

#### **ANGELINA-S-B**

~20° spot beam compatible with BJB and B+W connectors

#### SPECIFICATION:

**Dimensions** Ø 82.0 mm 31 mm Height Fastening socket yes 🕕 **ROHS** compliant



#### **MATERIALS:**

Component **Type** Material Colour **Finish** Coating ANGELINA-S-B Reflector PC metal **HMDS** 

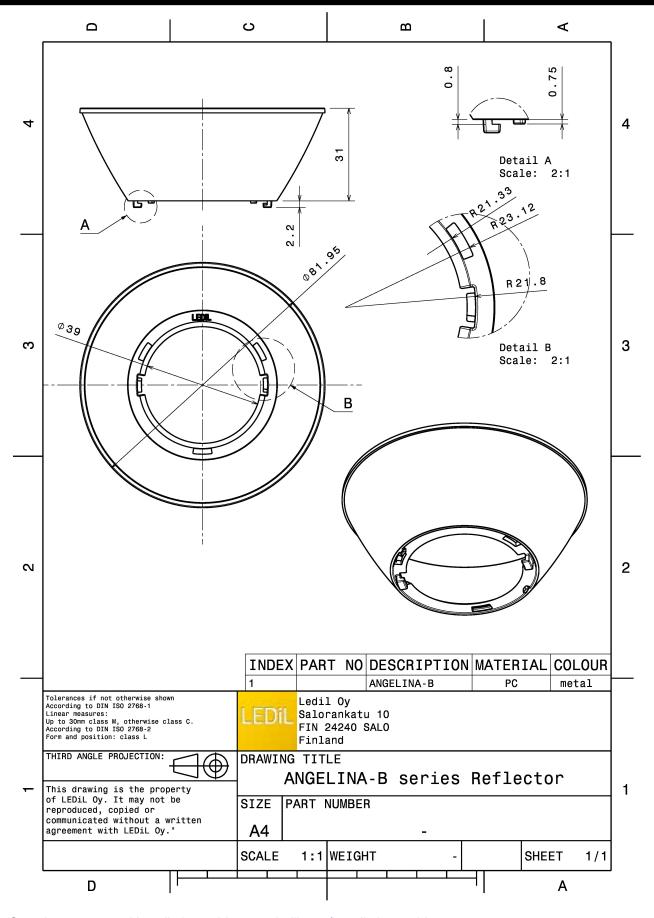
#### **ORDERING INFORMATION:**

Component Qty in box MOQ MPQ Box weight (kg) 825 110 55 11.3

F13659\_ANGELINA-S-B

» Box size: 480 x 280 x 300 mm





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

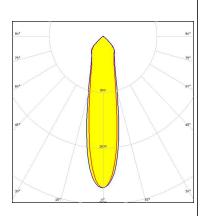


bridgelux

LED BXRA ES Rectangle

FWHM / FWTM 23.0° / 90.0°
Efficiency 92 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: BJB: 47.319.2040

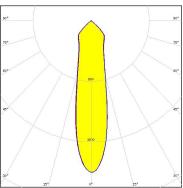


Light distribution files

bridgelux.

LED V15 Gen6
FWHM / FWTM 24.0° / 92.0°
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

BJB: 47.319.2224



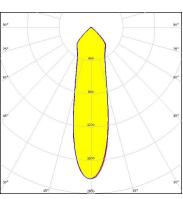
Light distribution files

bridgelux

LED V18 Gen6
FWHM / FWTM 27.0° / 92.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White

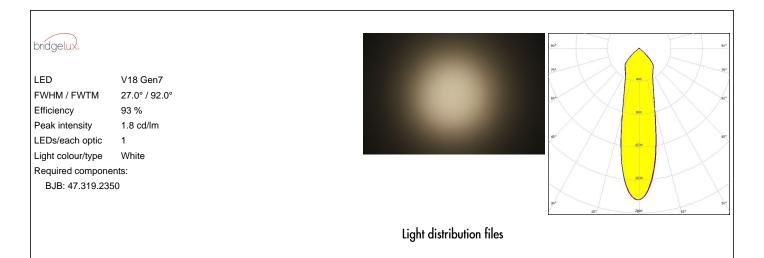
Required components: BJB: 47.319.2274

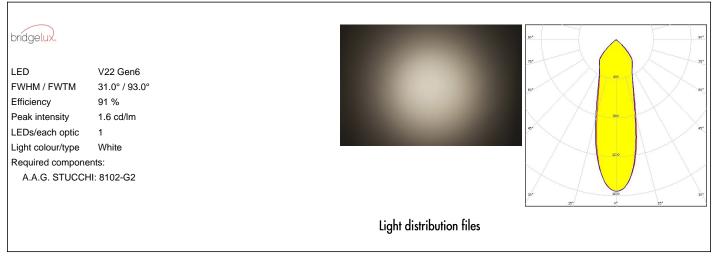


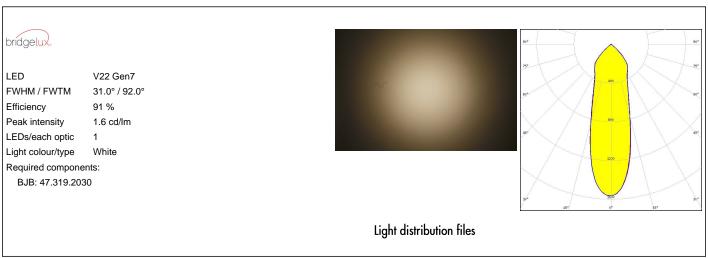


Light distribution files







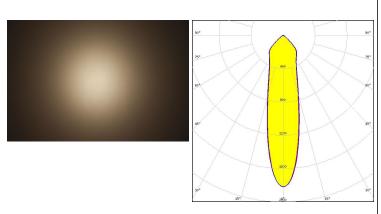




## **CITIZEN**

LED CLL03x/CLU03x 25.0° / 92.0° FWHM / FWTM Efficiency 89 % Peak intensity 1.8 cd/lm LEDs/each optic White Light colour/type Required components: F13671\_ANGE-RZ-LENS

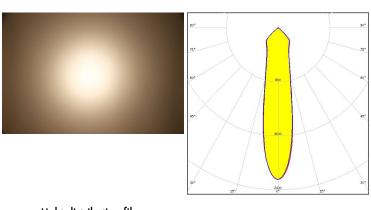
A.A.G. STUCCHI: 8101-G2



Light distribution files

#### **CITIZEN**

CLL03x/CLU03x FWHM / FWTM 22.0° / 91.0° Efficiency 94 % Peak intensity 2.3 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8101-G2

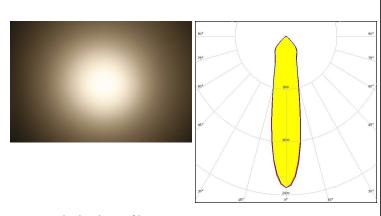


Light distribution files

# **CITIZEN**

BJB: 47.319.2021

CLL03x/CLU03x LED FWHM / FWTM 23.0° / 86.0° Efficiency 92 % Peak intensity 2.2 cd/lm LEDs/each optic Light colour/type White Required components:

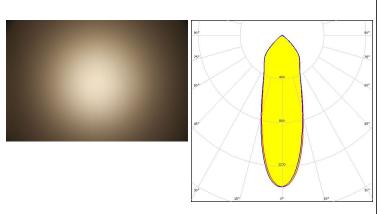


Light distribution files



## **CITIZEN**

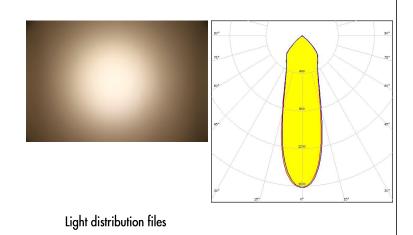
LED CLL04x/CLU04x 33.0° / 94.0° FWHM / FWTM Efficiency 88 % Peak intensity 1.4 cd/lm LEDs/each optic White Light colour/type Required components: F13671\_ANGE-RZ-LENS A.A.G. STUCCHI: 8102-G2



Light distribution files

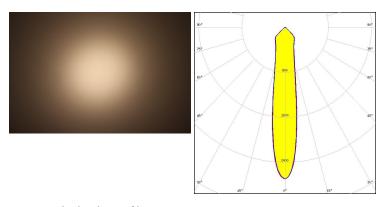
#### **CITIZEN**

CLL04x/CLU04x FWHM / FWTM 30.0° / 93.0° Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8102-G2



# **CITIZEN**

LED CLU720/721/723 FWHM / FWTM 19.0° / 88.0° Efficiency 94 % Peak intensity 2.5 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8101-G2



Light distribution files



## **CITIZEN**

 LED
 CLU720/721/723

 FWHM / FWTM
 19.0° / 81.0°

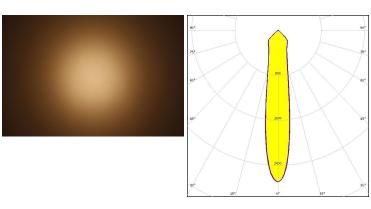
 Efficiency
 94 %

 Peak intensity
 2.7 cd/lm

 LEDs/each optic
 1

 Light colour/type
 White

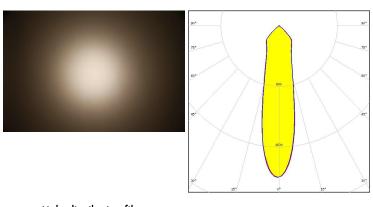
 Required components:
 BJB: 47.319.2021



Light distribution files

# CREE \$

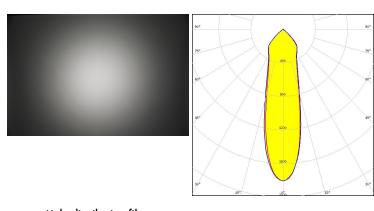
LED CXA/B 25xx
FWHM / FWTM 25.0° / 91.0°
Efficiency 93 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8401-G2



Light distribution files

# CREE -

LED CXA/B 25xx
FWHM / FWTM 27.0° / 91.0°
Efficiency 92 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2141

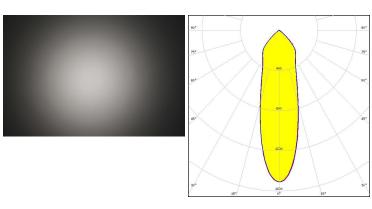


Light distribution files



# CREE \$

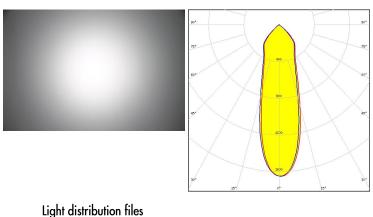
CXA/B 25xx LED 30.0° / 93.0° FWHM / FWTM Efficiency 88 % Peak intensity 1.5 cd/lm LEDs/each optic White Light colour/type Required components: F13671\_ANGE-RZ-LENS BJB: 47.319.2141



Light distribution files

# CREE \$

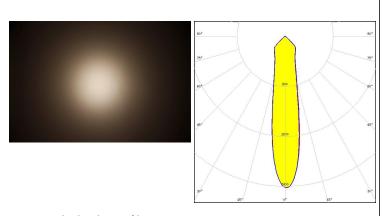
CXA/B 30xx FWHM / FWTM 30.0° / 92.0° Efficiency 92 % Peak intensity 1.7 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8404-G2



# **MUMILEDS**

LED LUXEON CoB 1204/1205

FWHM / FWTM 21.0° / 89.0° Efficiency 94 % Peak intensity 2.4 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8301-G2



Light distribution files



## **DESCRIPTION**

LED LUXEON CoB 1208
FWHM / FWTM 23.0° / 90.0°

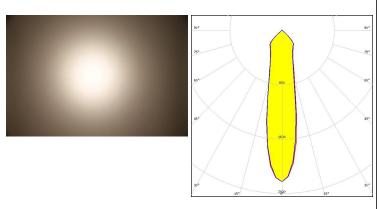
Efficiency 94 %
Peak intensity 2.2 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

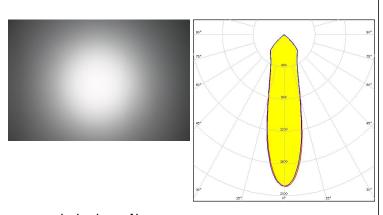
A.A.G. STUCCHI: 8301-G2



Light distribution files

# **UMILEDS**

LED LUXEON CoB 1211
FWHM / FWTM 26.0° / 91.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

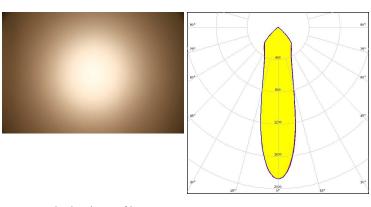


Light distribution files

# **DESCRIPTION**

BJB: 47.319.2030

LED LUXEON CoB 1211
FWHM / FWTM 26.0° / 91.0°
Efficiency 92 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8102-G2



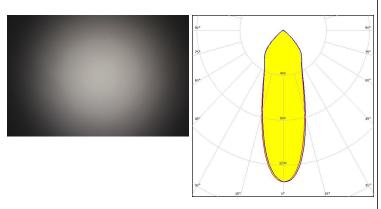
Light distribution files



## **MUMILEDS**

LED LUXEON CoB 1213/1216/1812

FWHM / FWTM 34.0° / 95.0°
Efficiency 88 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671\_ANGE-RZ-LENS
BJB: 47.319.2030



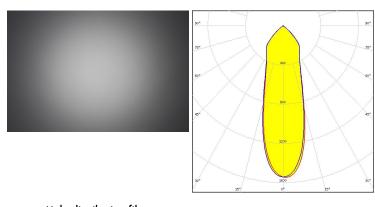
Light distribution files

# **UMILEDS**

LED LUXEON CoB 1213/1216/1812

FWHM / FWTM 32.0° / 93.0°
Efficiency 91 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: BJB: 47.319.2030

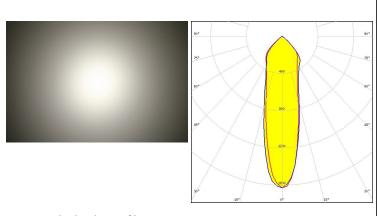


Light distribution files

## **DESCRIPTION**

LED LUXEON K12
FWHM / FWTM 27.0° / 95.0°
Efficiency 89 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: F13671\_ANGE-RZ-LENS BJB: 47.319.2070

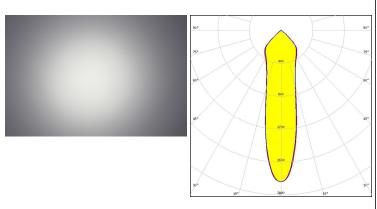


Light distribution files





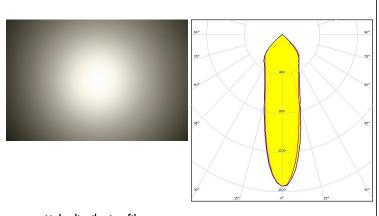
LED LUXEON K16
FWHM / FWTM 24.0° / 94.0°
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2070



Light distribution files

# **UMILEDS**

LED LUXEON K16
FWHM / FWTM 29.0° / 95.0°
Efficiency 89 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F13671\_ANGE-RZ-LENS
BJB: 47.319.2070



Light distribution files



 LED
 CxM-14 (19x19)

 FWHM / FWTM
 23.0° / 87.0°

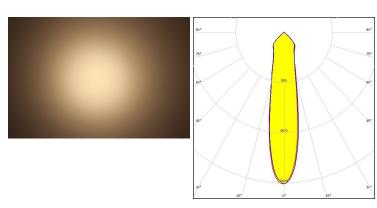
 Efficiency
 94 %

 Peak intensity
 2.4 cd/lm

 LEDs/each optic
 1

 Light colour/type
 White

 Required components:
 BJB: 47.319.2021



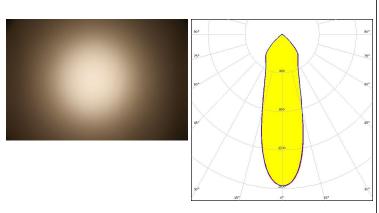
Light distribution files





CxM-22 (28x28) 32.0° / 93.0° FWHM / FWTM Efficiency 92 % Peak intensity 1.6 cd/lm LEDs/each optic

White Light colour/type Required components: BJB: 47.319.2030



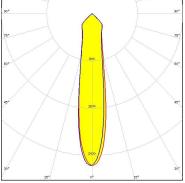
Light distribution files

# OSRAM Opto Semiconductors

Soleriq S13 FWHM / FWTM 20.0° / 87.0° Efficiency 94 % Peak intensity 2.6 cd/lm LEDs/each optic

Light colour/type White Required components: A.A.G. STUCCHI: 8502-G2





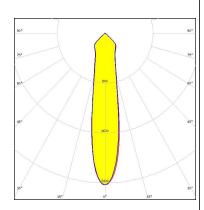
Light distribution files

#### **OSRAM**

LED Soleriq S13 19x19  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 20.0° / 89.0°

Efficiency 92 % Peak intensity 2.4 cd/lm LEDs/each optic Light colour/type White

Required components: BJB: 47.319.2021

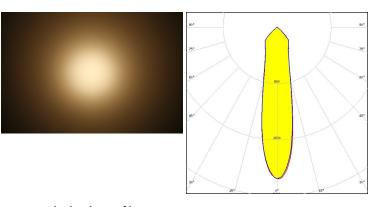


Light distribution files



# OSRAM Opto Semiconductors

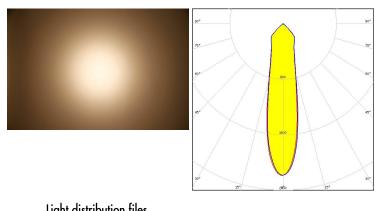
Soleriq S19 23.0° / 90.0° FWHM / FWTM Efficiency 94 % Peak intensity 2.2 cd/lm LEDs/each optic White Light colour/type Required components: BJB: 47.319.2170



Light distribution files

# OSRAM Opto Semiconductors

Soleriq S19 FWHM / FWTM 23.0° / 89.0° Efficiency 94 % Peak intensity 2.2 cd/lm LEDs/each optic Light colour/type White Required components: A.A.G. STUCCHI: 8503-G2

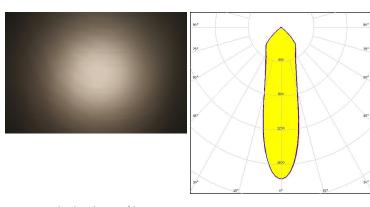


Light distribution files

LED Fortimo SLM L19 CoB

FWHM / FWTM 27.0° / 92.0° Efficiency 93 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour/type White Required components:

BJB: 47.319.2030



Light distribution files



#### **PHILIPS**

LED Fortimo SLM L19 CoB

FWHM / FWTM 30.0° / 94.0°

Efficiency 88 %

Peak intensity 1.5 cd/lm

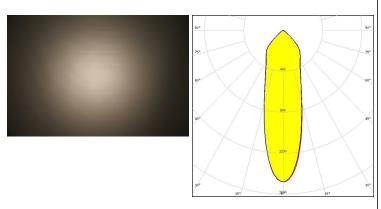
LEDs/each optic 1

Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

BJB: 47.319.2030



Light distribution files

#### **PHILIPS**

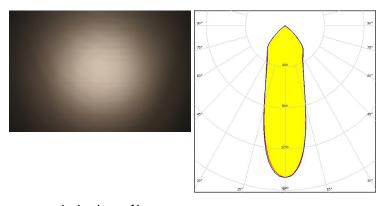
LED Fortimo SLM L23 CoB

 FWHM / FWTM
 32.0° / 95.0°

 Efficiency
 93 %

 Peak intensity
 1.5 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2030



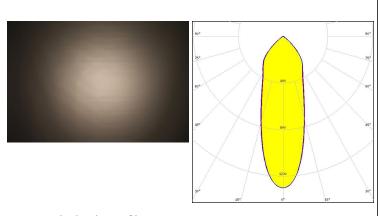
Light distribution files

## **PHILIPS**

LED Fortimo SLM L23 CoB

FWHM / FWTM 34.0° / 95.0°
Efficiency 88 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: F13671\_ANGE-RZ-LENS BJB: 47.319.2030



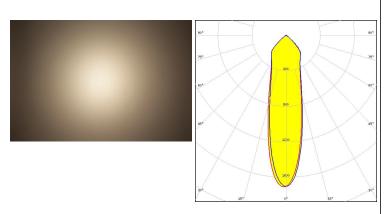
Light distribution files



# **SAMSUNG**

LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 27.0° / 93.0° Efficiency 89 % Peak intensity 1.7 cd/lm LEDs/each optic White Light colour/type Required components: F13671\_ANGE-RZ-LENS BJB: 47.319.2021



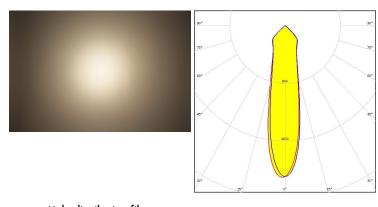
Light distribution files

## **SAMSUNG**

LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 24.0° / 91.0° Efficiency 93 % Peak intensity 2.1 cd/lm LEDs/each optic Light colour/type White Required components:

BJB: 47.319.2021

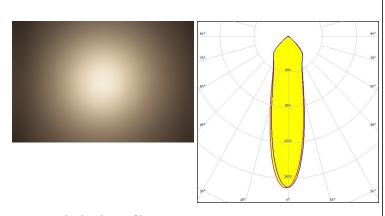


Light distribution files

# **SAMSUNG**

LC016D / LC019D / LC026D / LC033D LED

FWHM / FWTM 27.0° / 93.0° Efficiency 89 % Peak intensity 1.7 cd/lm LEDs/each optic Light colour/type White Required components: F13671\_ANGE-RZ-LENS A.A.G. STUCCHI: 8101-G2



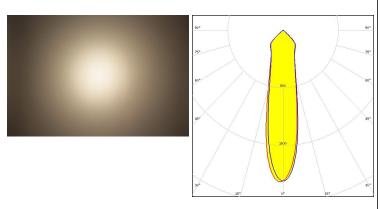
Light distribution files



# **SAMSUNG**

LED LC016D / LC019D / LC026D / LC033D

FWHM / FWTM 24.0° / 91.0°
Efficiency 93 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
A.A.G. STUCCHI: 8101-G2

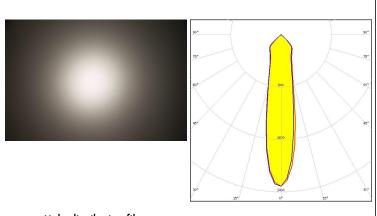


Light distribution files



LED ZC12/18
FWHM / FWTM 22.0° / 89.0°
Efficiency 93 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White

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

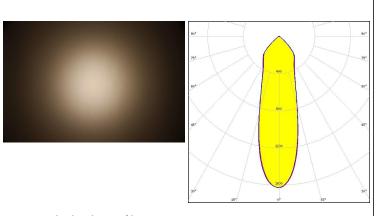


Light distribution files



LED ZC25/40/60
FWHM / FWTM 30.0° / 93.0°
Efficiency 92 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:
A.A.G. STUCCHI: 8102-G2



Light distribution files



## **SHARP**

LED Mega Zenigata (GW6DME)

FWHM / FWTM 23.0° / 90.0°

Efficiency 94 %

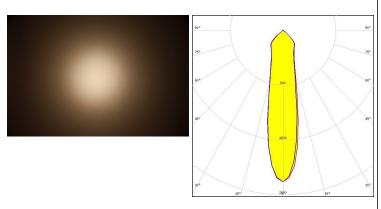
Peak intensity 2.2 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

A.A.G. STUCCHI: 8301-G2



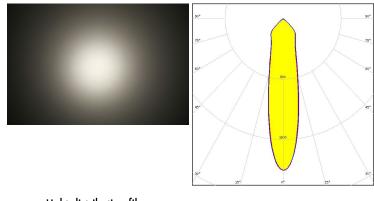
Light distribution files

#### SHARP

LED Tiger Zenigata (GWTGCBG4FD)

FWHM / FWTM 23.0° / 90.0°
Efficiency 91 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671\_ANGE-RZ-LENS

BJB: 47.319.2051

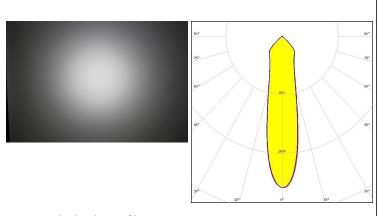


Light distribution files

### **TRIDONIC**

LED SLE G7 LES17 H
FWHM / FWTM 24.0° / 89.0°
Efficiency 91 %

Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



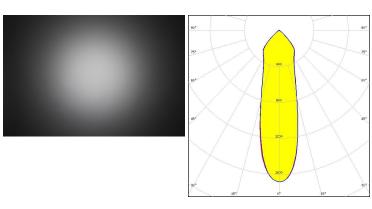
Light distribution files

Published: 02/05/2018



## **TRIDONIC**

LED SLE G7 LES21 H
FWHM / FWTM 29.0° / 91.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White

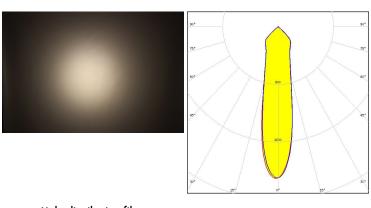


Light distribution files

### **XICATO**

Required components:

LED XOB 14.5 mm
FWHM / FWTM 23.0° / 92.0°
Efficiency 94 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
BJB: 47.319.2021



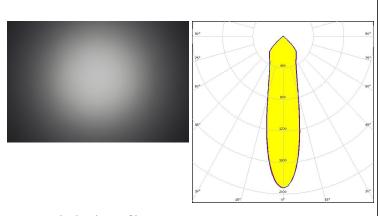
Light distribution files

### **XICATO**

LED XTM - 19mm LES FWHM / FWTM 25.0° / 91.0°

Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components: C15743\_XTM-ADAPTER-50-B



Light distribution files



#### **OPTICAL RESULTS (SIMULATED):**

# **CITIZEN**

LED CLL04x/CLU04x FWHM / FWTM 22.0° / 68.0°

White

Efficiency 95 %

3.1 cd/lm Peak intensity LEDs/each optic

Light colour/type Required components:

BJB: 47.319.2030

#### **CITIZEN**

LED CLL04x/CLU04x

FWHM / FWTM 24.0° / 79.0°

Efficiency 89 %

Peak intensity 2.5 cd/lm

LEDs/each optic 1 White

Light colour/type Required components:

BJB: 47.319.2315

Light distribution files

## LUMILEDS

LUXEON K12 LED FWHM / FWTM 15.0° / 26.0°

Efficiency % LEDs/each optic 1 Light colour/type White

Required components:

BJB: 47.319.2070

Light distribution files



#### **OPTICAL RESULTS (SIMULATED):**

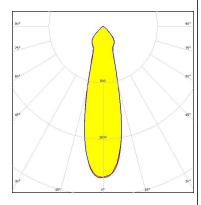
# **SAMSUNG**

LED LC040D / LC060D / LC080D

FWHM / FWTM 27.0° / 85.0°
Efficiency 90 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

BJB: 47.319.2030



Light distribution files

Published: 02/05/2018



# PRODUCT DATASHEET F13659 ANGELINA-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.

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