

## ANGELETTE-M-PLAIN

~50° medium beam. Clean appearance with no additional attachment interface.

## SPECIFICATION:

|                |            |
|----------------|------------|
| Dimensions     | Ø 110.0 mm |
| Height         | 57.3 mm    |
| Fastening      | socket     |
| ROHS compliant | yes ⓘ      |

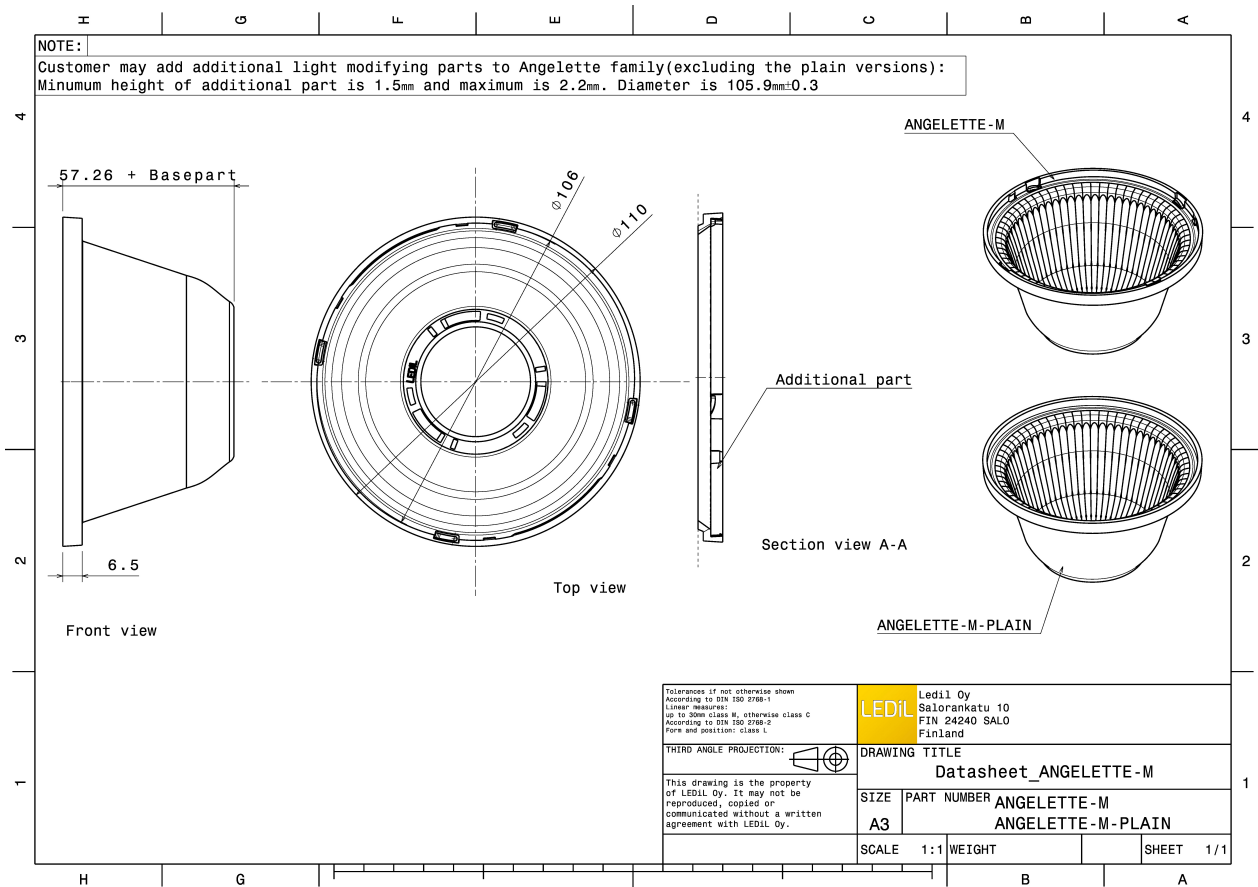


## MATERIALS:

| Component         | Type      | Material | Colour | Finish | Coating |
|-------------------|-----------|----------|--------|--------|---------|
| ANGELETTE-M-PLAIN | Reflector | PC       | metal  |        |         |

## ORDERING INFORMATION:

| Component                                                  | Qty in box | MOQ | MPQ | Box weight (kg) |
|------------------------------------------------------------|------------|-----|-----|-----------------|
| F14620_ANGELETTE-M-PLAIN<br>» Box size: 398 x 298 x 265 mm | 160        | 80  | 40  | 7.1             |



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

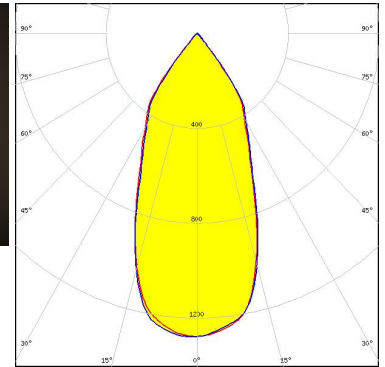
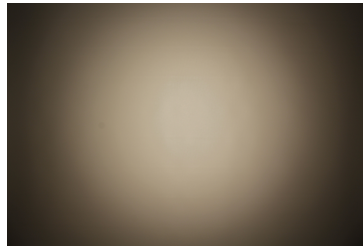
#### OPTICAL RESULTS (MEASURED):



LED V13 Gen7  
FWHM / FWTM 45.0° / 80.0°  
Efficiency 89 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

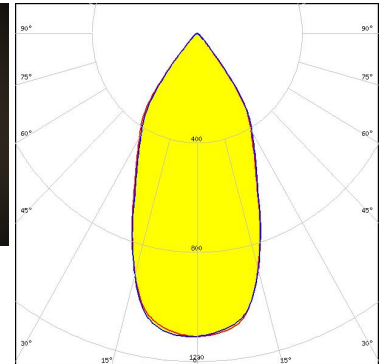
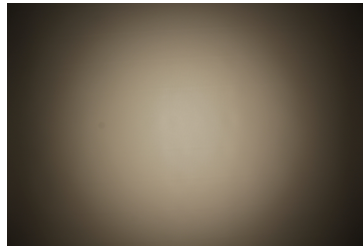


LED V13 Gen7  
FWHM / FWTM 49.0° / 82.0°  
Efficiency 85 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



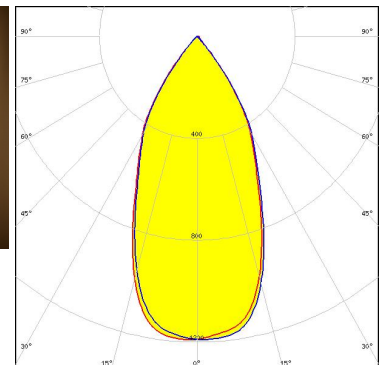
Light distribution files



LED V22 Gen6  
FWHM / FWTM 49.0° / 80.0°  
Efficiency 88 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

IDEAL: 50-2204-CT + 50-2100AN

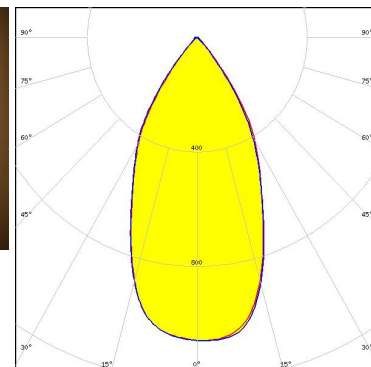
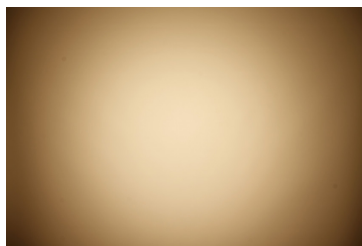


Light distribution files

#### OPTICAL RESULTS (MEASURED):



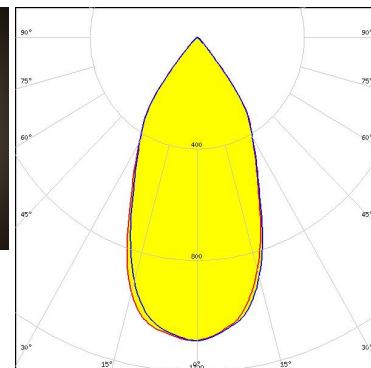
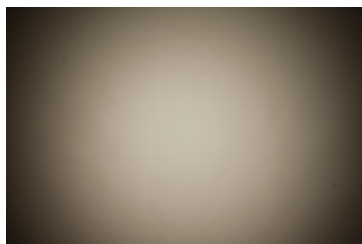
LED V22 Gen6  
 FWHM / FWTM 51.0° / 82.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



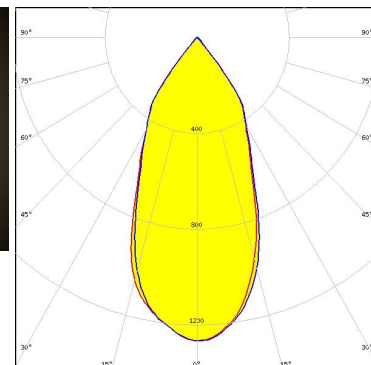
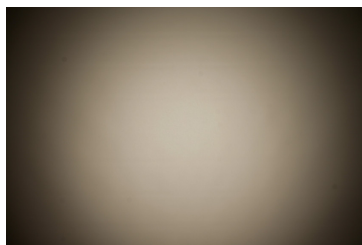
LED VERO13  
 FWHM / FWTM 50.0° / 82.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18  
 F13671\_ANGE-RZ-LENS



Light distribution files



LED VERO13  
 FWHM / FWTM 46.0° / 80.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18

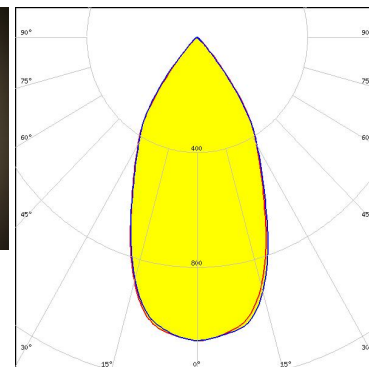
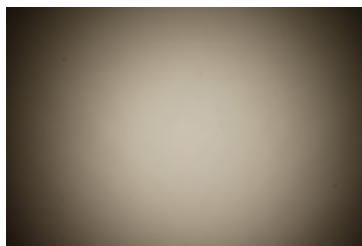


Light distribution files

#### OPTICAL RESULTS (MEASURED):



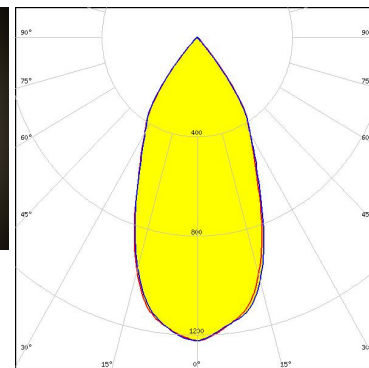
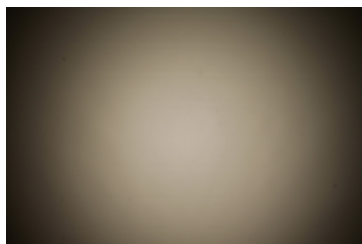
LED VERO18  
FWHM / FWTM 52.0° / 83.0°  
Efficiency 84 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18  
F13671\_ANGE-RZ-LENS



Light distribution files



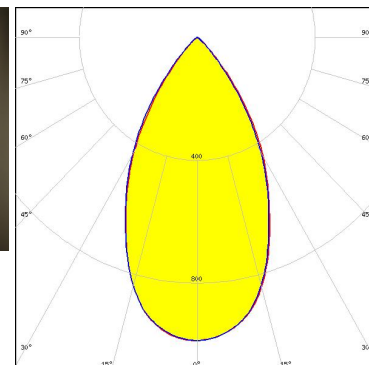
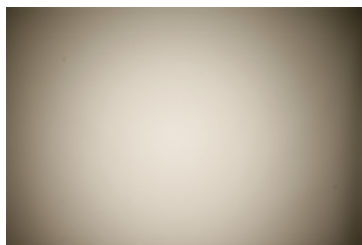
LED VERO18  
FWHM / FWTM 48.0° / 81.0°  
Efficiency 88 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13658\_CLAMP-VERO13-18



Light distribution files



LED VERO29  
FWHM / FWTM 56.0° / 86.0°  
Efficiency 85 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29  
F13671\_ANGE-RZ-LENS

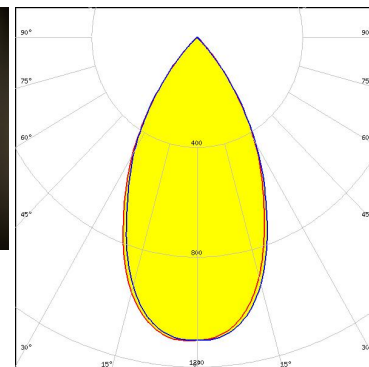
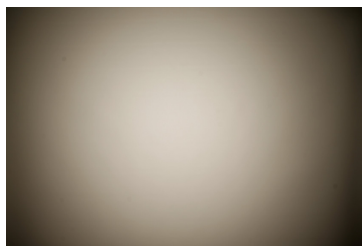


Light distribution files

#### OPTICAL RESULTS (MEASURED):



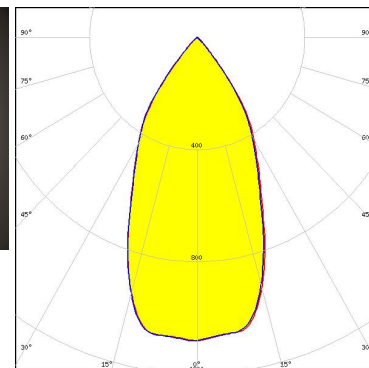
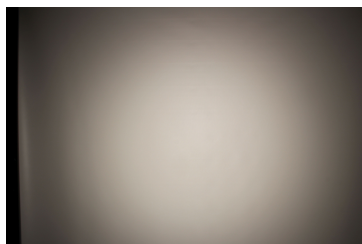
LED VERO29  
FWHM / FWTM 54.0° / 84.0°  
Efficiency 89 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13584\_CLAMP-VERO29



Light distribution files



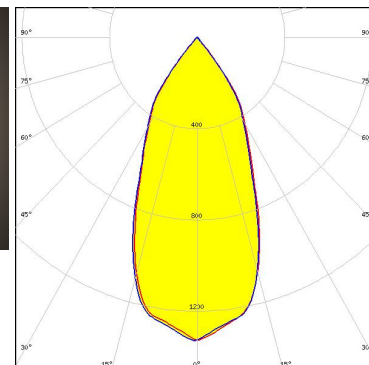
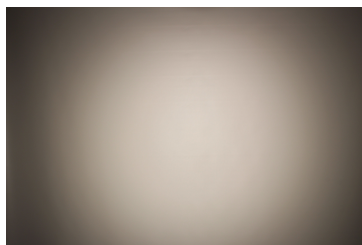
LED Vesta TW 15mm DP  
FWHM / FWTM 51.0° / 82.0°  
Efficiency 85 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C13658\_CLAMP-VERO13-18  
F13671\_ANGE-RZ-LENS  
Bender Wirth: 482 Typ L2



Light distribution files



LED Vesta TW 15mm DP  
FWHM / FWTM 46.0° / 80.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C13658\_CLAMP-VERO13-18  
Bender Wirth: 482 Typ L2



Light distribution files

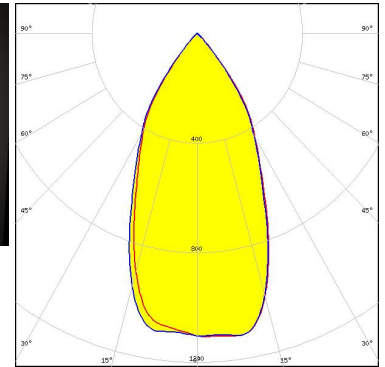
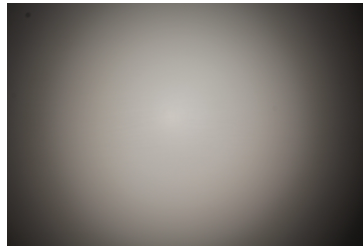
#### OPTICAL RESULTS (MEASURED):



LED Vesta TW 18mm (31W) DP  
 FWHM / FWTM 50.0° / 82.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 483 Typ L3



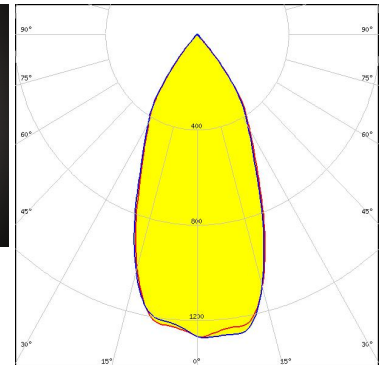
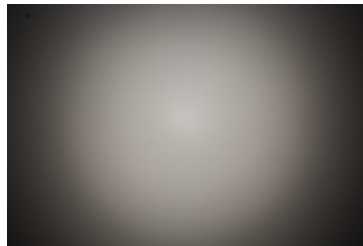
Light distribution files



LED Vesta TW 18mm (31W) DP  
 FWHM / FWTM 47.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 Bender Wirth: 483 Typ L3



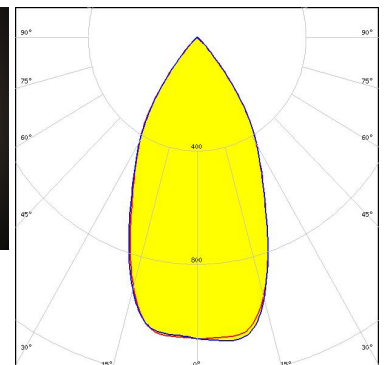
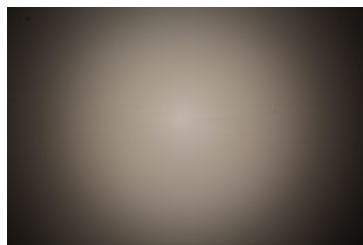
Light distribution files



LED Vesta TW 22mm DP  
 FWHM / FWTM 52.0° / 83.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 494 Typ L3

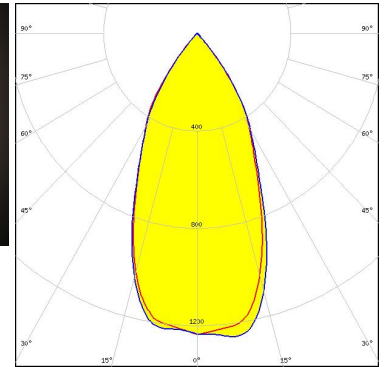
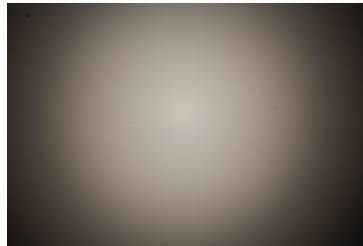


Light distribution files

#### OPTICAL RESULTS (MEASURED):



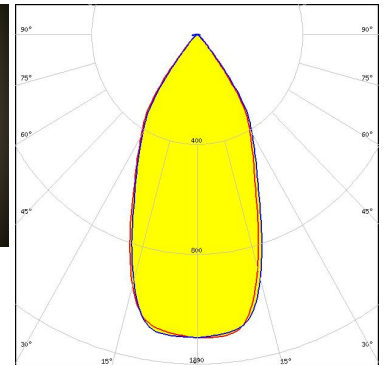
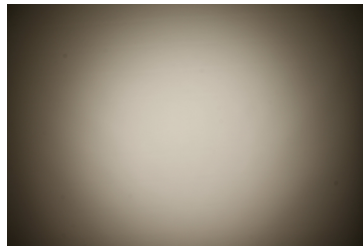
LED Vesta TW 22mm DP  
 FWHM / FWTM 48.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C13584\_CLAMP-VERO29  
 Bender Wirth: 494 Typ L3



Light distribution files

#### CITIZEN

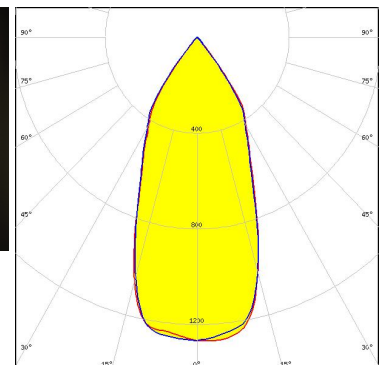
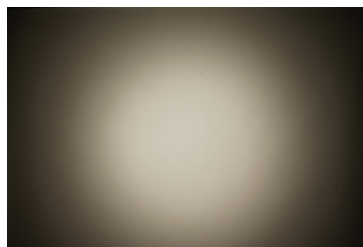
LED CLL03x/CLU03x  
 FWHM / FWTM 49.0° / 80.0°  
 Efficiency 83 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2103CT + 50-2100AN



Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
 FWHM / FWTM 45.0° / 78.0°  
 Efficiency 87 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



Light distribution files

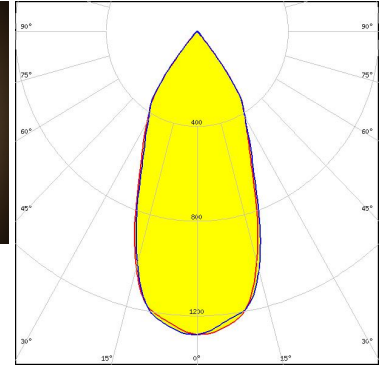
#### OPTICAL RESULTS (MEASURED):

#### CITIZEN

LED CLL03x/CLU03x  
FWHM / FWTM 45.0° / 79.0°  
Efficiency 88 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

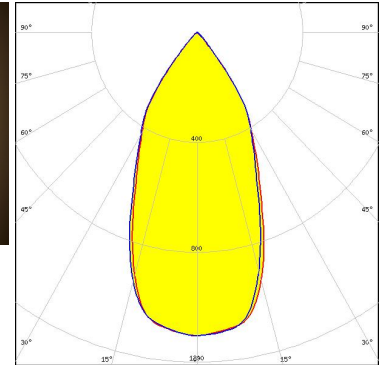
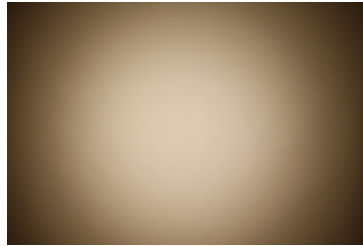
#### CITIZEN

LED CLL03x/CLU03x  
FWHM / FWTM 49.0° / 81.0°  
Efficiency 83 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



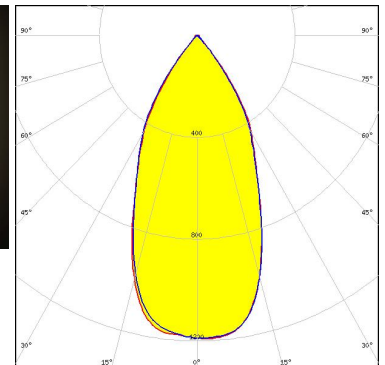
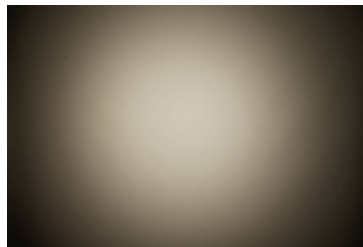
Light distribution files

#### CITIZEN

LED CLL04x/CLU04x  
FWHM / FWTM 49.0° / 80.0°  
Efficiency 88 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

IDEAL: 50-2204-CT + 50-2100AN

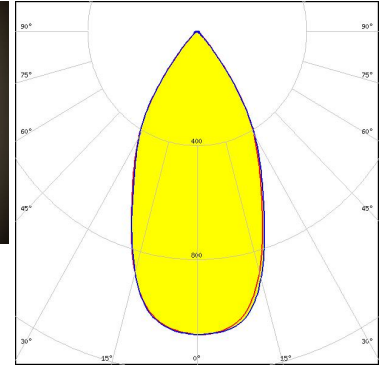


Light distribution files

#### OPTICAL RESULTS (MEASURED):

#### CITIZEN

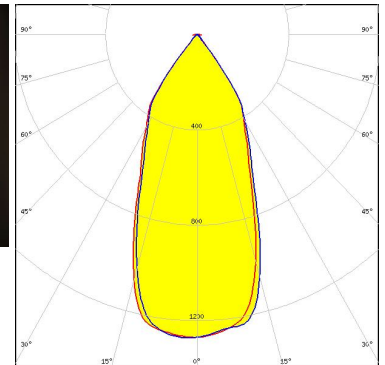
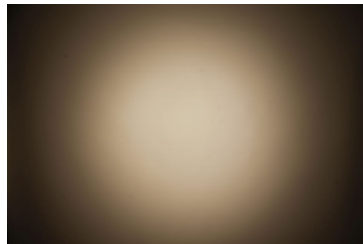
LED CLL04x/CLU04x  
 FWHM / FWTM 51.0° / 82.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

#### CITIZEN

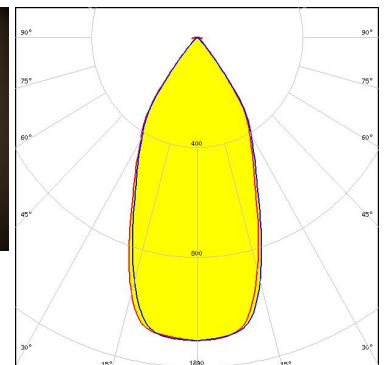
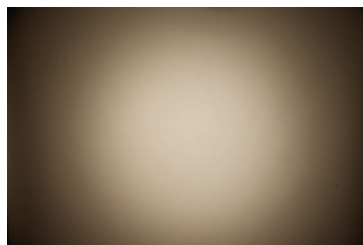
LED CLU730/731/733  
 FWHM / FWTM 45.0° / 78.0°  
 Efficiency 87 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

#### CITIZEN

LED CLU730/731/733  
 FWHM / FWTM 48.0° / 80.0°  
 Efficiency 83 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN

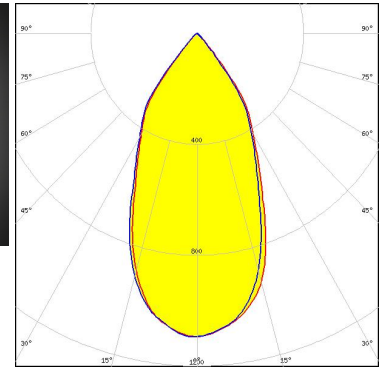
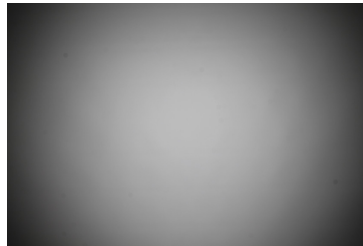


Light distribution files

#### OPTICAL RESULTS (MEASURED):



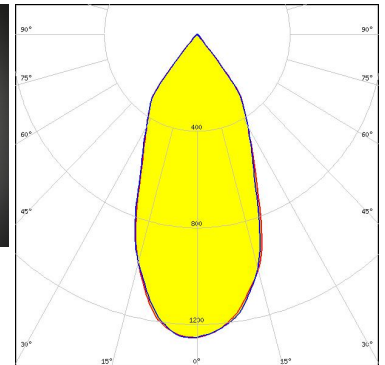
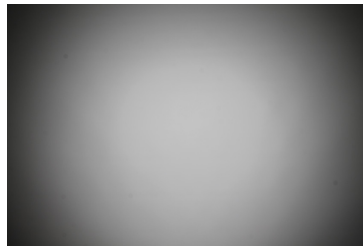
LED CXA/B 15xx  
 FWHM / FWTM 50.0° / 82.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18  
 F13671\_ANGE-RZ-LENS



Light distribution files



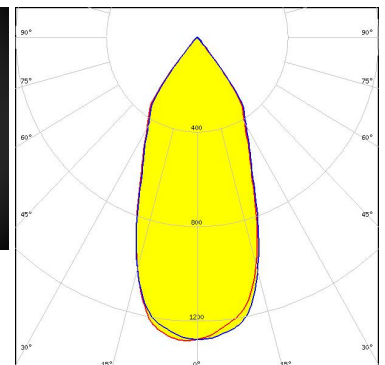
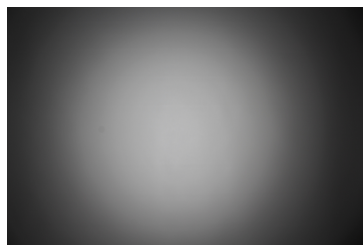
LED CXA/B 15xx  
 FWHM / FWTM 46.0° / 80.0°  
 Efficiency 89 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 45.0° / 80.0°  
 Efficiency 89 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1

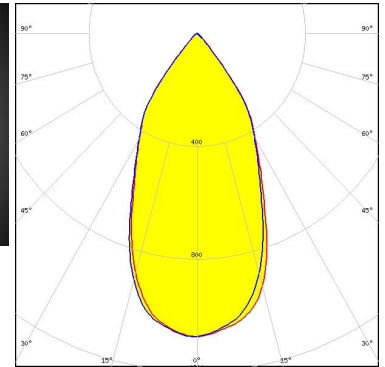
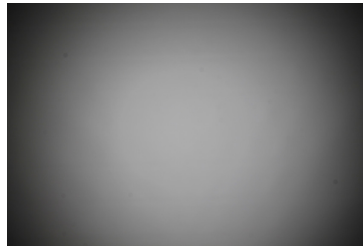


Light distribution files

#### OPTICAL RESULTS (MEASURED):



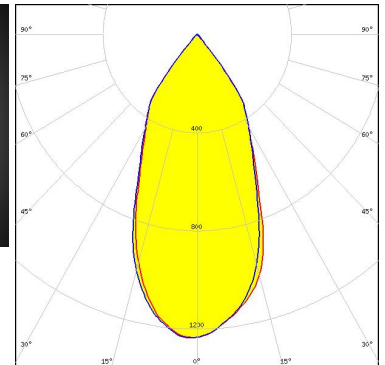
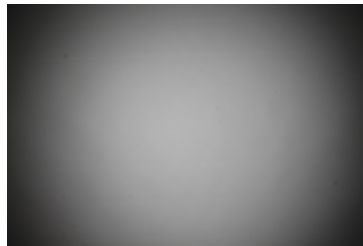
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 51.0° / 83.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18  
 F13671\_ANGE-RZ-LENS



Light distribution files



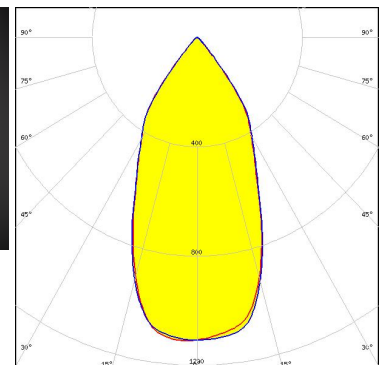
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 47.0° / 80.0°  
 Efficiency 89 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14123\_CLAMP-CXA15-18



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM / FWTM 49.0° / 82.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1

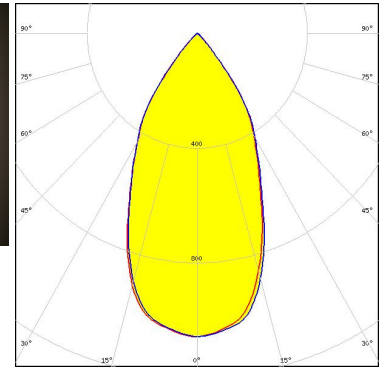
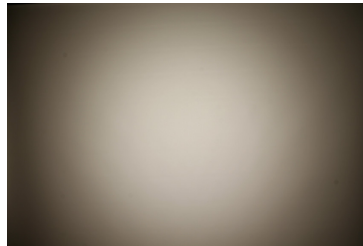


Light distribution files

#### OPTICAL RESULTS (MEASURED):



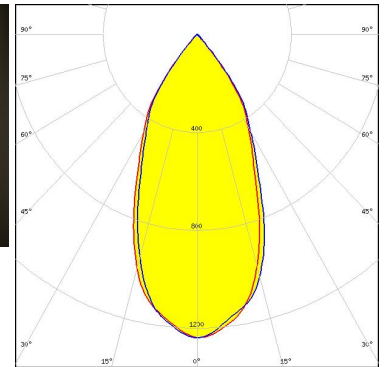
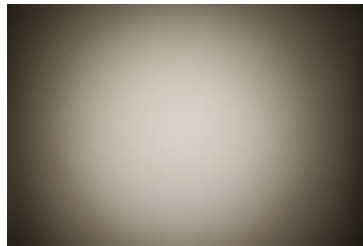
LED CXA/B 25xx  
 FWHM / FWTM 52.0° / 83.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30  
 F13671\_ANGE-RZ-LENS



Light distribution files



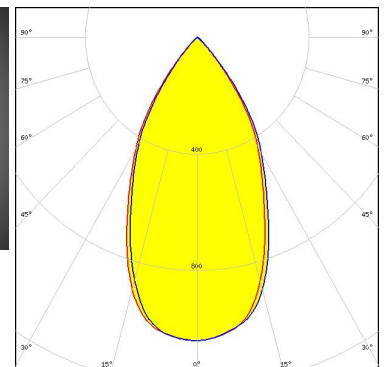
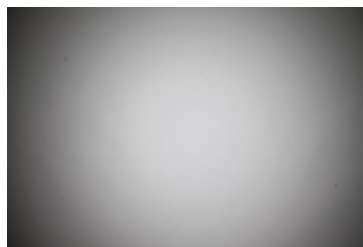
LED CXA/B 25xx  
 FWHM / FWTM 47.0° / 81.0°  
 Efficiency 88 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30



Light distribution files



LED CXA/B 30xx  
 FWHM / FWTM 53.0° / 84.0°  
 Efficiency 85 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14036\_CLAMP\_CXA25-30  
 F13671\_ANGE-RZ-LENS

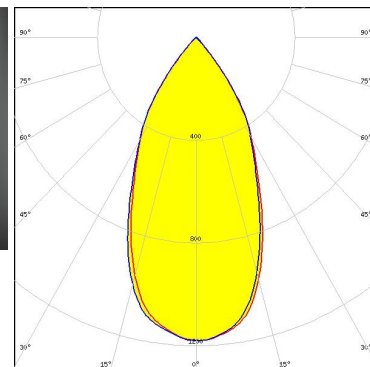
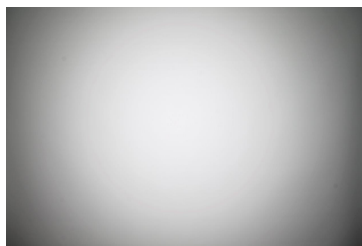


Light distribution files

#### OPTICAL RESULTS (MEASURED):



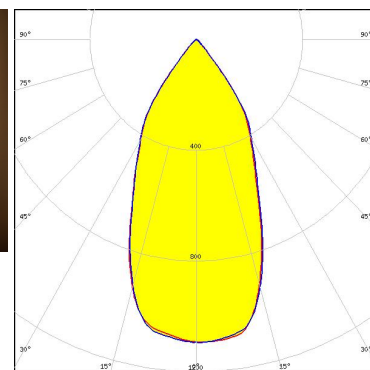
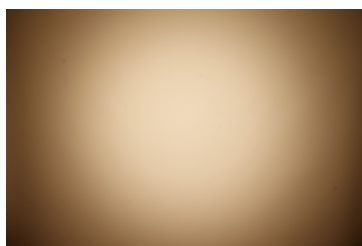
LED CXA/B 30xx  
FWHM / FWTM 50.0° / 82.0°  
Efficiency 89 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14036\_CLAMP\_CXA25-30



Light distribution files



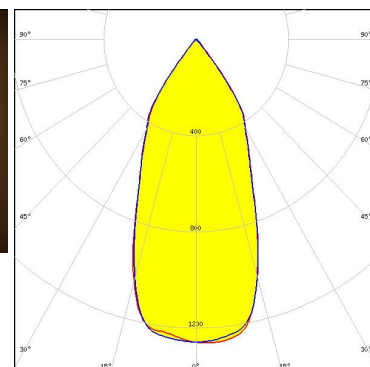
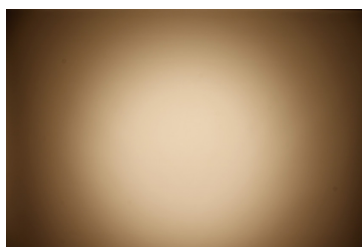
LED LUXEON CoB 1208  
FWHM / FWTM 49.0° / 81.0°  
Efficiency 83 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F13671\_ANGE-RZ-LENS  
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED LUXEON CoB 1208  
FWHM / FWTM 45.0° / 78.0°  
Efficiency 88 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
IDEAL: 50-2100SH + 50-2100AN

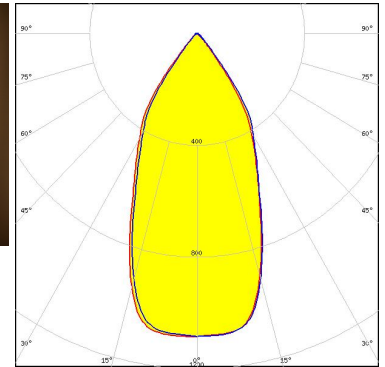
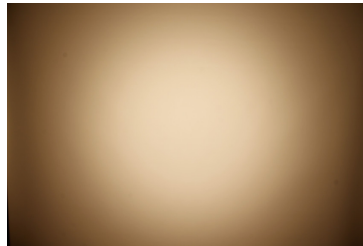


Light distribution files

#### OPTICAL RESULTS (MEASURED):



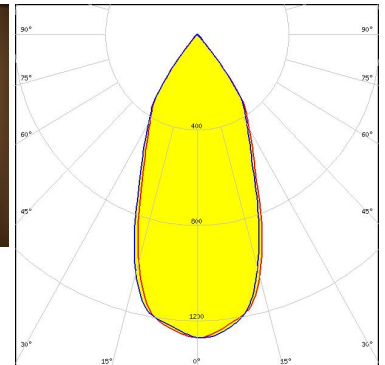
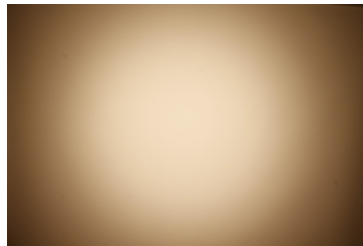
LED LUXEON CoB 1208  
 FWHM / FWTM 49.0° / 80.0°  
 Efficiency 83 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2100SH + 50-2100AN



Light distribution files



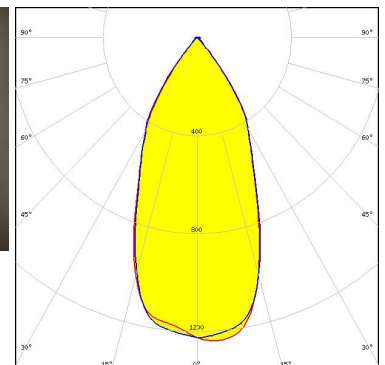
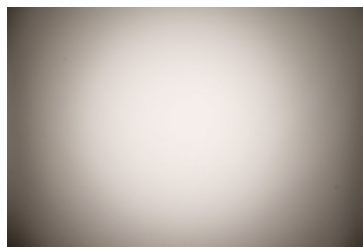
LED LUXEON CoB 1208  
 FWHM / FWTM 45.0° / 78.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED LUXEON CoB 1211  
 FWHM / FWTM 47.0° / 79.0°  
 Efficiency 88 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN

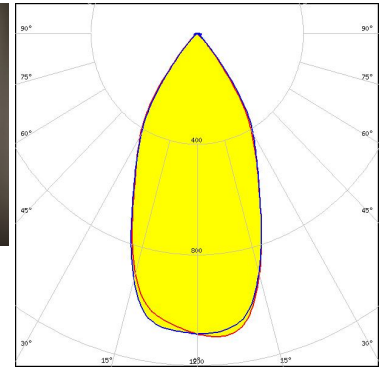
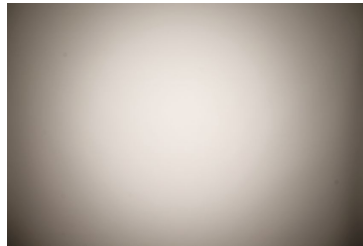


Light distribution files

#### OPTICAL RESULTS (MEASURED):



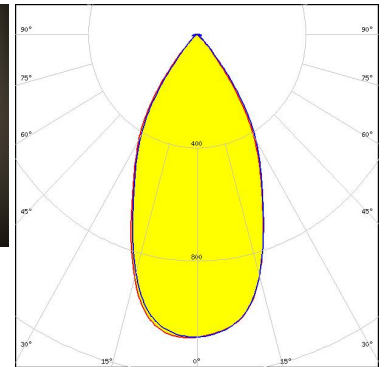
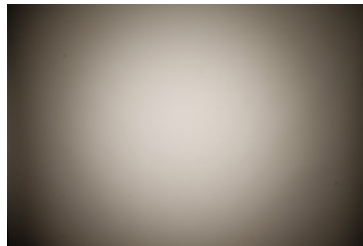
LED LUXEON CoB 1211  
 FWHM / FWTM 50.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



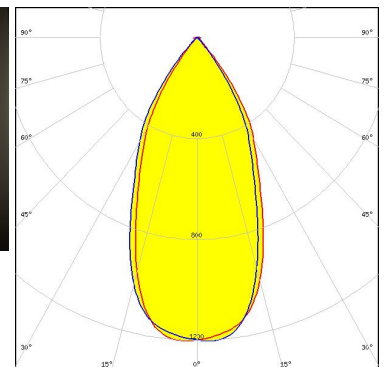
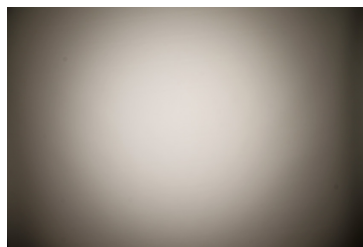
LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM 51.0° / 82.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM 48.0° / 80.0°  
 Efficiency 88 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204-CT + 50-2100AN

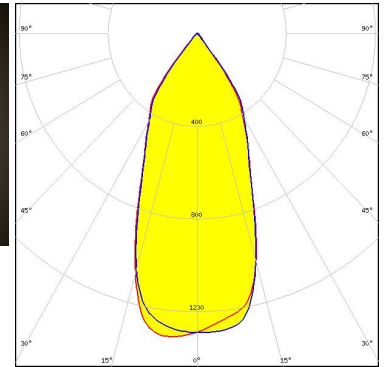
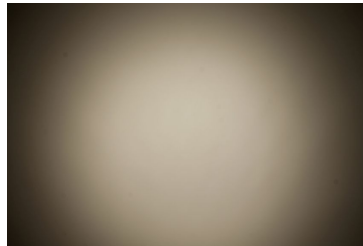


Light distribution files

#### OPTICAL RESULTS (MEASURED):



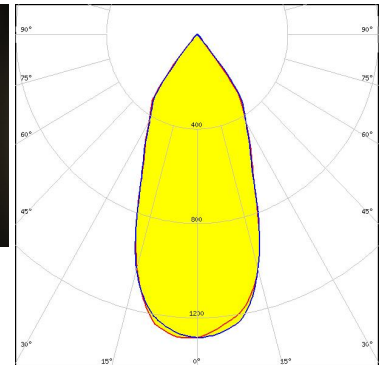
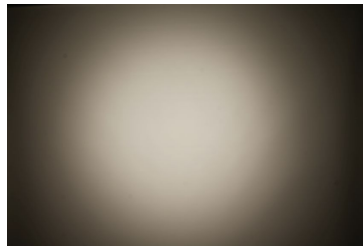
LED COB L-Type (LES 11)  
 FWHM / FWTM 44.0° / 78.0°  
 Efficiency 87 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2100NC + 50-2100AN



Light distribution files



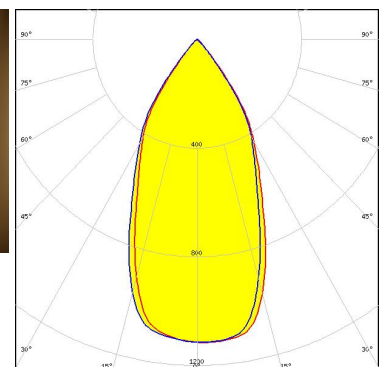
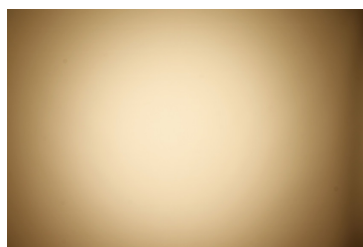
LED COB L-Type (LES 11)  
 FWHM / FWTM 45.0° / 79.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED PrevaLED Core Z4 LES19  
 FWHM / FWTM 49.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213130-2

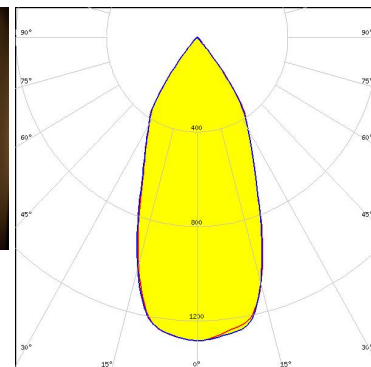
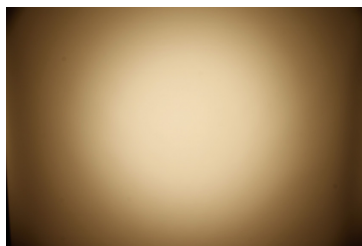


Light distribution files

#### OPTICAL RESULTS (MEASURED):

#### OSRAM

LED PrevaLED Core Z4 LES19  
 FWHM / FWTM 46.0° / 79.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

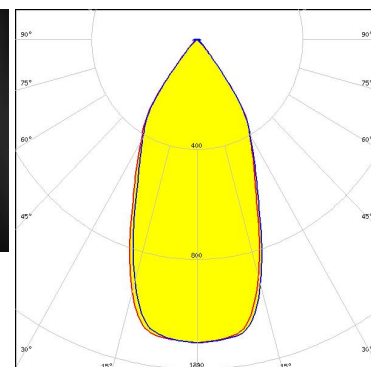
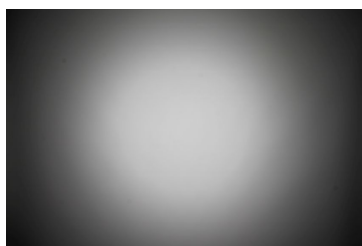


Light distribution files

#### OSRAM

Opto Semiconductors

LED Soleriq S13 19x19  
 FWHM / FWTM 48.0° / 80.0°  
 Efficiency 83 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 IDEAL: 50-2103CT + 50-2100AN

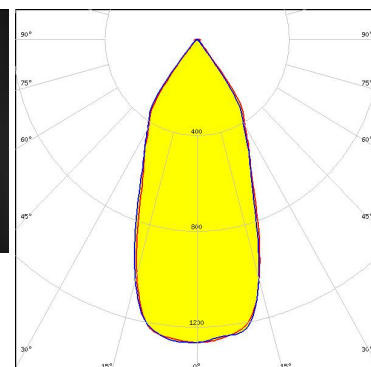
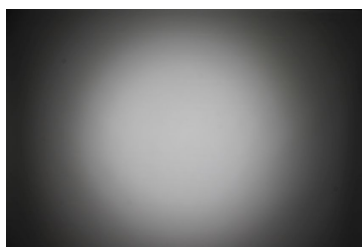


Light distribution files

#### OSRAM

Opto Semiconductors

LED Soleriq S13 19x19  
 FWHM / FWTM 45.0° / 78.0°  
 Efficiency 87 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2103CT + 50-2100AN



Light distribution files

#### OPTICAL RESULTS (MEASURED):

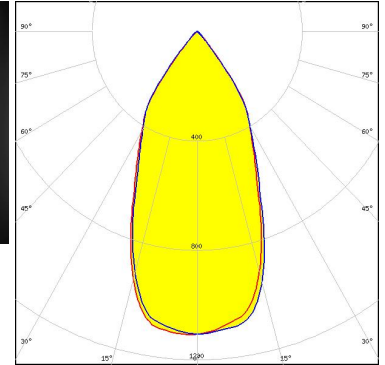
**OSRAM**  
Opto Semiconductors

LED Soleriq S13 19x19  
FWHM / FWTM 49.0° / 81.0°  
Efficiency 84 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



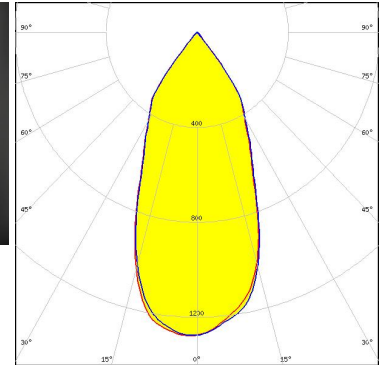
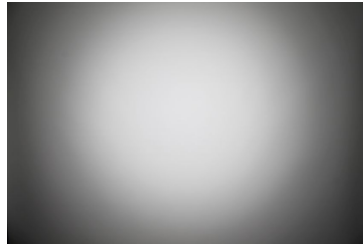
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Soleriq S13 19x19  
FWHM / FWTM 45.0° / 79.0°  
Efficiency 87 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

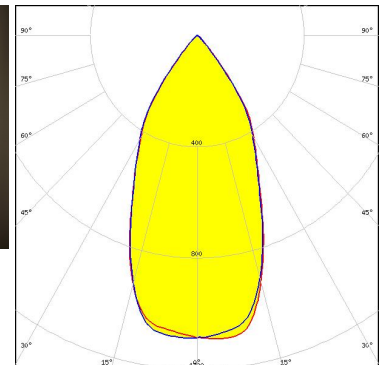
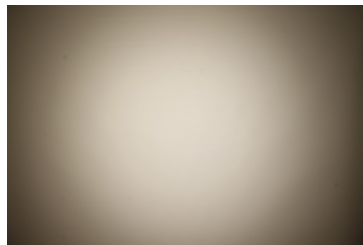
**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 50.0° / 82.0°  
Efficiency 84 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

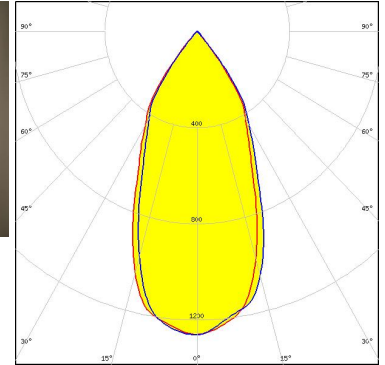
#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 46.0° / 80.0°  
Efficiency 88 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



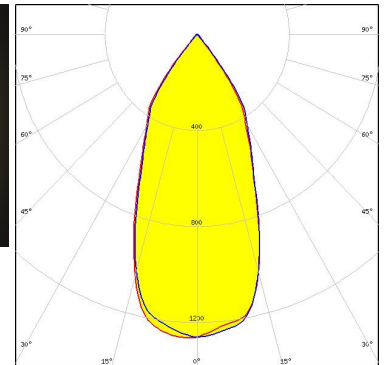
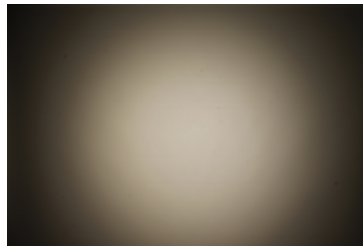
Light distribution files

**PHILIPS**

LED Fortimo SLM L15 + SLM holder  
FWHM / FWTM 46.0° / 79.0°  
Efficiency 88 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

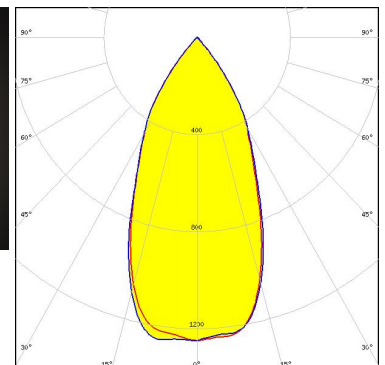
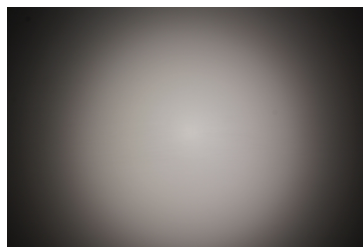
**SAMSUNG**

LED LC035T (Tunable white)  
FWHM / FWTM 48.0° / 81.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29

Bender Wirth: 502 Typ L3



Light distribution files

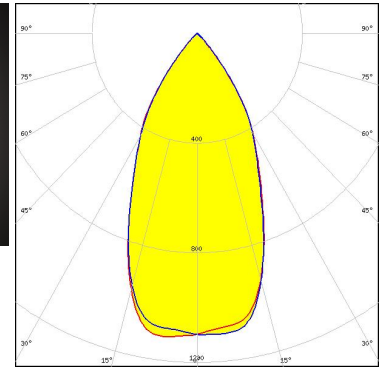
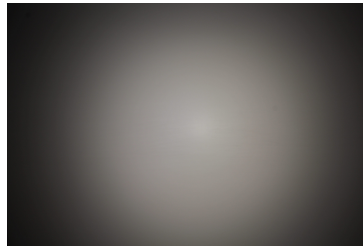
#### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

LED LC035T (Tunable white)  
 FWHM / FWTM 51.0° / 82.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White

Required components:

C13584\_CLAMP-VERO29  
 F13671\_ANGE-RZ-LENS  
 Bender Wirth: 502 Typ L3



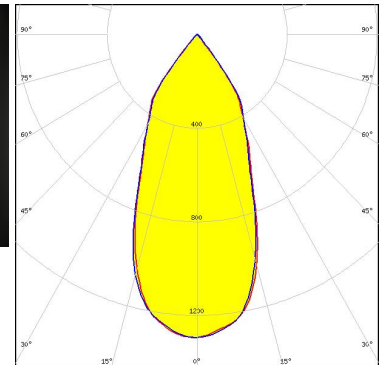
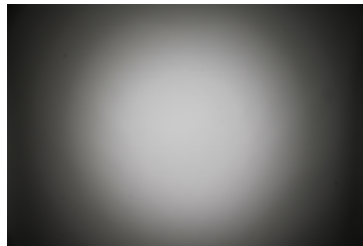
Light distribution files

#### SAMSUNG

LED LC040C  
 FWHM / FWTM 45.0° / 79.0°  
 Efficiency 88 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



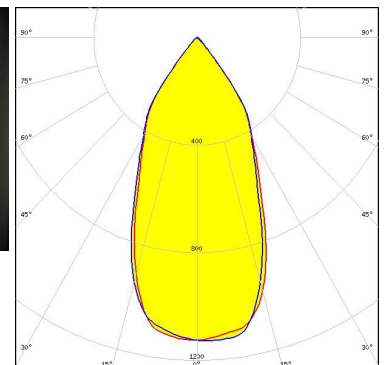
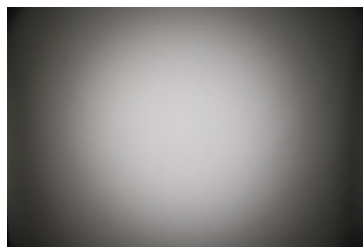
Light distribution files

#### SAMSUNG

LED LC040C  
 FWHM / FWTM 48.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

F13671\_ANGE-RZ-LENS  
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

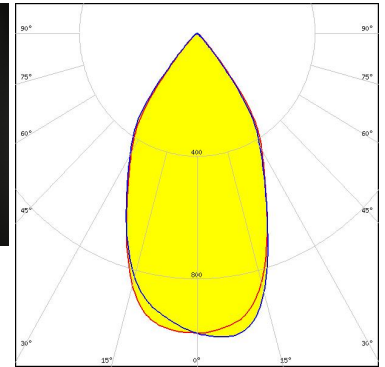
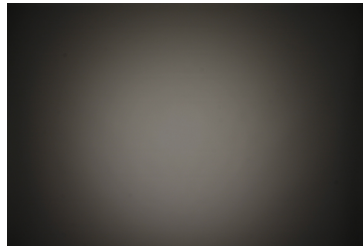


Light distribution files

#### OPTICAL RESULTS (MEASURED):



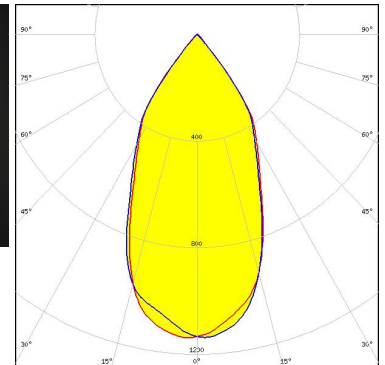
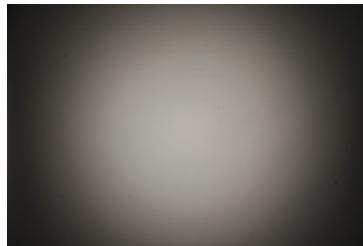
LED AC Zhaga COB  
 FWHM / FWTM 55.0° / 84.0°  
 Efficiency 84 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F13671\_ANGE-RZ-LENS  
 Optosource: SEHSMJD-A



Light distribution files



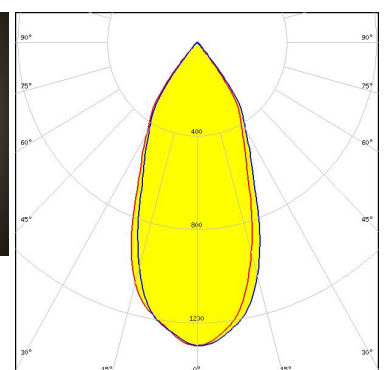
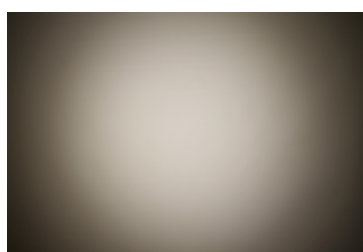
LED AC Zhaga COB  
 FWHM / FWTM 51.0° / 81.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Optosource: SEHSMJD-A



Light distribution files



LED WU-M-484  
 FWHM / FWTM 45.0° / 79.0°  
 Efficiency 87 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

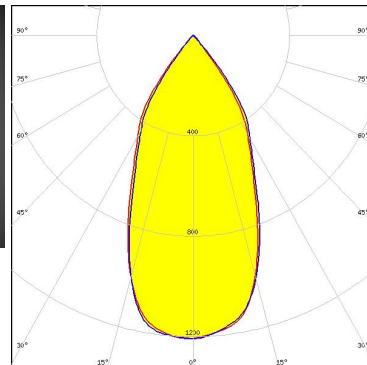
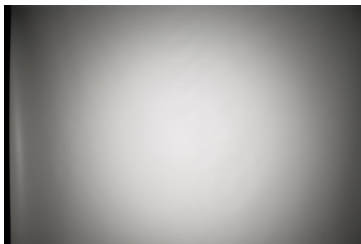


Light distribution files

## OPTICAL RESULTS (MEASURED):

### XICATO

LED XIM - 19mm LES  
FWHM / FWTM 49.0° / 81.0°  
Efficiency 89 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16491\_XTM-ADAPTER-50-A



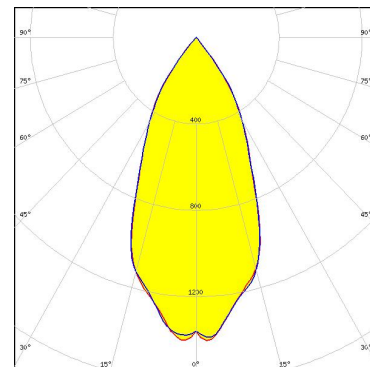
Light distribution files

#### OPTICAL RESULTS (SIMULATED):



LED V13 Gen7  
 FWHM / FWTM 46.0° / 78.0°  
 Efficiency 91 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13658\_CLAMP-VERO13-18

Bender Wirth: 477 Typ L1

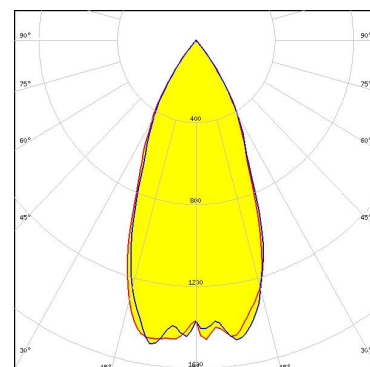


Light distribution files



LED V22 Gen7  
 FWHM / FWTM 45.0° / 75.0°  
 Efficiency 94 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

### 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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