

ANGELA-S-B

~10° spot beam compatible with BJB and B+W connectors

SPECIFICATION:

Dimensions Ø 119.5 mm
Height 74.5 mm
Fastening socket
ROHS compliant yes ①



MATERIALS:

ComponentTypeMaterialColourFinishCoatingANGELA-S-BReflectorPCmetalHMDS

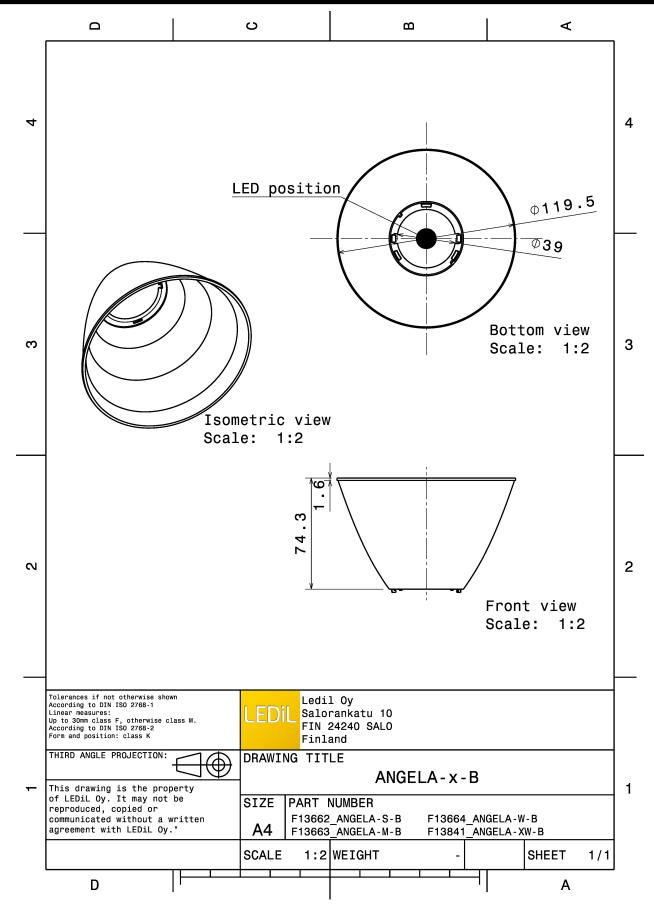
ORDERING INFORMATION:

» Box size: 398 x 298 x 265 mm

Component Qty in box MOQ MPQ Box weight (kg)

F13662_ANGELA-S-B 180 90 45 8.6

LEDIL®



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

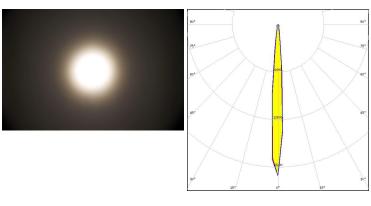


bridgelux

LED BXRA ES Rectangle

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 8.0° / 16.0° Efficiency 94 % Peak intensity 20.7 cd/lm

LEDs/each optic Light colour/type White Required components: BJB: 47.319.2040

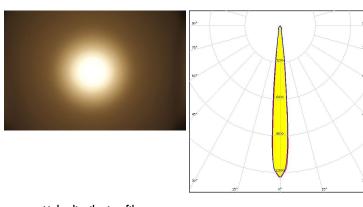


Light distribution files

bridgelux

V15 Gen6 FWHM / FWTM 11.0° / 20.0° Efficiency 89 % Peak intensity 13 cd/lm LEDs/each optic Light colour/type Required components:

BJB: 47.319.2224

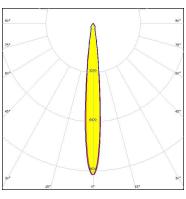


Light distribution files



LED V15 Gen6 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 11.0° / 25.0° Efficiency 86 % Peak intensity 9.9 cd/lm LEDs/each optic Light colour/type White Required components: F13671_ANGE-RZ-LENS

BJB: 47.319.2274

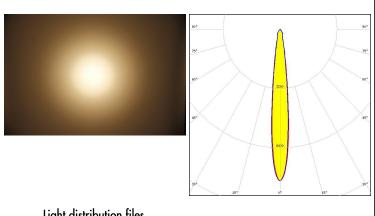


Light distribution files





LED V18 Gen6 13.0° / 28.0° FWHM / FWTM Efficiency 86 % Peak intensity 8.2 cd/lm LEDs/each optic White Light colour/type Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2274

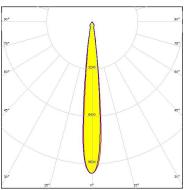


Light distribution files

bridgelux

V18 Gen6 FWHM / FWTM 12.0° / 23.0° Efficiency 89 % Peak intensity 10 cd/lm LEDs/each optic Light colour/type White Required components: BJB: 47.319.2274





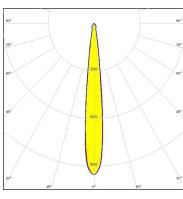
Light distribution files



LED V18 Gen7 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 12.0° / 24.0° Efficiency 91 % Peak intensity 10.2 cd/lm LEDs/each optic 1 Light colour/type White Required components:

BJB: 47.319.2350



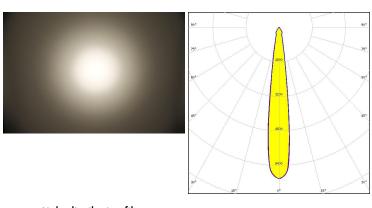


Light distribution files





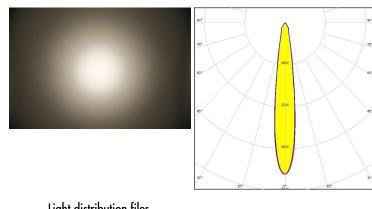
LED V22 Gen6 15.0° / 30.0° FWHM / FWTM Efficiency 88 % Peak intensity 7 cd/lm LEDs/each optic White Light colour/type Required components: A.A.G. STUCCHI: 8102-G2



Light distribution files



V22 Gen6 FWHM / FWTM 15.0° / 35.0° Efficiency 84 % Peak intensity 5.8 cd/lm LEDs/each optic Light colour/type White Required components: F13671_ANGE-RZ-LENS A.A.G. STUCCHI: 8102-G2

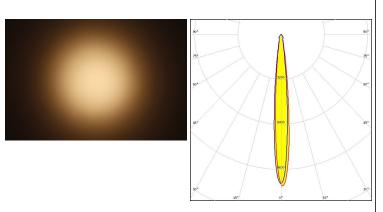


Light distribution files

CITIZEN

LED CLL03x/CLU03x FWHM / FWTM 10.0° / 23.0° Efficiency 86 % Peak intensity 10.8 cd/lm LEDs/each optic 1 Light colour/type White

Required components: F13671_ANGE-RZ-LENS A.A.G. STUCCHI: 8101-G2



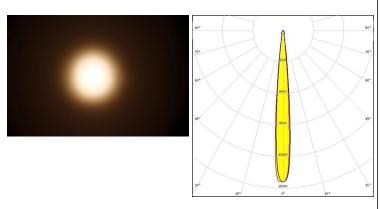
Light distribution files



CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 10.0° / 18.0°
Efficiency 93 %
Peak intensity 15.4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
A.A.G. STUCCHI: 8101-G2

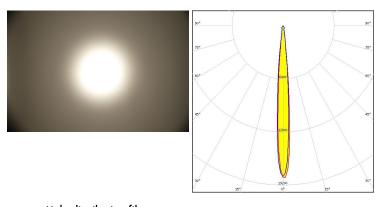


Light distribution files

CITIZEN

LED CLL03x/CLU03x
FWHM / FWTM 9.0° / 17.0°
Efficiency 94 %
Peak intensity 18.3 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



Light distribution files

CITIZEN

 LED
 CLL04x/CLU04x

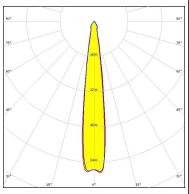
 FWHM / FWTM
 15.0° / 30.0°

 Efficiency
 92 %

 Peak intensity
 6.9 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:

A.A.G. STUCCHI: 8102-G2



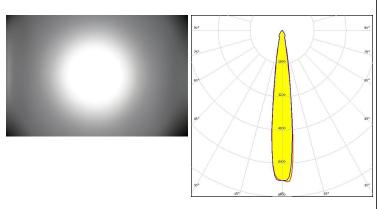
Light distribution files



CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 15.0° / 29.0°
Efficiency 92 %
Peak intensity 7.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: BJB: 47.319.2030

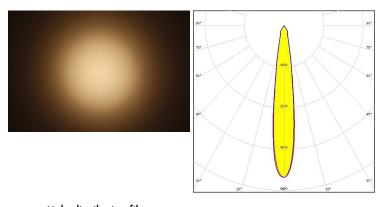


Light distribution files

CITIZEN

LED CLL04x/CLU04x
FWHM / FWTM 15.0° / 35.0°
Efficiency 86 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: F13671_ANGE-RZ-LENS A.A.G. STUCCHI: 8102-G2



Light distribution files

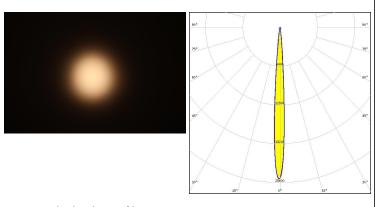
CITIZEN

LED CLU720/721/723 FWHM / FWTM 7.0° / 14.0°

Efficiency 94 %
Peak intensity 25 cd/lm
LEDs/each optic 1
Light colour/type White

A.A.G. STUCCHI: 8101-G2

Required components:



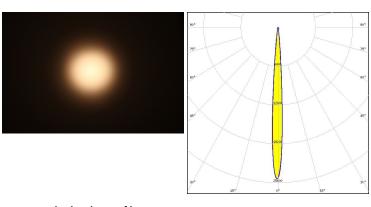
Light distribution files



CITIZEN

LED CLU720/721/723
FWHM / FWTM 7.0° / 14.0°
Efficiency 94 %
Peak intensity 25.3 cd/lm
LEDs/each optic 1

Light colour/type White Required components: BJB: 47.319.2021

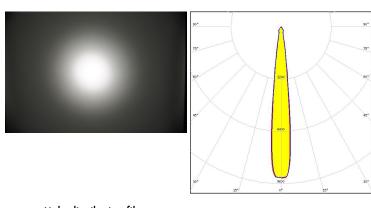


Light distribution files

CREE \$

LED CXA/B 25xx
FWHM / FWTM 13.0° / 25.0°
Efficiency 89 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
BJB: 47.319.2141

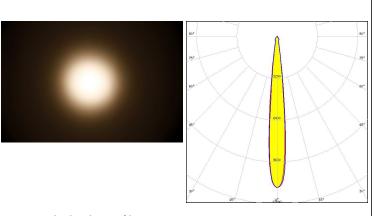


Light distribution files

CREE -

LED CXA/B 25xx
FWHM / FWTM 11.0° / 22.0°
Efficiency 92 %
Peak intensity 11.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
A.A.G. STUCCHI: 8401-G2

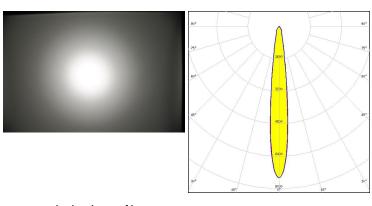


Light distribution files



CREE \$

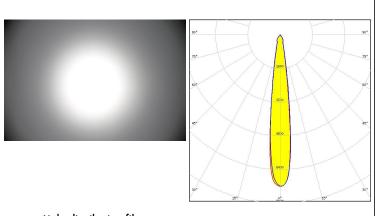
CXA/B 25xx LED 13.0° / 30.0° FWHM / FWTM Efficiency 86 % Peak intensity 7.5 cd/lm LEDs/each optic White Light colour/type Required components: F13671_ANGE-RZ-LENS BJB: 47.319.2141



Light distribution files

CREE \$

CXA/B 30xx FWHM / FWTM 15.0° / 30.0° Efficiency 91 % Peak intensity 7.2 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8404-G2



Light distribution files

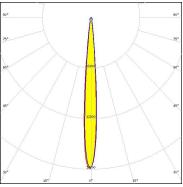
MUMILEDS

LED LUXEON CoB 1204/1205

FWHM / FWTM 9.0° / 16.0° Efficiency 93 % Peak intensity 19.2 cd/lm LEDs/each optic 1 Light colour/type White Required components:

A.A.G. STUCCHI: 8301-G2



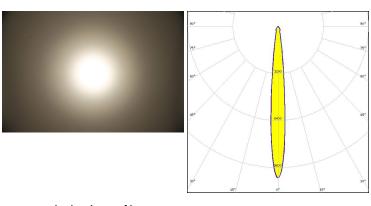


Light distribution files



DIVIDITION

LED LUXEON CoB 1208
FWHM / FWTM 11.0° / 24.0°
Efficiency 86 %
Peak intensity 10 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F13671_ANGE-RZ-LENS
 A.A.G. STUCCHI: 8301-G2

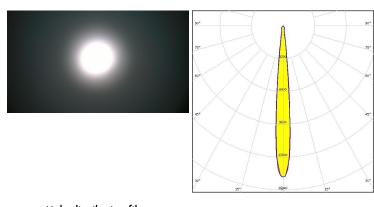


Light distribution files

UMILEDS

LED LUXEON CoB 1208
FWHM / FWTM 10.0° / 19.0°
Efficiency 94 %
Peak intensity 14.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
A.A.G. STUCCHI: 8301-G2



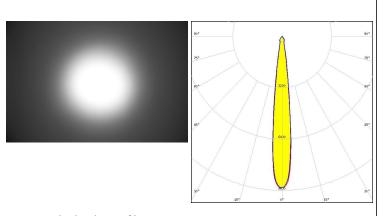
Light distribution files

DESCRIPTION DESCRIPTION

LED LUXEON CoB 1211

FWHM / FWTM 13.0° / 25.0°
Efficiency 90 %
Peak intensity 9.4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: BJB: 47.319.2030



Light distribution files

10/22



DESCRIPTION

LED LUXEON CoB 1211
FWHM / FWTM 13.0° / 24.0°

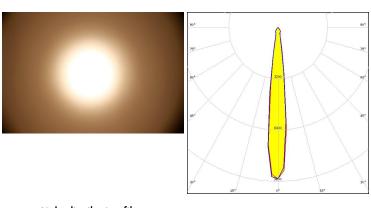
Efficiency 91 %
Peak intensity 9.5 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

A.A.G. STUCCHI: 8102-G2

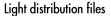


Light distribution files

UMILEDS

LED LUXEON CoB 1213/1216/1812

FWHM / FWTM 16.0° / 37.0°
Efficiency 85 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS



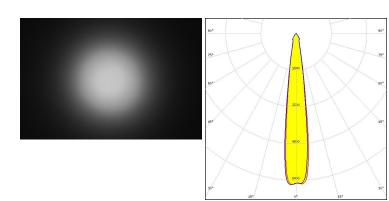
MILEDS

BJB: 47.319.2030

LED LUXEON CoB 1213/1216/1812

FWHM / FWTM 15.0° / 31.0°
Efficiency 89 %
Peak intensity 6.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

BJB: 47.319.2030

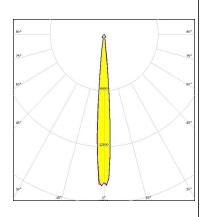


Light distribution files



DESCRIPTION

LED LUXEON K12
FWHM / FWTM 9.0° / 16.0°
Efficiency 94 %
Peak intensity 17.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



BJB: 47.319.2070

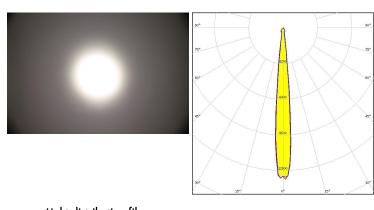
 LED
 LUXEON K16

 FWHM / FWTM
 11.0° / 18.0°

 Efficiency
 94 %

 Peak intensity
 13.6 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2070

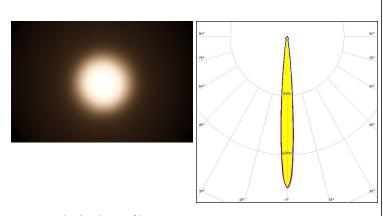


Light distribution files



LED CxM-14 (19x19)
FWHM / FWTM 9.0° / 18.0°
Efficiency 93 %
Peak intensity 16.3 cd/lm
LEDs/each optic 1

Light colour/type White Required components:
BJB: 47.319.2021

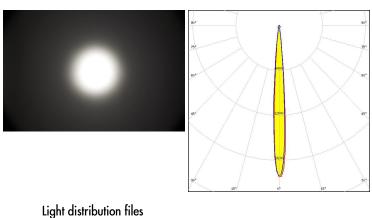


Light distribution files



OSRAM Opto Semiconductors

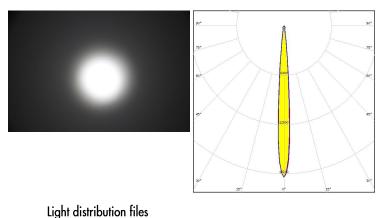
Soleriq S13 8.0° / 15.0° FWHM / FWTM Efficiency 94 % Peak intensity 21.6 cd/lm LEDs/each optic White Light colour/type Required components: A.A.G. STUCCHI: 8502-G2



OSRAM Opto Semiconductors

Soleriq S13 19x19 FWHM / FWTM 8.5° / 160.0° Efficiency 89 % Peak intensity 19.7 cd/lm

LEDs/each optic Light colour/type White Required components: BJB: 47.319.2021

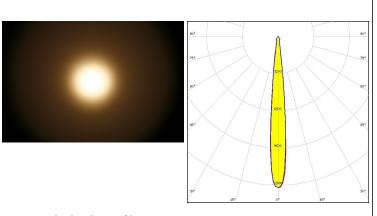


OSRAM

LED Soleriq S19 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$

11.0° / 20.0° Efficiency 93 % Peak intensity 13.1 cd/lm

LEDs/each optic 1 Light colour/type White Required components: BJB: 47.319.2170



Light distribution files



PHILIPS

LED Fortimo SLM L19 CoB

FWHM / FWTM 13.0° / 25.0°

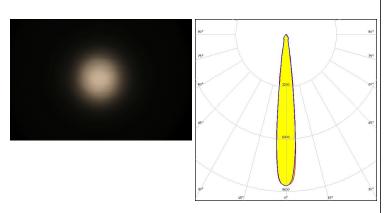
Efficiency 91 %

Peak intensity 9.3 cd/lm

LEDs/each optic 1

Light colour/type White

Light colour/type Whi Required components: BJB: 47.319.2030



Light distribution files

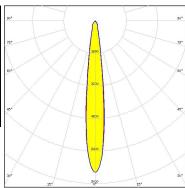
PHILIPS

LED Fortimo SLM L19 CoB

FWHM / FWTM 13.0° / 29.0° Efficiency 86 % Peak intensity 7.5 cd/lm

Peak intensity 7.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030





Light distribution files

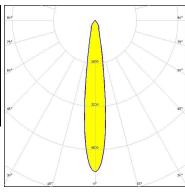
PHILIPS

LED Fortimo SLM L23 CoB

FWHM / FWTM 16.0° / 37.0°
Efficiency 86 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F13671_ANGE-RZ-LENS BJB: 47.319.2030





Light distribution files



PHILIPS

LED Fortimo SLM L23 CoB

FWHM / FWTM 15.0° / 32.0°

Efficiency 91 %

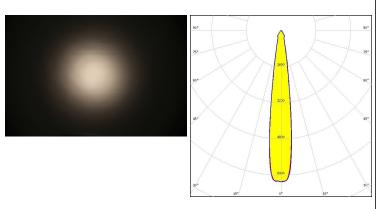
Peak intensity 6.7 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

BJB: 47.319.2030



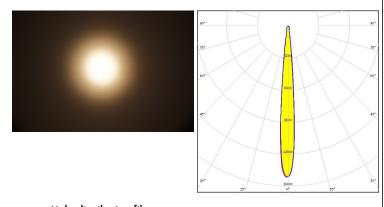
Light distribution files

SAMSUNG

LED LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 10.0° / 19.0° Efficiency 91 % Peak intensity 15.2 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8101-G2

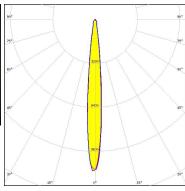


Light distribution files

SAMSUNG

LED LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 11.0° / 23.0°
Efficiency 87 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2021



Light distribution files

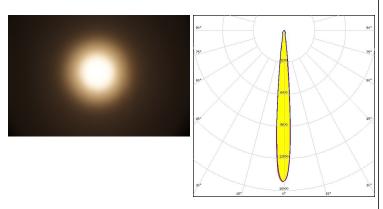


SAMSUNG

LED LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 10.0° / 19.0° Efficiency 91 % Peak intensity 15.2 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



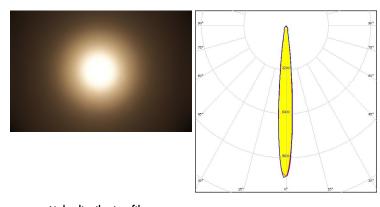
Light distribution files

SAMSUNG

LED LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 11.0° / 23.0°
Efficiency 87 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

F13671_ANGE-RZ-LENS A.A.G. STUCCHI: 8101-G2



Light distribution files



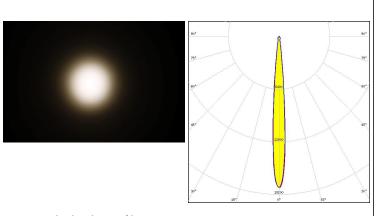
 LED
 ZC12/18

 FWHM / FWTM
 9.0° / 17.0°

 Efficiency
 93 %

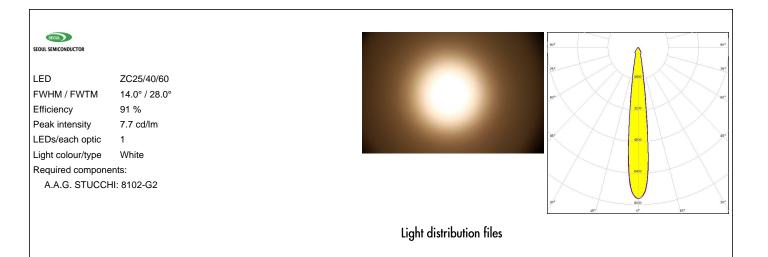
Peak intensity 18.4 cd/lm
LEDs/each optic 1
Light colour/type White

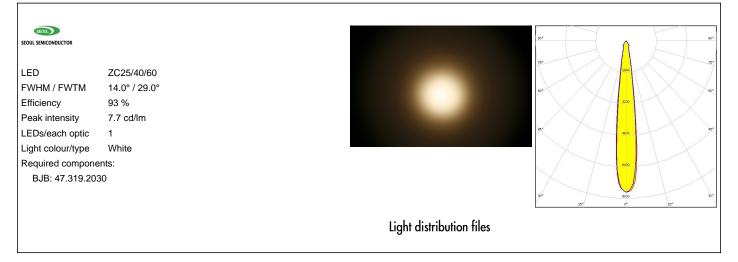
Required components:
A.A.G. STUCCHI: 8101-G2

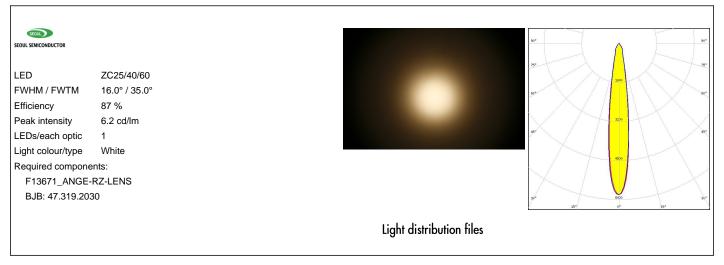


Light distribution files









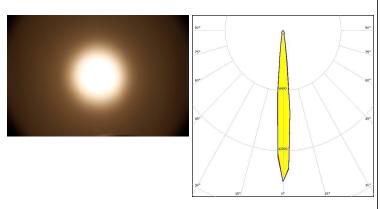


SHARP

LED Mega Zenigata (GW6DME)

FWHM / FWTM 10.0° / 18.0° Efficiency 94 % Peak intensity 16.1 cd/lm LEDs/each optic

White Light colour/type Required components: BJB: 47.319.2011



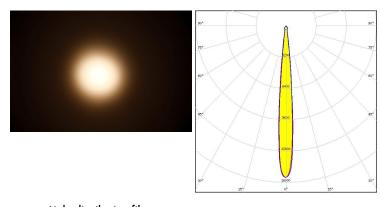
Light distribution files

SHARP

Mega Zenigata (GW6DME)

FWHM / FWTM 10.0° / 18.0° Efficiency 94 % Peak intensity 15.5 cd/lm

LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8301-G2



Light distribution files

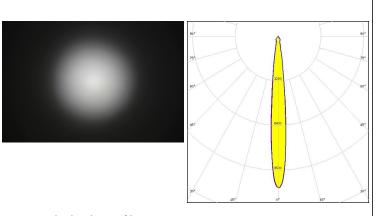
TRIDONIC

SLE G7 LES17 H LED

FWHM / FWTM 11.0° / 23.0°

Efficiency 90 % Peak intensity 10.9 cd/lm

LEDs/each optic Light colour/type White Required components:

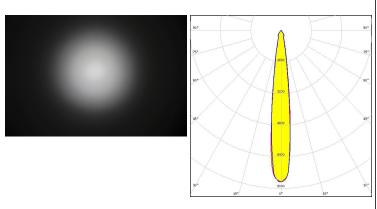


Light distribution files



TRIDONIC

LED SLE G7 LES21 H
FWHM / FWTM 14.0° / 29.0°
Efficiency 90 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour/type White



Light distribution files

XICATO

Required components:

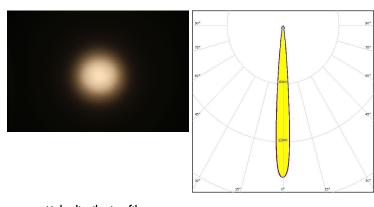
 LED
 XOB 14.5 mm

 FWHM / FWTM
 9.0° / 18.0°

 Efficiency
 92 %

 Peak intensity
 16.7 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



Light distribution files

XICATO

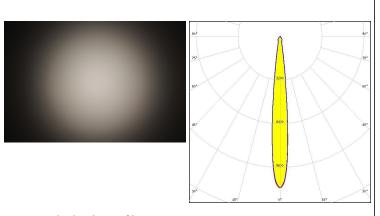
 LED
 XTM - 19mm LES

 FWHM / FWTM
 12.0° / 22.0°

 Efficiency
 91 %

Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

C15743_XTM-ADAPTER-50-B



Light distribution files



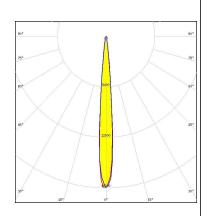
OPTICAL RESULTS (SIMULATED):

CITIZEN

CLL03x/CLU03x LED 9.3° / 18.0° FWHM / FWTM Efficiency 94 % Peak intensity 19.2 cd/lm LEDs/each optic 1 Light colour/type White

Required components:

BJB: 47.319.2021



Light distribution files

CITIZEN

CLL04x/CLU04x LFD FWHM / FWTM 14.0° / 29.0° 93 % Efficiency 8 cd/lm Peak intensity

LEDs/each optic Light colour/type White

Required components:

Light distribution files



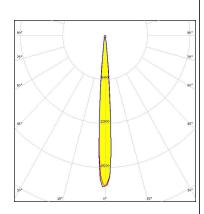
BJB: 47.319.2030

CITIZEN

CLU730/731/733 FWHM / FWTM 8.5° / 15.0° Efficiency 92 % Peak intensity 22.2 cd/lm LEDs/each optic Light colour/type White

Required components:

BJB: 47.319.2030



Light distribution files



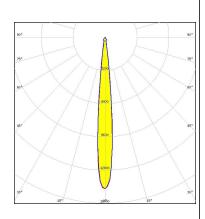
OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semino

LED Soleriq S15 FWHM / FWTM 10.0° / 18.0° Efficiency 90 % Peak intensity 14.6 cd/lm LEDs/each optic 1 Light colour/type White

Required components:

BJB: 47.319.2021



Light distribution files

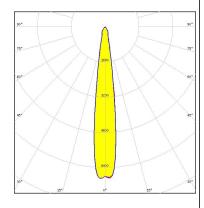
PHILIPS

Fortimo SLM L23 CoB LFD

FWHM / FWTM 16.0° / 30.0° 89 % Efficiency Peak intensity 6.9 cd/lm LEDs/each optic Light colour/type White

Required components:

BJB: 47.319.2030



Light distribution files

SAMSUNG

LC040D / LC060D / LC080D

FWHM / FWTM 17.0° / 36.0° Efficiency 87 % Peak intensity 5.8 cd/lm LEDs/each optic Light colour/type White Required components:

BJB: 47.319.2030

Light distribution files



PRODUCT DATASHEET F13662 ANGELA-S-B

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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