

## LENINA-W

~55° wide beam

### SPECIFICATION:

Dimensions	Ø 74.0 mm
Height	40 mm
Fastening	socket
ROHS compliant	yes ⓘ

### MATERIALS:

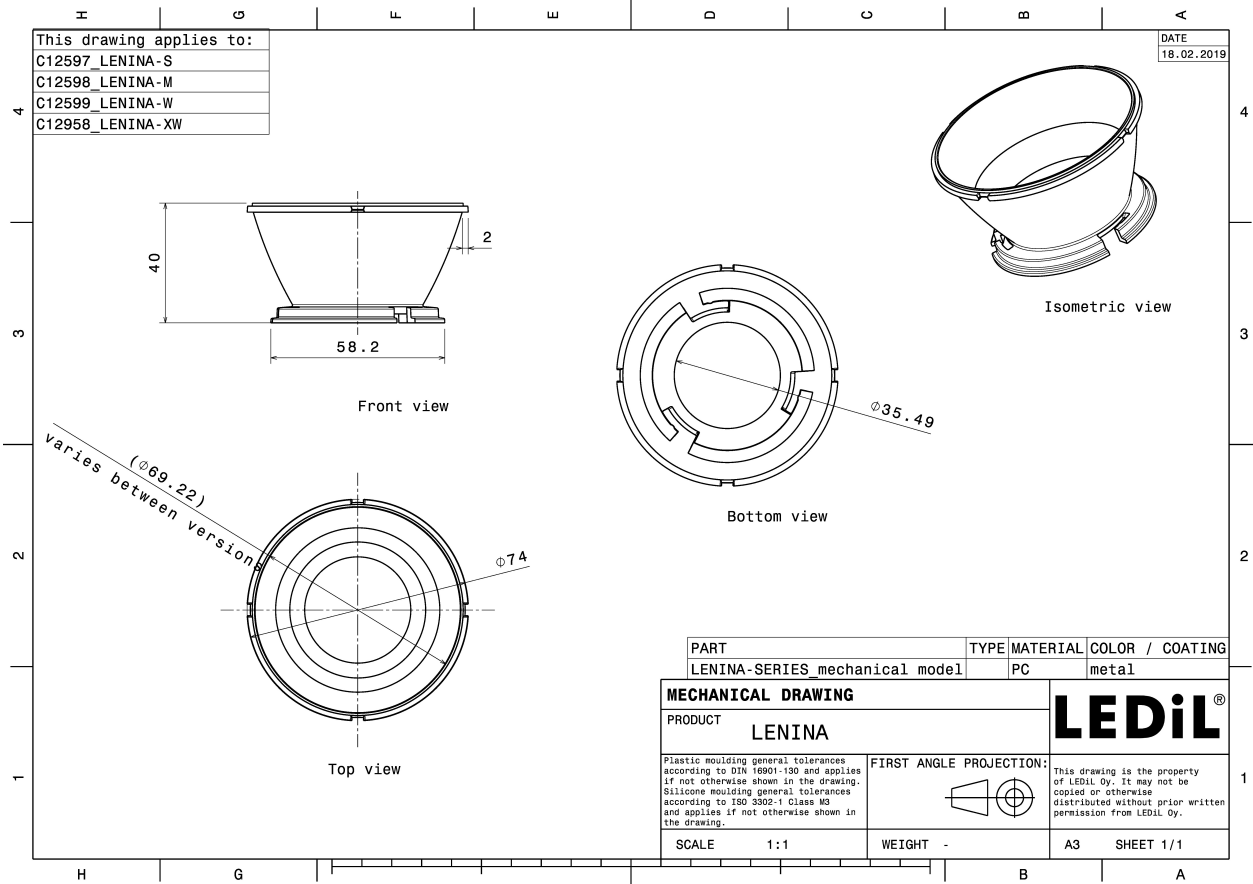
Component	Type	Material	Colour	Finish	Coating
LENINA-W	Reflector	PC	metal		lacquer



LEDiL

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12599_LENINA-W » Box size: 476 x 273 x 197 mm	60	120	60	2.0



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

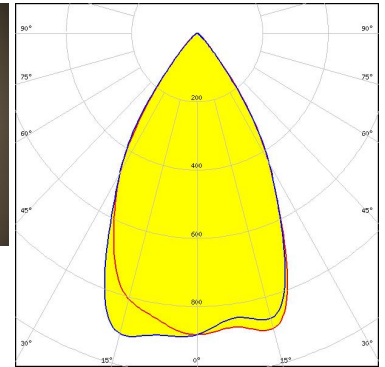
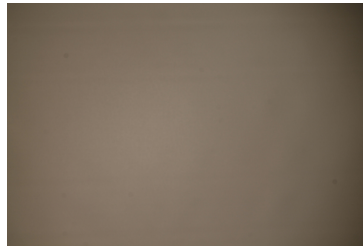
### OPTICAL RESULTS (MEASURED):

bridgelux

LED BXRA ES Rectangle  
FWHM / FWTM 60.0° / 84.0°  
Efficiency 86 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12153\_LENINA-STD-BASE-BXRA  
C12606\_LENINA-DL



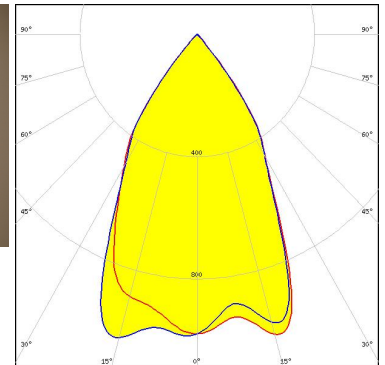
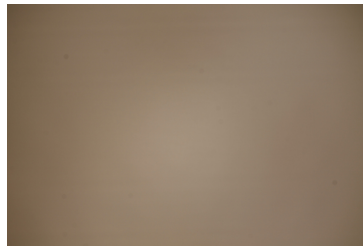
Light distribution files

bridgelux

LED BXRA ES Rectangle  
FWHM / FWTM 58.0° / 82.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12153\_LENINA-STD-BASE-BXRA



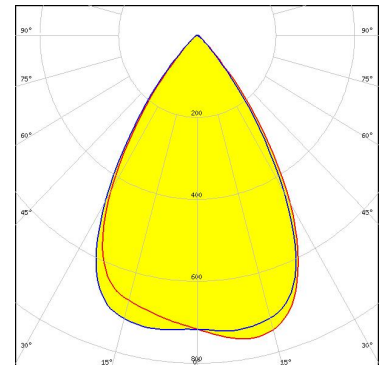
Light distribution files

bridgelux

LED BXRA RS  
FWHM / FWTM 60.0° / 89.0°  
Efficiency 80 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12229\_LENINA-STD-BASE-RS  
C12606\_LENINA-DL

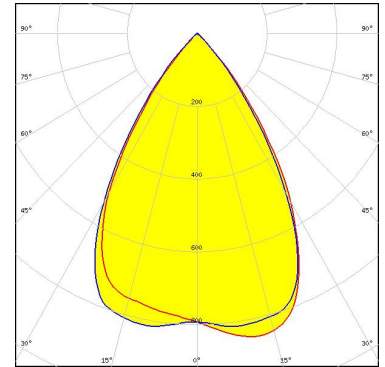


Light distribution files

### OPTICAL RESULTS (MEASURED):

bridgelux

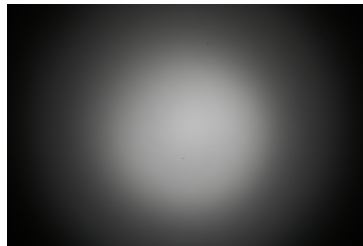
LED BXRA RS  
FWHM / FWTM 64.0° / 87.0°  
Efficiency 88 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12229\_LENINA-STD-BASE-RS



Light distribution files

bridgelux

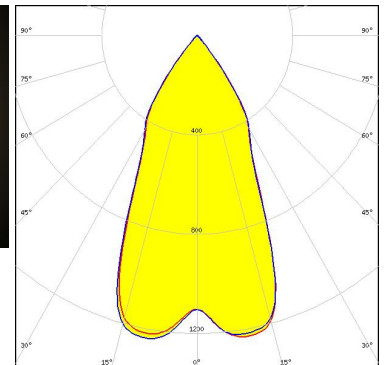
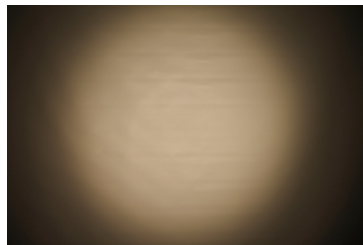
LED V10 Gen6  
FWHM / FWTM 47.0° / 80.0°  
Efficiency 83 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13186\_LENINA-STD-BASE-CXA15  
C12606\_LENINA-DL



Light distribution files

bridgelux

LED V4 HD Gen 7  
FWHM / FWTM 48.0° / 79.0°  
Efficiency 91 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14146\_LENINA-STD-BASE-CXA18



Light distribution files

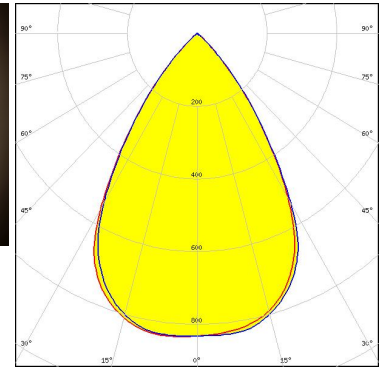
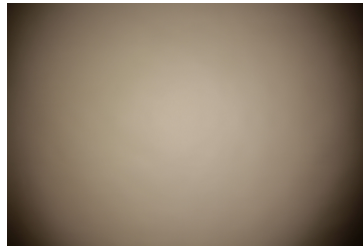
### OPTICAL RESULTS (MEASURED):



LED Vero SE 29  
FWHM / FWTM 66.0° / 90.0°  
Efficiency 91 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C15083\_LENINA-STD-BASE-VERO29



Light distribution files

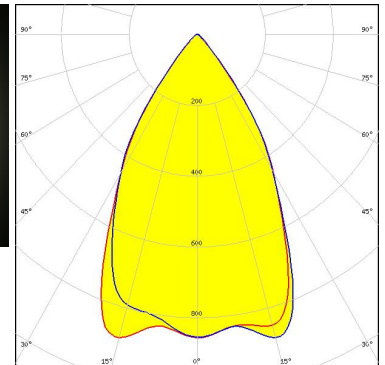
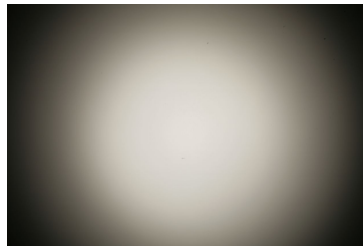


LED VERO13  
FWHM / FWTM 60.0° / 84.0°  
Efficiency 85 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

C12606\_LENINA-DL



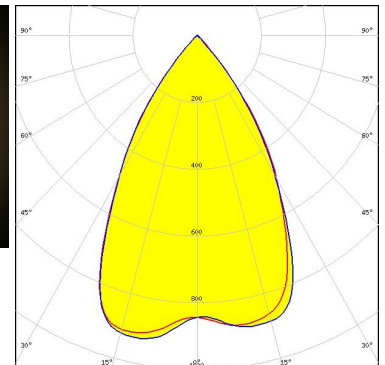
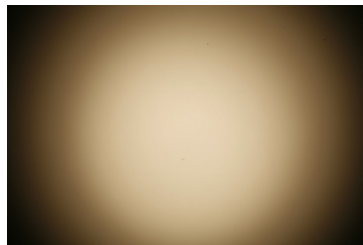
Light distribution files



LED VERO18  
FWHM / FWTM 64.0° / 85.0°  
Efficiency 89 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18



Light distribution files

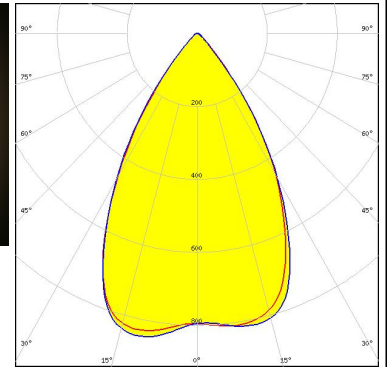
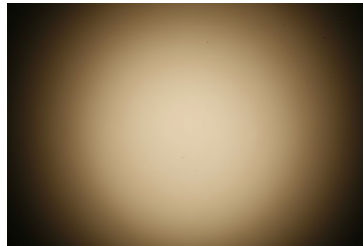
#### OPTICAL RESULTS (MEASURED):



LED VERO18  
 FWHM / FWTM 64.0° / 86.0°  
 Efficiency 85 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

- C13868\_LENINA-STD-BASE-VERO13-18
- C12606\_LENINA-DL



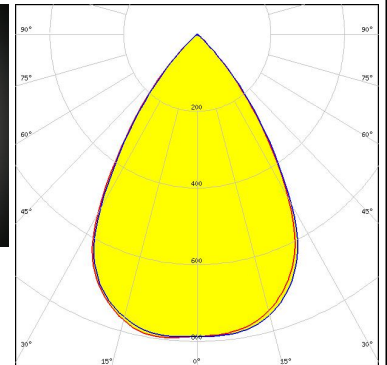
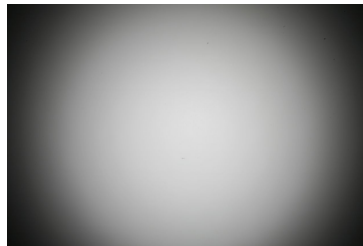
Light distribution files



LED VERO29  
 FWHM / FWTM 67.0° / 91.0°  
 Efficiency 88 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

- C13867\_LENINA-STD-BASE-VERO29



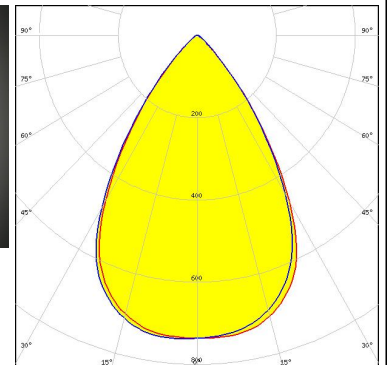
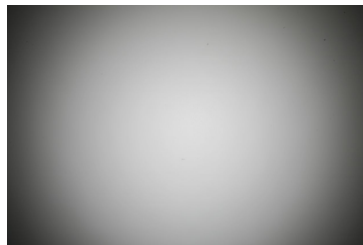
Light distribution files



LED VERO29  
 FWHM / FWTM 67.0° / 92.0°  
 Efficiency 84 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

- C13867\_LENINA-STD-BASE-VERO29
- C12606\_LENINA-DL

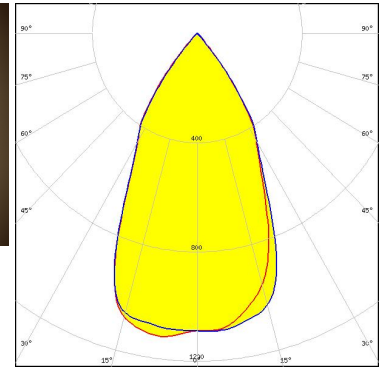
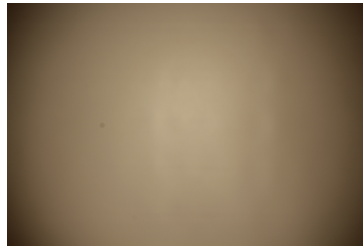


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

LED CL-L340  
FWHM / FWTM 53.0° / 81.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C11995\_LENINA-STD-BASE-CL340



Light distribution files

#### CITIZEN

LED CL-L340  
FWHM / FWTM 50.0° / 83.0°  
Efficiency 78 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C11995\_LENINA-STD-BASE-CL340  
C12606\_LENINA-DL

Light distribution files

#### CITIZEN

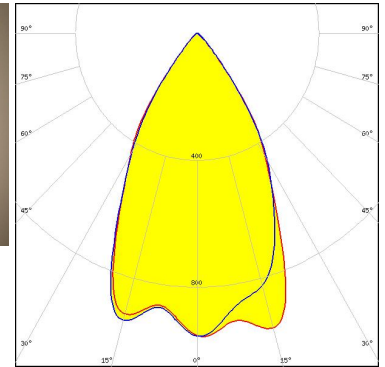
LED CL-L340  
FWHM / FWTM 48.0° / 80.0°  
Efficiency 86 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C11995\_LENINA-STD-BASE-CL340

Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

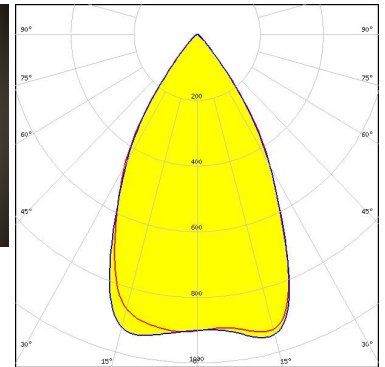
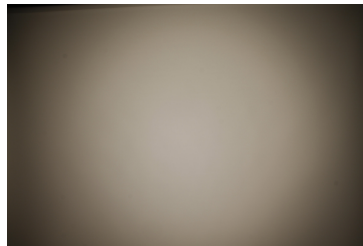
LED CLL02x/CLU02x (LES10)  
FWHM / FWTM 57.0° / 82.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 434 Typ L1



Light distribution files

#### CITIZEN

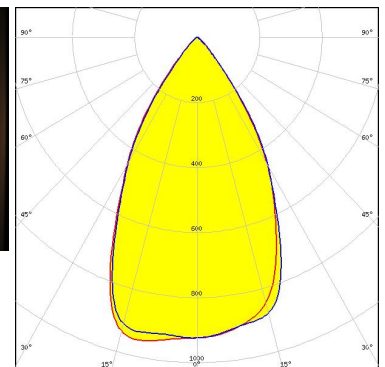
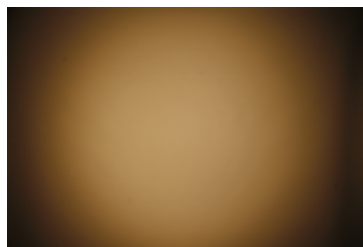
LED CLL03x/CLU03x  
FWHM / FWTM 60.0° / 83.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 433 Typ L1



Light distribution files

#### CITIZEN

LED CLL03x/CLU03x  
FWHM / FWTM 58.0° / 84.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030  
C12606\_LENINA-DL



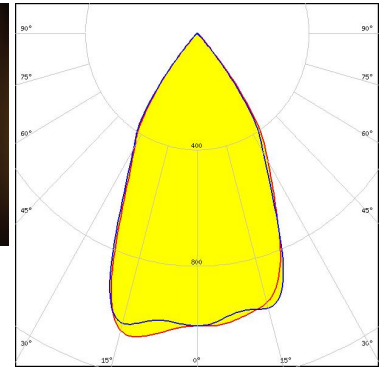
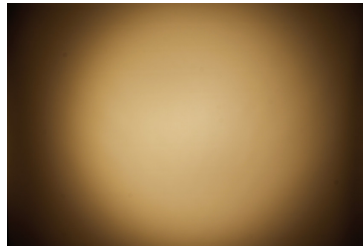
Light distribution files



#### OPTICAL RESULTS (MEASURED):

### CITIZEN

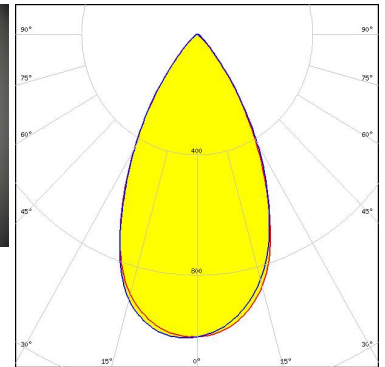
LED CLL03x/CLU03x  
 FWHM / FWTM 56.0° / 82.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030



Light distribution files

### CITIZEN

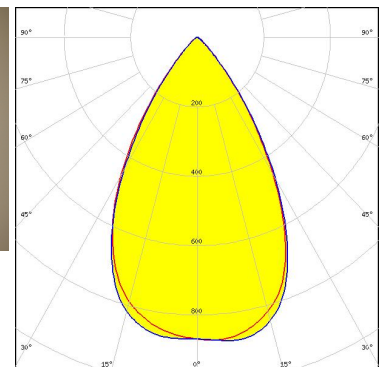
LED CLL04x/CLU04x  
 FWHM / FWTM 55.0° / 84.0°  
 Efficiency 86 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12606\_LENINA-DL  
 IDEAL: 50-2204CT + 50-2100LN



Light distribution files

### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 61.0° / 87.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 431 Typ L3

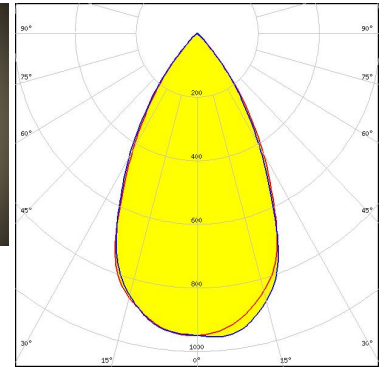


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

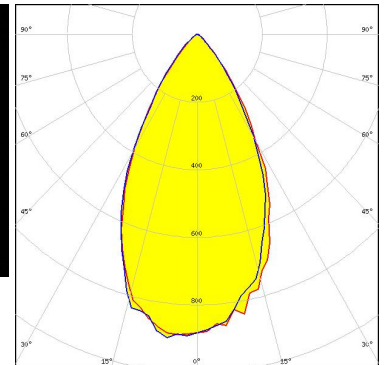
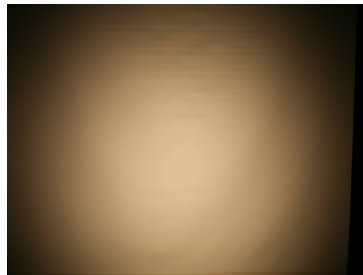
LED CLL04x/CLU04x  
 FWHM / FWTM 57.0° / 84.0°  
 Efficiency 82 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 A.A.G. STUCCHI: 8102-G2 + S-8000-12



Light distribution files

#### CITIZEN

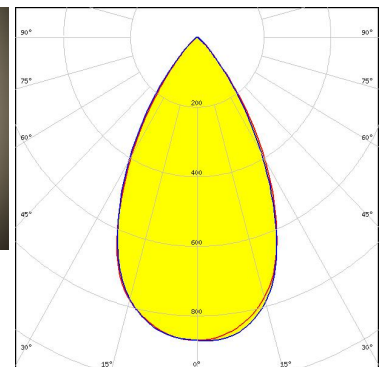
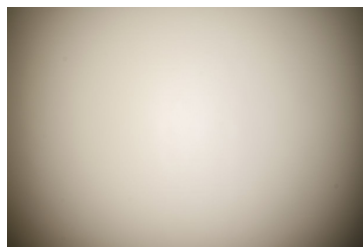
LED CLL04x/CLU04x  
 FWHM / FWTM 56.0° / 87.0°  
 Efficiency 76 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



Light distribution files

#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 58.0° / 85.0°  
 Efficiency 78 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12606\_LENINA-DL  
 A.A.G. STUCCHI: 8102-G2 + S-8000-12

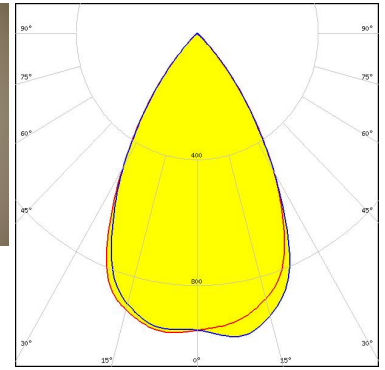


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

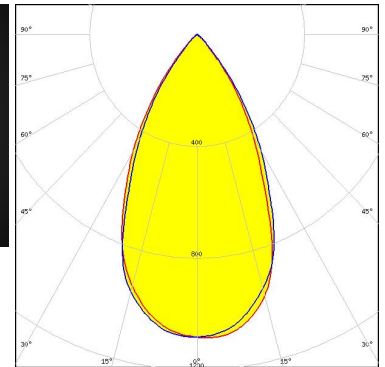
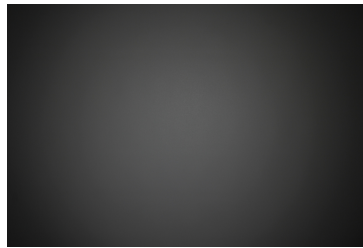
LED CLL04x/CLU04x  
 FWHM / FWTM 61.0° / 85.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 431 Typ L3



Light distribution files

#### CITIZEN

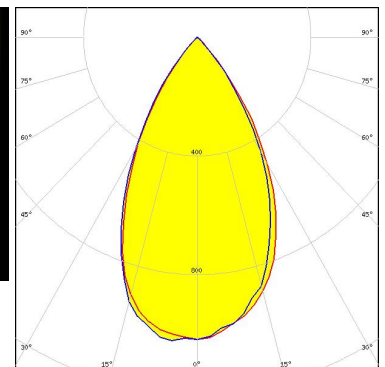
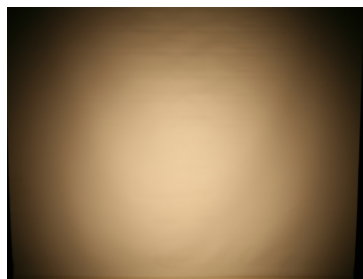
LED CLL04x/CLU04x  
 FWHM / FWTM 54.0° / 83.0°  
 Efficiency 87 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 IDEAL: 50-2204CT + 50-2100LN



Light distribution files

#### CITIZEN

LED CLL04x/CLU04x  
 FWHM / FWTM 59.0° / 85.0°  
 Efficiency 84 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040

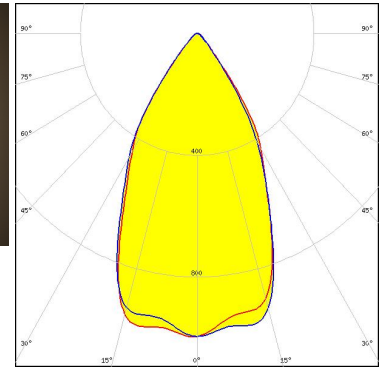
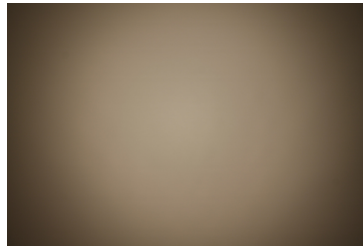


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

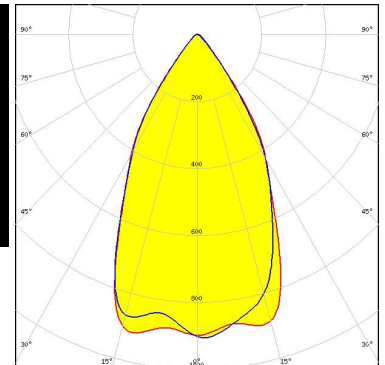
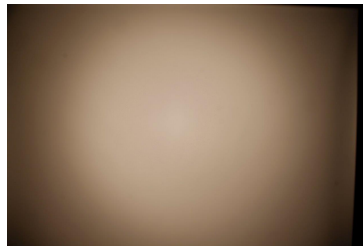
LED CLU710/711  
FWHM / FWTM 55.0° / 82.0°  
Efficiency 89 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030  
C12606\_LENINA-DL



Light distribution files

#### CITIZEN

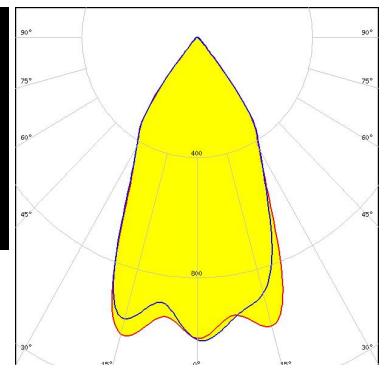
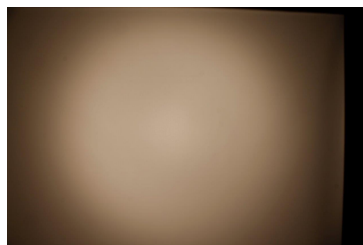
LED CLU720/721/723  
FWHM / FWTM 57.0° / 83.0°  
Efficiency 83 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030  
C12606\_LENINA-DL



Light distribution files

#### CITIZEN

LED CLU720/721/723  
FWHM / FWTM 54.0° / 81.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030

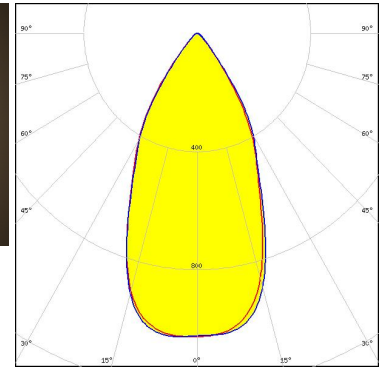
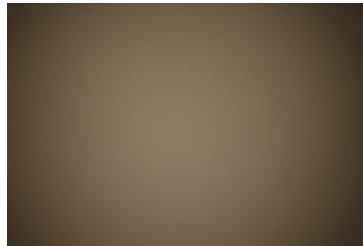


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

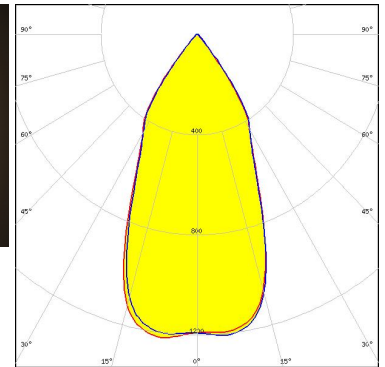
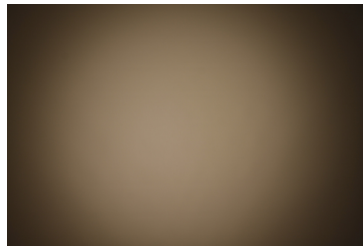
LED CLU730/731/733  
 FWHM / FWTM 50.0° / 82.0°  
 Efficiency 83 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040  
 C12606\_LENINA-DL



Light distribution files

#### CITIZEN

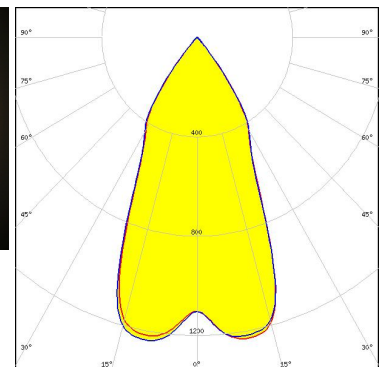
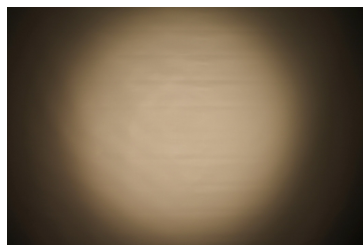
LED CLU730/731/733  
 FWHM / FWTM 49.0° / 80.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



Light distribution files



LED CMA1840  
 FWHM / FWTM 48.0° / 79.0°  
 Efficiency 91 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C14146\_LENINA-STD-BASE-CXA18

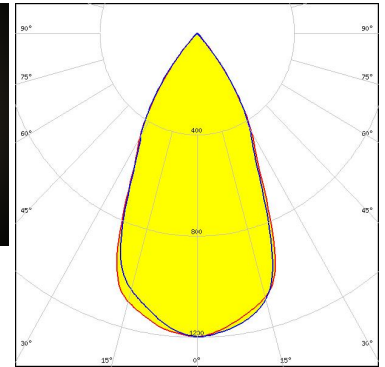
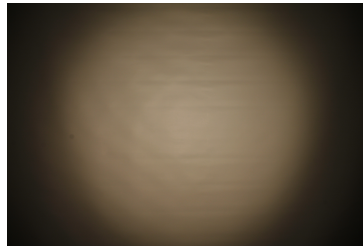


Light distribution files

### OPTICAL RESULTS (MEASURED):



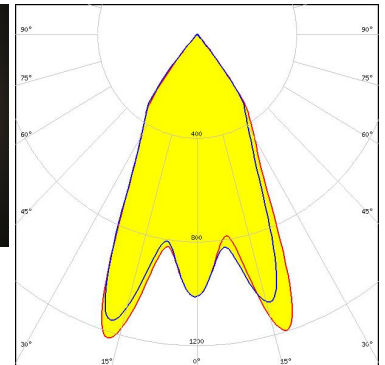
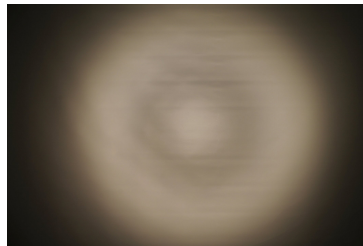
LED CMA2550  
FWHM / FWMTM 51.0° / 80.0°  
Efficiency 91 %  
Peak intensity 1.2 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13324\_LENINA-STD-BASE-CXA25



Light distribution files



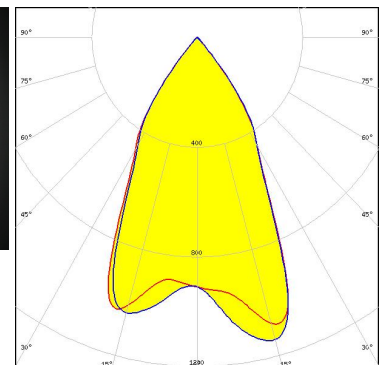
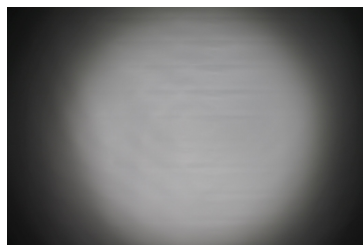
LED CMT14xx  
FWHM / FWMTM 55.0° / 81.0°  
Efficiency 91 %  
Peak intensity 1.2 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 434 Typ L1



Light distribution files



LED CMT19xx  
FWHM / FWMTM 54.0° / 81.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/m  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030  
Bender Wirth: 477 Typ L1

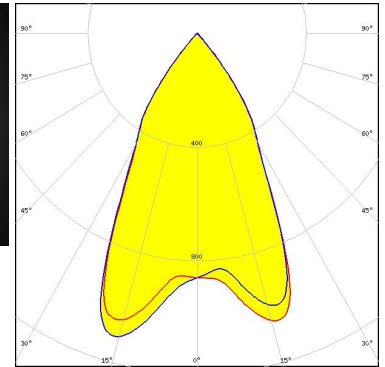
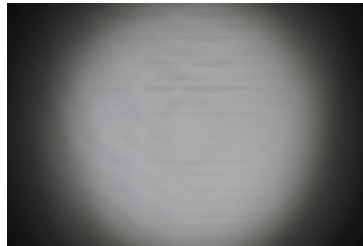


Light distribution files

### OPTICAL RESULTS (MEASURED):



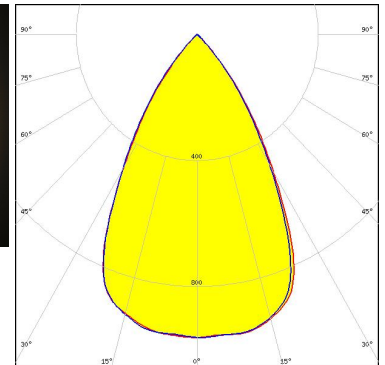
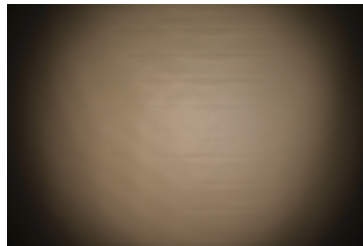
LED CMT19xx  
 FWHM / FWTM 55.0° / 82.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 477 Typ L1



Light distribution files



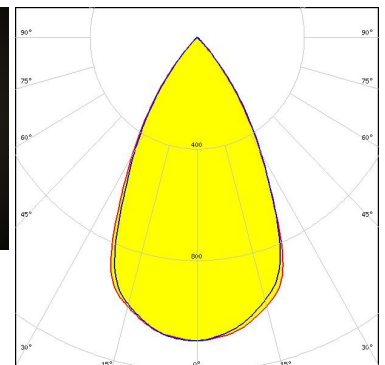
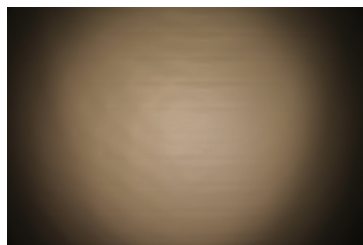
LED CMT28xx  
 FWHM / FWTM 60.0° / 84.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 471 Typ L3



Light distribution files



LED CMT28xx  
 FWHM / FWTM 56.0° / 82.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



Light distribution files

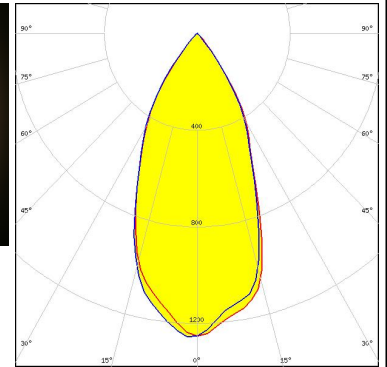
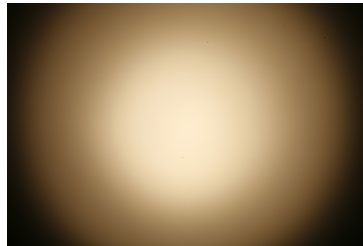
### OPTICAL RESULTS (MEASURED):



LED CXA/B 15xx  
 FWHM / FWTM 48.0° / 79.0°  
 Efficiency 83 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13186\_LENINA-STD-BASE-CXA15  
 C12606\_LENINA-DL



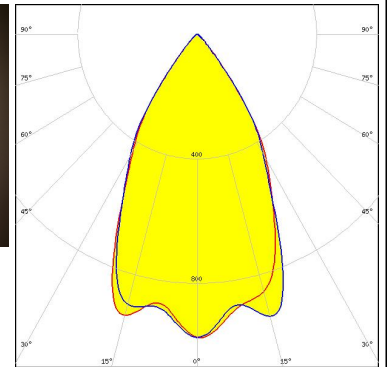
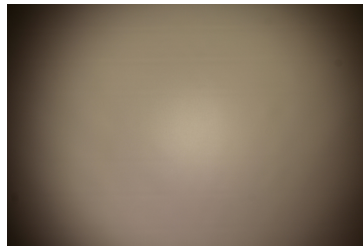
Light distribution files



LED CXA/B 15xx  
 FWHM / FWTM 57.0° / 82.0°  
 Efficiency 86 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 441 Typ L1



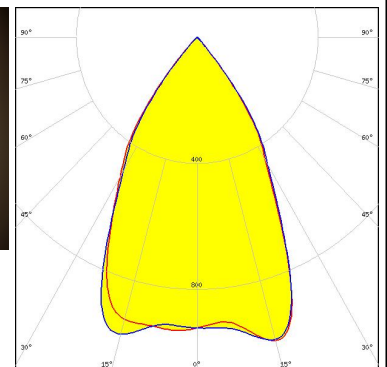
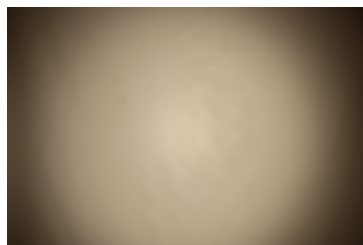
Light distribution files



LED CXA/B 1830  
 FWHM / FWTM 60.0° / 83.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 437 Typ L1



Light distribution files



### OPTICAL RESULTS (MEASURED):



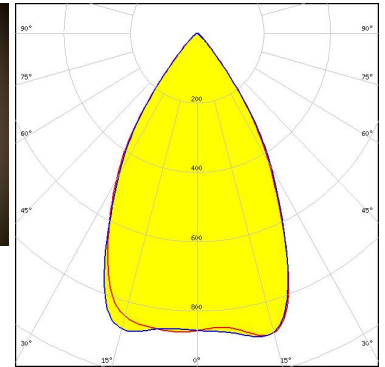
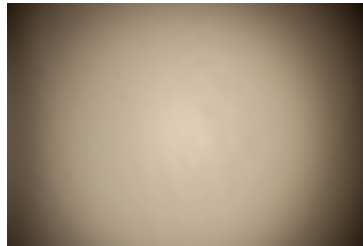
LED CXA/B 1830  
 FWHM / FWTM 61.0° / 85.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

C12606\_LENINA-DL

Bender Wirth: 437 Typ L1



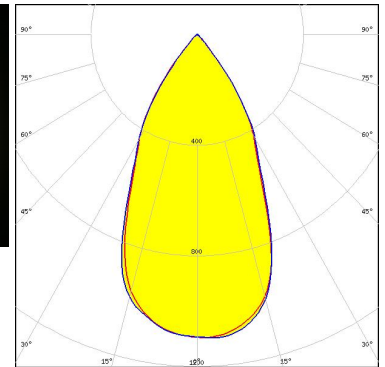
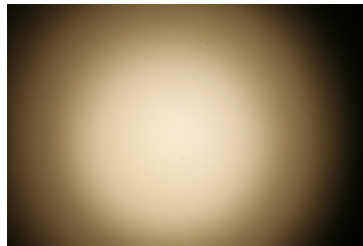
Light distribution files



LED CXA/B 25xx  
 FWHM / FWTM 51.0° / 80.0°  
 Efficiency 84 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13324\_LENINA-STD-BASE-CXA25



Light distribution files

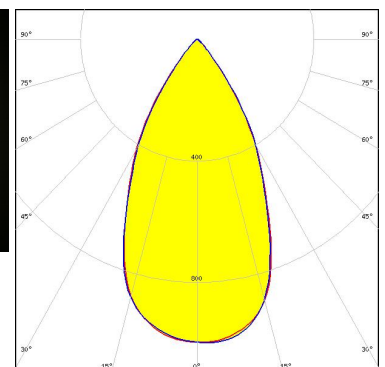
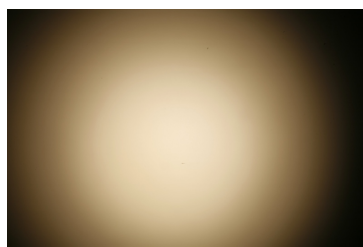


LED CXA/B 25xx  
 FWHM / FWTM 52.0° / 80.0°  
 Efficiency 76 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13324\_LENINA-STD-BASE-CXA25

C12606\_LENINA-DL

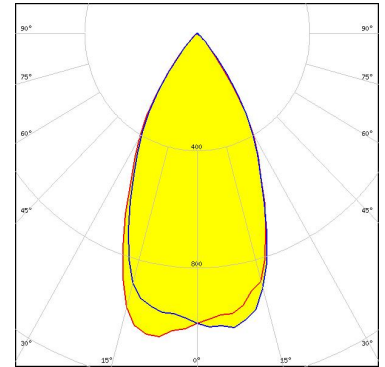


Light distribution files

### OPTICAL RESULTS (MEASURED):



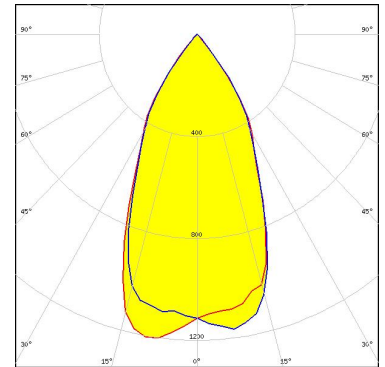
LED CXA2011  
FWHM / FWTM 52.0° / 83.0°  
Efficiency 78 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12105\_LENINA-STD-BASE-CXA20  
C12606\_LENINA-DL



Light distribution files



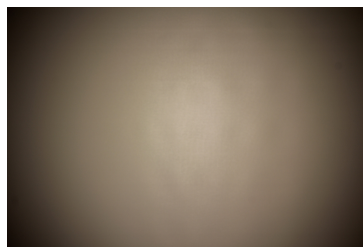
LED CXA2011  
FWHM / FWTM 50.0° / 80.0°  
Efficiency 86 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12105\_LENINA-STD-BASE-CXA20



Light distribution files



LED CHI3030 19W  
FWHM / FWTM 62.0° / 88.0°  
Efficiency 90 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13867\_LENINA-STD-BASE-VERO29  
C12606\_LENINA-DL  
Bender Wirth: 468 Typ L3



Light distribution files

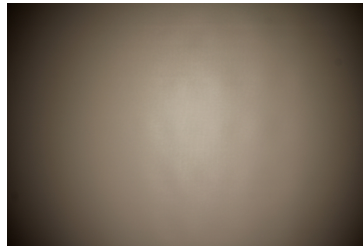
### OPTICAL RESULTS (MEASURED):

#### EVERLIGHT

LED CHI3030 29W  
FWHM / FWTM 63.0° / 92.0°  
Efficiency 86 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29  
C12606\_LENINA-DL  
Bender Wirth: 468 Typ L3



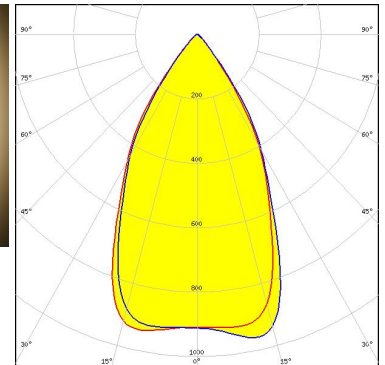
Light distribution files

#### LUMILEDS

LED LUXEON CoB 1204/1205  
FWHM / FWTM 57.0° / 82.0°  
Efficiency 84 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



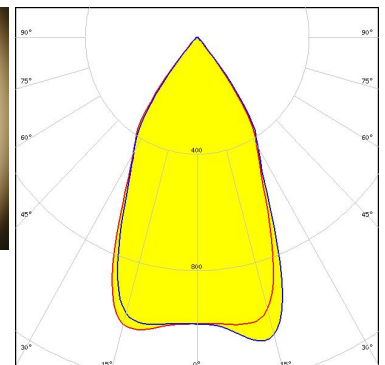
Light distribution files

#### LUMILEDS

LED LUXEON CoB 1204/1205  
FWHM / FWTM 55.0° / 81.0°  
Efficiency 89 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12292\_LENINA-STD-BASE-MEZ

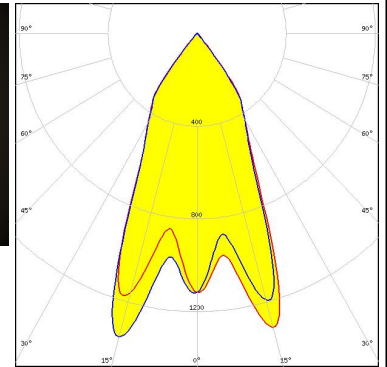
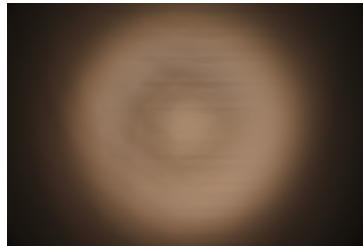


Light distribution files

### OPTICAL RESULTS (MEASURED):



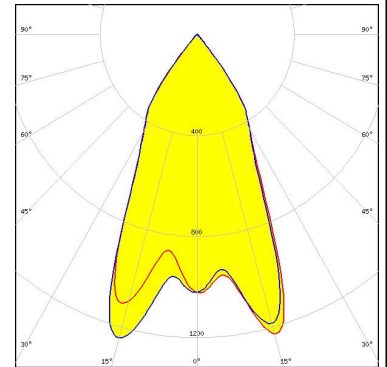
LED LUXEON CoB 1204HD  
 FWHM / FWTM 51.0° / 79.0°  
 Efficiency 91 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110



Light distribution files



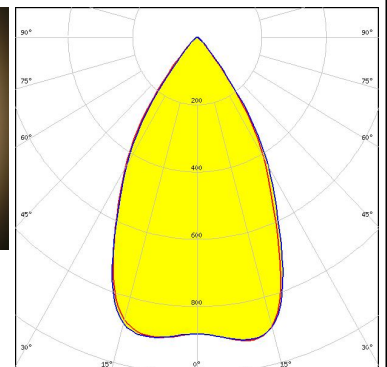
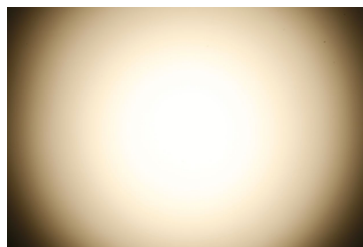
LED LUXEON CoB 1205HD  
 FWHM / FWTM 54.0° / 80.0°  
 Efficiency 91 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C11981\_LENINA-STD-BASE-COB-L110



Light distribution files



LED LUXEON CoB 1208  
 FWHM / FWTM 60.0° / 83.0°  
 Efficiency 84 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL

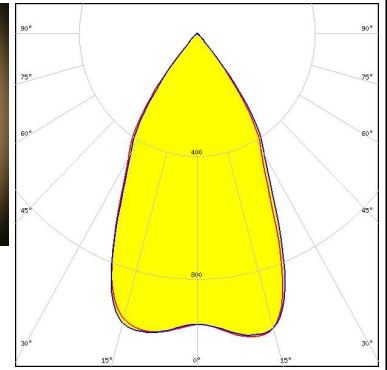
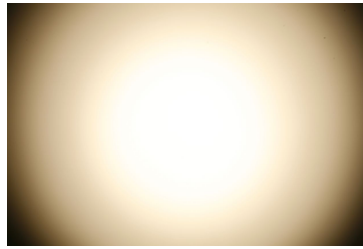


Light distribution files

### OPTICAL RESULTS (MEASURED):



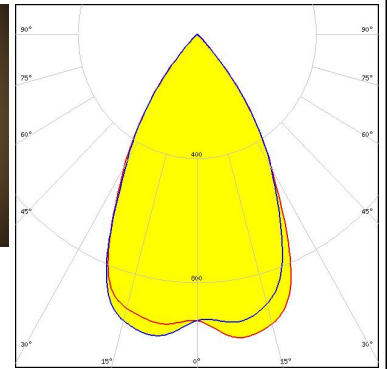
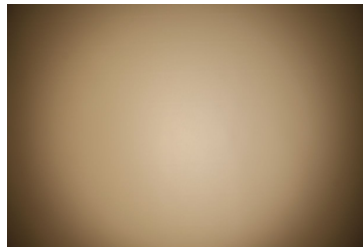
**LED** LUXEON CoB 1208  
**FWHM / FWTM** 58.0° / 82.0°  
**Efficiency** 88 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C12292\_LENINA-STD-BASE-MEZ



Light distribution files



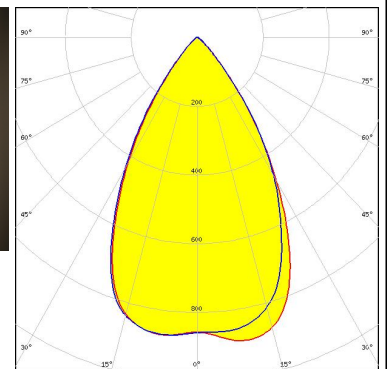
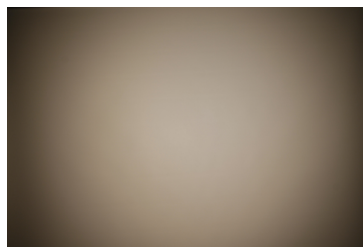
**LED** LUXEON CoB 1211  
**FWHM / FWTM** 60.0° / 84.0°  
**Efficiency** 91 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 431 Typ L3



Light distribution files



**LED** LUXEON CoB 1211  
**FWHM / FWTM** 60.0° / 86.0°  
**Efficiency** 86 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 431 Typ L3

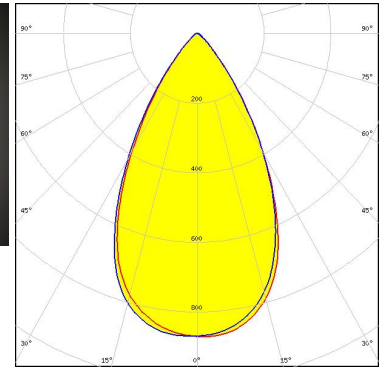
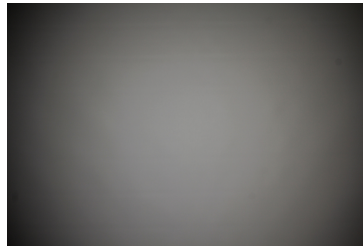


Light distribution files

### OPTICAL RESULTS (MEASURED):



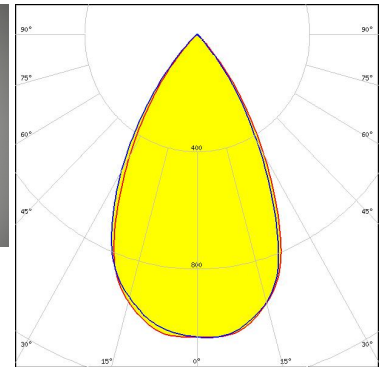
LED LUXEON CoB 1213/1216/1812  
FWHM / FWTM 58.0° / 86.0°  
Efficiency 80 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12606\_LENINA-DL  
A.A.G. STUCCHI: 8102-G2 + S-8000-12



Light distribution files



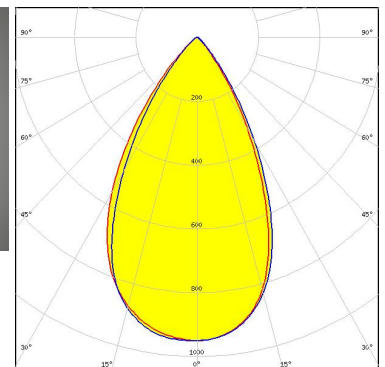
LED LUXEON CoB 1213/1216/1812  
FWHM / FWTM 58.0° / 84.0°  
Efficiency 90 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



Light distribution files



LED LUXEON CoB 1213/1216/1812  
FWHM / FWTM 58.0° / 85.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040  
C12606\_LENINA-DL

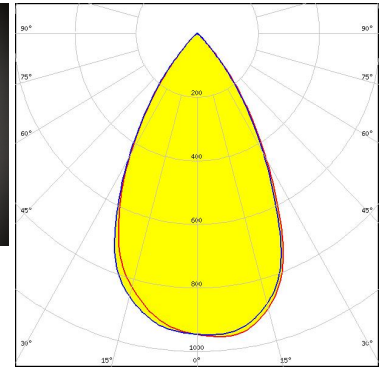
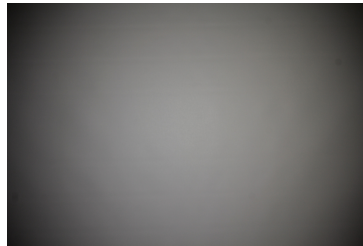


Light distribution files

#### OPTICAL RESULTS (MEASURED):



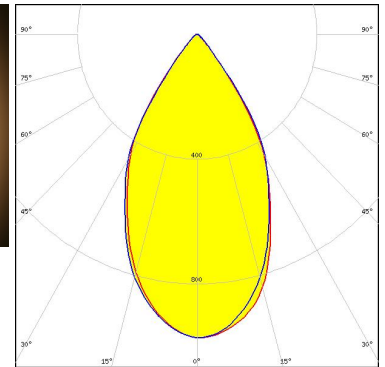
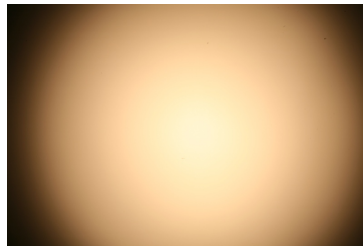
LED LUXEON CoB 1213/1216/1812  
 FWHM / FWTM 58.0° / 85.0°  
 Efficiency 84 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 A.A.G. STUCCHI: 8102-G2 + S-8000-12



Light distribution files



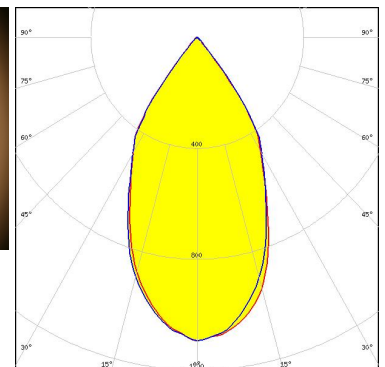
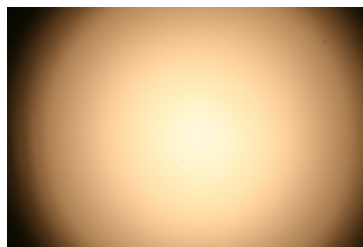
LED LUXEON K12  
 FWHM / FWTM 57.0° / 83.0°  
 Efficiency 83 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12924\_LENINA-STD-BASE-LUXEON-K  
 C12606\_LENINA-DL



Light distribution files



LED LUXEON K12  
 FWHM / FWTM 54.0° / 81.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12924\_LENINA-STD-BASE-LUXEON-K



Light distribution files

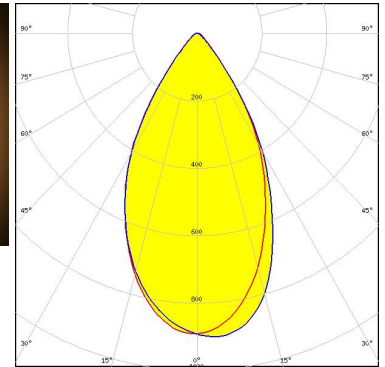
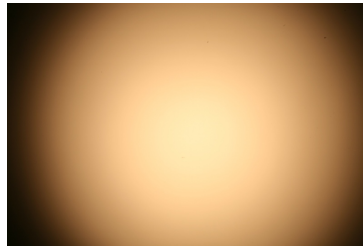
### OPTICAL RESULTS (MEASURED):



LED LUXEON K16  
 FWHM / FWTM 56.0° / 85.0°  
 Efficiency 79 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C12924\_LENINA-STD-BASE-LUXEON-K  
 C12606\_LENINA-DL



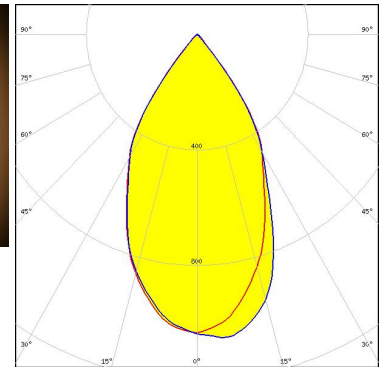
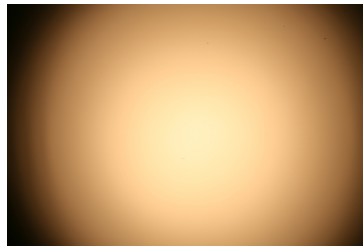
Light distribution files



LED LUXEON K16  
 FWHM / FWTM 55.0° / 81.0°  
 Efficiency 85 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C12924\_LENINA-STD-BASE-LUXEON-K



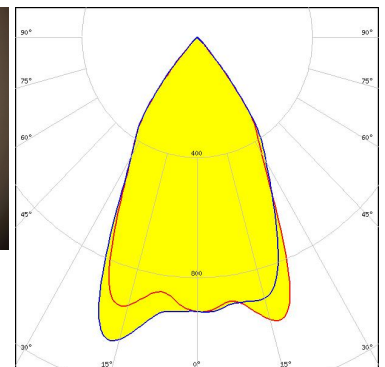
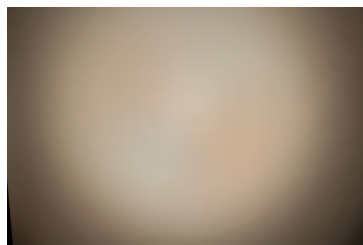
Light distribution files



LED CDM-14 (Dim-To-Warm)  
 FWHM / FWTM 58.0° / 83.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 491 Typ L2



Light distribution files



### OPTICAL RESULTS (MEASURED):



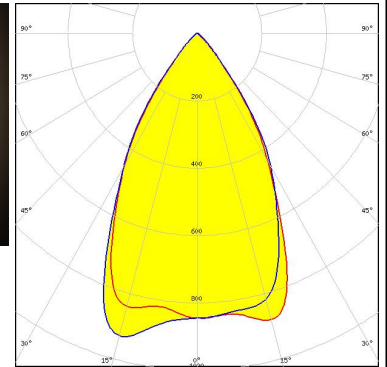
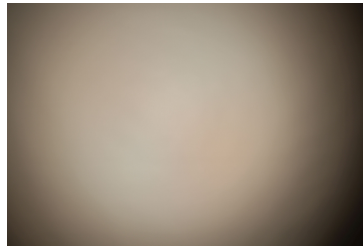
LED CDM-14 (Dim-To-Warm)  
FWHM / FWTM 60.0° / 85.0°  
Efficiency 86 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

C12606\_LENINA-DL

Bender Wirth: 491 Typ L2



Light distribution files

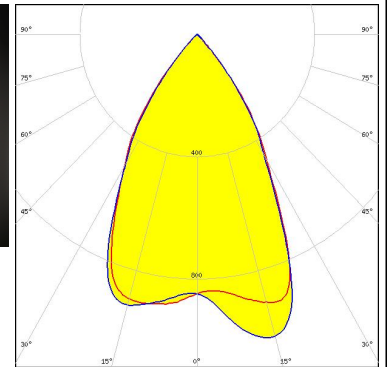


LED CDM-18 (Dim-To-Warm)  
FWHM / FWTM 64.0° / 85.0°  
Efficiency 91 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

Bender Wirth: 491 Typ L2



Light distribution files



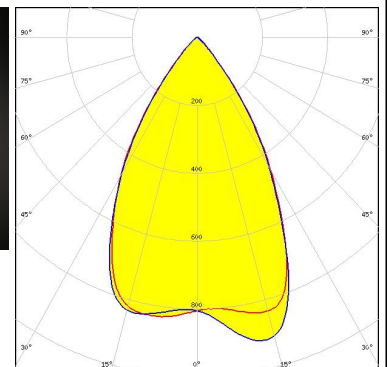
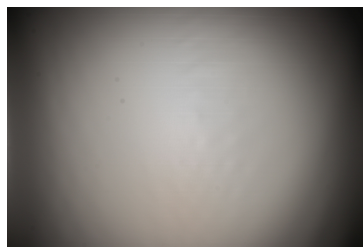
LED CDM-18 (Dim-To-Warm)  
FWHM / FWTM 62.0° / 86.0°  
Efficiency 86 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

C12606\_LENINA-DL

Bender Wirth: 491 Typ L2

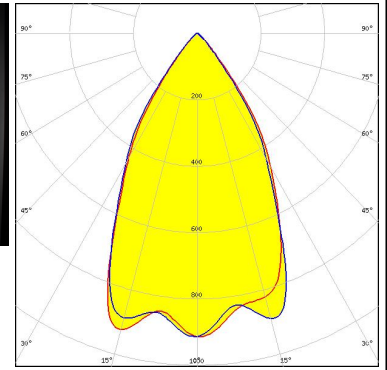


Light distribution files

### OPTICAL RESULTS (MEASURED):



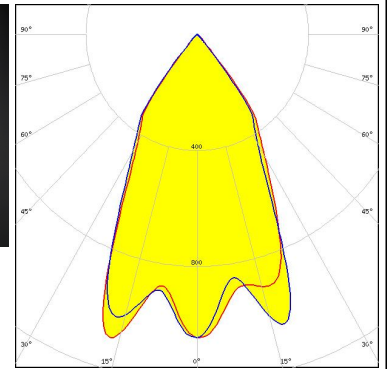
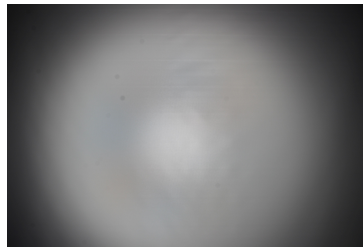
**LED** CDM-9 (Dim-To-Warm)  
**FWHM / FWTM** 59.0° / 83.0°  
**Efficiency** 86 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 490 Typ L1



Light distribution files



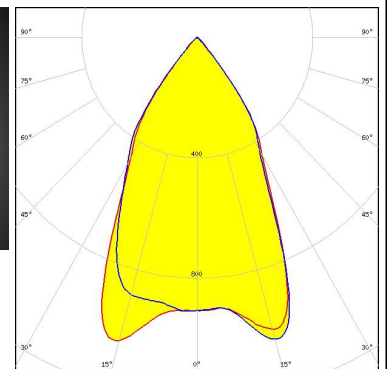
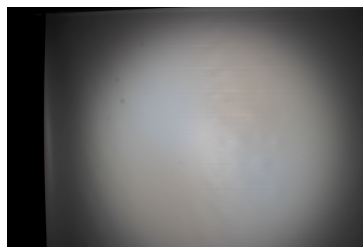
**LED** CDM-9 (Dim-To-Warm)  
**FWHM / FWTM** 55.0° / 81.0°  
**Efficiency** 90 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 490 Typ L1



Light distribution files



**LED** CTM-14 (Tunable White)  
**FWHM / FWTM** 58.0° / 83.0°  
**Efficiency** 91 %  
**Peak intensity** 1.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 442 Typ L3



Light distribution files

### OPTICAL RESULTS (MEASURED):



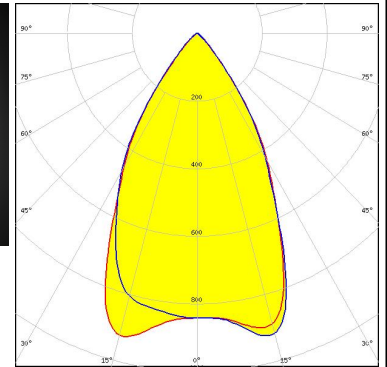
LED CTM-14 (Tunable White)  
FWHM / FWTM 60.0° / 85.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29

C12606\_LENINA-DL

Bender Wirth: 442 Typ L3



Light distribution files

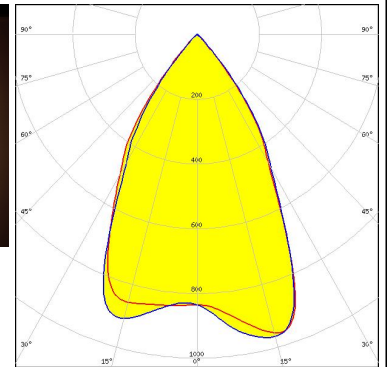


LED CTM-18 (Tunable White)  
FWHM / FWTM 32.0° / 76.0°  
Efficiency 92 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29

Bender Wirth: 442 Typ L3



Light distribution files



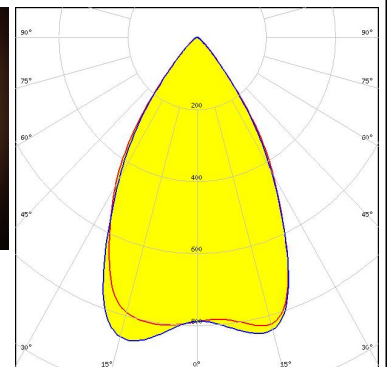
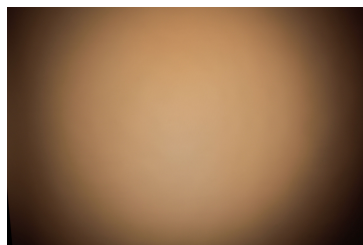
LED CTM-18 (Tunable White)  
FWHM / FWTM 63.0° / 87.0°  
Efficiency 85 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29

C12606\_LENINA-DL

Bender Wirth: 442 Typ L3

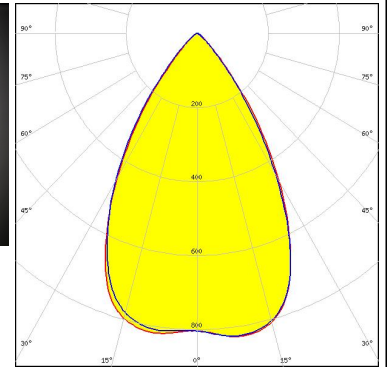


Light distribution files

### OPTICAL RESULTS (MEASURED):



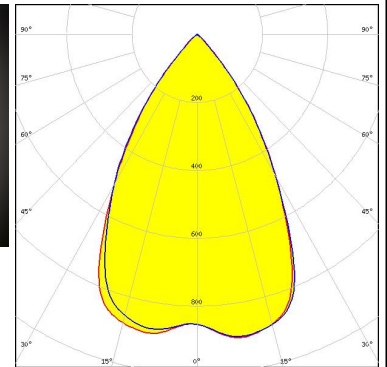
**LED** CTM-22 (Tunable White)  
**FWHM / FWTM** 63.0° / 89.0°  
**Efficiency** 85 %  
**Peak intensity** 0.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL  
 Bender Wirth: 494 Typ L3



Light distribution files



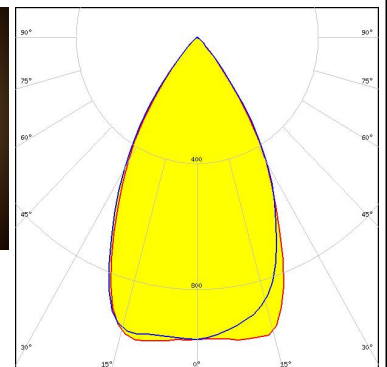
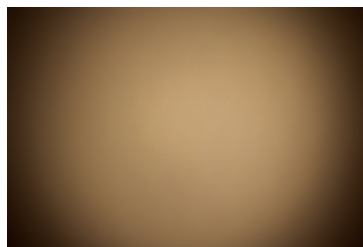
**LED** CTM-22 (Tunable White)  
**FWHM / FWTM** 63.0° / 87.0°  
**Efficiency** 90 %  
**Peak intensity** 0.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C13867\_LENINA-STD-BASE-VERO29  
 Bender Wirth: 494 Typ L3



Light distribution files



**LED** CxM-14 (19x19)  
**FWHM / FWTM** 59.0° / 84.0°  
**Efficiency** 88 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL

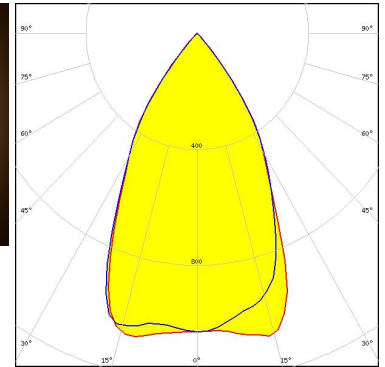
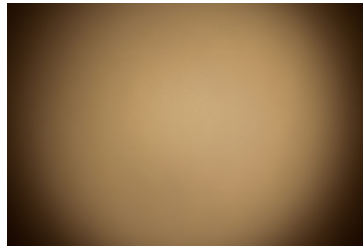


Light distribution files

### OPTICAL RESULTS (MEASURED):



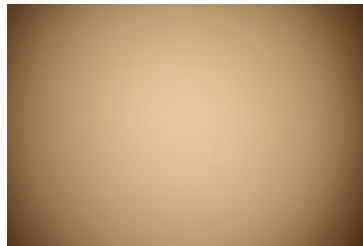
LED CxM-14 (19x19)  
FWHM / FWTM 58.0° / 82.0°  
Efficiency 92 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



Light distribution files



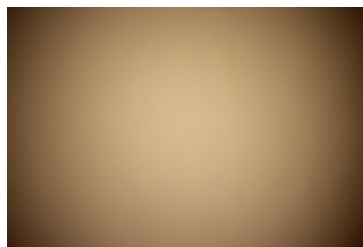
LED CxM-22 (28x28)  
FWHM / FWTM 58.0° / 86.0°  
Efficiency 92 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



Light distribution files



LED CxM-22 (28x28)  
FWHM / FWTM 58.0° / 86.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040  
C12606\_LENINA-DL

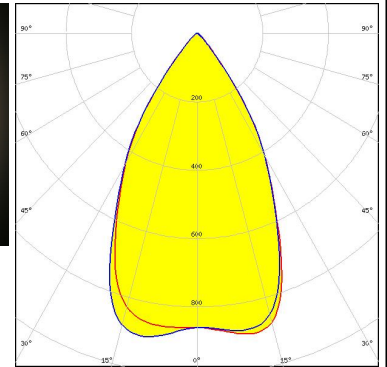


Light distribution files

### OPTICAL RESULTS (MEASURED):



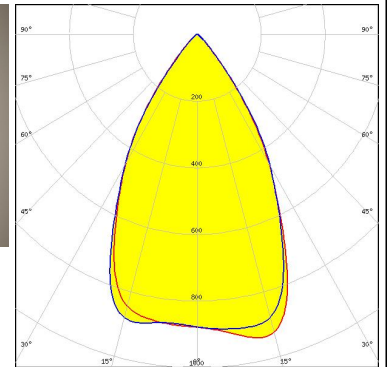
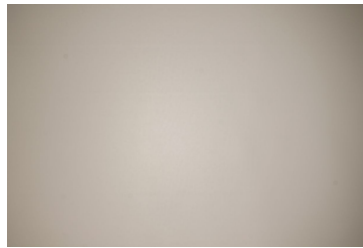
LED COB J-Type  
FWHM / FWTM 59.0° / 84.0°  
Efficiency 82 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENASTD-BASE-MEZ  
C12606\_LENINA-DL



Light distribution files



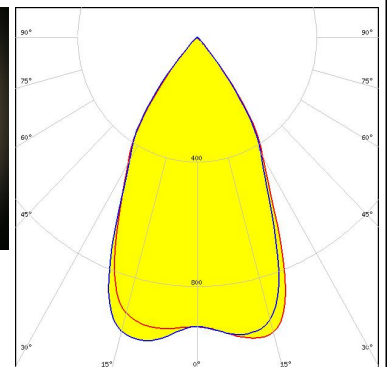
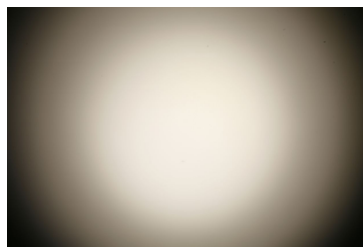
LED COB J-Type  
FWHM / FWTM 59.0° / 84.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13868\_LENASTD-BASE-VERO13-18  
C12606\_LENINA-DL  
Bender Wirth: 463 Typ L2



Light distribution files



LED COB J-Type  
FWHM / FWTM 58.0° / 82.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENASTD-BASE-MEZ

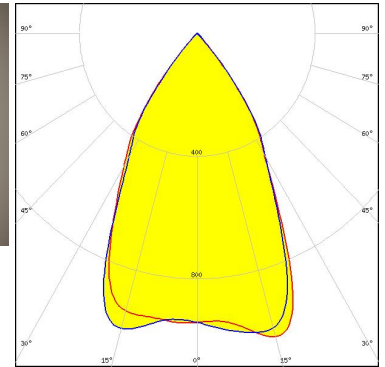
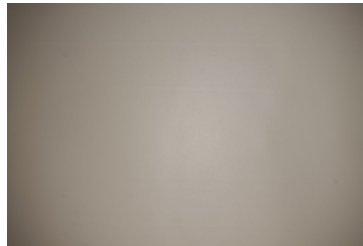


Light distribution files

### OPTICAL RESULTS (MEASURED):



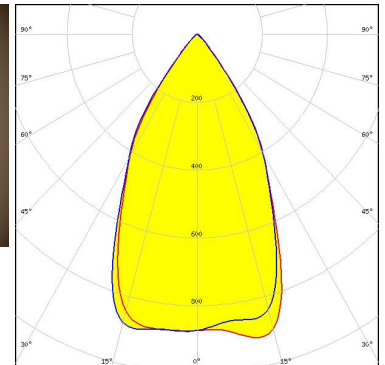
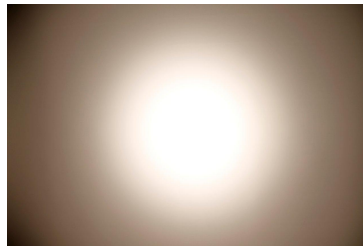
LED COB J-Type  
FWHM / FWTM 59.0° / 83.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 463 Typ L2



Light distribution files



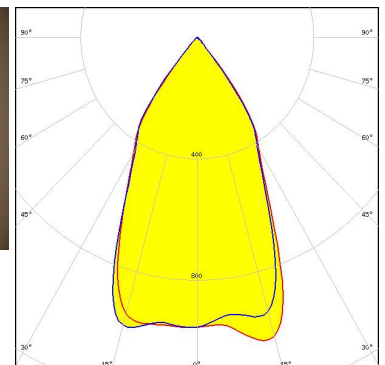
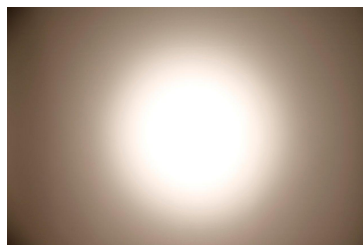
LED COB L-Type (LES 11)  
FWHM / FWTM 58.0° / 82.0°  
Efficiency 80 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C11981\_LENINA-STD-BASE-COB-L110  
C12606\_LENINA-DL



Light distribution files



LED COB L-Type (LES 11)  
FWHM / FWTM 56.0° / 81.0°  
Efficiency 85 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C11981\_LENINA-STD-BASE-COB-L110

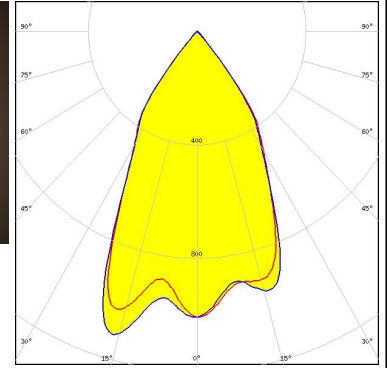


Light distribution files

### OPTICAL RESULTS (MEASURED):



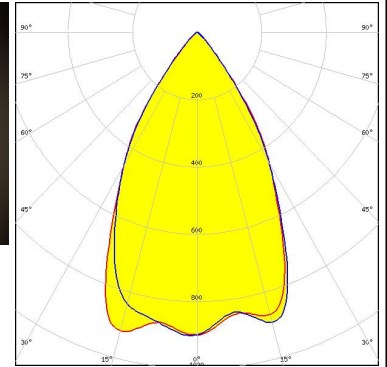
LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM / FWTM 56.0° / 81.0°  
 Efficiency 91 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 498 Typ L2



Light distribution files



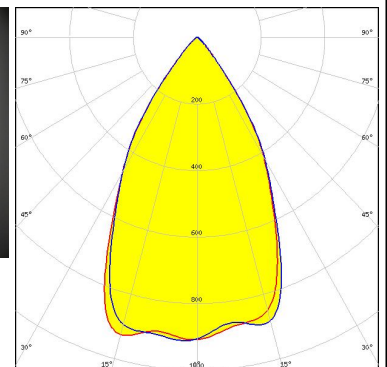
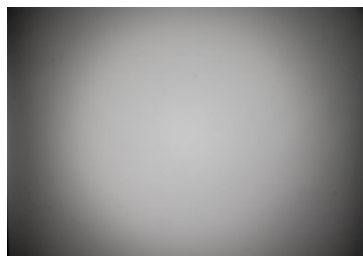
LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM / FWTM 60.0° / 84.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 498 Typ L2



Light distribution files



LED Soleriq S13  
 FWHM / FWTM 59.0° / 83.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 437 Typ L1



Light distribution files



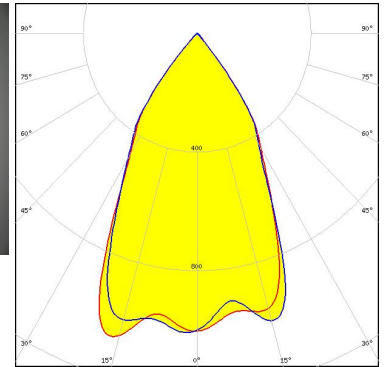
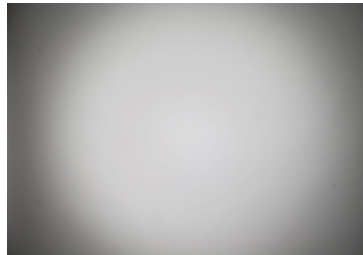
### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED Soleriq S13  
FWHM / FWTM 56.0° / 81.0°  
Efficiency 90 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18  
Bender Wirth: 437 Typ L1



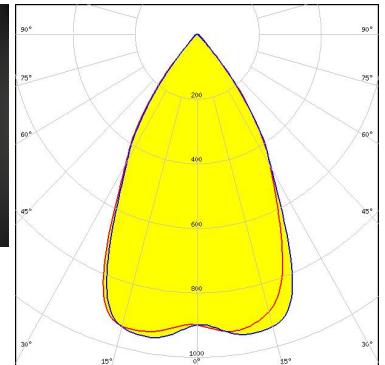
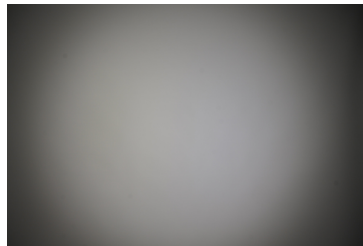
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 60.0° / 84.0°  
Efficiency 92 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29  
Bender Wirth: 462 Typ L3



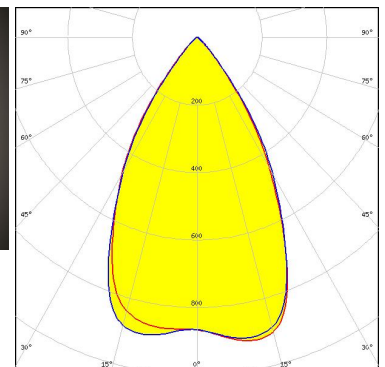
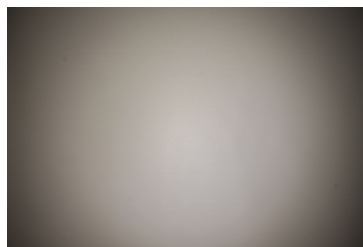
Light distribution files

**OSRAM**  
Opto Semiconductors

LED Soleriq S19  
FWHM / FWTM 60.0° / 85.0°  
Efficiency 87 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29  
C12606\_LENINA-DL  
Bender Wirth: 462 Typ L3

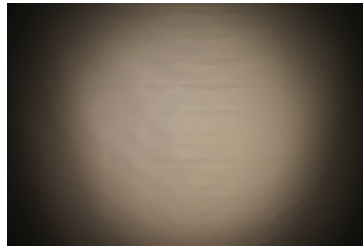


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

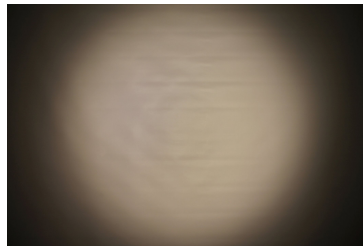
LED Fortimo SLM L13 CoB  
FWHM / FWTM 57.0° / 83.0°  
Efficiency 85 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



Light distribution files

#### PHILIPS

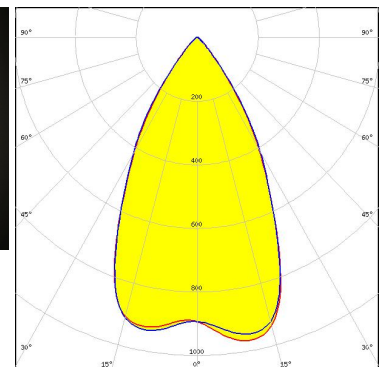
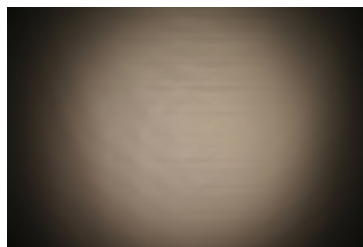
LED Fortimo SLM L13 CoB  
FWHM / FWTM 57.0° / 81.0°  
Efficiency 92 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ



Light distribution files

#### PHILIPS

LED Fortimo SLM L15 CoB  
FWHM / FWTM 56.0° / 83.0°  
Efficiency 85 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL

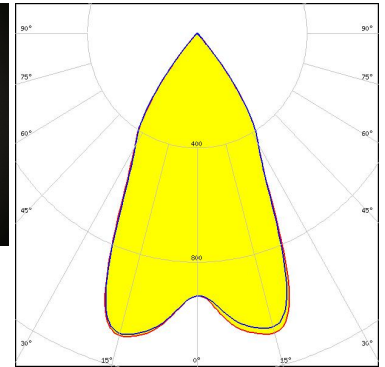


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

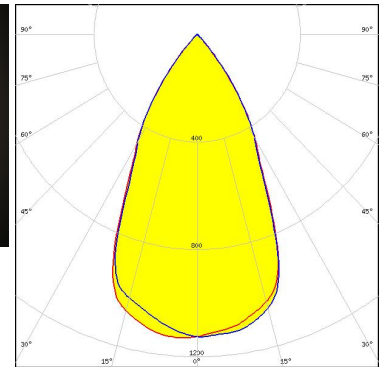
LED Fortimo SLM L15 CoB  
FWHM / FWTM 59.0° / 82.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ



Light distribution files

#### PHILIPS

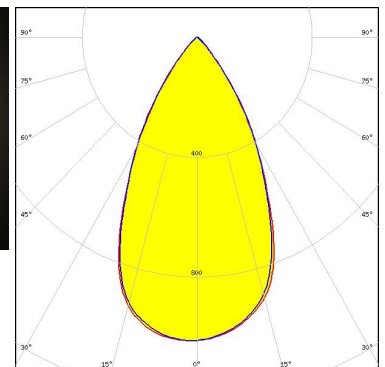
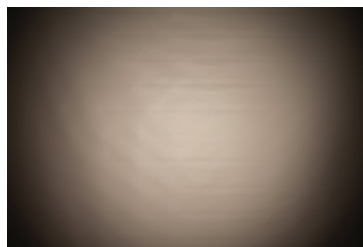
LED Fortimo SLM L19 CoB  
FWHM / FWTM 53.0° / 81.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



Light distribution files

#### PHILIPS

LED Fortimo SLM L19 CoB  
FWHM / FWTM 54.0° / 83.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040  
C12606\_LENINA-DL

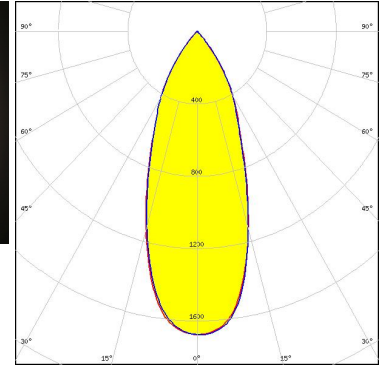


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

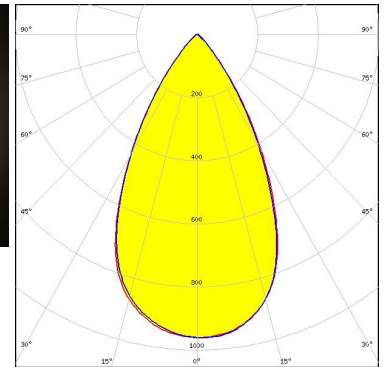
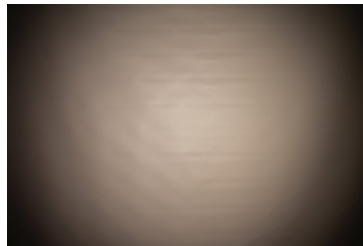
LED Fortimo SLM L23 CoB  
 FWHM / FWTM 39.0° / 76.0°  
 Efficiency 92 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12692\_LENINA-STD-BASE-CLL040



Light distribution files

#### PHILIPS

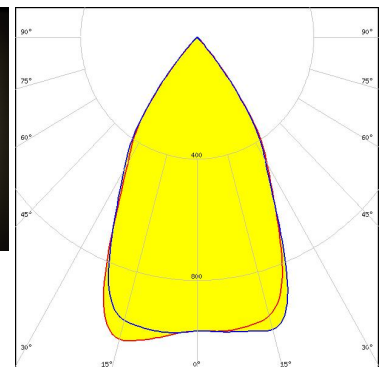
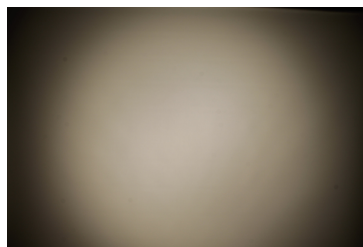
LED Fortimo SLM L23 CoB  
 FWHM / FWTM 57.0° / 84.0°  
 Efficiency 85 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12292\_LENINA-STD-BASE-MEZ  
 C12606\_LENINA-DL



Light distribution files

#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 57.0° / 82.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030

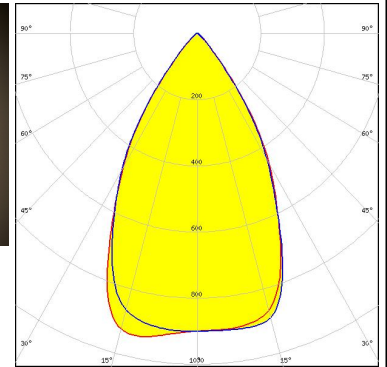


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

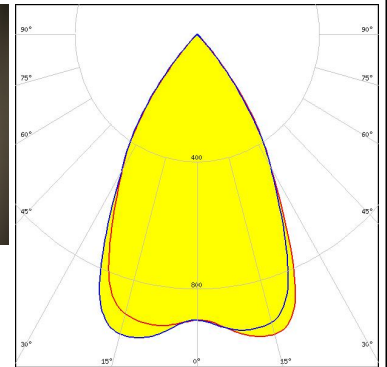
LED LC016D / LC019D / LC026D / LC033D  
 FWHM / FWTM 59.0° / 84.0°  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C12691\_LENINA-STD-BASE-CLL030  
 C12606\_LENINA-DL



Light distribution files

#### SAMSUNG

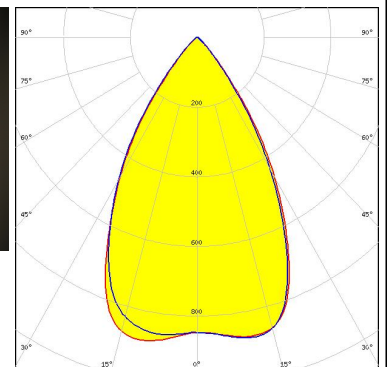
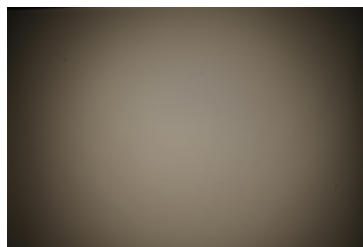
LED LC026B / 033B / 040B  
 FWHM / FWTM 61.0° / 84.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 Bender Wirth: 450 Typ L2



Light distribution files

#### SAMSUNG

LED LC026B / 033B / 040B  
 FWHM / FWTM 61.0° / 85.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C13868\_LENINA-STD-BASE-VERO13-18  
 C12606\_LENINA-DL  
 Bender Wirth: 450 Typ L2

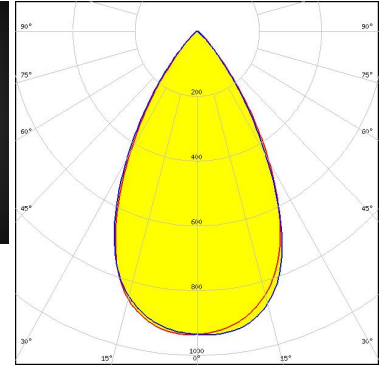
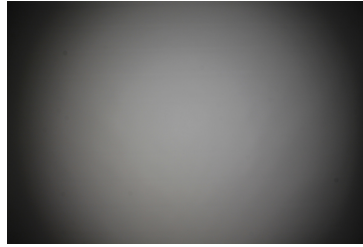


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

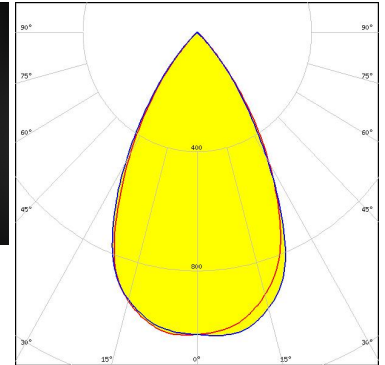
LED LC040D / LC060D / LC080D  
FWHM / FWTM 59.0° / 85.0°  
Efficiency 86 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040  
C12606\_LENINA-DL



Light distribution files

#### SAMSUNG

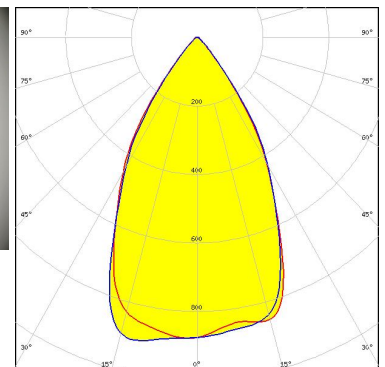
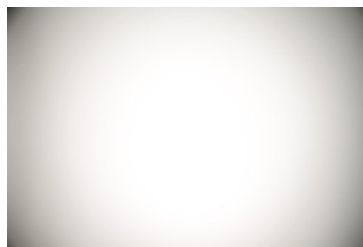
LED LC040D / LC060D / LC080D  
FWHM / FWTM 59.0° / 84.0°  
Efficiency 91 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12692\_LENINA-STD-BASE-CLL040



Light distribution files

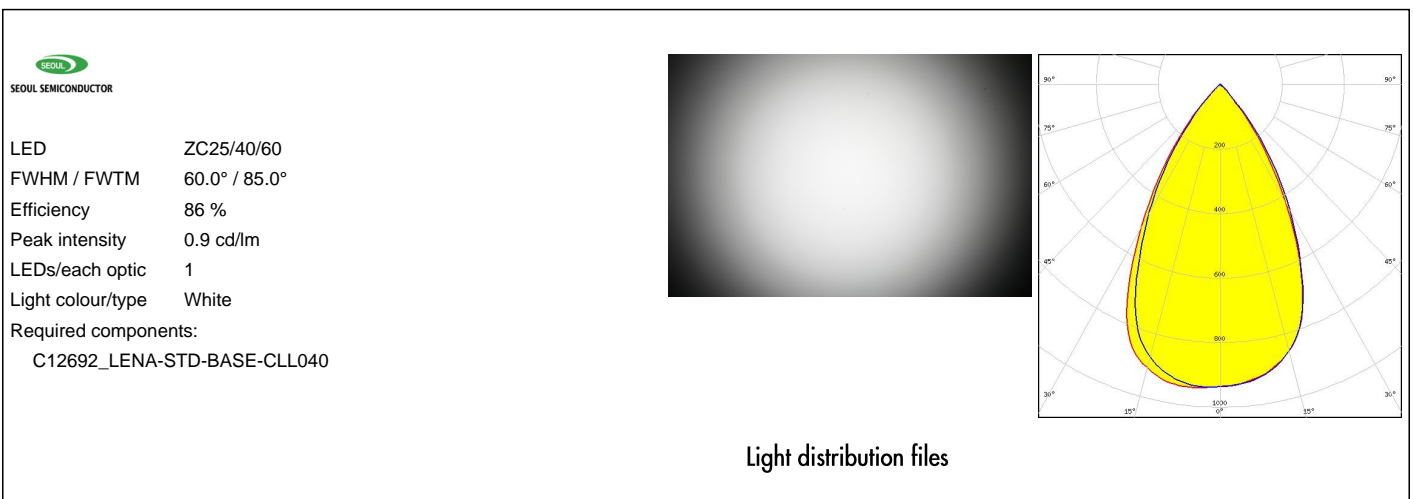
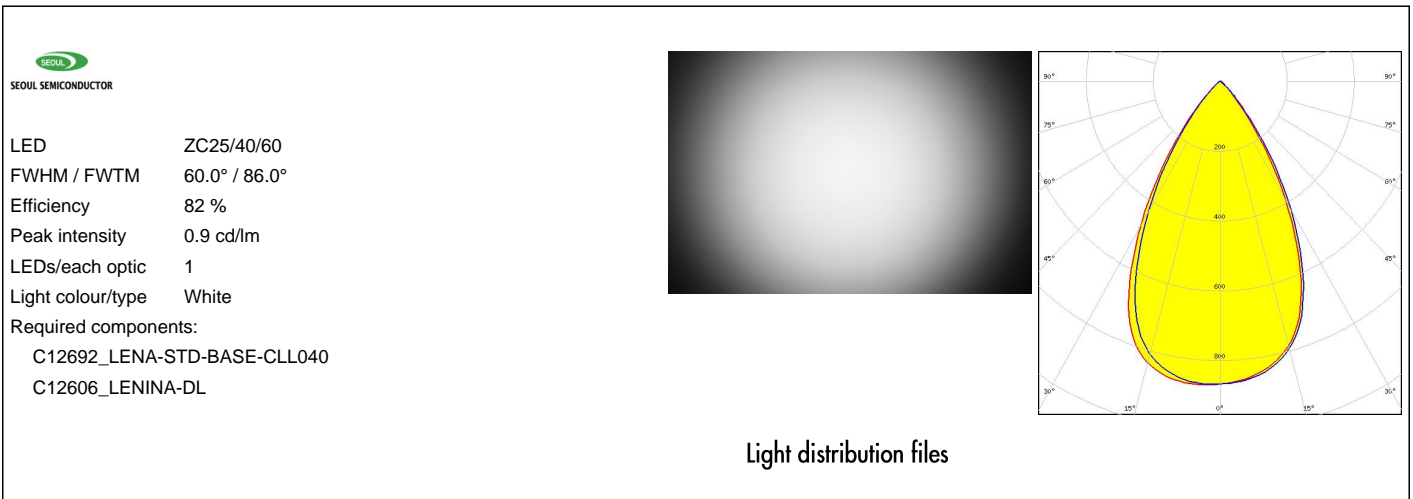
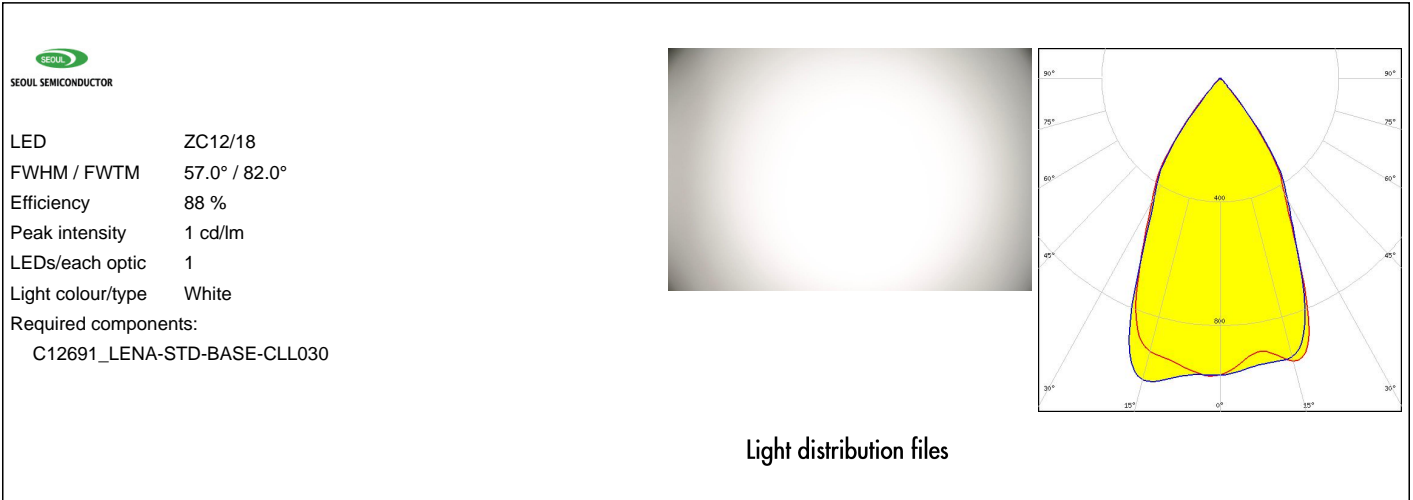


LED ZC12/18  
FWHM / FWTM 59.0° / 84.0°  
Efficiency 84 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030  
C12606\_LENINA-DL



Light distribution files

### OPTICAL RESULTS (MEASURED):



### OPTICAL RESULTS (MEASURED):

## SHARP

LED Mega Zenigata (GW5DGC)  
FWHM / FWTM 45.0° / 80.0°  
Efficiency 78 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL

Light distribution files

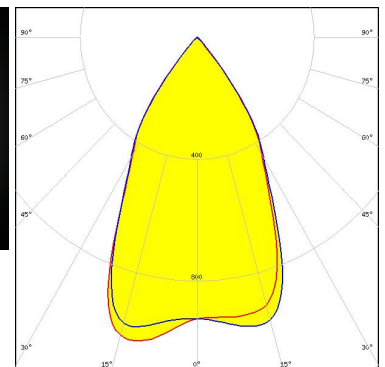
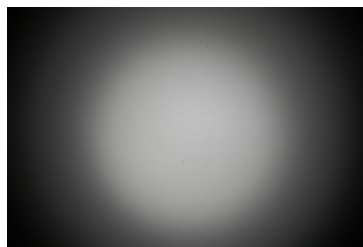
## SHARP

LED Mega Zenigata (GW5DGC)  
FWHM / FWTM 41.0° / 77.0°  
Efficiency 86 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ

Light distribution files

## SHARP

LED Mega Zenigata (GW6DME)  
FWHM / FWTM 57.0° / 82.0°  
Efficiency 87 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ



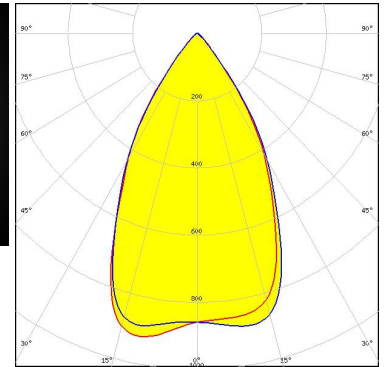
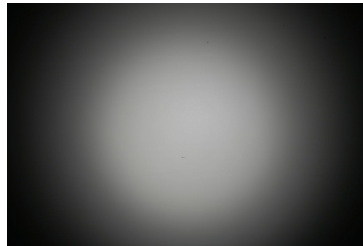
Light distribution files



### OPTICAL RESULTS (MEASURED):

## SHARP

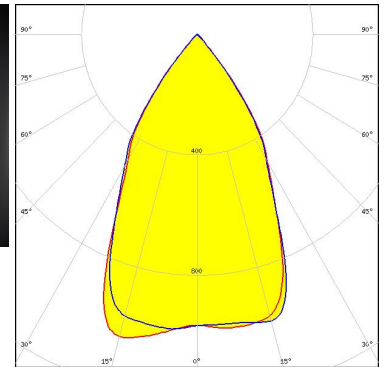
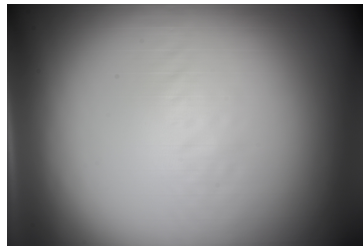
LED Mega Zenigata (GW6DME)  
FWHM / FWTM 59.0° / 83.0°  
Efficiency 83 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12292\_LENINA-STD-BASE-MEZ  
C12606\_LENINA-DL



Light distribution files

## TRIDONIC

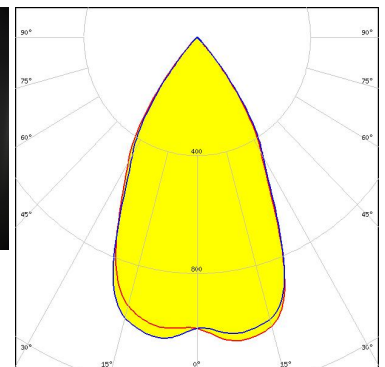
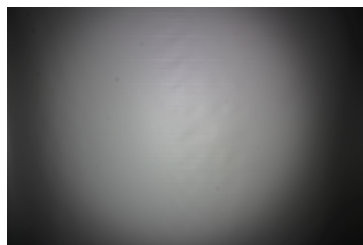
LED SLE G7 LES15  
FWHM / FWTM 59.0° / 82.0°  
Efficiency 92 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENINA-STD-BASE-CLL030



Light distribution files

## TRIDONIC

LED SLE G7 LES17 H  
FWHM / FWTM 56.0° / 82.0°  
Efficiency 90 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C14547\_LENINA-ADAPTER-B

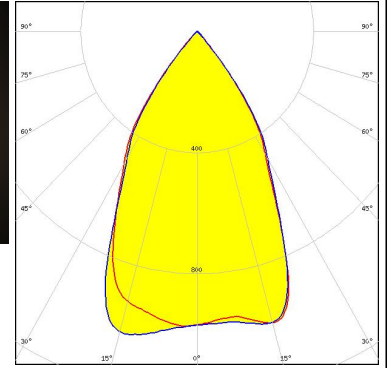
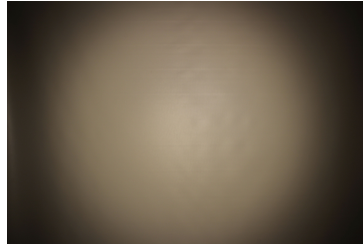


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### XICATO

LED XOB 14.5 mm  
FWHM / FWTM 58.0° / 82.0°  
Efficiency 91 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C12691\_LENA-STD-BASE-CLL030



Light distribution files

### OPTICAL RESULTS (SIMULATED):

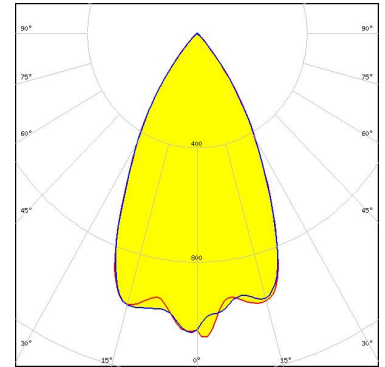
bridgelux

LED V10 Gen7  
FWHM / FWTM 55.0° / 81.0°  
Efficiency 85 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL

Bender Wirth: 486 Typ L1



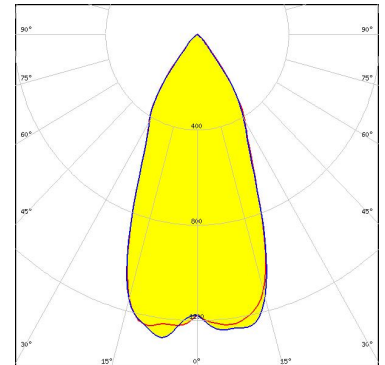
Light distribution files

bridgelux

LED V13 Gen7  
FWHM / FWTM 46.0° / 79.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

IDEAL: 50-2103CT + 50-2100AN



Light distribution files

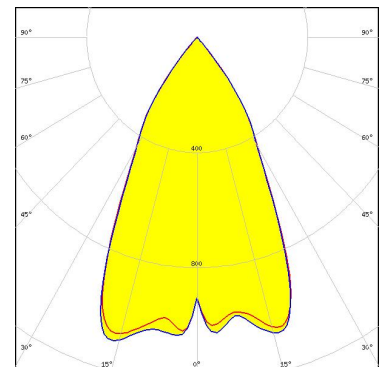
bridgelux

LED V13 Gen7  
FWHM / FWTM 50.0° / 79.0°  
Efficiency 90 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

Bender Wirth: 477 Typ L1



Light distribution files

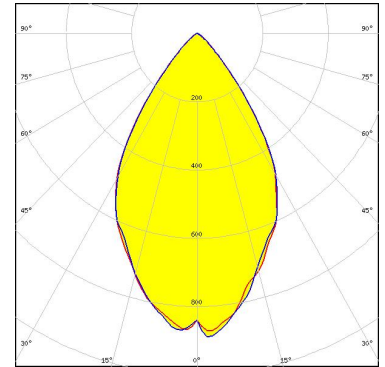
### OPTICAL RESULTS (SIMULATED):

bridgelux

LED V13 Gen7  
FWHM / FWTM 63.0° / 91.0°  
Efficiency 87 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18  
C12606\_LENINA-DL



Light distribution files

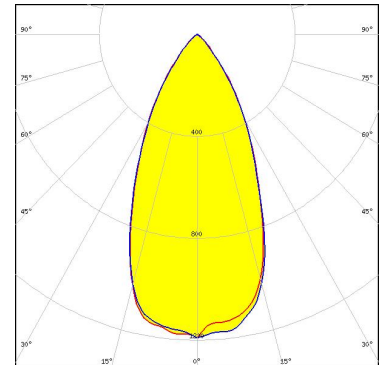
Bender Wirth: 477 Typ L1

bridgelux

LED V13 Gen7  
FWHM / FWTM 48.0° / 82.0°  
Efficiency 88 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12606\_LENINA-DL



Light distribution files

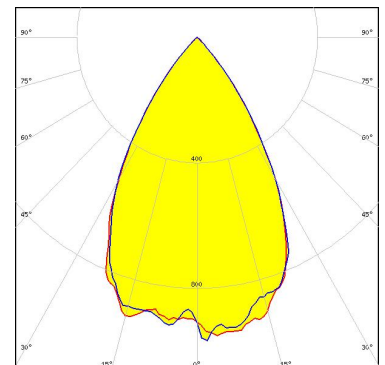
IDEAL: 50-2103CT + 50-2100AN

bridgelux

LED V22 Gen7  
FWHM / FWTM 61.0° / 84.0°  
Efficiency 90 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29



Light distribution files

Bender Wirth: 431 Typ L3

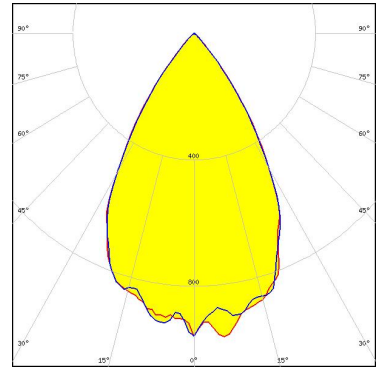
### OPTICAL RESULTS (SIMULATED):



LED V22 Gen7  
 FWHM / FWTM 61.0° / 82.0°  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C13867\_LENINA-STD-BASE-VERO29  
 C12606\_LENINA-DL



Light distribution files

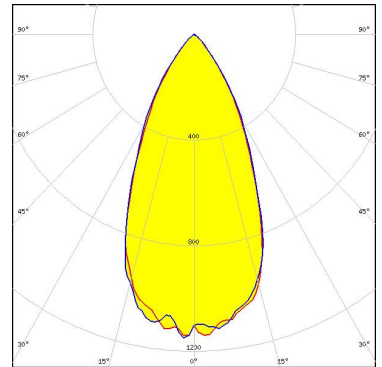
Bender Wirth: 431 Typ L3



LED CXA/B 30xx  
 FWHM / FWTM 49.0° / 81.0°  
 Efficiency 84 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

C12606\_LENINA-DL



Light distribution files

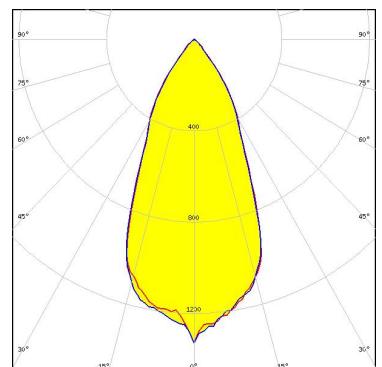
IDEAL: 50-2234C + 50-2100LN



LED CXA/B 30xx  
 FWHM / FWTM 46.0° / 80.0°  
 Efficiency 89 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White

Required components:

IDEAL: 50-2234C + 50-2100LN



Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED CxM-14 (19x19)  
FWHM / FWTM 60.0° / 83.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENA-STD-BASE-VERO13-18  
C12606\_LENINA-DL

[Light distribution files](#)

Bender Wirth: 433 Typ L1



LED CxM-14 (19x19)  
FWHM / FWTM 57.0° / 82.0°  
Efficiency 90 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENA-STD-BASE-VERO13-18

[Light distribution files](#)

Bender Wirth: 433 Typ L1



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 57.0° / 82.0°  
Efficiency 86 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENA-STD-BASE-VERO13-18  
C12606\_LENINA-DL

[Light distribution files](#)

Bender Wirth: 434 Typ L1

### OPTICAL RESULTS (SIMULATED):



LED CxM-9 (13.5x13.5)  
FWHM / FWTM 54.0° / 80.0°  
Efficiency 90 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C13868\_LENINA-STD-BASE-VERO13-18

Light distribution files

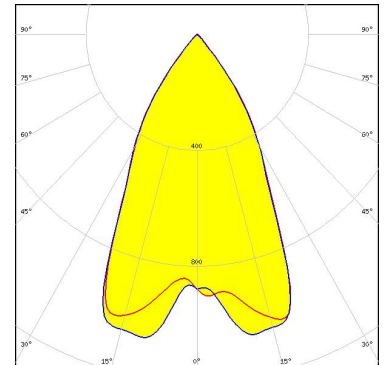


Opto Semiconductors

LED Soleriq S15  
FWHM / FWTM 56.0° / 81.0°  
Efficiency 90 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White

Required components:

C12691\_LENINA-STD-BASE-CLL030



Light distribution files



SEOUL SEMICONDUCTOR


LED ZC12/18  
FWHM / FWTM 57.0° / 82.0°  
Efficiency 90 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour/type White


Required components:

C13868\_LENINA-STD-BASE-VERO13-18

Bender Wirth: 433 Typ L1

### OPTICAL RESULTS (SIMULATED):

 SEOL SEMICONDUCTOR	
LED	ZC12/18
FWHM / FWTM	60.0° / 83.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
C12606_LENINA-DL	
Bender Wirth: 433 Typ L1	

 SEOL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	54.0° / 80.0°
Efficiency	90 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
Bender Wirth: 434 Typ L1	

 SEOL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	57.0° / 82.0°
Efficiency	86 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C13868_LENA-STD-BASE-VERO13-18	
C12606_LENINA-DL	
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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P.R.CHINA

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[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Poznan, Poland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)