

## AMY-110-S

~18° spot beam

### SPECIFICATION:

Dimensions	Ø 109.7
Height	17 mm
Fastening	socket
ROHS compliant	yes ⓘ

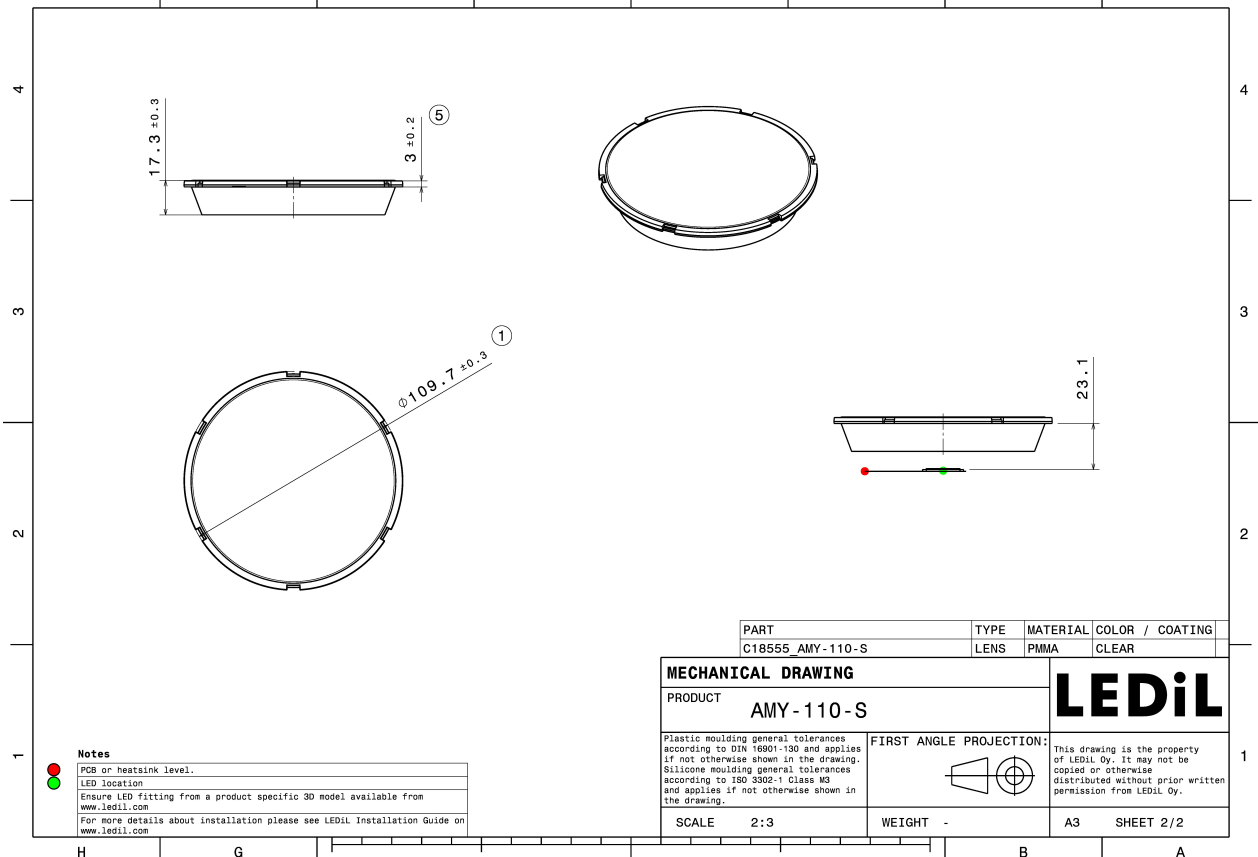
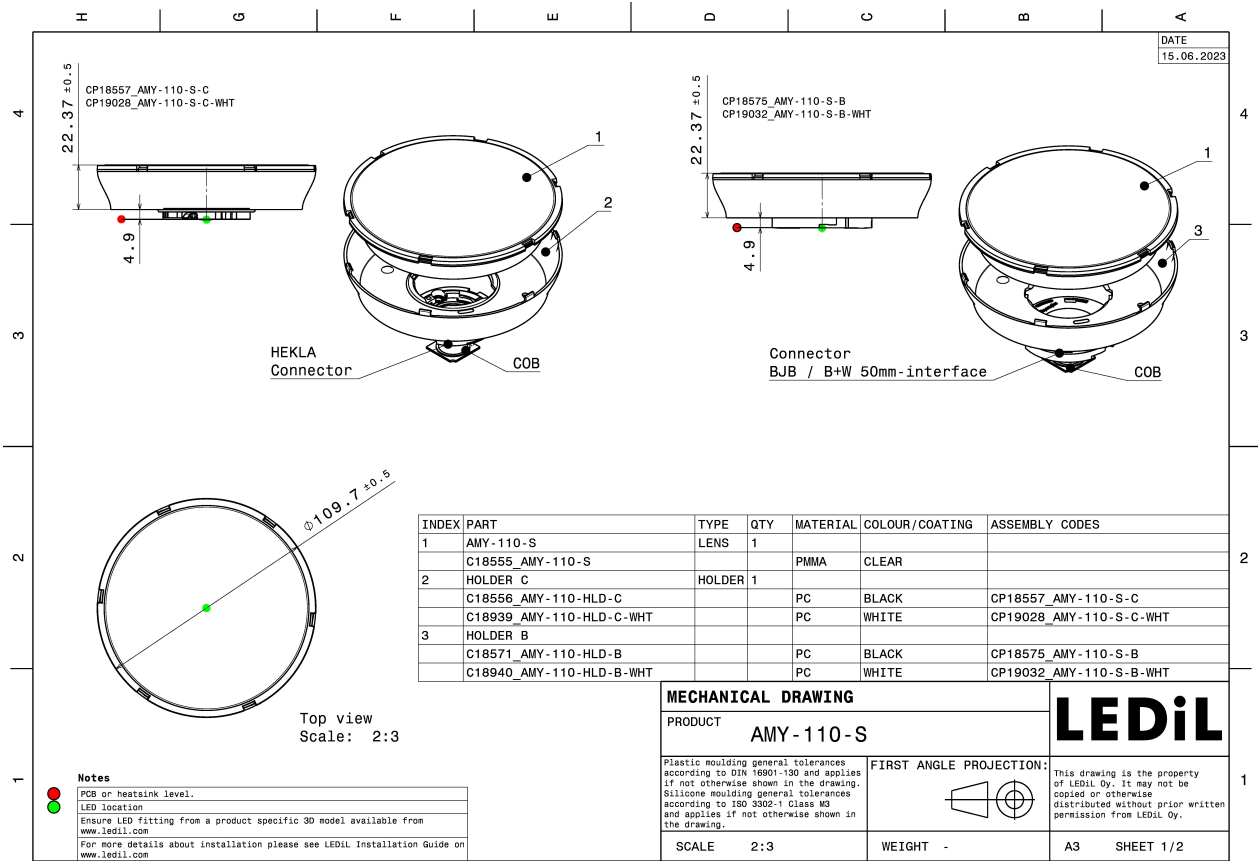
### MATERIALS:

Component	Type	Material	Colour	Finish	Length
AMY-110-S	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)
C18555_AMY-110-S	128	128	8	10.8
<b>Assembly</b>				
CP19032_AMY-110-S-B-WHT	77	77	7	8.5
CP19028_AMY-110-S-C-WHT	77	77	7	8.6
CP18575_AMY-110-S-B	77	77	7	8.7
CP18557_AMY-110-S-C	77	77	7	8.6

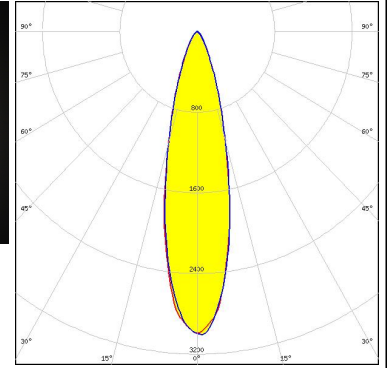


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

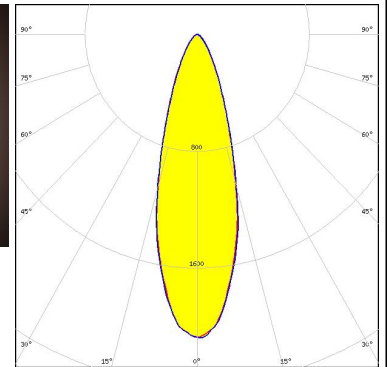
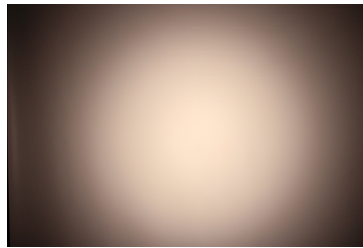
#### CITIZEN

LED LCN-C07A  
Ordering code C18555\_AMY-110-S  
FWHM / FWTM 25.0° / 53.0°  
Efficiency 89 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



#### CITIZEN

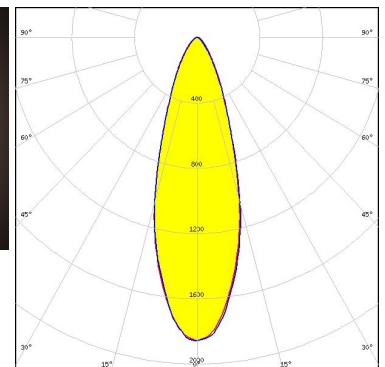
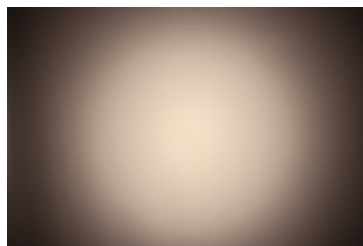
LED LCN-C08A  
Ordering code C18555\_AMY-110-S  
FWHM / FWTM 31.0° / 65.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour/type White  
Required components:





## CITIZEN

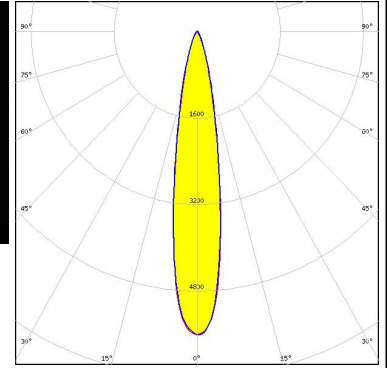
LED LCN-C09A  
Ordering code C18555\_AMY-110-S  
FWHM / FWTM 33.0° / 68.0°  
Efficiency 88 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



### OPTICAL RESULTS (MEASURED):



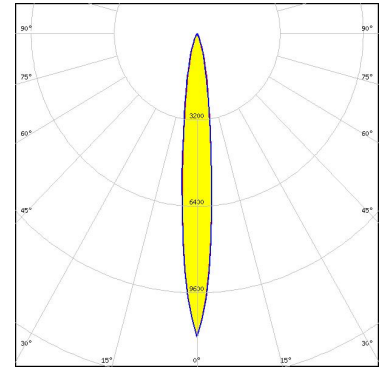
LED CTM-14 (Tunable White) Gen2  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 18.0° / 39.0°  
Efficiency 91 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 442 Typ L8



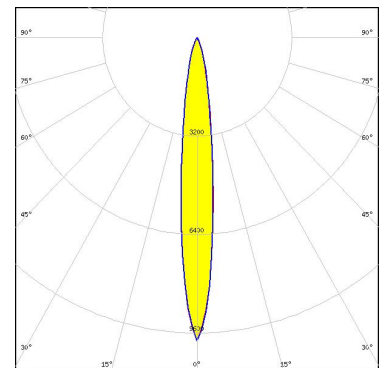
### OPTICAL RESULTS (SIMULATED):



LED V10 Gen 8-9  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 12.0° / 30.0°  
Efficiency 94 %  
Peak intensity 11.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

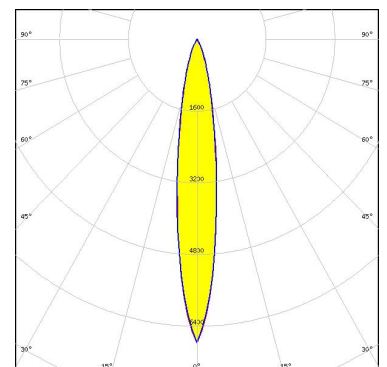


LED V11 HD Gen 8  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 12.0° / 32.0°  
Efficiency 94 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I





LED	V13 Gen 8-9
Ordering code	CP18557_AMY-110-S-C
FWHM / FWTM	16.0° / 38.0°
Efficiency	93 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F15859_HEKLA-SOCKET-I

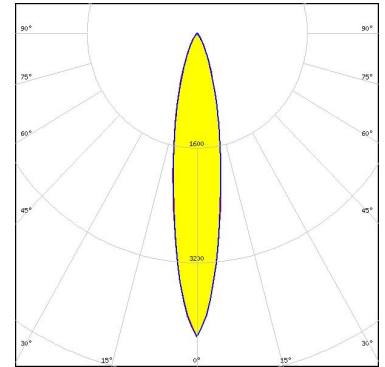




### OPTICAL RESULTS (SIMULATED):



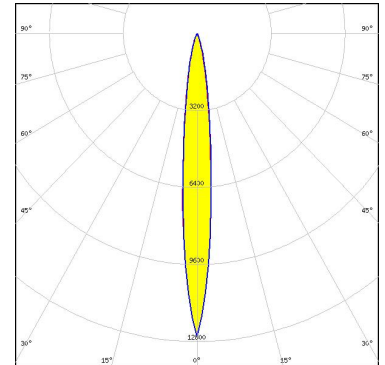
**LED** V18 Gen 8-9  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 18.0° / 47.0°  
**Efficiency** 87 %  
**Peak intensity** 4.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



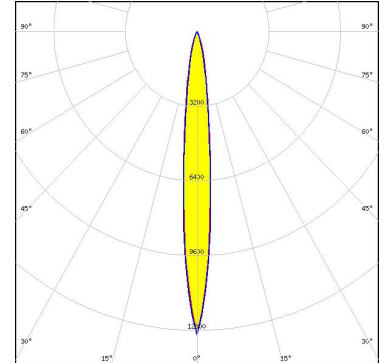
Bender Wirth: 462 Typ L8



**LED** V8 Gen 8-9  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 12.0° / 28.0°  
**Efficiency** 94 %  
**Peak intensity** 12.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15253\_HEKLA-SOCKET-A



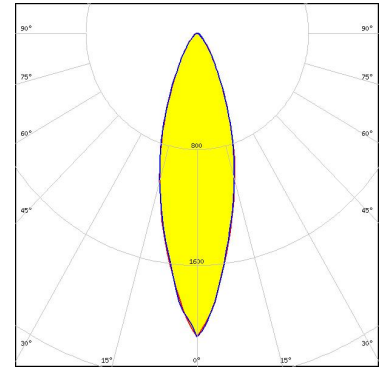
**LED** V9 HD Gen 8  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 10.0° / 28.0°  
**Efficiency** 94 %  
**Peak intensity** 13 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



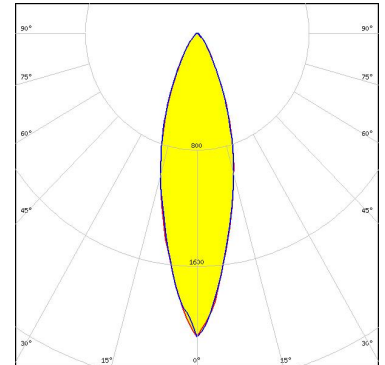
### OPTICAL RESULTS (SIMULATED):



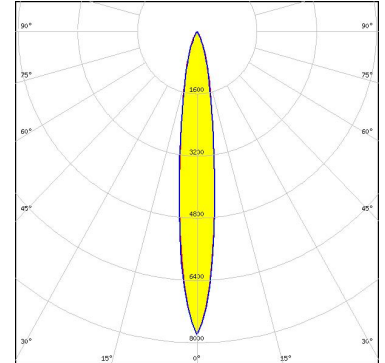
**LED** Vero SE 29  
**Ordering code** CP19028\_AMY-110-S-C-WHT  
**FWHM / FWTM** 29.0° / 65.0°  
**Efficiency** 88 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



**LED** Vero SE 29  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 29.0° / 64.0°  
**Efficiency** 82 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



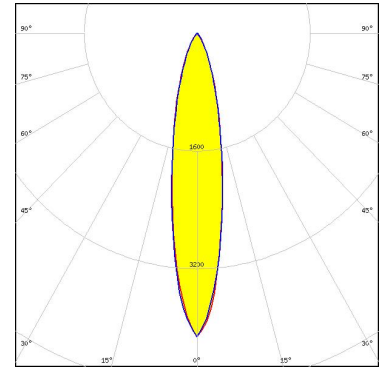
**LED** VERO13  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 14.0° / 37.0°  
**Efficiency** 94 %  
**Peak intensity** 7.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



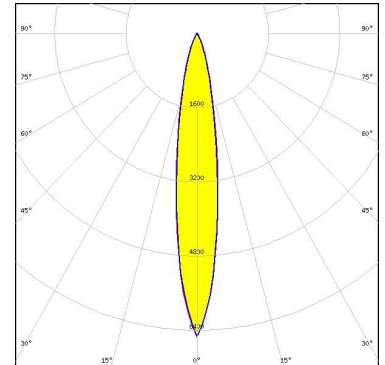
### OPTICAL RESULTS (SIMULATED):



**LED** VERO18  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 20.0° / 50.0°  
**Efficiency** 93 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



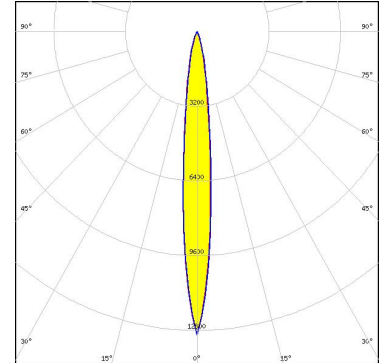
**LED** Vesta DTW 15mm (33W)  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 16.0° / 40.0°  
**Efficiency** 93 %  
**Peak intensity** 6.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Bender Wirth: 632b Hekla XL



**LED** Vesta DTW 9mm (4W/6W/12W)  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 11.0° / 28.0°  
**Efficiency** 94 %  
**Peak intensity** 13 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

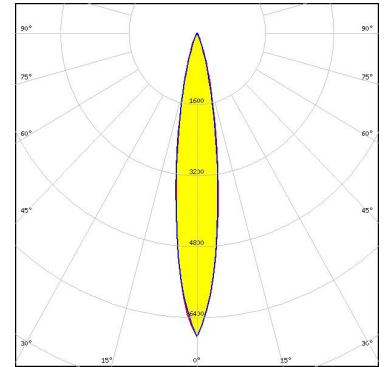


Bender Wirth: 652b Hekla

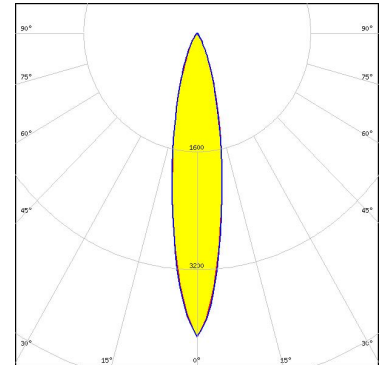
### OPTICAL RESULTS (SIMULATED):



LED Vesta SE 13mm TW  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 16.0° / 36.0°  
Efficiency 88 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K



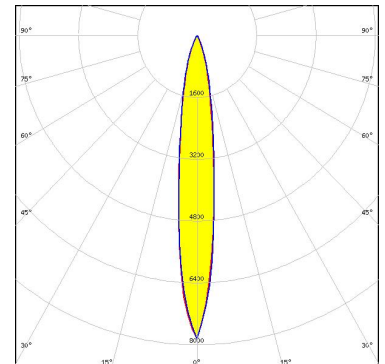
LED Vesta TW 18mm (31W) DP  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 20.0° / 48.0°  
Efficiency 86 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K



Bender Wirth: 483 Typ L8



LED Vesta TW 9mm (9W) DP  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 14.0° / 38.0°  
Efficiency 94 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K

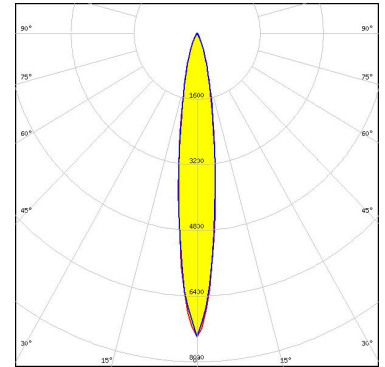


Bender Wirth: 489 Typ L8

### OPTICAL RESULTS (SIMULATED):

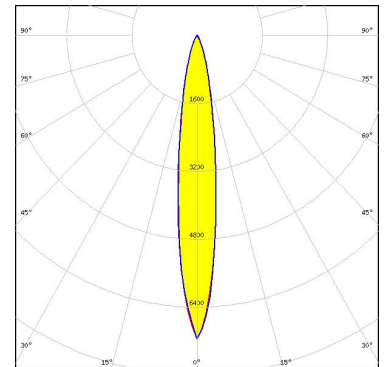
#### CITIZEN

LED CLL03x/CLU03x  
Ordering code CP19028\_AMY-110-S-C-WHT  
FWHM / FWTM 14.0° / 37.0°  
Efficiency 96 %  
Peak intensity 7.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



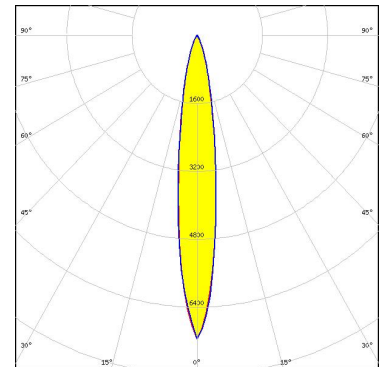
#### CITIZEN

LED CLL03x/CLU03x  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 14.0° / 36.0°  
Efficiency 92 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



#### CITIZEN

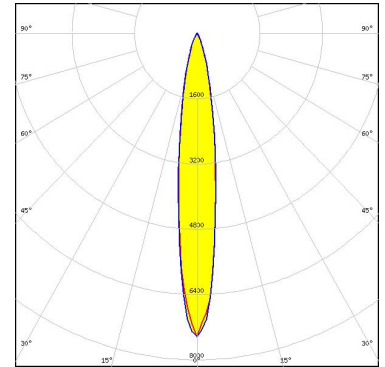
LED CLL03x/CLU03x  
Ordering code C18555\_AMY-110-S  
FWHM / FWTM 14.0° / 37.0°  
Efficiency 92 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

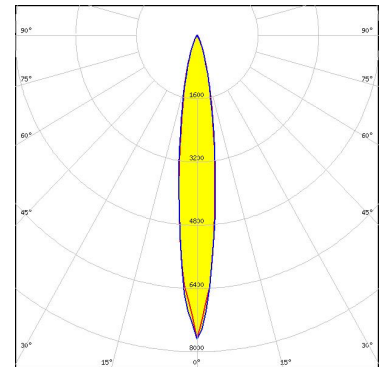
LED CLL03x/CLU03x  
 Ordering code CP19032\_AMY-110-S-B-WHT  
 FWHM / FWTM 14.0° / 36.0°  
 Efficiency 96 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



BJB: 47.319.2021

#### CITIZEN

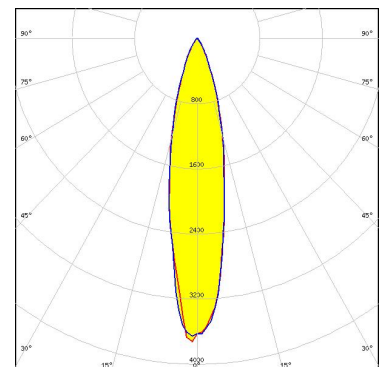
LED CLL03x/CLU03x  
 Ordering code CP18575\_AMY-110-S-B  
 FWHM / FWTM 14.0° / 36.0°  
 Efficiency 93 %  
 Peak intensity 7.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F10173\_OPTX-D-SUB



BJB: 47.319.2021

#### CITIZEN

LED CLL04x/CLU04x  
 Ordering code CP18575\_AMY-110-S-B  
 FWHM / FWTM 22.0° / 50.0°  
 Efficiency 90 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

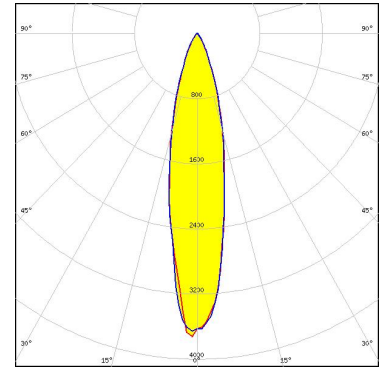


BJB: 47.319.2030

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

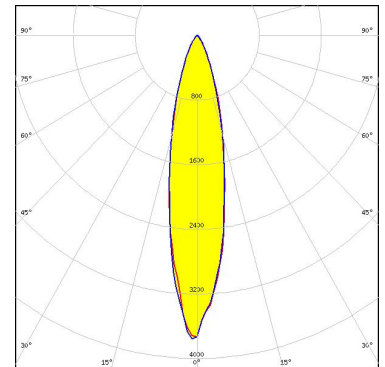
LED CLL04x/CLU04x  
 Ordering code C18555\_AMY-110-S  
 FWHM / FWTM 22.0° / 50.0°  
 Efficiency 90 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



BJB: 47.319.2030

#### CITIZEN

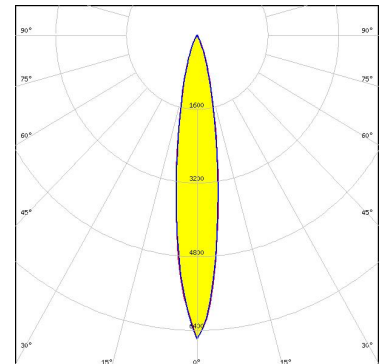
LED CLL04x/CLU04x  
 Ordering code CP19032\_AMY-110-S-B-WHT  
 FWHM / FWTM 22.0° / 50.0°  
 Efficiency 95 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



BJB: 47.319.2030

#### LUMILEDS

LED LUXEON CX Plus CoB L08 (Gen2)  
 Ordering code CP18557\_AMY-110-S-C  
 FWHM / FWTM 16.0° / 39.0°  
 Efficiency 93 %  
 Peak intensity 6.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

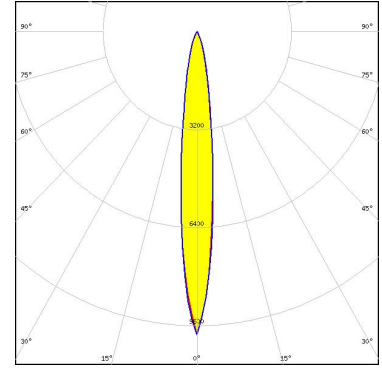


Bender Wirth: 637a Hekla

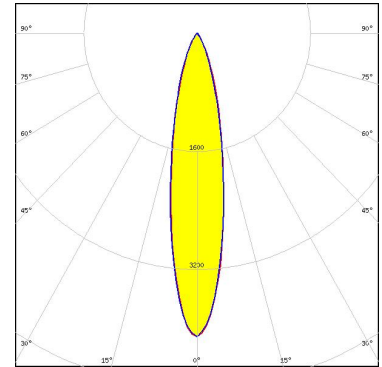
### OPTICAL RESULTS (SIMULATED):



**LED** LUXEON CoB 1205HD  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 12.0° / 32.0°  
**Efficiency** 94 %  
**Peak intensity** 9.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15858\_HEKLA-SOCKET-H



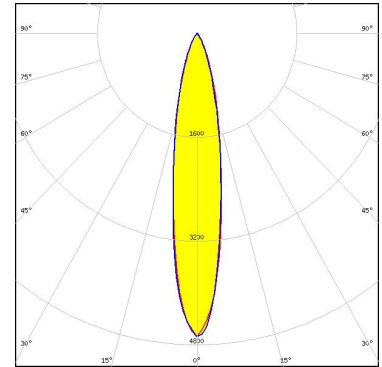
**LED** LUXEON CoB 1211  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 20.0° / 49.0°  
**Efficiency** 92 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Bender Wirth: 631b Hekla XL



**LED** LUXEON CoB 1211  
**Ordering code** CP18575\_AMY-110-S-B  
**FWHM / FWTM** 19.0° / 46.0°  
**Efficiency** 93 %  
**Peak intensity** 4.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



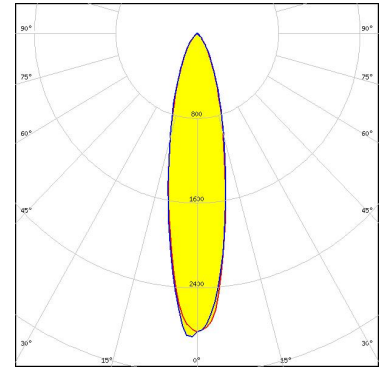
Bender Wirth: 631b Bayonet50



### OPTICAL RESULTS (SIMULATED):



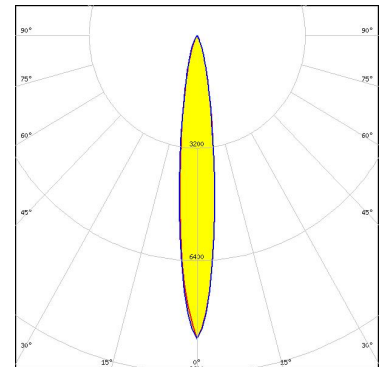
LED LUXEON CoB 1213/1216/1812  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 23.0° / 57.0°  
Efficiency 84 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



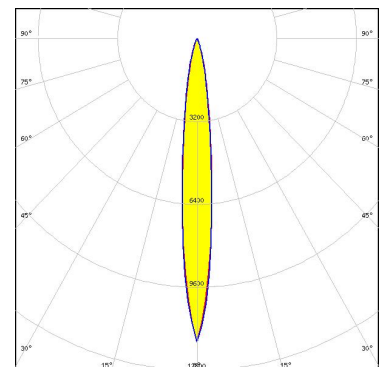
Bender Wirth: 631b Hekla XL



LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 14.0° / 34.0°  
Efficiency 93 %  
Peak intensity 8.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15254\_HEKLA-SOCKET-B



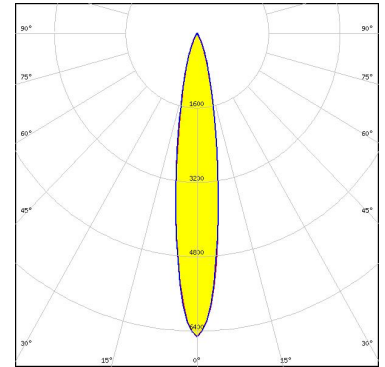
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 12.0° / 29.0°  
Efficiency 94 %  
Peak intensity 11.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15256\_HEKLA-SOCKET-D



### OPTICAL RESULTS (SIMULATED):



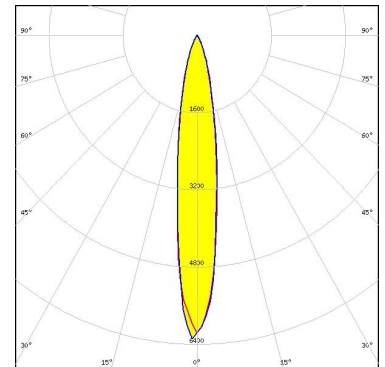
LED COB J-Type  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 16.0° / 39.0°  
Efficiency 93 %  
Peak intensity 6.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Bender Wirth: 663a Hekla XL

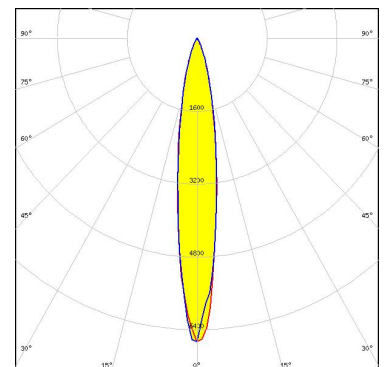
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code C18555\_AMY-110-S  
FWHM / FWTM 16.0° / 40.0°  
Efficiency 92 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP19032\_AMY-110-S-B-WHT  
FWHM / FWTM 16.0° / 38.0°  
Efficiency 96 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

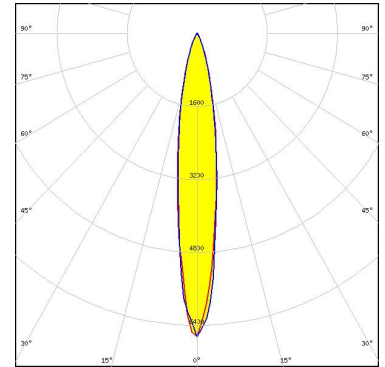


BJB: 47.319.2021

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

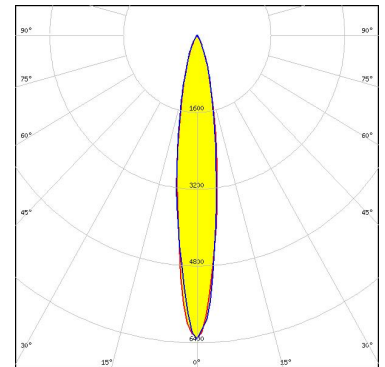
LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP18575\_AMY-110-S-B  
FWHM / FWTM 16.0° / 38.0°  
Efficiency 93 %  
Peak intensity 6.7 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



BJB: 47.319.2021

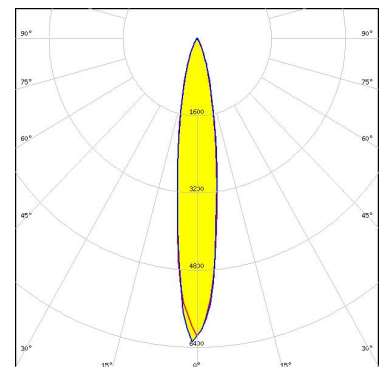
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP19028\_AMY-110-S-C-WHT  
FWHM / FWTM 16.0° / 40.0°  
Efficiency 96 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



#### SAMSUNG

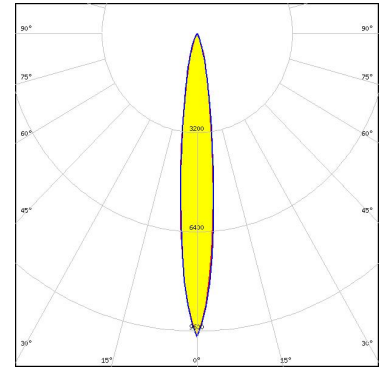
LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 16.0° / 40.0°  
Efficiency 92 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

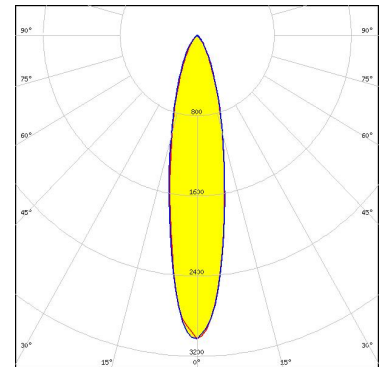
LED LC020T (Tunable white)  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 13.0° / 32.0°  
Efficiency 93 %  
Peak intensity 9.8 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K



Bender Wirth: 501 Typ L8

#### SAMSUNG

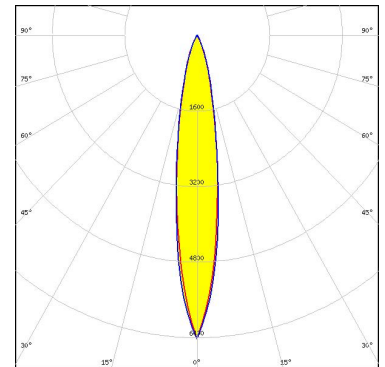
LED LC040D / LC060D / LC080D  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 22.0° / 55.0°  
Efficiency 83 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



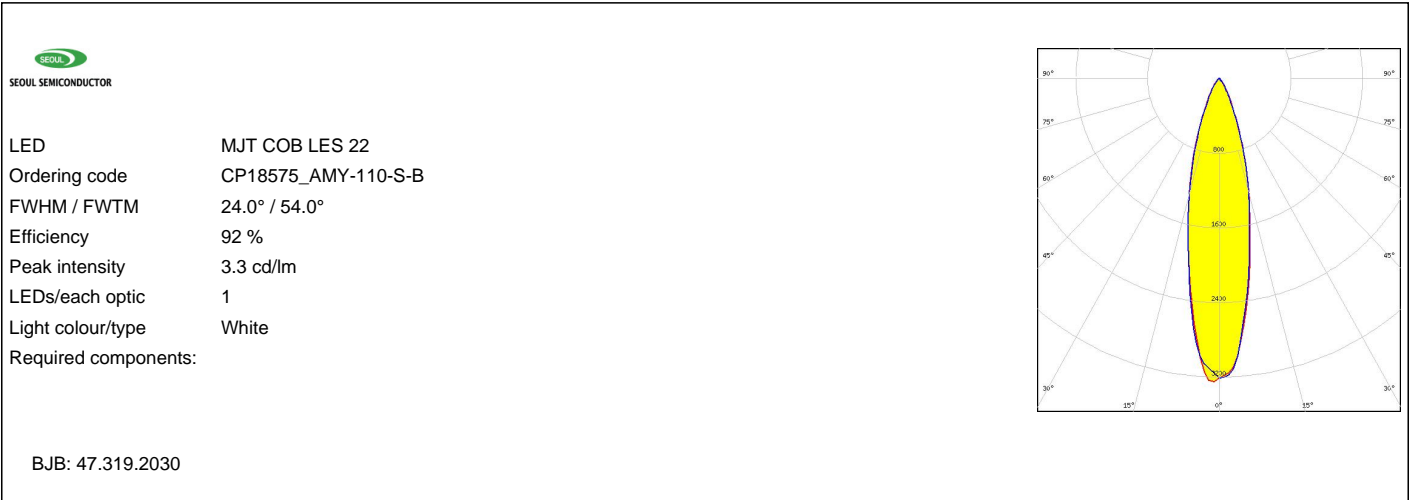
Bender Wirth: 631b Hekla XL



LED MJT COB LES 14.5  
Ordering code CP18557\_AMY-110-S-C  
FWHM / FWTM 16.0° / 40.0°  
Efficiency 93 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



### 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.

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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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