

AMY-110-S

~18° spot beam

SPECIFICATION:

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

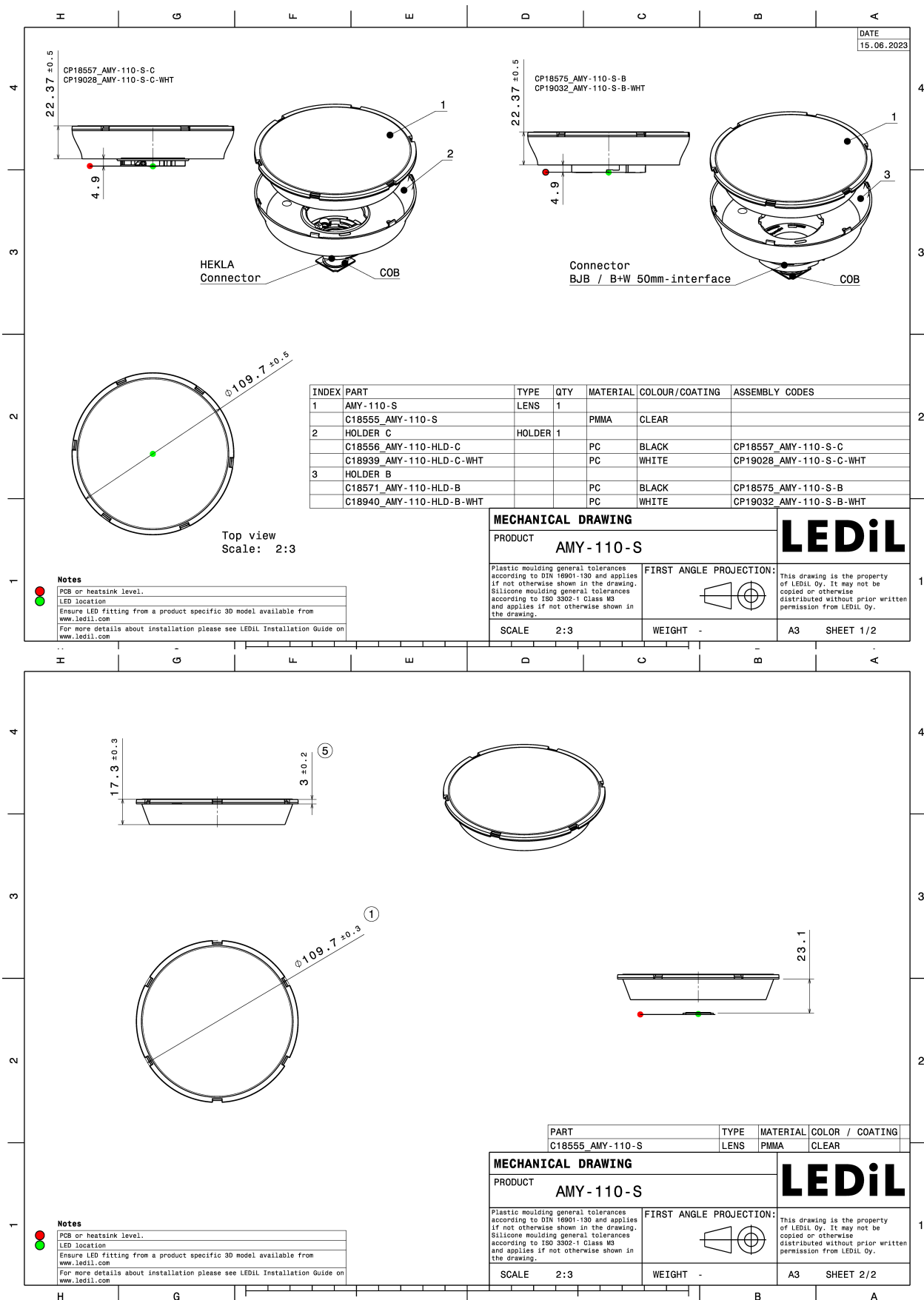
MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
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
Assembly				
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

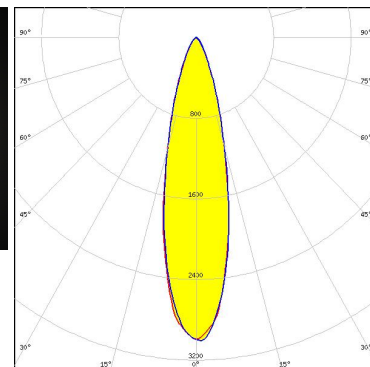
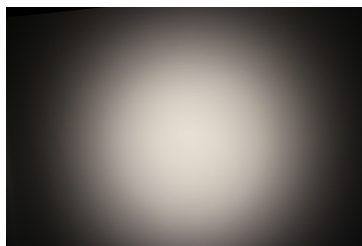


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CITIZEN

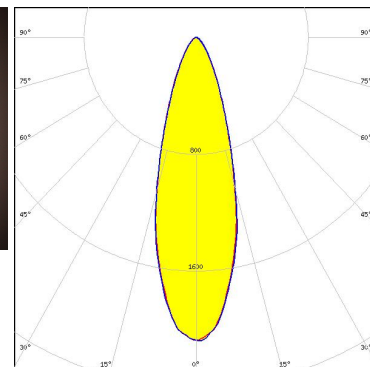
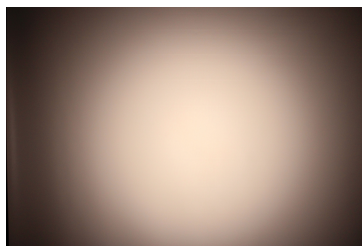
LED LCN-C07A
 Ordering code C18555_AMY-110-S
 FWHM / FWTM 25.0° / 53.0°
 Efficiency 89 %
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

CITIZEN

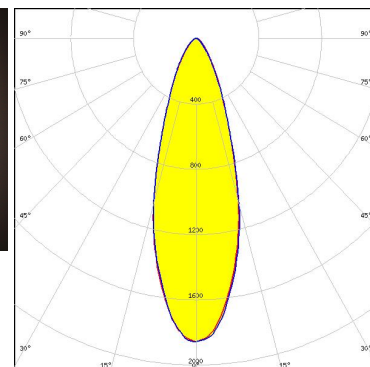
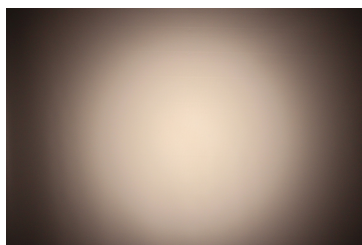
LED LCN-C08A
 Ordering code C18555_AMY-110-S
 FWHM / FWTM 31.0° / 65.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

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:

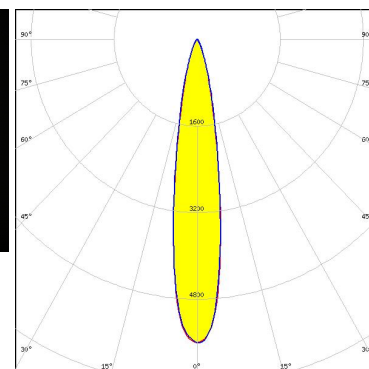
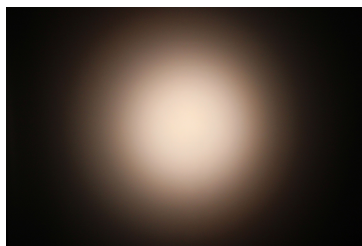


Light distribution files

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

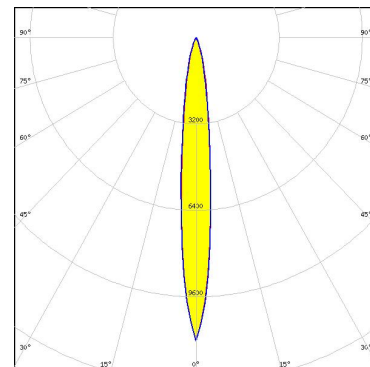


Light distribution files

OPTICAL RESULTS (SIMULATED):



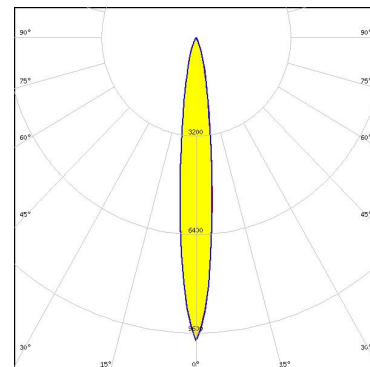
LED V10 Gen 8-9
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 12.0° / 30.0°
 Efficiency 94 %
 Peak intensity 11.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files



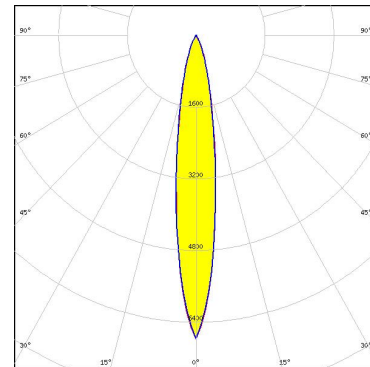
LED V11 HD Gen 8
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 12.0° / 32.0°
 Efficiency 94 %
 Peak intensity 9.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files



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

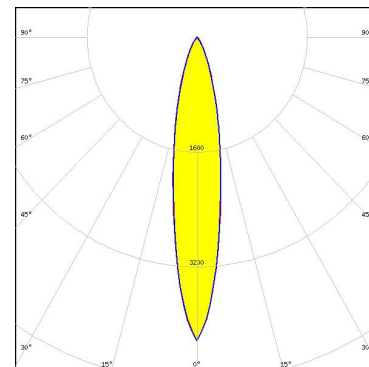


Light distribution files

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

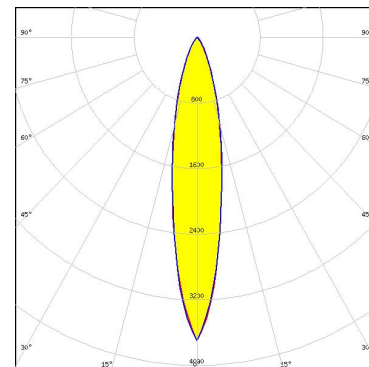


Light distribution files

Bender Wirth: 462 Typ L8



LED V22 Gen 8-9
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 20.0° / 50.0°
 Efficiency 84 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

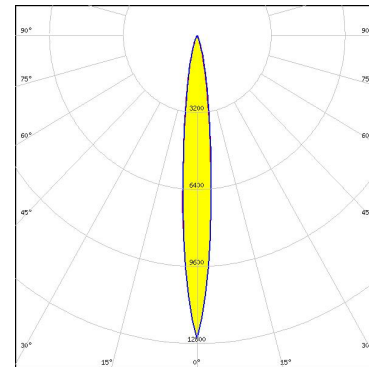


Light distribution files

Bender Wirth: 631b Hekla XL



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

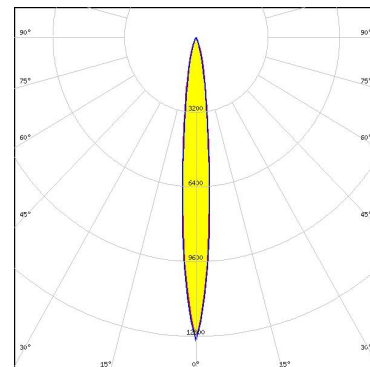


Light distribution files

OPTICAL RESULTS (SIMULATED):



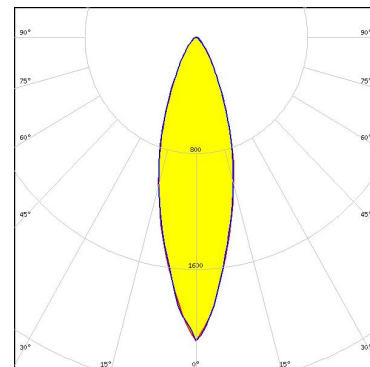
LED V9 HD Gen 8
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 10.0° / 28.0°
 Efficiency 94 %
 Peak intensity 13 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files



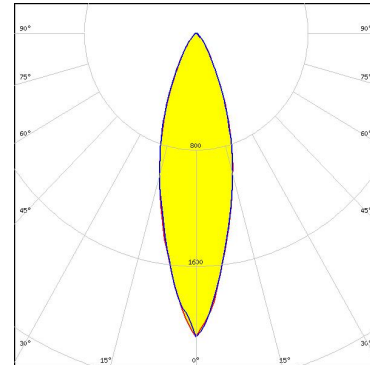
LED Vero SE 29
 Ordering code CP19028_AMY-110-S-C-WHT
 FWHM / FWTM 29.0° / 65.0°
 Efficiency 88 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



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:

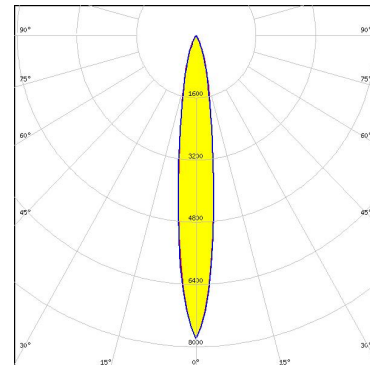


Light distribution files

OPTICAL RESULTS (SIMULATED):



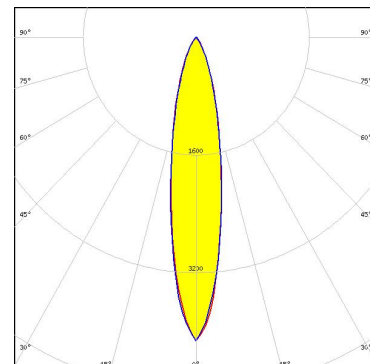
LED VERO13
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 14.0° / 37.0°
 Efficiency 94 %
 Peak intensity 7.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K



Light distribution files



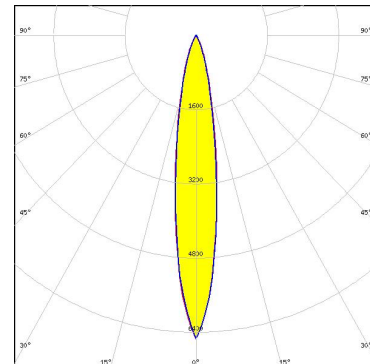
LED VERO18
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 20.0° / 50.0°
 Efficiency 93 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K



Light distribution files



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:



Light distribution files

Bender Wirth: 632b Hekla XL

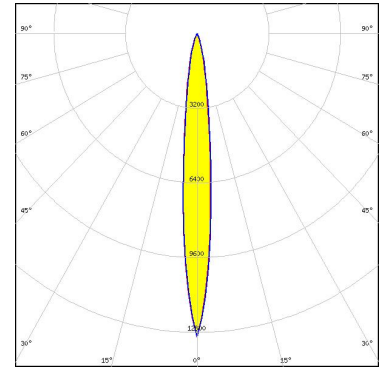
OPTICAL RESULTS (SIMULATED):



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:

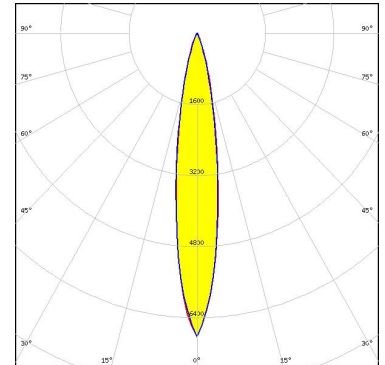
Bender Wirth: 652b Hekla

Light distribution files



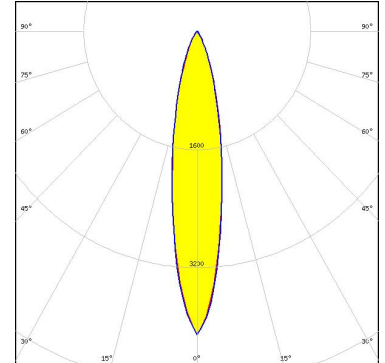
LED Vesta SE 13mm TW
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 16.0° / 36.0°
 Efficiency 88 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

Light distribution files



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

Light distribution files

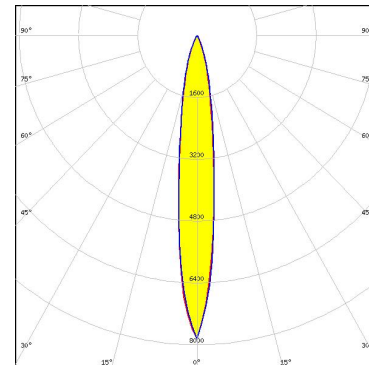


Bender Wirth: 483 Typ L8

OPTICAL RESULTS (SIMULATED):



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

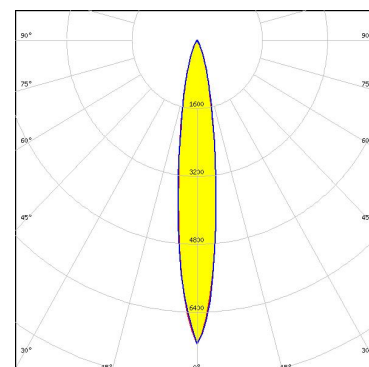


Light distribution files

Bender Wirth: 489 Typ L8

CITIZEN

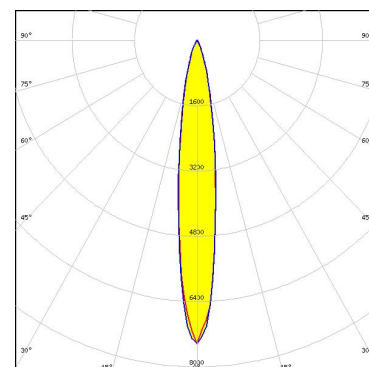
LED CLU03x
 Ordering code C18555_AMY-110-S
 FWHM / FWTM 14.0° / 37.0°
 Efficiency 92 %
 Peak intensity 7.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17438_HEKLA-G2-I



Light distribution files

CITIZEN

LED 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:



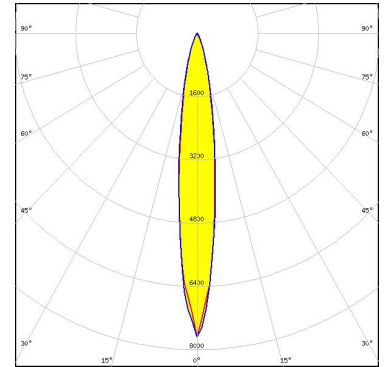
Light distribution files

BJB: 47.319.2021

OPTICAL RESULTS (SIMULATED):

CITIZEN

LED 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

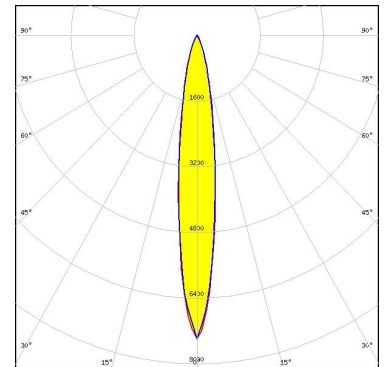


Light distribution files

BJB: 47.319.2021

CITIZEN

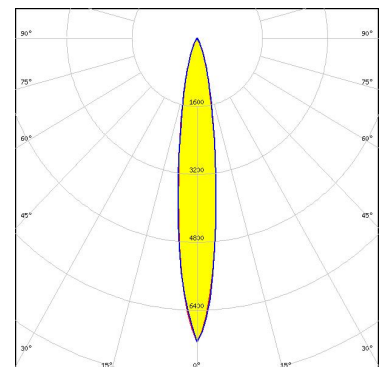
LED CLU03x
 Ordering code CP19028_AMY-110-S-C-WHT
 FWHM / FWTM 14.0° / 37.0°
 Efficiency 96 %
 Peak intensity 7.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17438_HEKLA-G2-I



Light distribution files

CITIZEN

LED 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



Light distribution files

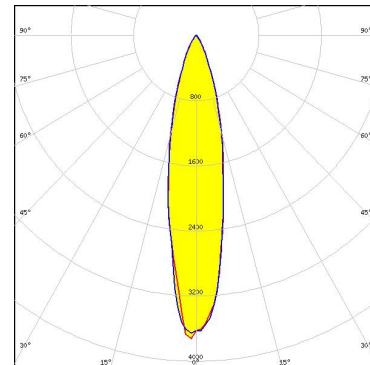
OPTICAL RESULTS (SIMULATED):

CITIZEN

LED 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

Light distribution files

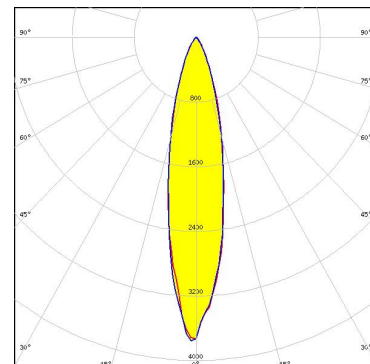


CITIZEN

LED 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

Light distribution files

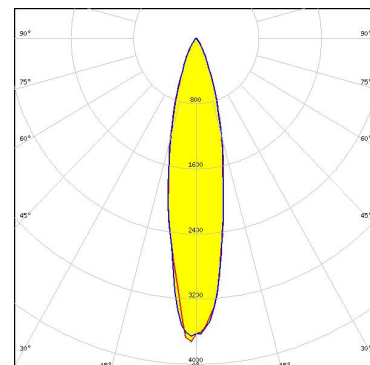


CITIZEN

LED 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

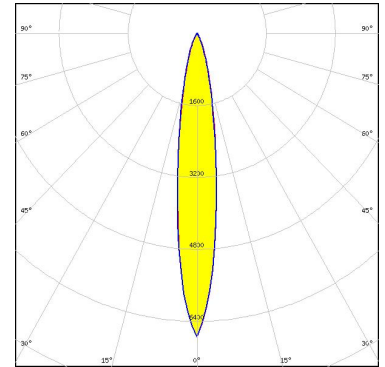
Light distribution files



OPTICAL RESULTS (SIMULATED):



LED CMA1840
Ordering code CP18557_AMY-110-S-C
FWHM / FWTM 16.0° / 38.0°
Efficiency 90 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

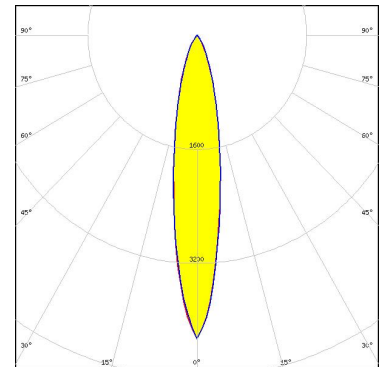


Bender Wirth: 637a Hekla

Light distribution files



LED CMA2550
Ordering code CP18557_AMY-110-S-C
FWHM / FWTM 18.0° / 48.0°
Efficiency 87 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

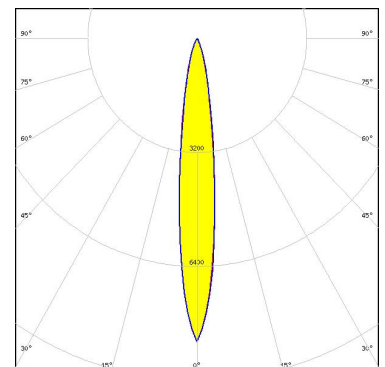


Bender Wirth: 639a Hekla XL

Light distribution files



LED CMB1818-25
Ordering code CP18557_AMY-110-S-C
FWHM / FWTM 14.0° / 34.0°
Efficiency 91 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Bender Wirth: 637a Hekla

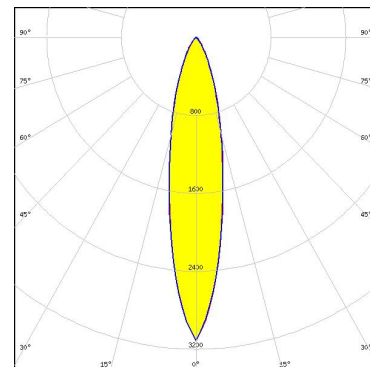
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED CMU22xx
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 22.0° / 54.0°
 Efficiency 82 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Bender Wirth: 631b Hekla XL

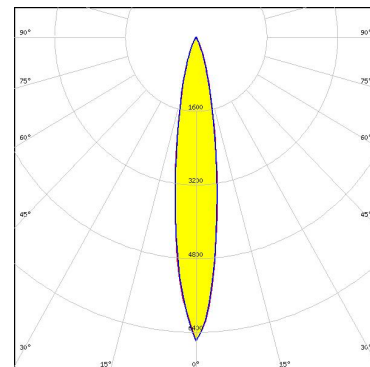


Light distribution files



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:

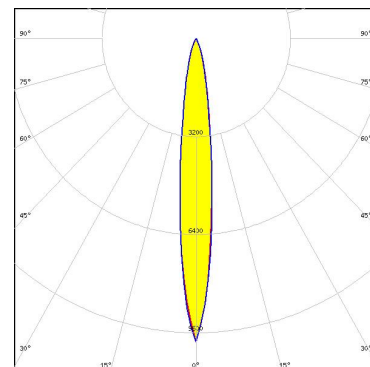
Bender Wirth: 637a Hekla



Light distribution files



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



Light distribution files

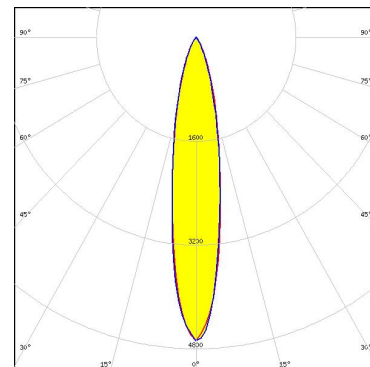
OPTICAL RESULTS (SIMULATED):



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

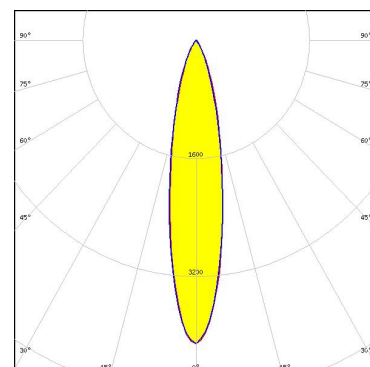
Light distribution files



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

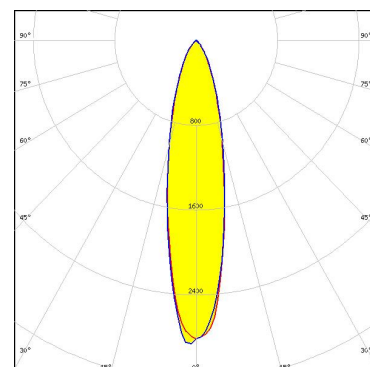
Light distribution files



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

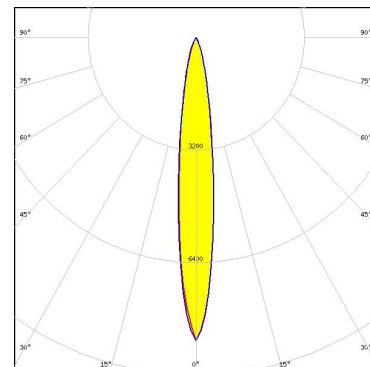
Light distribution files



OPTICAL RESULTS (SIMULATED):



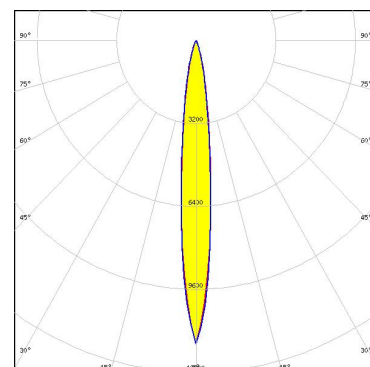
LED LUXEON CX Plus CoB L04 / L05 (Gen2)
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 14.0° / 34.0°
 Efficiency 93 %
 Peak intensity 8.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15254_HEKLA-SOCKET-B



Light distribution files



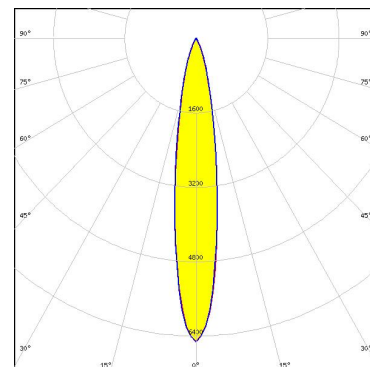
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 12.0° / 29.0°
 Efficiency 94 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15256_HEKLA-SOCKET-D



Light distribution files



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:



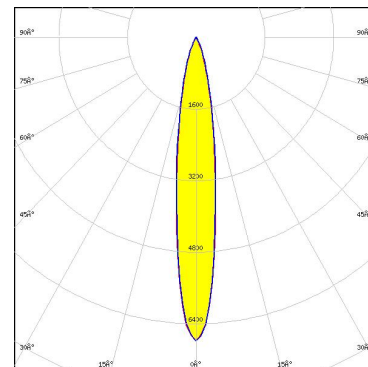
Light distribution files

Bender Wirth: 663a Hekla XL

OPTICAL RESULTS (SIMULATED):

PHILIPS

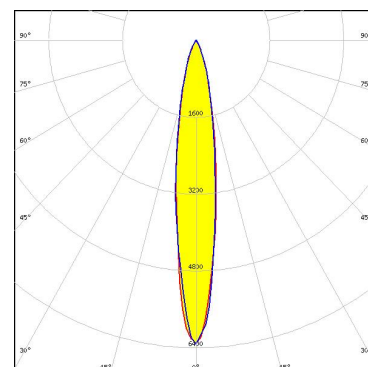
LED	Fortimo SLM L15 1919 CoB
Ordering code	CP18557_AMY-110-S-C
FWHM / FWTM	16.0° / 38.0°
Efficiency	91 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I



Light distribution files

SAMSUNG

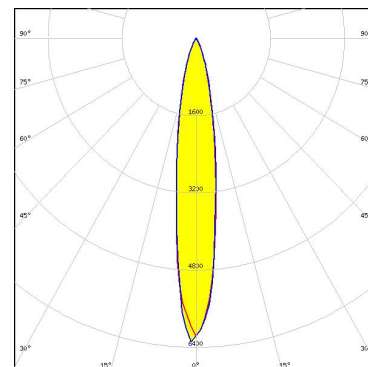
LED	LC016D / LC019D / LC026D / LC033D
Ordering code	CP19028_AMY-110-S-C-WHT
FWHM / FWTM	16.0° / 40.0°
Efficiency	96 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I



Light distribution files

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

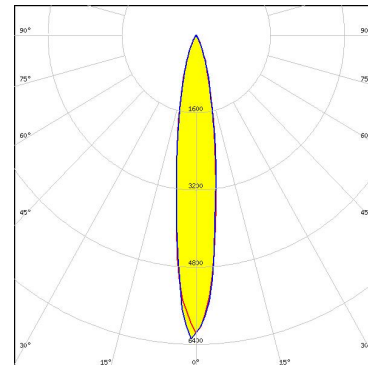


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

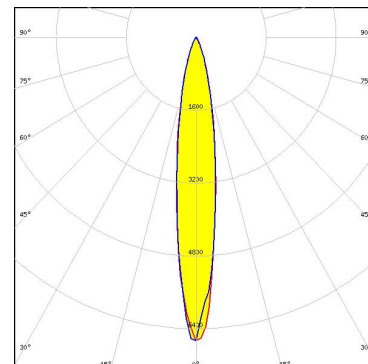
LED LC016D / LC019D / LC026D / LC033D
 Ordering code C18555_AMY-110-S
 FWHM / FWTM 16.0° / 40.0°
 Efficiency 92 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17438_HEKLA-G2-I



Light distribution files

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:

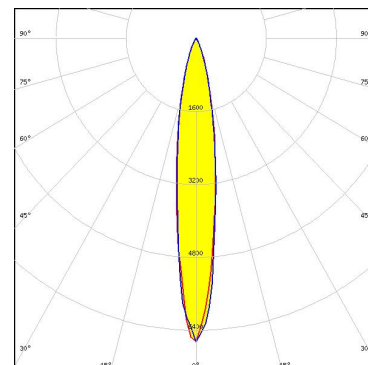


Light distribution files

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/type White
 Required components:



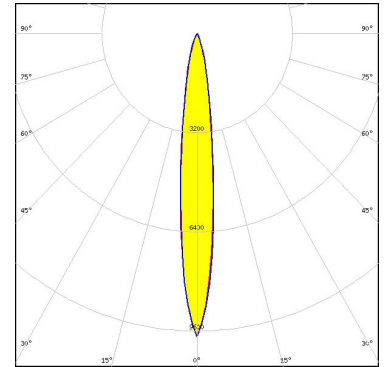
Light distribution files

BJB: 47.319.2021

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

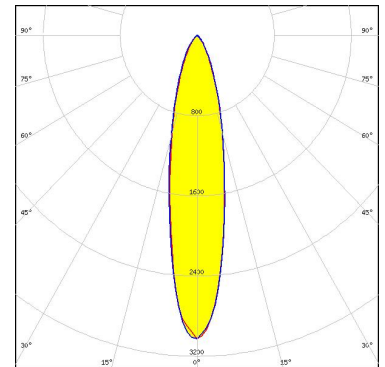


Light distribution files

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:

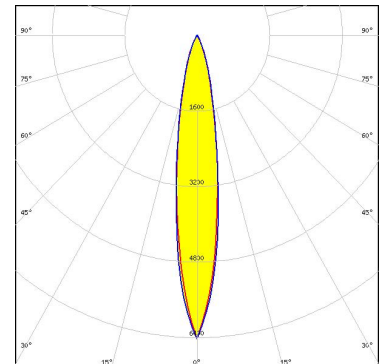


Light distribution files

Bender Wirth: 631b Hekla XL

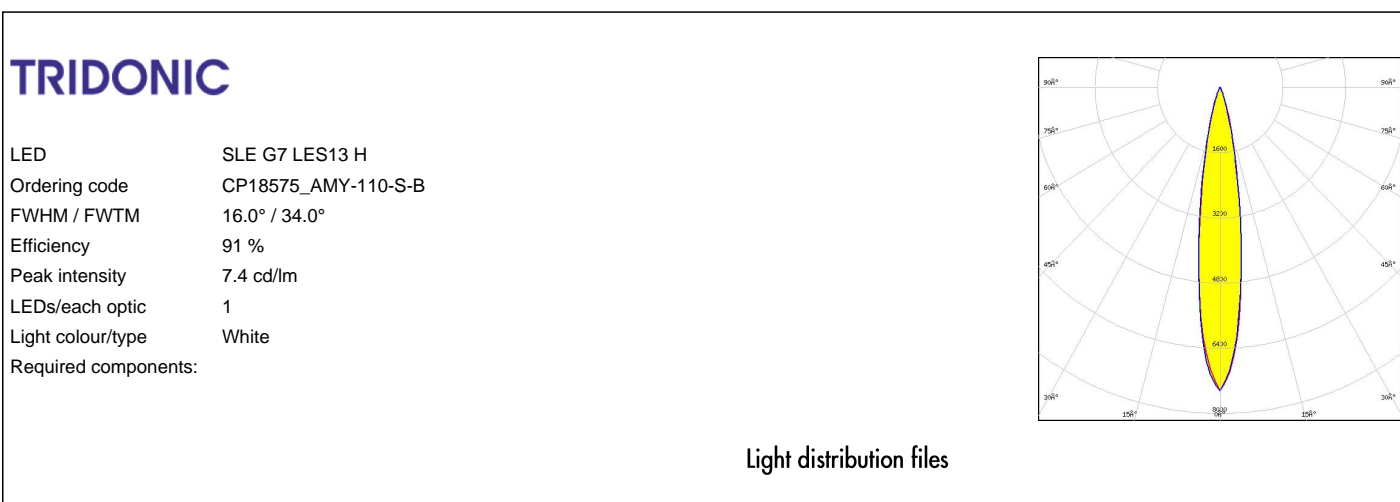
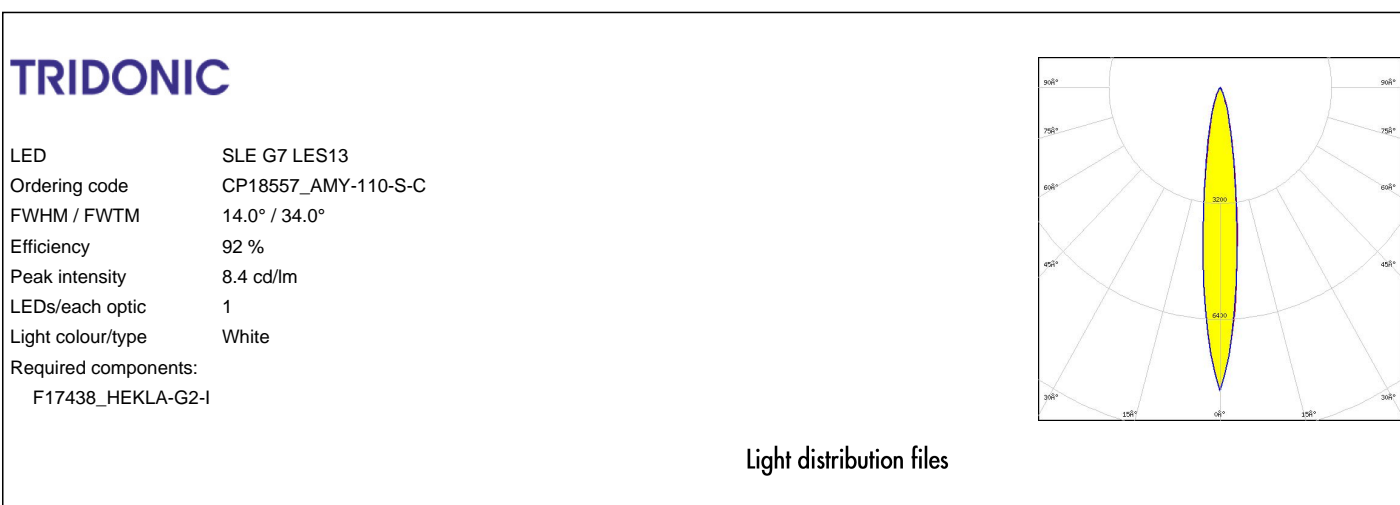


LED MJT COB LES 14.5
 Ordering code CP18557_AMY-110-S-C
 FWHM / FWTM 16.0° / 40.0°
 Efficiency 93 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files

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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