

## AMY-110-S

~18° spot beam

### SPECIFICATION:

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

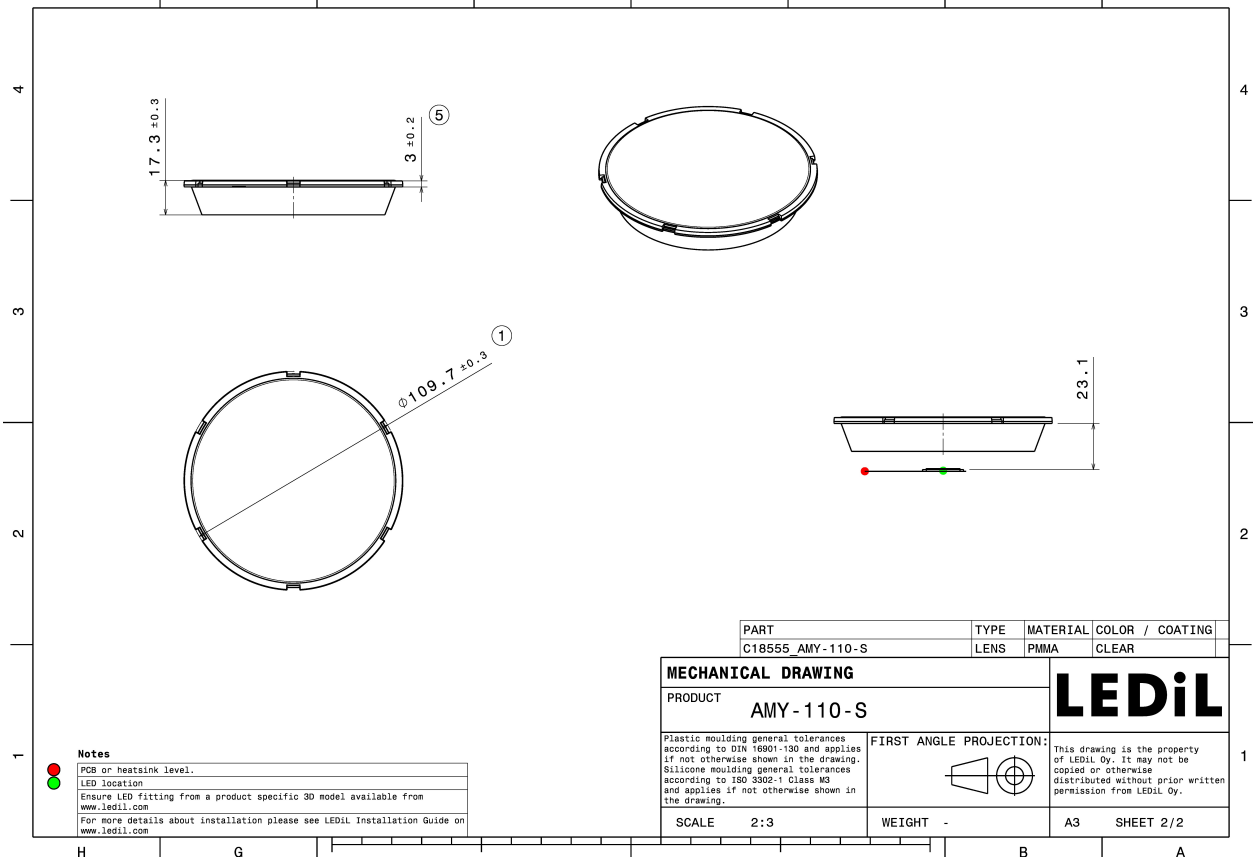
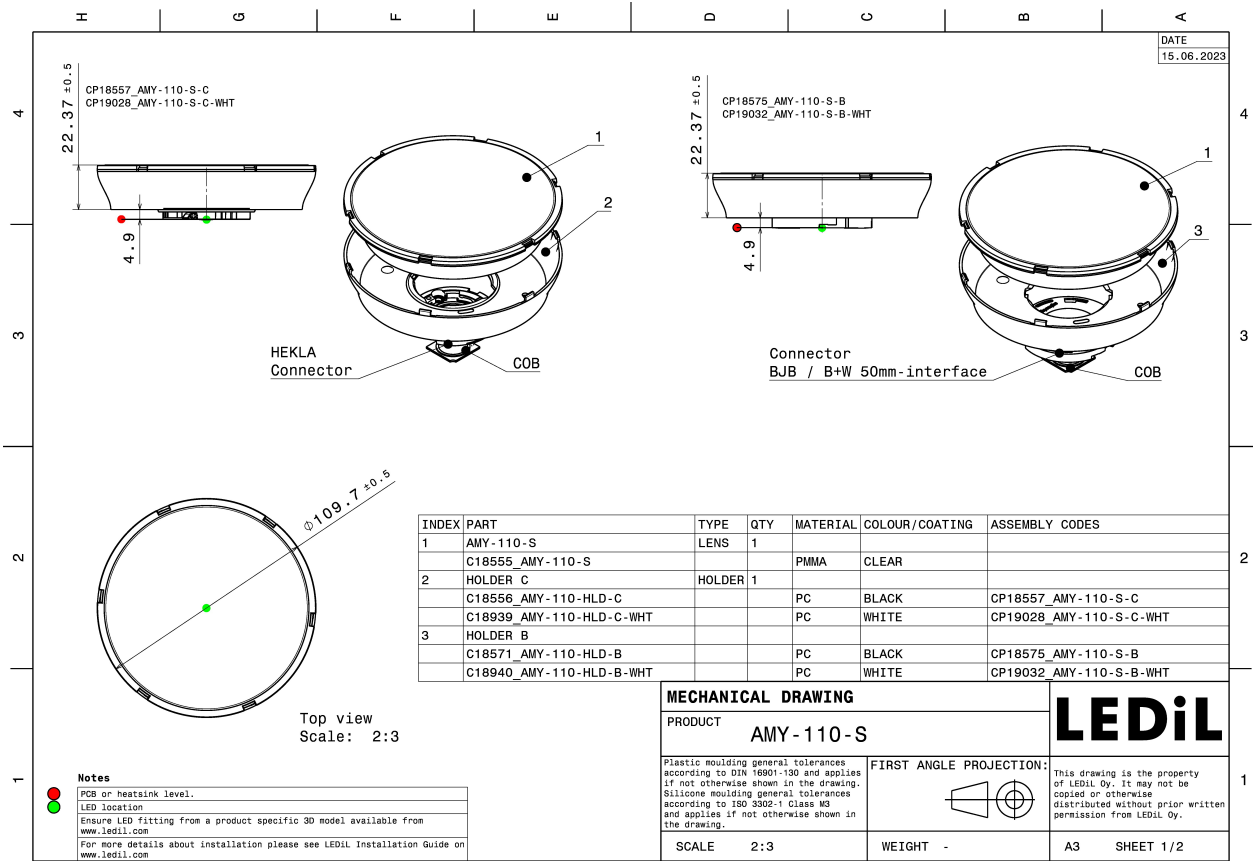
### MATERIALS:

Component	Type	Material	Colour	Finish
AMY-110-S	Single lens	PMMA	clear	
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

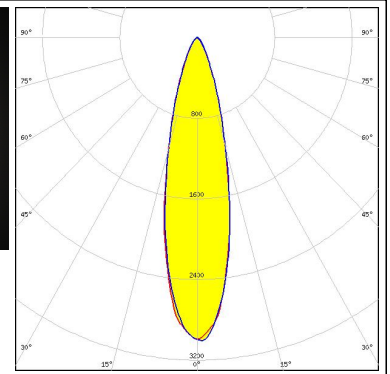
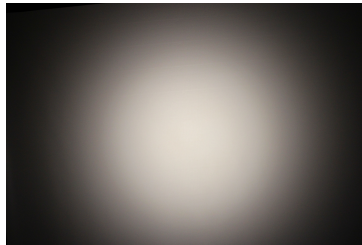


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

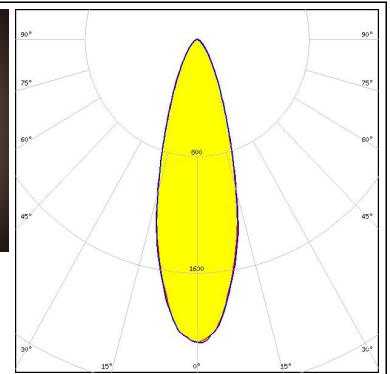
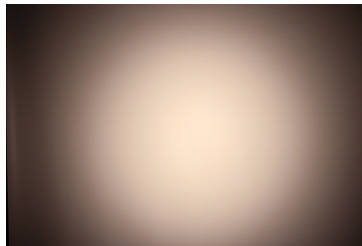
#### CITIZEN

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



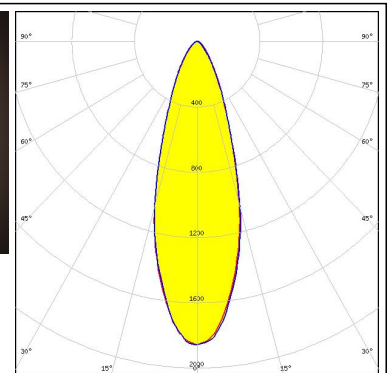
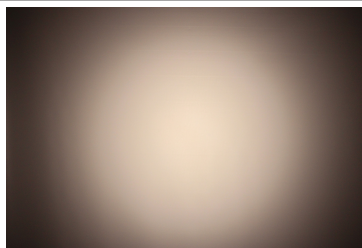
#### CITIZEN

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



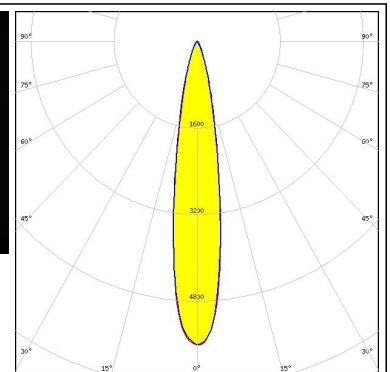
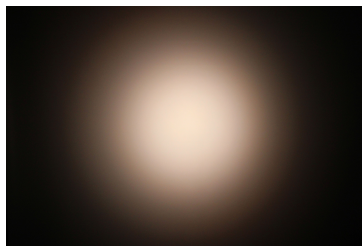
#### CITIZEN

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



#### LUMINUS

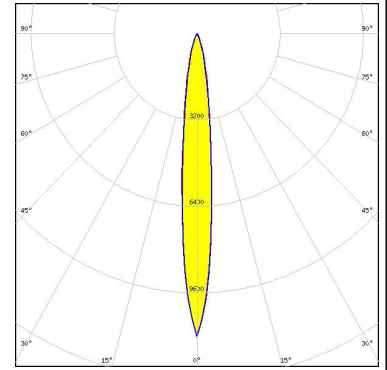
LED CTM-14 (Tunable White) Gen2  
 Ordering code CP18557\_AMY-110-S-C  
 FWHM / FWTM 18.0° / 39.0°  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 442 Typ L8



### OPTICAL RESULTS (SIMULATED):

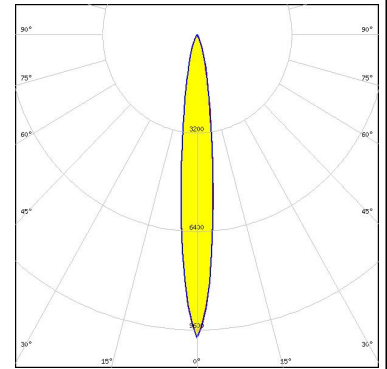
bridgelux.

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 White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



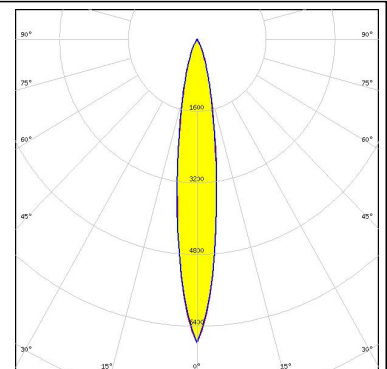
bridgelux.

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 White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



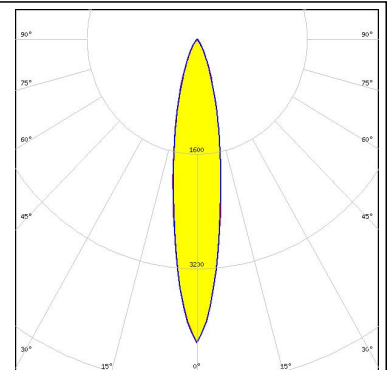
bridgelux.

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 White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



bridgelux.

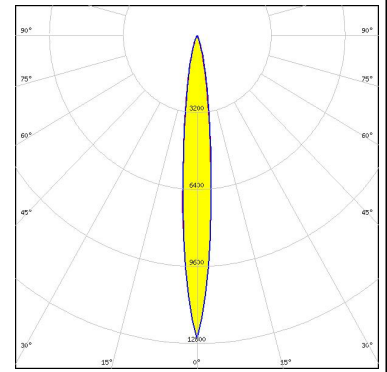
LED V18 Gen 8-9  
 Ordering code CP18557\_AMY-110-S-C  
 FWHM / FWTM 18.0° / 47.0°  
 Efficiency 87 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 462 Typ L8



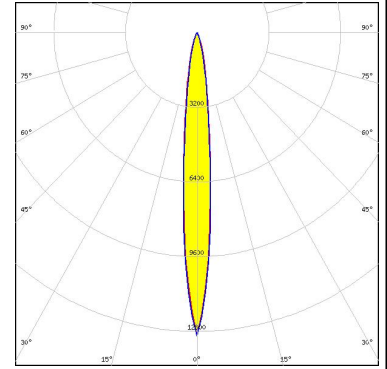
### OPTICAL RESULTS (SIMULATED):



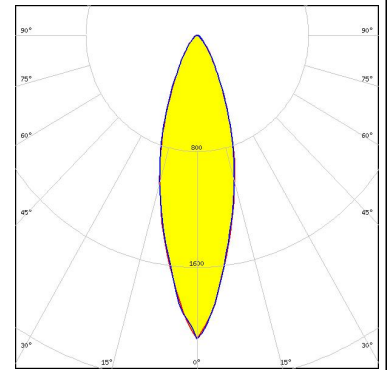
**LED** V8 Gen 8-9  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 12.0° / 28.0°  
**Efficiency** 94 %  
**Peak intensity** 12.6 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15253\_HEKLA-SOCKET-A



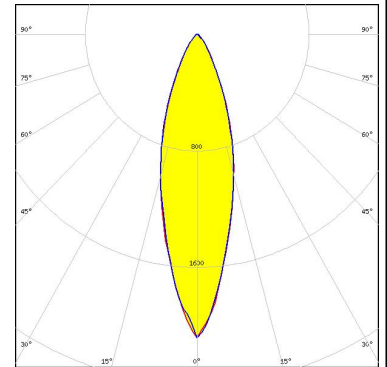
**LED** V9 HD Gen 8  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 10.0° / 28.0°  
**Efficiency** 94 %  
**Peak intensity** 13 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



**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** White  
**Required components:**



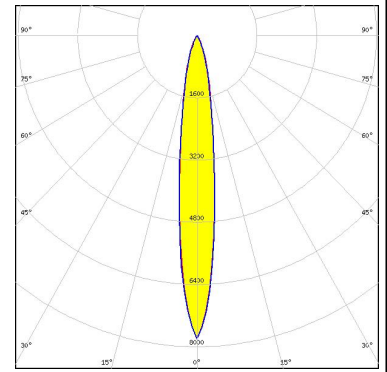
**LED** Vero SE 29  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 29.0° / 64.0°  
**Efficiency** 82 %  
**Peak intensity** 2.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



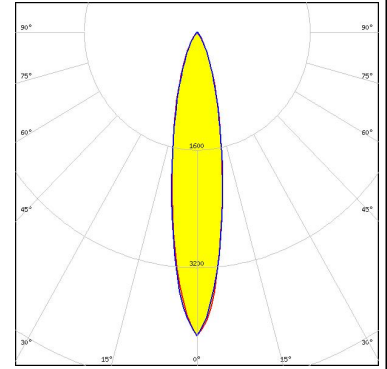
### OPTICAL RESULTS (SIMULATED):



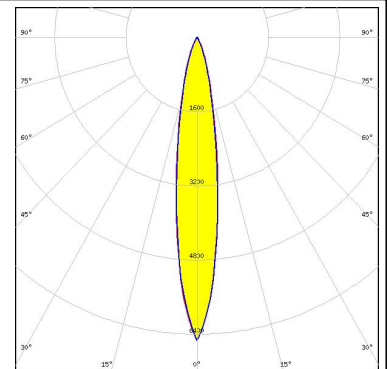
**LED** VERO13  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 14.0° / 37.0°  
**Efficiency** 94 %  
**Peak intensity** 7.8 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



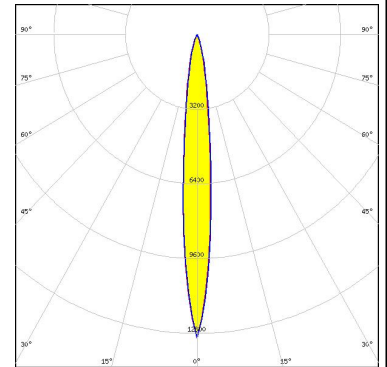
**LED** VERO18  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 20.0° / 50.0°  
**Efficiency** 93 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



**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** White  
**Required components:**  
 Bender Wirth: 632b Hekla XL



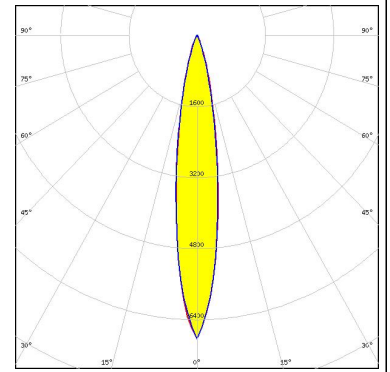
**LED** Vesta DTW 9mm (4W/6W/12W)  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 11.0° / 28.0°  
**Efficiency** 94 %  
**Peak intensity** 13 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 Bender Wirth: 652b Hekla



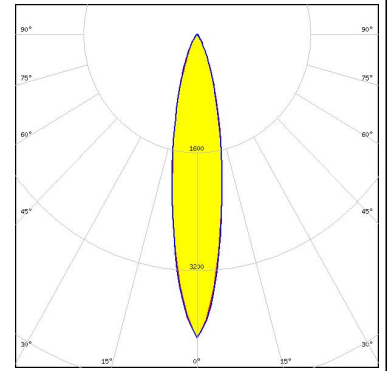
### OPTICAL RESULTS (SIMULATED):



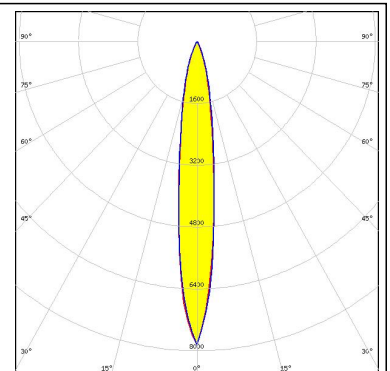
**LED** Vesta SE 13mm TW  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 16.0° / 36.0°  
**Efficiency** 88 %  
**Peak intensity** 6.8 cd/lm  
**LEDs/each optic** 1  
**Light colour** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



**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** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 462 Typ L8

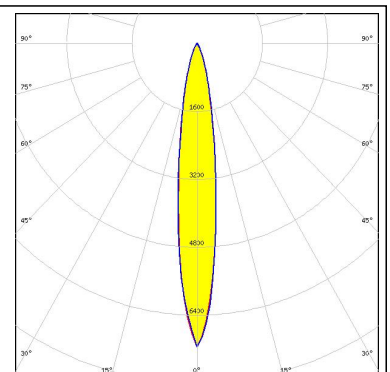


**LED** Vesta TW 9mm (9W) DP  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 14.0° / 38.0°  
**Efficiency** 94 %  
**Peak intensity** 7.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 489 Typ L8



## 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** White  
**Required components:**  
 F17438\_HEKLA-G2-I

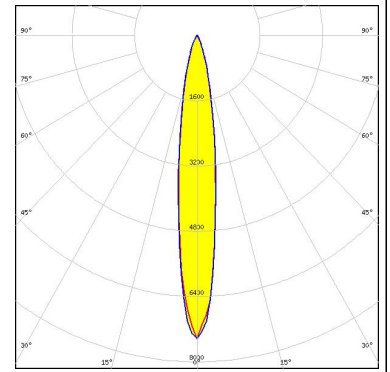




### OPTICAL RESULTS (SIMULATED):

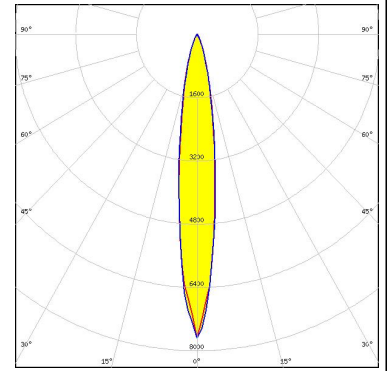
#### CITIZEN

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 White  
 Required components:  
 BJB: 47.319.2021



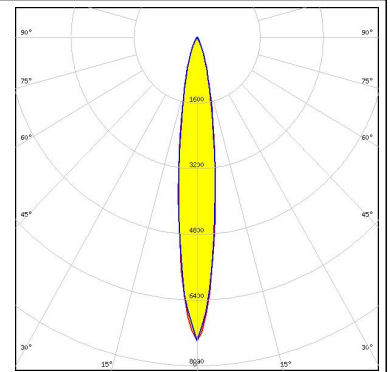
#### CITIZEN

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 White  
 Required components:  
 F10173\_OPTX-D-SUB  
 BJB: 47.319.2021



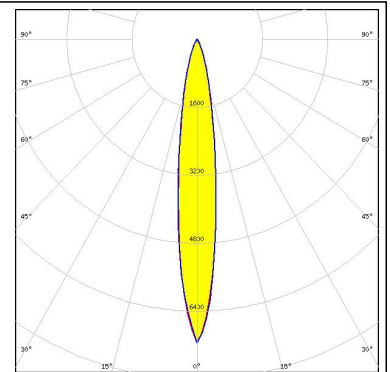
#### CITIZEN

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 White  
 Required components:  
 F17438\_HEKLA-G2-I



#### CITIZEN

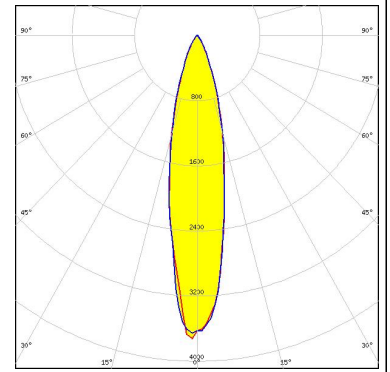
LED CLL03x/CLU03x  
 Ordering code C18555\_AMY-110-S  
 FWHM / FWTM 14.0° / 37.0°  
 Efficiency 92 %  
 Peak intensity 7.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### OPTICAL RESULTS (SIMULATED):

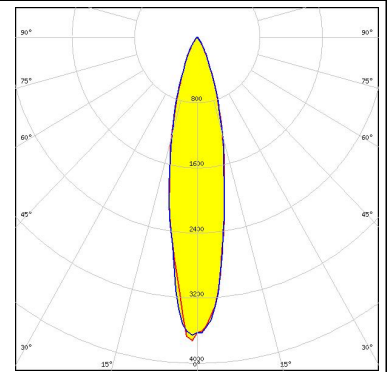
#### CITIZEN

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 White  
 Required components:  
 BJB: 47.319.2030



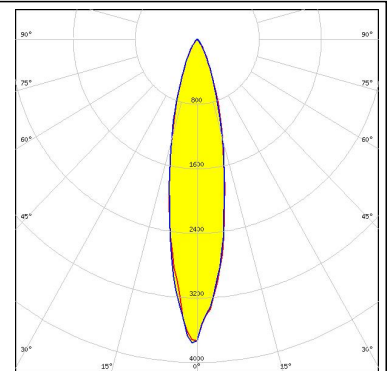
#### CITIZEN

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 White  
 Required components:  
 BJB: 47.319.2030



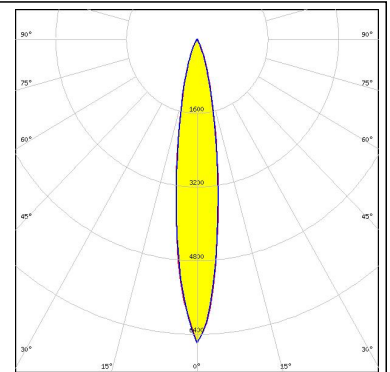
#### CITIZEN

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 White  
 Required components:  
 BJB: 47.319.2030



#### LUMILEDS

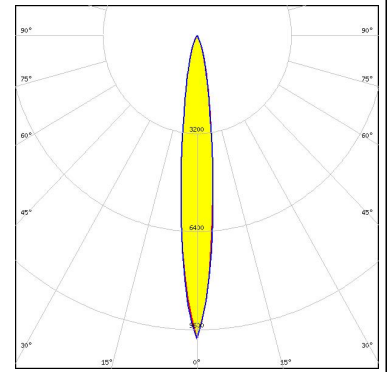
LED LUXEON CX Plus CoB L08 (Gen2)  
 Ordering code CP18557\_AMY-110-S-C  
 FWHM / FWTM 16.0° / 39.0°  
 Efficiency 93 %  
 Peak intensity 6.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 637a Hekla



### OPTICAL RESULTS (SIMULATED):

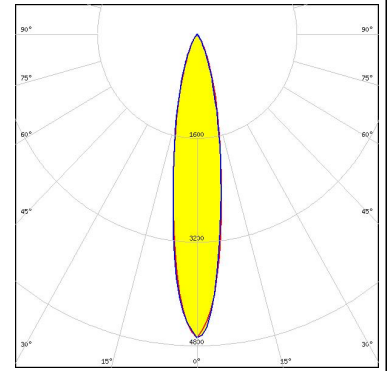
#### LUMILEDS

**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** White  
**Required components:**  
 F15858\_HEKLA-SOCKET-H



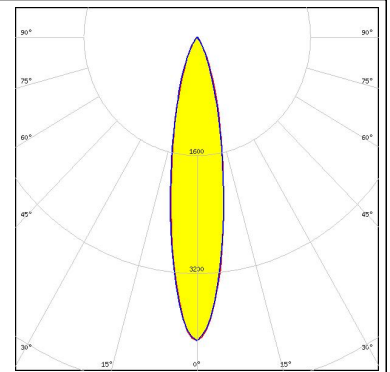
#### LUMILEDS

**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** White  
**Required components:**  
 Bender Wirth: 631b Bayonet50



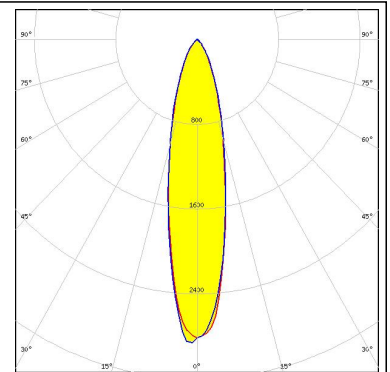
#### LUMILEDS

**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** White  
**Required components:**  
 Bender Wirth: 631b Hekla XL



#### LUMILEDS

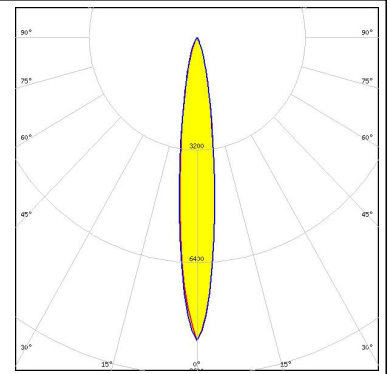
**LED** LUXEON CoB 1213/1216/1812  
**Ordering code** CP18557\_AMY-110-S-C  
**FWHM / FWTM** 23.0° / 57.0°  
**Efficiency** 84 %  
**Peak intensity** 2.9 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**  
 Bender Wirth: 631b Hekla XL



### OPTICAL RESULTS (SIMULATED):

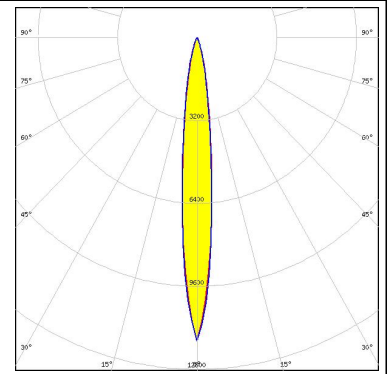
#### LUMILEDS

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 White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



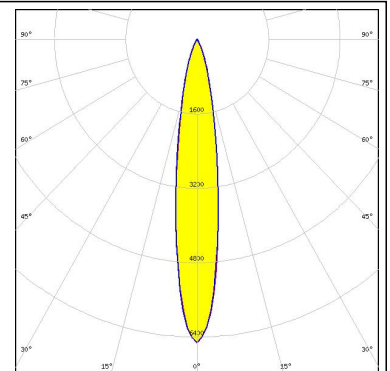
#### LUMILEDS

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 White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



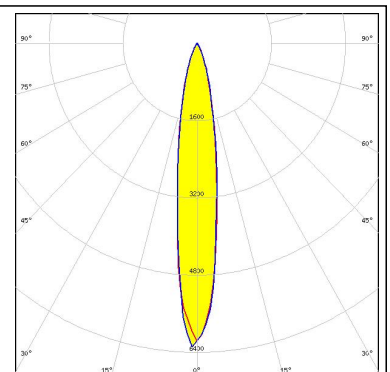
#### NICHIA

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 White  
 Required components:  
 Bender Wirth: 663a Hekla XL



#### SAMSUNG

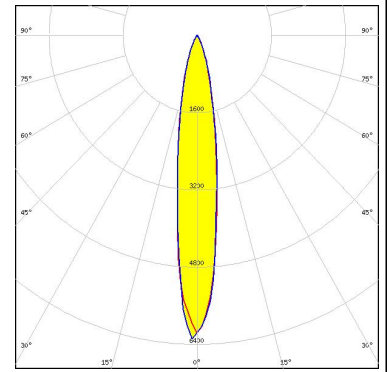
LED LC016D / LC019D / LC026D / LC033D  
 Ordering code C18555\_AMY-110-S  
 FWHM / FWTM 16.0° / 40.0°  
 Efficiency 92 %  
 Peak intensity 6.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### OPTICAL RESULTS (SIMULATED):

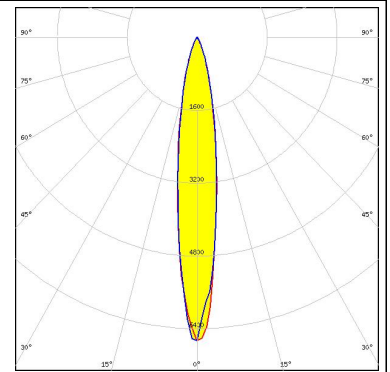
#### SAMSUNG

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 White  
 Required components:  
 F17438\_HEKLA-G2-I



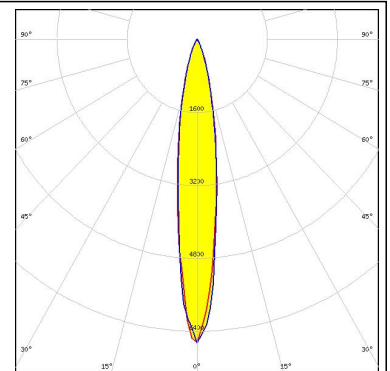
#### SAMSUNG

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 White  
 Required components:  
 BJB: 47.319.2021



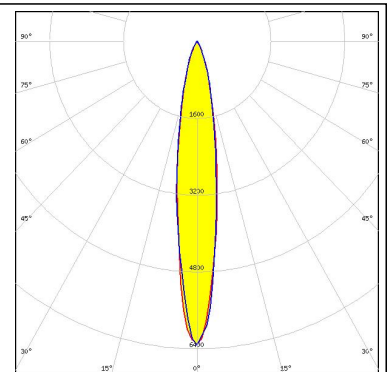
#### SAMSUNG

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 White  
 Required components:  
 BJB: 47.319.2021



#### SAMSUNG

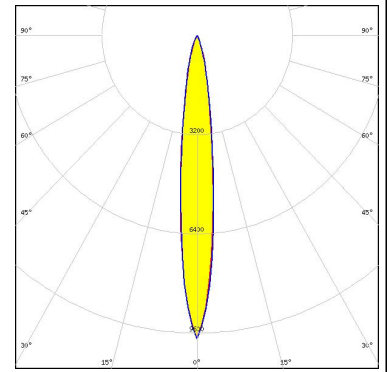
LED LC016D / LC019D / LC026D / LC033D  
 Ordering code CP19028\_AMY-110-S-C-WHT  
 FWHM / FWTM 16.0° / 40.0°  
 Efficiency 96 %  
 Peak intensity 6.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### OPTICAL RESULTS (SIMULATED):

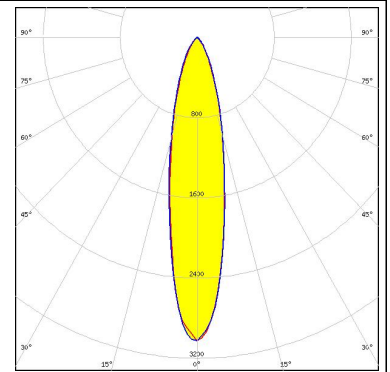
#### SAMSUNG

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 Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



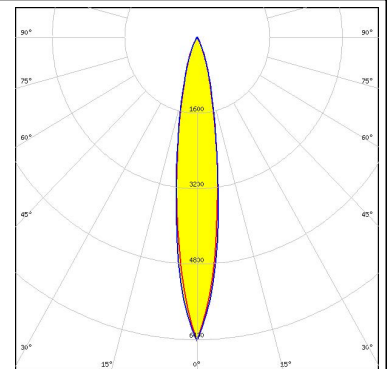
#### SAMSUNG

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 White  
 Required components:  
 Bender Wirth: 631b Hekla XL



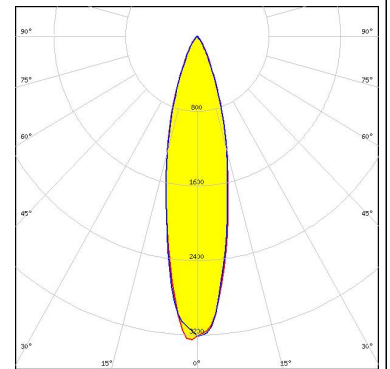
SEOUL SEMICONDUCTOR

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 White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



SEOUL SEMICONDUCTOR

LED MJT COB LES 22  
 Ordering code CP18575\_AMY-110-S-B  
 FWHM / FWTM 24.0° / 54.0°  
 Efficiency 92 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.319.2030



### 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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