷

LED CXA2011
FWHM 42.0°
Efficiency 75 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

C12105_LENA-STD-BASE-CXA20

C11996_LENA-LENS



EVERLIGHT

LED CHI3030 19W

FWHM 50.0° Efficiency 81 % Peak intensity 1.200 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS Bender Wirth: 468 Typ L3



EVERLIGHT

LED CHI3030 29W

FWHM 53.0° Efficiency 78 % Peak intensity 1.000 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS Bender Wirth: 468 Typ L3



MUMILEDS

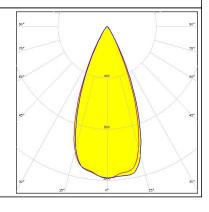
LED LUXEON CoB 1204/1205

FWHM 44.0° Efficiency 68 % Peak intensity 1.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):



LED LUXEON CoB 1205HD

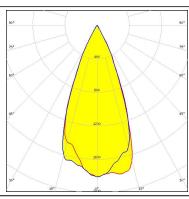
FWHM 43.0°
Efficiency 85 %
Peak intensity 1.800 cd/lm
LEDs/each optic 1

Required components:

C11981_LENA-STD-BASE-COB-L110

White





MUMILEDS

Light colour

LED LUXEON CoB 1208

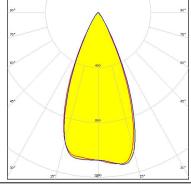
FWHM 46.0°
Efficiency 68 %
Peak intensity 1.100 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS





MILEDS

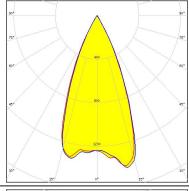
LED LUXEON CoB 1208

FWHM 46.0° Efficiency 73 % Peak intensity 1.400 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12292_LENA-STD-BASE-MEZ





DESCRIPTION LUMILEDS

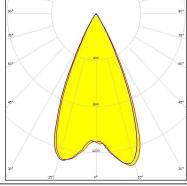
LED LUXEON CoB 1216/1812

FWHM 51.0° Efficiency 79 % Peak intensity 1.350 cd/lm

LEDs/each optic 1
Light colour White
Required components:

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





PHOTOMETRIC DATA (MEASURED):



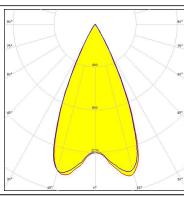
LED LUXEON CoB 1216/1812

FWHM 51.0°
Efficiency 86 %
Peak intensity 1.460 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12692_LENA-STD-BASE-CLL040





MUMILEDS

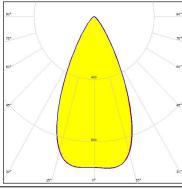
LED LUXEON CoB 1216/1812

FWHM 50.0° Efficiency 75 % Peak intensity 0.980 cd/lm

LEDs/each optic 1
Light colour White
Required components:
C11996_LENA-LENS

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





UMILEDS

LED LUXEON CoB 1216/1812

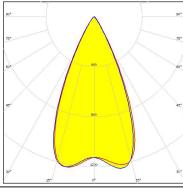
FWHM 50.0° Efficiency 81 % Peak intensity 1.200 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12692_LENA-STD-BASE-CLL040

C11996_LENA-LENS





DESCRIPTION

LED LUXEON K12

FWHM 45.0°
Efficiency 74 %
Peak intensity 1.400 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12924_LENA-STD-BASE-LUXEON-K

C11996_LENA-LENS



PHOTOMETRIC DATA (MEASURED):



LED LUXEON K16

FWHM 46.0° Efficiency 72 % Peak intensity 1.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12924_LENA-STD-BASE-LUXEON-K

C11996_LENA-LENS



ELUMINUS

LED CDM-14 (Dim-To-Warm)

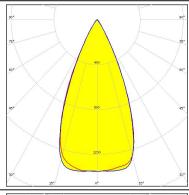
FWHM 47.0° Efficiency 82 % Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 491 Typ L2





ELUMINUS

LED CDM-14 (Dim-To-Warm)

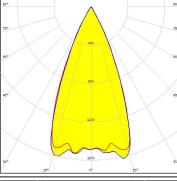
FWHM 47.0° Efficiency 87 % Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 491 Typ L2





LUMINUS

LED CDM-18 (Dim-To-Warm)

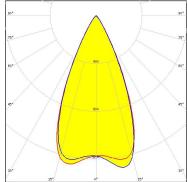
FWHM 48.0°
Efficiency 82 %
Peak intensity 1.300 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 491 Typ L2





PHOTOMETRIC DATA (MEASURED):



LED CDM-18 (Dim-To-Warm)

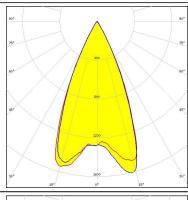
FWHM 50.0° Efficiency 87 % Peak intensity 1.600 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 491 Typ L2





ELUMINUS

LED CDM-9 (Dim-To-Warm)

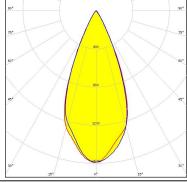
FWHM 44.0°
Efficiency 82 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 490 Typ L1





ELUMINUS

LED CDM-9 (Dim-To-Warm)

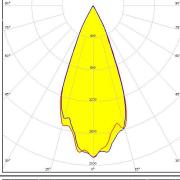
FWHM 44.0° Efficiency 87 % Peak intensity 1.900 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 490 Typ L1





LUMINUS

LED CTM-14 (Tunable White)

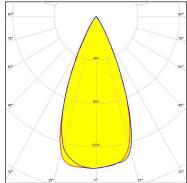
FWHM 46.0°
Efficiency 81 %
Peak intensity 1.400 cd/lm
LEDs/each optic 1

Light colour White
Required components:

C13867_LENA-STD-BASE-VERO29

C12606_LENINA-DL Bender Wirth: 442 Typ L3





PHOTOMETRIC DATA (MEASURED):



LED CTM-14 (Tunable White)

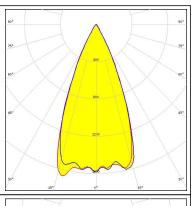
FWHM 45.0°
Efficiency 86 %
Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 442 Typ L3





ELUMINUS

LED CTM-18 (Tunable White)

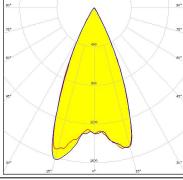
FWHM 49.0°
Efficiency 87 %
Peak intensity 1.600 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 442 Typ L3





ELUMINUS

LED CTM-18 (Tunable White)

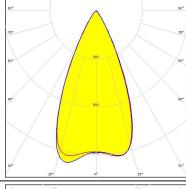
FWHM 49.0° Efficiency 81 % Peak intensity 1.300 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS Bender Wirth: 442 Typ L3





LUMINUS

LED CTM-22 (Tunable White)

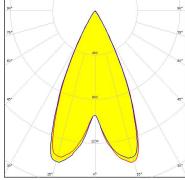
FWHM 55.0°
Efficiency 86 %
Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

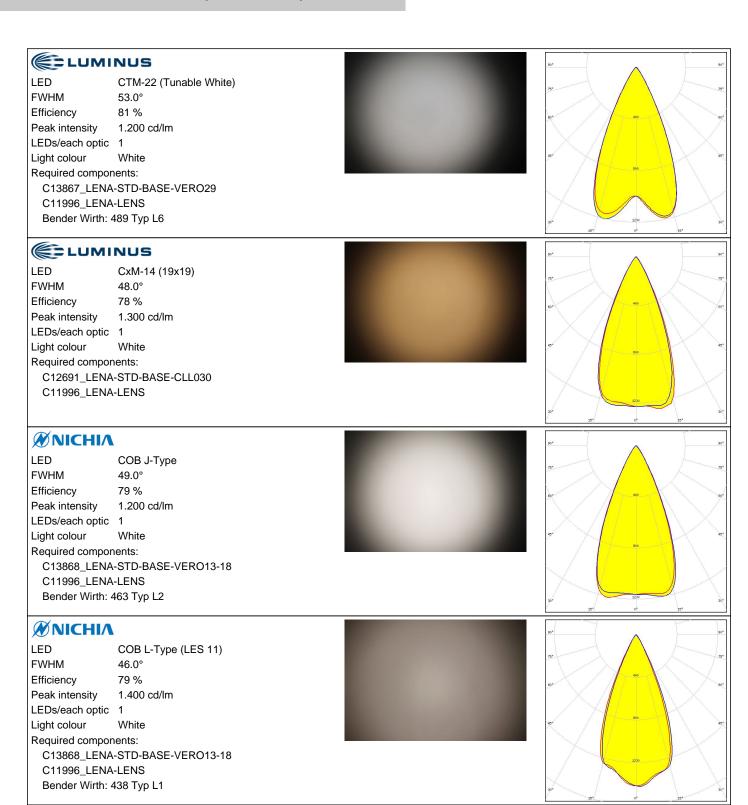
C13867_LENA-STD-BASE-VERO29

Bender Wirth: 494 Typ L3





PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

WNICHIA

LED COB L-Type (LES 9)

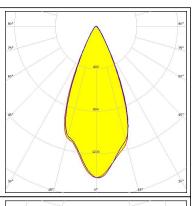
FWHM 45.0° Efficiency 79 % Peak intensity 1.400 cd/lm LEDs/each optic 1

Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 438 Typ L1





WNICHIA

LED NVCWJ024Z-V1MT: COB J-Type Tunable White

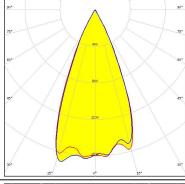
FWHM 45.0° 86 % Efficiency 1.700 cd/lm Peak intensity LEDs/each optic 1

Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 498 Typ L2





WNICHIA

LED NVCWJ024Z-V1MT: COB J-Type Tunable White

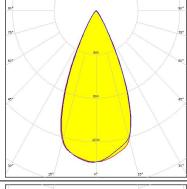
FWHM 46.0° Efficiency 81 % Peak intensity 1.400 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 498 Typ L2





OSRAM Opto Semiconductors

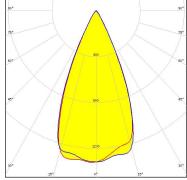
LED Soleriq S13 **FWHM** 47.0° 78 % Efficiency 1.400 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 437 Typ L1





PHOTOMETRIC DATA (MEASURED):

OSRAM

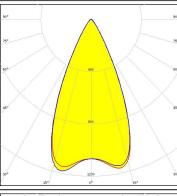
Department of the control of the con

Light colour White Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS Bender Wirth: 462 Typ L3





PHILIPS

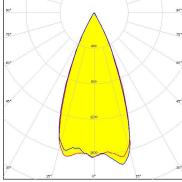
LED Fortimo SLM L13 CoB

FWHM 44.0°
Efficiency 85 %
Peak intensity 1.800 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12292_LENA-STD-BASE-MEZ





PHILIPS

LED Fortimo SLM L13 CoB

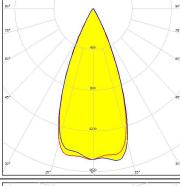
FWHM 44.0° Efficiency 79 % Peak intensity 1.500 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS





PHILIPS

LED Fortimo SLM L15 CoB

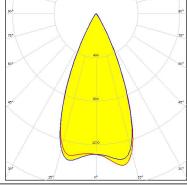
FWHM 46.0° Efficiency 79 % Peak intensity 1.400 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS





PHOTOMETRIC DATA (MEASURED):

PHILIPS

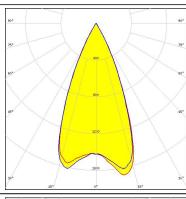
LED Fortimo SLM L15 CoB

FWHM 47.0° Efficiency 85 % Peak intensity 1.700 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12292_LENA-STD-BASE-MEZ





PHILIPS

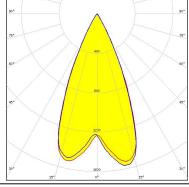
LED Fortimo SLM L19 CoB

FWHM 50.0° Efficiency 85 % Peak intensity 1.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12692_LENA-STD-BASE-CLL040





PHILIPS

LED Fortimo SLM L19 CoB

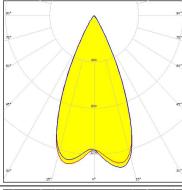
FWHM 48.0° Efficiency 79 % Peak intensity 1.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12692_LENA-STD-BASE-CLL040

C11996_LENA-LENS





PHILIPS

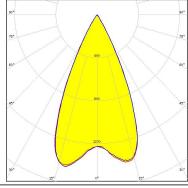
LED Fortimo SLM L23 CoB

FWHM 51.0° Efficiency 85 % Peak intensity 1.450 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12692_LENA-STD-BASE-CLL040





PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED Fortimo SLM L23 CoB

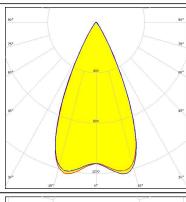
FWHM 50.0° Efficiency 79 % Peak intensity 1.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12692_LENA-STD-BASE-CLL040

C11996_LENA-LENS





SAMSUNG

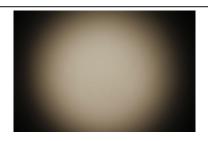
LED COB D Series LES 14.5 mm

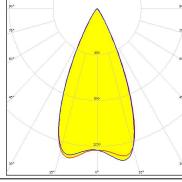
FWHM 49.0°
Efficiency 81 %
Peak intensity 1.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS





SAMSUNG

LED COB D Series LES 22 mm

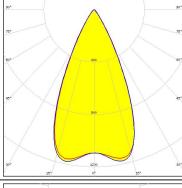
FWHM 51.0° Efficiency 81 % Peak intensity 1.200 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12692_LENA-STD-BASE-CLL040

C11996_LENA-LENS





SEOUL SEMICONDUCTOR

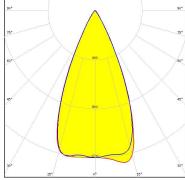
LED ZC12/18
FWHM 48.0°
Efficiency 77 %
Peak intensity 1.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C12691_LENA-STD-BASE-CLL030

C11996_LENA-LENS





PHOTOMETRIC DATA (MEASURED):

LED Mega Zenigata (GW5DGC)

FWHM 44.0° 75 % Efficiency Peak intensity cd/lm LEDs/each optic 1 Light colour White Required components:

C12292_LENA-STD-BASE-MEZ

C11996_LENA-LENS

LED Mega Zenigata (GW5DGC)

FWHM 44.0° 80 % Efficiency Peak intensity cd/lm LEDs/each optic 1 White Light colour Required components:

C12292_LENA-STD-BASE-MEZ

TRIDONIC

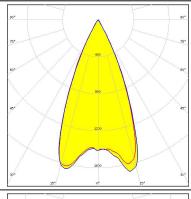
LED SLE G7 LES15

FWHM 48.0° Efficiency 88 % Peak intensity 1.700 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12691_LENA-STD-BASE-CLL030





TRIDONIC

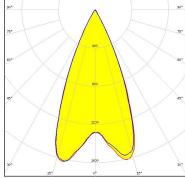
LED SLE G7 LES17 H

FWHM 49.0° Efficiency 86 % Peak intensity 1.600 cd/lm

LEDs/each optic 1 White Light colour Required components:

C14547_LENA-ADAPTER-B







PHOTOMETRIC DATA (MEASURED):

TRIDONIC

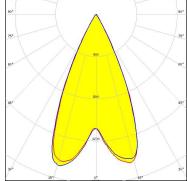
LED SLE G7 LES21 H

FWHM 52.0°
Efficiency 86 %
Peak intensity 1.500 cd/lm
LEDs/each optic 1

Light colour White Required components:

C14547_LENA-ADAPTER-B





PHOTOMETRIC DATA (SIMULATED):

bridgelux

 LED
 V10 Gen7

 FWHM
 46.0°

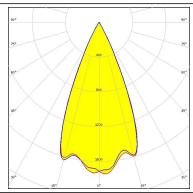
 Efficiency
 88 %

 Peak intensity
 1.770 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 486 Typ L1



bridgelux.

 LED
 V10 Gen7

 FWHM
 44.0°

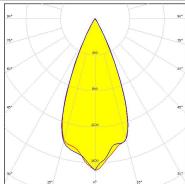
 Efficiency
 81 %

 Peak intensity
 1.690 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 486 Typ L1



bridgelux.

 LED
 V13 Gen7

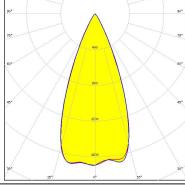
 FWHM
 44.0°

 Efficiency
 87 %

 Peak intensity
 1.700 cd/lm

LEDs/each optic 1
Light colour White
Required components:

IDEAL: 50-2103CT + 50-2100LN



bridgelux.

 LED
 V13 Gen7

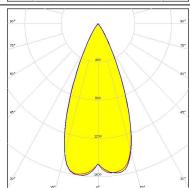
 FWHM
 42.0°

 Efficiency
 85 %

 Peak intensity
 1.600 cd/lm

LEDs/each optic 1 Light colour White Required components: C11996_LENA-LENS

IDEAL: 50-2103CT + 50-2100LN



PHOTOMETRIC DATA (SIMULATED):

bridgelux

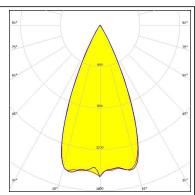
LED V13 Gen7 **FWHM** 47.0° Efficiency 82 % Peak intensity 1.470 cd/lm

LEDs/each optic 1 Light colour White

Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 477 Typ L1



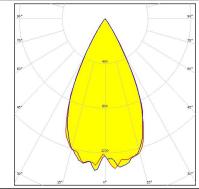
bridgelux.

LED V22 Gen7 **FWHM** 51.0° 87 % Efficiency Peak intensity 1.402 cd/lm

LEDs/each optic 1 White Light colour Required components:

C13867_LENA-STD-BASE-VERO29

C11996_LENA-LENS Bender Wirth: 431 Typ L3



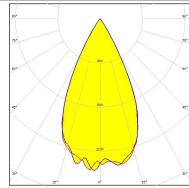
bridgelux.

LED V22 Gen7 **FWHM** 51.0° Efficiency 87 % Peak intensity 1.415 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13867_LENA-STD-BASE-VERO29

Bender Wirth: 431 Typ L3

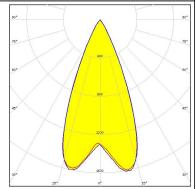


CREE &

LED CXA/B 30xx **FWHM** 42.0° Efficiency 86 % 1.600 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:

IDEAL: 50-2234C + 50-2100LN





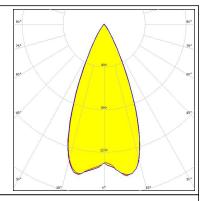
PHOTOMETRIC DATA (SIMULATED):

CREE ÷

LED CXA/B 30xx **FWHM** 43.0° 81 % Efficiency Peak intensity 1.500 cd/lm

LEDs/each optic 1 Light colour White Required components: C11996_LENA-LENS

IDEAL: 50-2234C + 50-2100LN



ELUMINUS

LED CxM-14 (19x19)

FWHM 47.0° 86 % Efficiency Peak intensity 1.600 cd/lm

LEDs/each optic 1 White Light colour Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1

ELUMINUS

LED CxM-14 (19x19)

FWHM 47.0° Efficiency 81 % Peak intensity 1.300 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 433 Typ L1

ELUMINUS

LED CxM-9 (13.5x13.5)

FWHM 44.0° 86 % Efficiency 1.900 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):



LED CxM-9 (13.5x13.5)

FWHM 45.0° Efficiency 81 % Peak intensity 1.500 cd/lm

LEDs/each optic 1 Light colour White Required components:

C13868_LENA-STD-BASE-VERO13-18

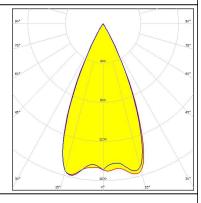
C11996_LENA-LENS Bender Wirth: 434 Typ L1

OSRAM Opto Semiconductors

LED Soleriq S15
FWHM 48.0°
Efficiency 88 %
Peak intensity 1.640 cd/lm

LEDs/each optic 1 Light colour White Required components:

C12691_LENA-STD-BASE-CLL030



SEOUL SEMICONDUCTO

LED ZC12/18
FWHM 47.0°
Efficiency 86 %
Peak intensity 1.600 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1



SEOUL SEMICONDUCTOR

 LED
 ZC12/18

 FWHM
 47.0°

 Efficiency
 81 %

 Peak intensity
 1.300 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (SIMULATED):

SEOUL SENICONDUCT

LED ZC4/6
FWHM 44.0°
Efficiency 86 %
Peak intensity 1.900 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

Bender Wirth: 434 Typ L1

SEOUL SEMICONDUCTOR

 LED
 ZC4/6

 FWHM
 45.0°

 Efficiency
 81 %

 Peak intensity
 1.500 cd/lm

LEDs/each optic 1
Light colour White
Required components:

C13868_LENA-STD-BASE-VERO13-18

C11996_LENA-LENS 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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