

## AMY-110-W

~36° wide beam

### SPECIFICATION:

|                |         |
|----------------|---------|
| Dimensions     | Ø 109.7 |
| Height         | 17.3 mm |
| Fastening      | socket  |
| ROHS compliant | yes ⓘ   |

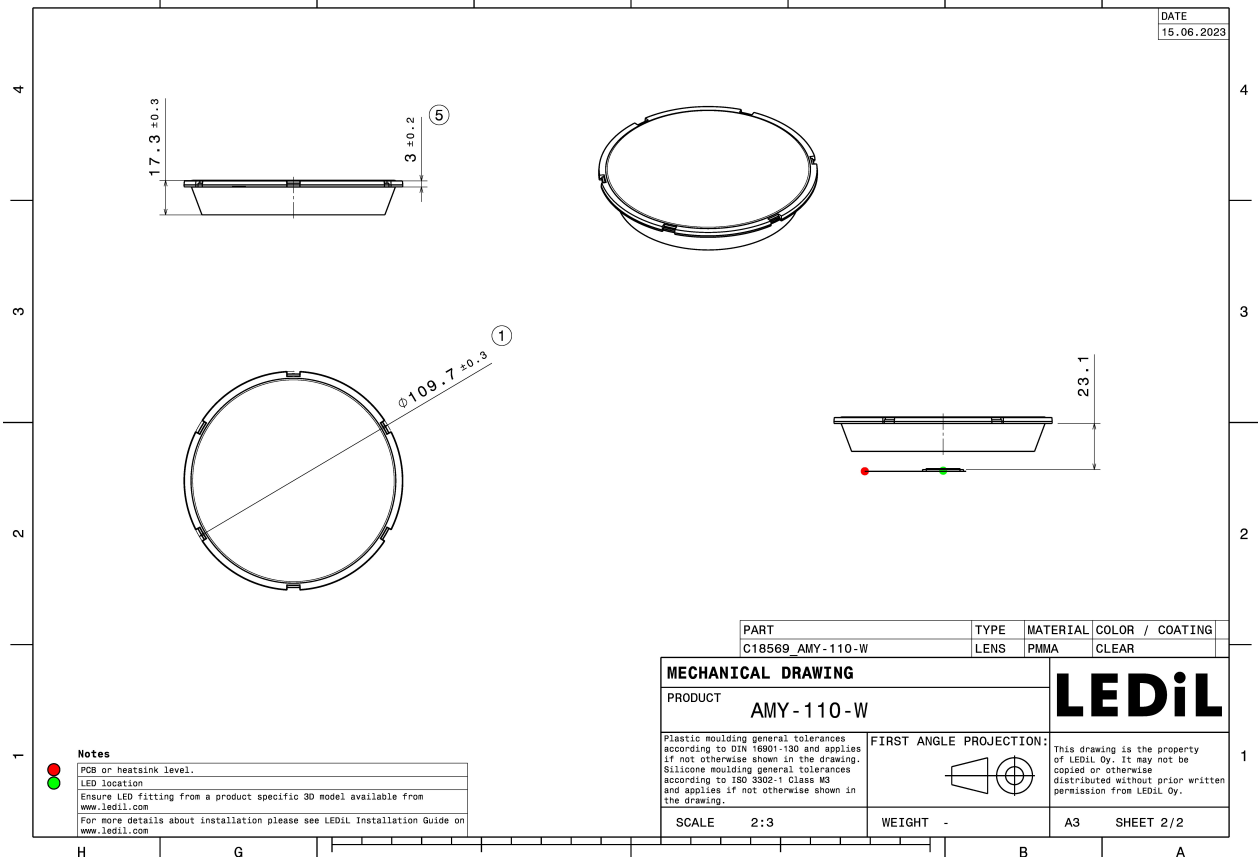
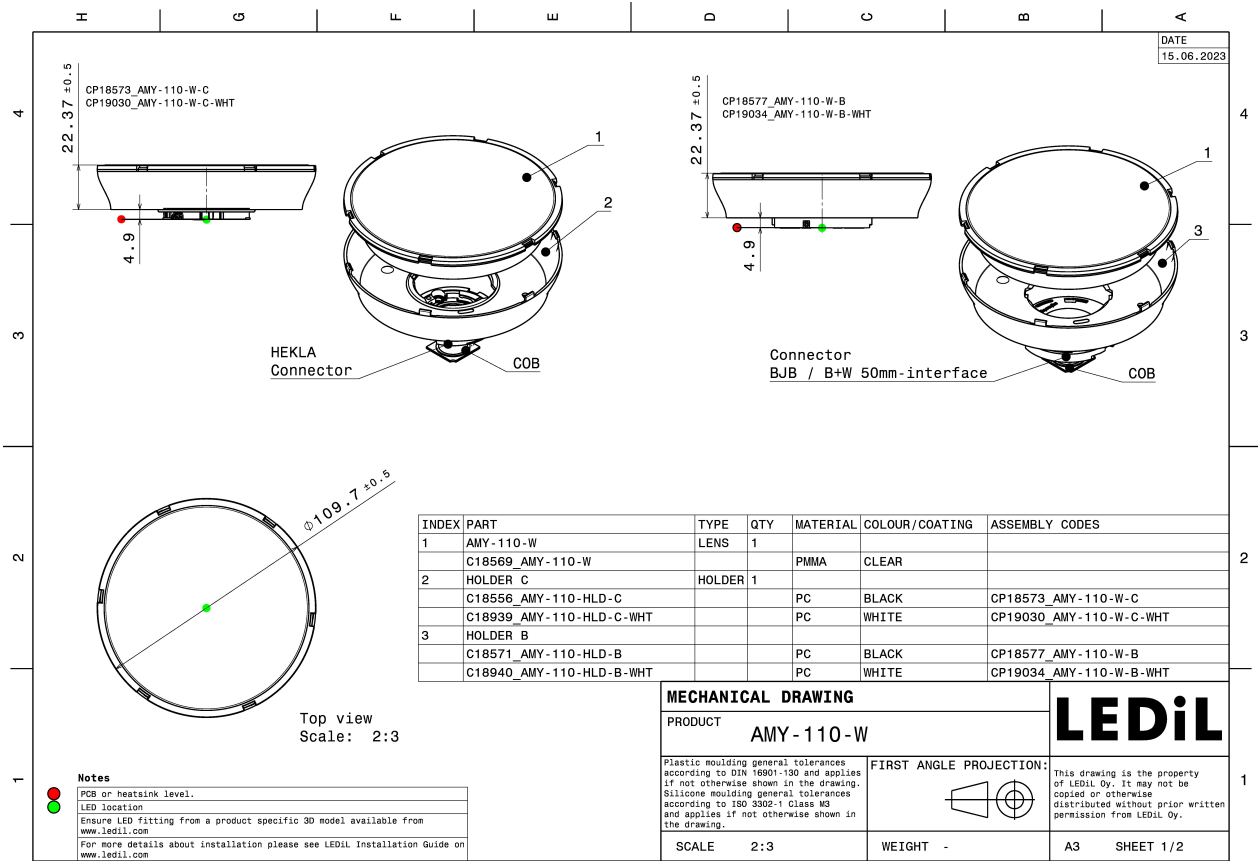
### MATERIALS:

| Component         | Type        | Material | Colour | Finish | Length |
|-------------------|-------------|----------|--------|--------|--------|
| AMY-110-W         | Single lens | PMMA     | clear  |        | 109.7  |
| AMY-110-HLD-C     | Holder C    | PC       | black  |        |        |
| AMY-110-HLD-B     | Holder B    | PC       | black  |        |        |
| AMY-110-HLD-C-WHT | Holder C    | PC       | white  |        |        |
| AMY-110-HLD-B-WHT | Holder B    | PC       | white  |        |        |



### ORDERING INFORMATION:

| Component               | Qty in box | MOQ | MPQ | Box weight (kg) |
|-------------------------|------------|-----|-----|-----------------|
| C18569_AMY-110-W        | 128        | 128 | 8   | 11.3            |
| <b>Assembly</b>         |            |     |     |                 |
| CP19034_AMY-110-W-B-WHT | 77         | 77  | 7   | 8.4             |
| CP19030_AMY-110-W-C-WHT | 77         | 77  | 7   | 0.0             |
| CP18577_AMY-110-W-B     | 77         | 77  | 7   | 8.3             |
| CP18573_AMY-110-W-C     | 77         | 77  | 7   | 8.6             |

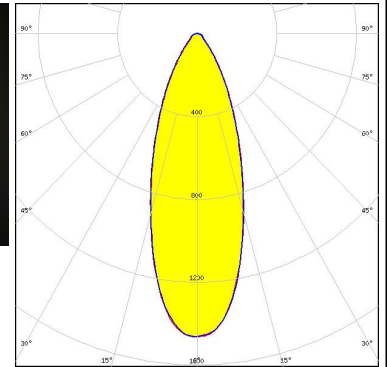
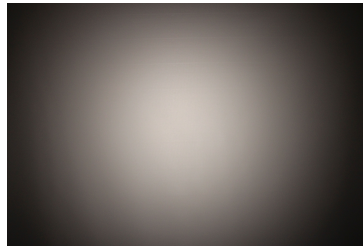


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

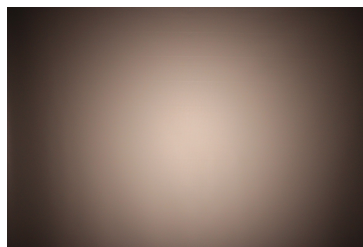
#### CITIZEN

LED LCN-C07A  
Ordering code C18569\_AMY-110-W  
FWHM / FWTM 37.0° / 76.0°  
Efficiency 86 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



#### CITIZEN

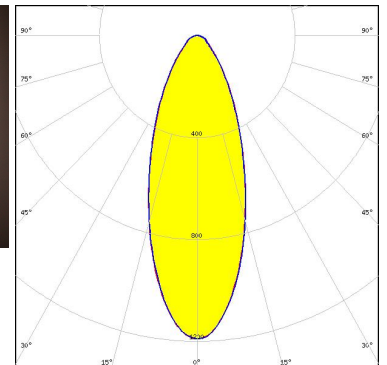
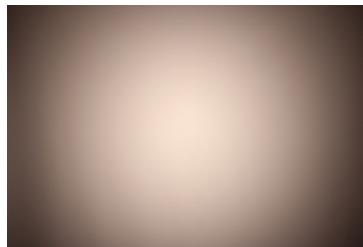
LED LCN-C08A  
Ordering code C18569\_AMY-110-W  
FWHM / FWTM 38.0° / 84.0°  
Efficiency 85 %  
LEDs/each optic 1  
Light colour/type White  
Required components:





## CITIZEN

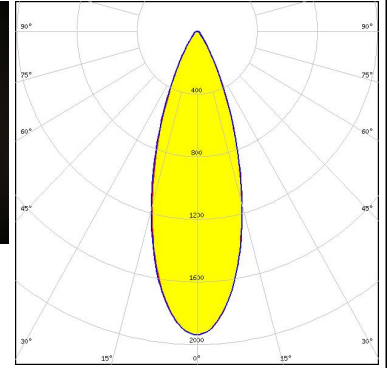
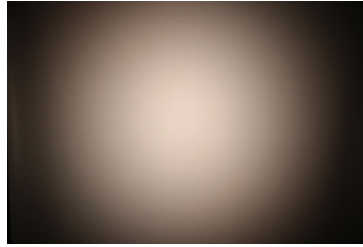
LED LCN-C09A  
Ordering code C18569\_AMY-110-W  
FWHM / FWTM 38.0° / 86.0°  
Efficiency 84 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



### OPTICAL RESULTS (MEASURED):



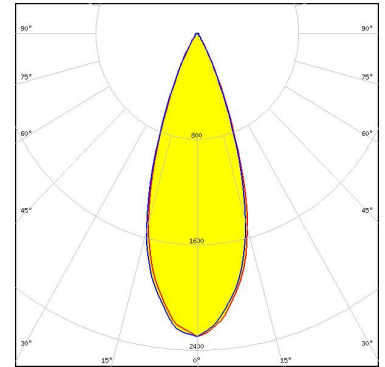
LED CTM-14 (Tunable White) Gen2  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 35.0° / 63.5°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 442 Typ L8



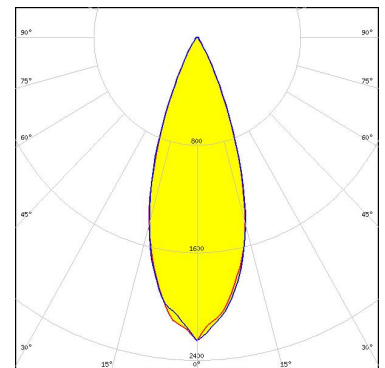
### OPTICAL RESULTS (SIMULATED):



LED V10 Gen 8-9  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 36.0° / 58.0°  
Efficiency 92 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



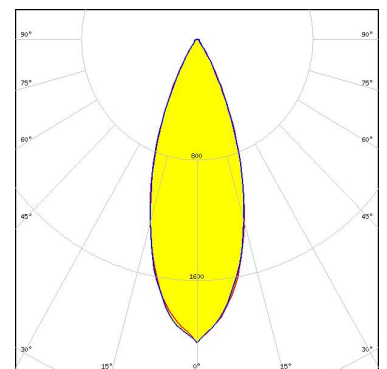
LED V11 HD Gen 8  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 36.0° / 59.0°  
Efficiency 92 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I





|                   |                     |
|-------------------|---------------------|
| LED               | V13 Gen 8-9         |
| Ordering code     | CP18573_AMY-110-W-C |
| FWHM / FWTM       | 36.0° / 63.0°       |
| Efficiency        | 90 %                |
| Peak intensity    | 2 cd/lm             |
| LEDs/each optic   | 1                   |
| Light colour/type | White               |

Required components:  
F15859\_HEKLA-SOCKET-I

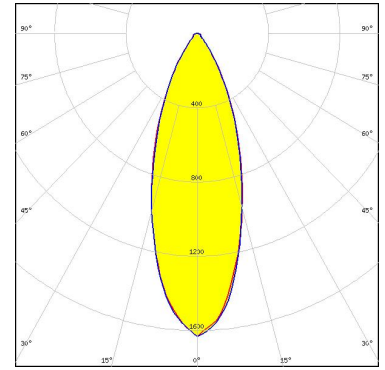




### OPTICAL RESULTS (SIMULATED):



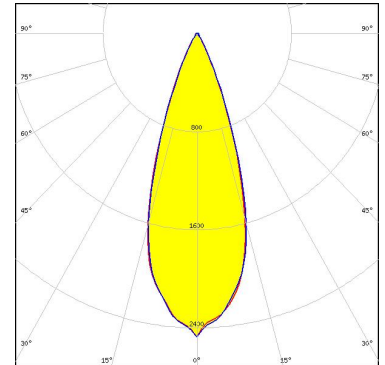
LED V18 Gen 8-9  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 36.0° / 71.0°  
Efficiency 84 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K



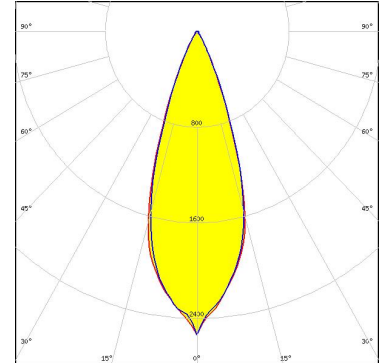
Bender Wirth: 462 Typ L8



LED V8 Gen 8-9  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 36.0° / 55.0°  
Efficiency 92 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A



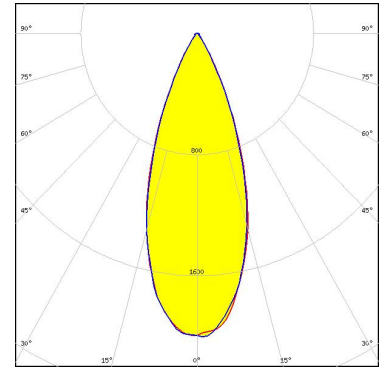
LED V9 HD Gen 8  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 36.0° / 55.0°  
Efficiency 92 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



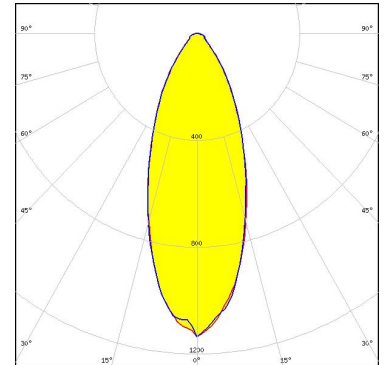
### OPTICAL RESULTS (SIMULATED):



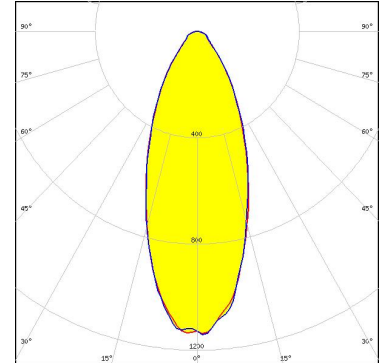
LED Vero SE 10  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 38.0° / 62.0°  
Efficiency 92 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K



LED Vero SE 29  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 40.0° / 83.0°  
Efficiency 77 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



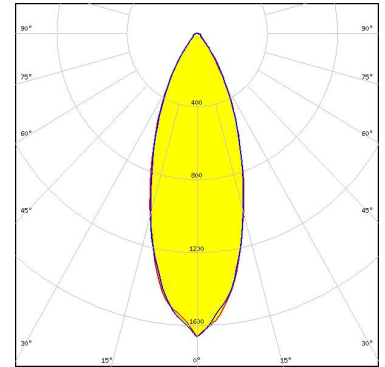
LED Vero SE 29  
Ordering code CP19030\_AMY-110-W-C-WHT  
FWHM / FWTM 40.0° / 86.0°  
Efficiency 85 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



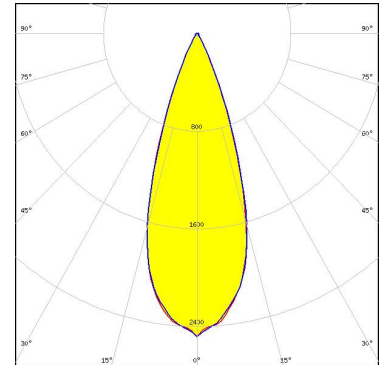
### OPTICAL RESULTS (SIMULATED):



**LED** VERO18  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 37.0° / 73.0°  
**Efficiency** 89 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



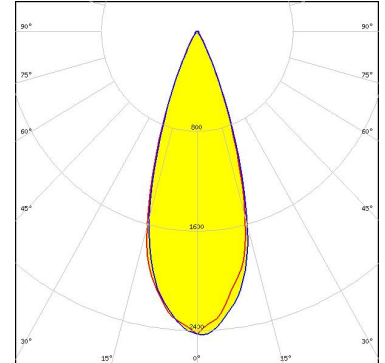
**LED** Vesta DTW 13mm (21W)  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 36.0° / 54.0°  
**Efficiency** 93 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Bender Wirth: 632b Hekla XL



**LED** Vesta DTW 9mm (4W/6W/12W)  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 36.0° / 55.0°  
**Efficiency** 93 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

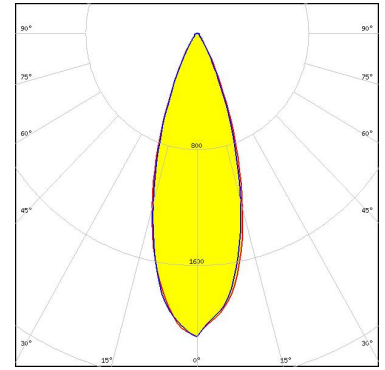


Bender Wirth: 652b Hekla

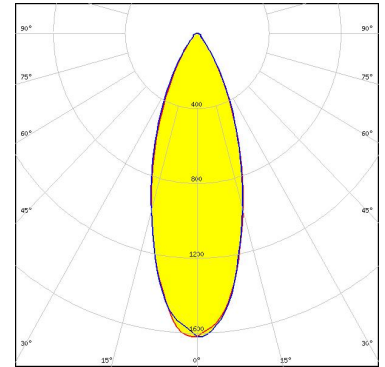
### OPTICAL RESULTS (SIMULATED):



**LED** Vesta SE 13mm TW  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 34.0° / 60.0°  
**Efficiency** 86 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



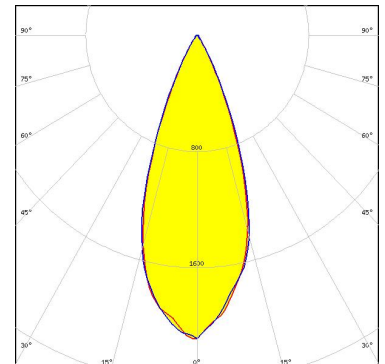
**LED** Vesta TW 18mm (31W) DP  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 36.0° / 71.0°  
**Efficiency** 84 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



Bender Wirth: 483 Typ L8



**LED** Vesta TW 9mm (9W) DP  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 39.0° / 60.0°  
**Efficiency** 93 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K

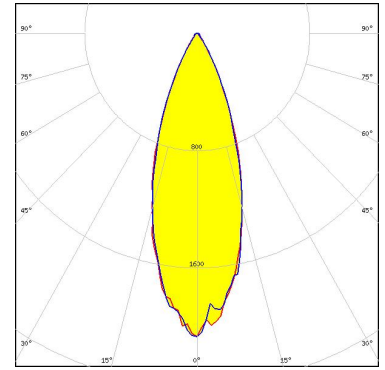


Bender Wirth: 489 Typ L8

### OPTICAL RESULTS (SIMULATED):

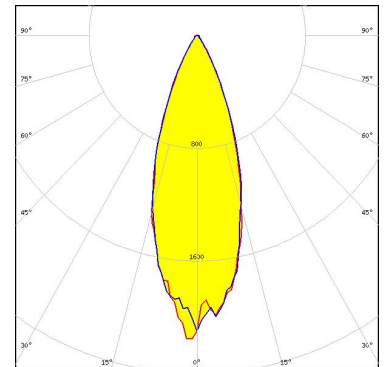
#### CITIZEN

LED CLL03x/CLU03x  
Ordering code C18569\_AMY-110-W  
FWHM / FWTM 35.0° / 62.0°  
Efficiency 90 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



#### CITIZEN

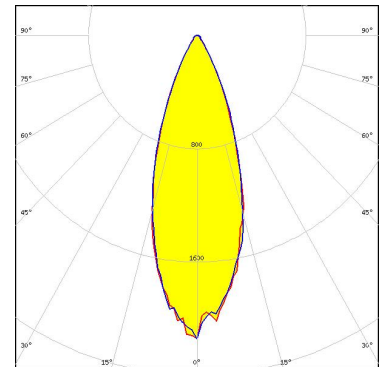
LED CLL03x/CLU03x  
Ordering code CP18577\_AMY-110-W-B  
FWHM / FWTM 35.0° / 62.0°  
Efficiency 91 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



BJB: 47.319.2021

#### CITIZEN

LED CLL03x/CLU03x  
Ordering code CP19034\_AMY-110-W-B-WHT  
FWHM / FWTM 35.0° / 62.0°  
Efficiency 95 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

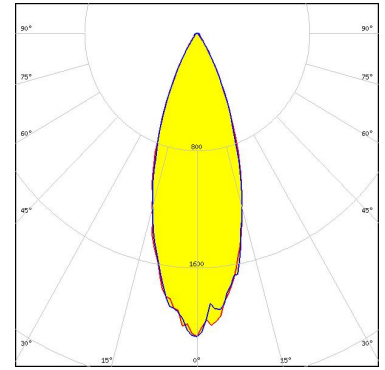


BJB: 47.319.2021

### OPTICAL RESULTS (SIMULATED):

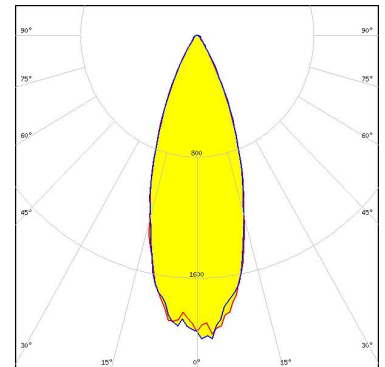
#### CITIZEN

LED CLL03x/CLU03x  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 35.0° / 62.0°  
Efficiency 90 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



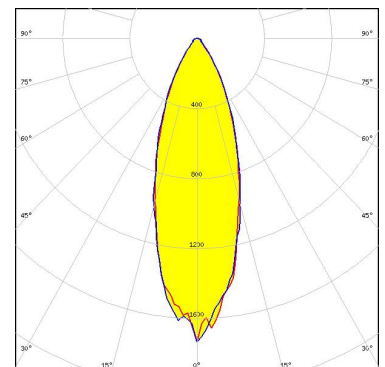
#### CITIZEN

LED CLL03x/CLU03x  
Ordering code CP19030\_AMY-110-W-C-WHT  
FWHM / FWTM 37.0° / 64.0°  
Efficiency 95 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



#### CITIZEN

LED CLL04x/CLU04x  
Ordering code C18569\_AMY-110-W  
FWHM / FWTM 34.0° / 71.0°  
Efficiency 87 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

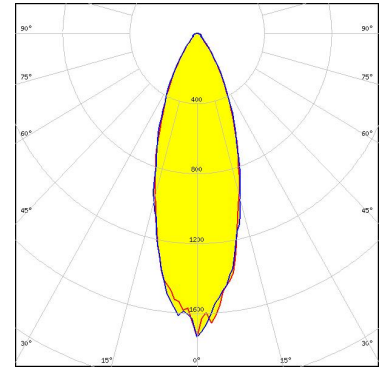


BJB: 47.319.2030

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

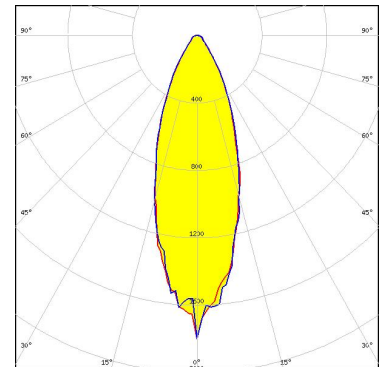
LED CLL04x/CLU04x  
Ordering code CP18577\_AMY-110-W-B  
FWHM / FWTM 34.0° / 71.0°  
Efficiency 87 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



BJB: 47.319.2030

#### CITIZEN

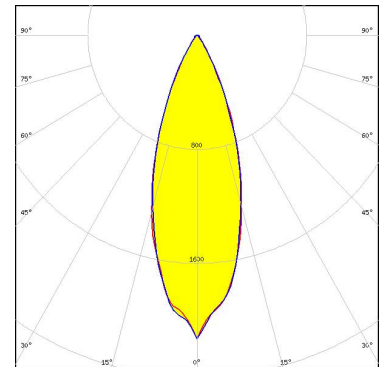
LED CLL04x/CLU04x  
Ordering code CP19034\_AMY-110-W-B-WHT  
FWHM / FWTM 34.0° / 72.0°  
Efficiency 94 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



BJB: 47.319.2030

#### LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 36.0° / 62.0°  
Efficiency 91 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

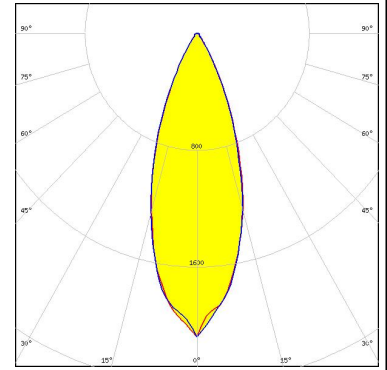


Bender Wirth: 637a Hekla

### OPTICAL RESULTS (SIMULATED):



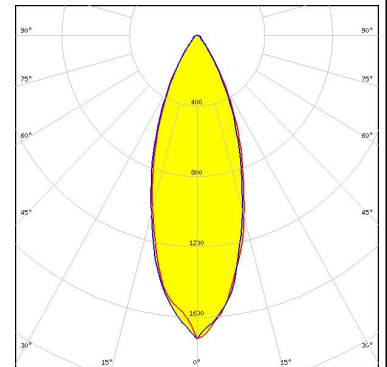
**LED** LUXEON CoB 1208  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 36.0° / 62.0°  
**Efficiency** 91 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Bender Wirth: 632a Hekla XL



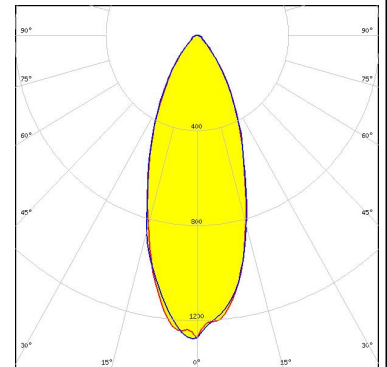
**LED** LUXEON CoB 1211  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 37.0° / 71.0°  
**Efficiency** 89 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Bender Wirth: 631b Hekla XL



**LED** LUXEON CoB 1213/1216/1812  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 39.0° / 81.0°  
**Efficiency** 81 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



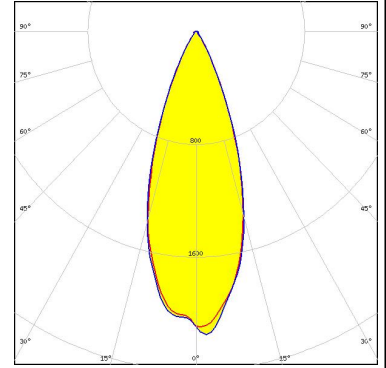
Bender Wirth: 631b Hekla XL



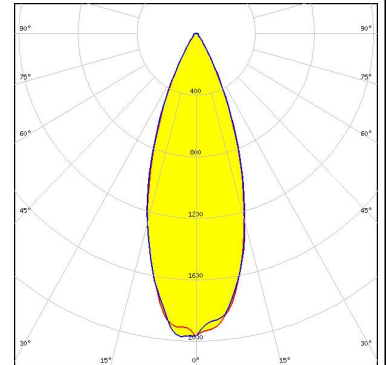
### OPTICAL RESULTS (SIMULATED):



**LED** LUXEON CX Plus CoB L04 / L05 (Gen2)  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 36.0° / 60.0°  
**Efficiency** 91 %  
**Peak intensity** 2.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15254\_HEKLA-SOCKET-B



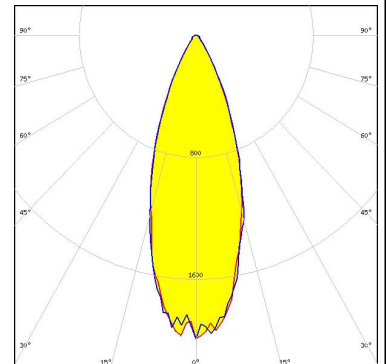
**LED** COB J-Type  
**Ordering code** CP18573\_AMY-110-W-C  
**FWHM / FWTM** 38.0° / 64.0°  
**Efficiency** 91 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Bender Wirth: 663a Hekla XL



**LED** LC016D / LC019D / LC026D / LC033D  
**Ordering code** CP19034\_AMY-110-W-B-WHT  
**FWHM / FWTM** 36.0° / 66.0°  
**Efficiency** 95 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

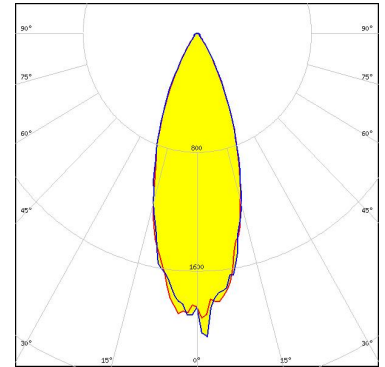


BJB: 47.319.2021

### OPTICAL RESULTS (SIMULATED):

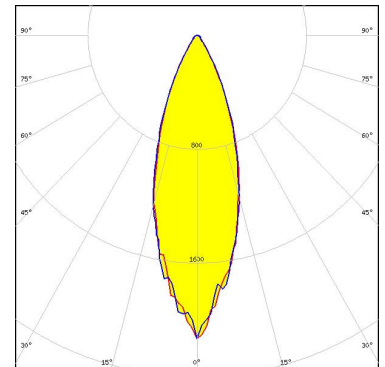
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP18573\_AMY-110-W-C  
FWHM / FWTM 35.0° / 65.0°  
Efficiency 89 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



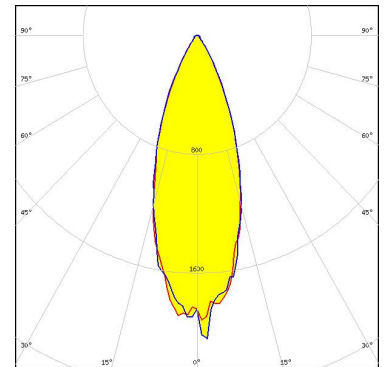
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP19030\_AMY-110-W-C-WHT  
FWHM / FWTM 34.0° / 65.0°  
Efficiency 95 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



#### SAMSUNG

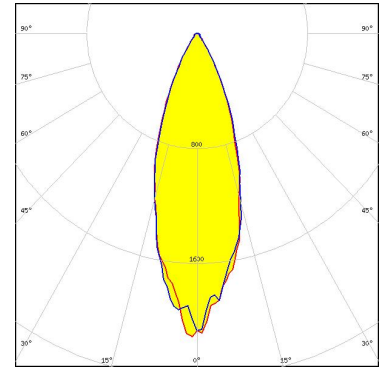
LED LC016D / LC019D / LC026D / LC033D  
Ordering code C18569\_AMY-110-W  
FWHM / FWTM 35.0° / 65.0°  
Efficiency 89 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

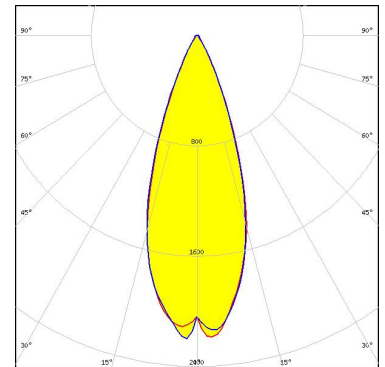
LED LC016D / LC019D / LC026D / LC033D  
 Ordering code CP18577\_AMY-110-W-B  
 FWHM / FWTM 34.0° / 64.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



BJB: 47.319.2021

#### SAMSUNG

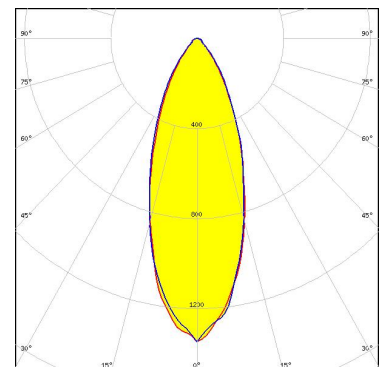
LED LC020T (Tunable white)  
 Ordering code CP18573\_AMY-110-W-C  
 FWHM / FWTM 37.0° / 58.0°  
 Efficiency 92 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



Bender Wirth: 501 Typ L8

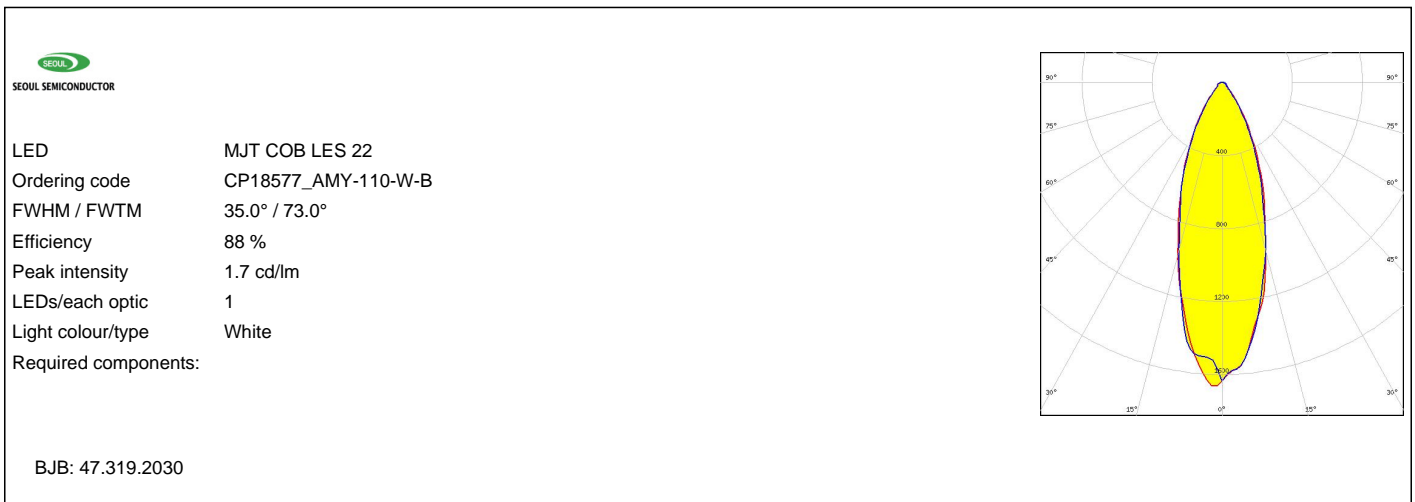
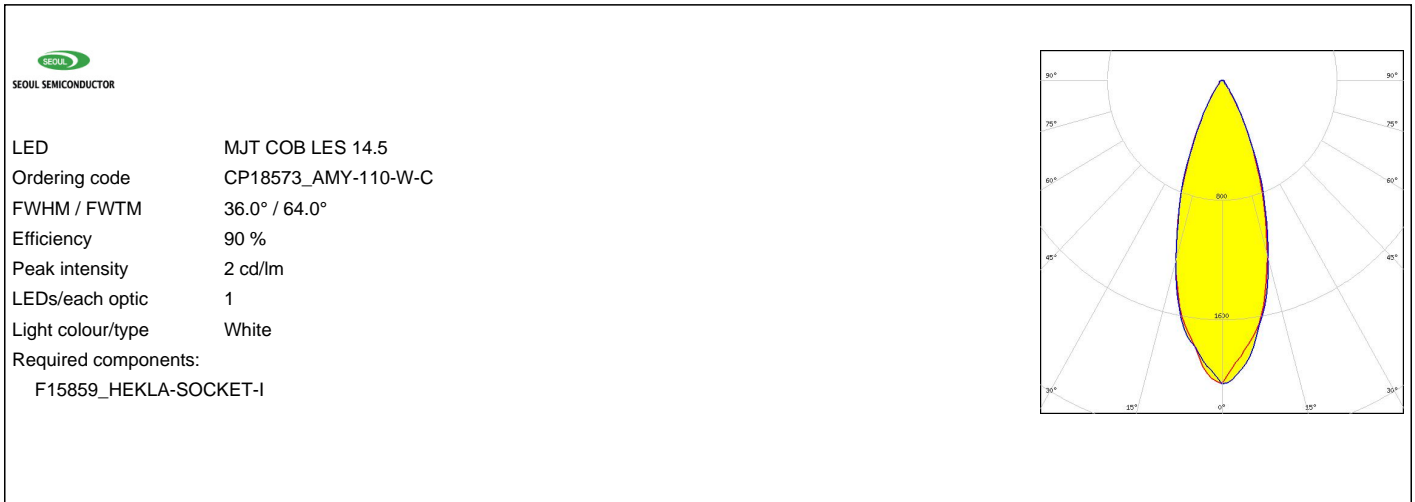
#### SAMSUNG

LED LC040D / LC060D / LC080D  
 Ordering code CP18573\_AMY-110-W-C  
 FWHM / FWTM 38.0° / 79.0°  
 Efficiency 80 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Bender Wirth: 631b Hekla XL

### OPTICAL RESULTS (SIMULATED):



### 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

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