

AMY-70-WAS

Asymmetric beam for wall-washing

SPECIFICATION:

Dimensions	Ø 69.9
Height	11.8 mm
Fastening	socket
ROHS compliant	yes ⓘ

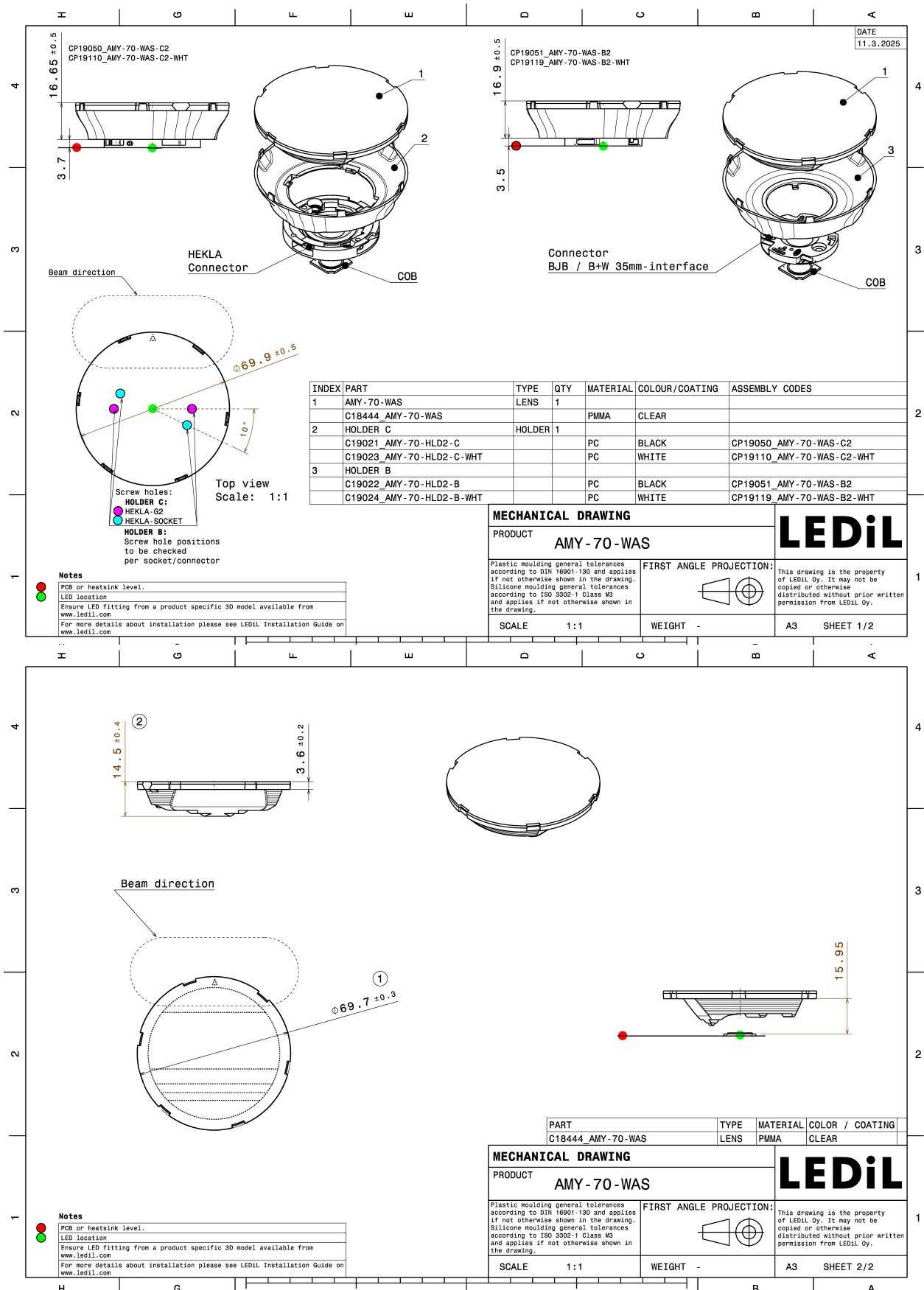
MATERIALS:



Component	Type	Material	Colour	Finish	Length (mm)
AMY-70-WAS	Single lens	PMMA	clear		
AMY-70-HLD2-C-ASYM	Holder C	PC	black		
AMY-70-HLD2-B-ASYM	Holder B	PC	black		
AMY-70-HLD2-C-WHT-ASYM	Holder C	PC	white		
AMY-70-HLD2-B-WHT-ASYM	Holder B	PC	white		
AMY-70-HLD2-B50-ASYM	Holder B	PC	black		
AMY-70-HLD2-B50-WHT-ASYM	Holder B	PC	white		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C18444_AMY-70-WAS	285	285	15	10.6
Assembly				
CP19658_AMY-70-WAS-B50-WHT	210	210	15	9.3
CP19650_AMY-70-WAS-B50	210	210	15	9.3
CP19119_AMY-70-WAS-B2-WHT	210	210	15	9.6
CP19110_AMY-70-WAS-C2-WHT	210	210	15	9.5
CP19051_AMY-70-WAS-B2	210	210	15	9.6
CP19050_AMY-70-WAS-C2	210	210	15	9.3

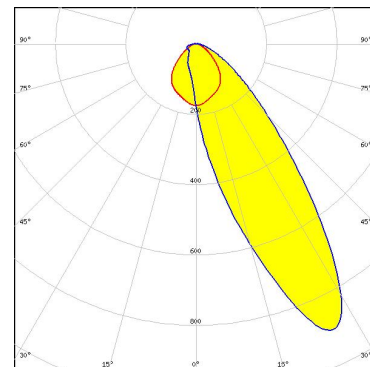


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

PHILIPS

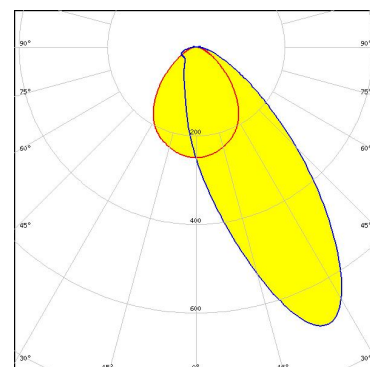
LED Fortimo SLM C TW L09A 1919 G7N
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 78 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



Light distribution files

SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 76 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17438_HEKLA-G2-I



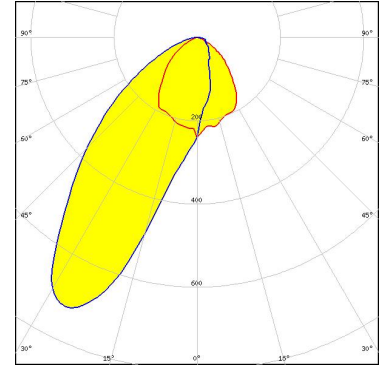
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED V18 Gen 8-9
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 78 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

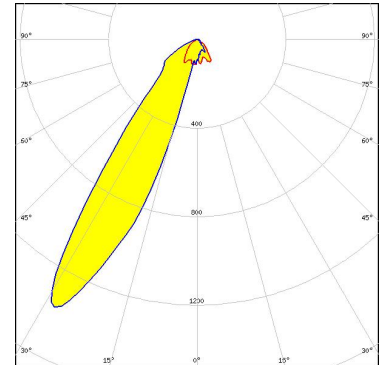
Bender Wirth: 639b Hekla XL



Light distribution files



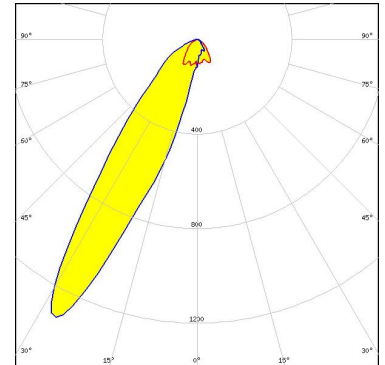
LED V3 HD Gen 8
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 86 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15253_HEKLA-SOCKET-A



Light distribution files



LED V6 HD Gen 8
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files

OPTICAL RESULTS (SIMULATED):



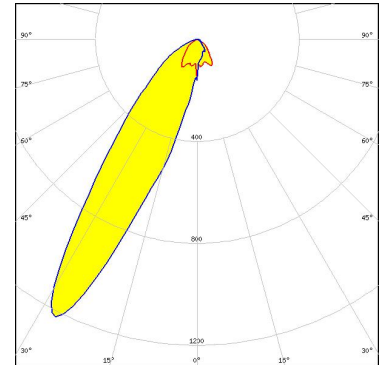
LED V6 HD Gen 8
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Bender Wirth: 634c Hekla

Light distribution files



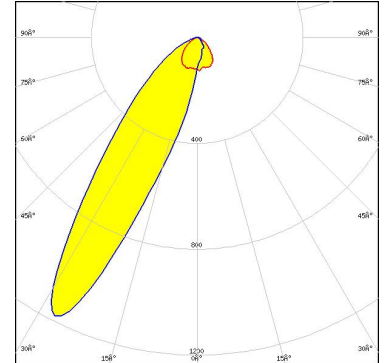
LED V9 HD Gen 8
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files



LED VERO10
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15616_HEKLA-SOCKET-F

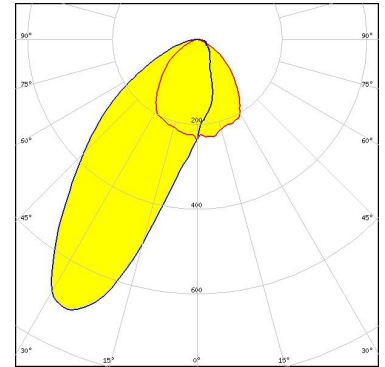


Light distribution files

OPTICAL RESULTS (SIMULATED):



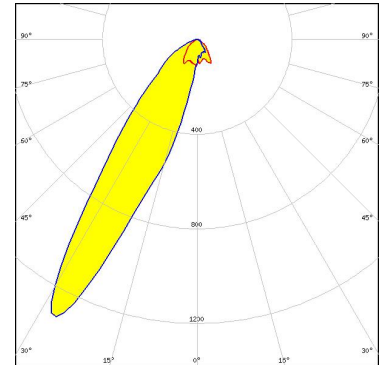
LED VERO18
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 81 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K



Light distribution files



LED Vesta DTW 6mm
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

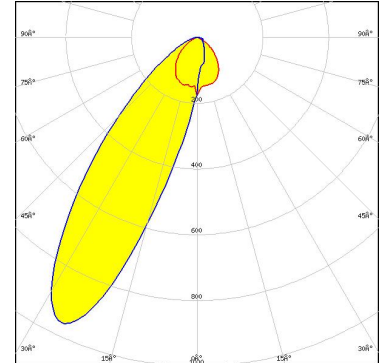


Bender Wirth: 652b Hekla

Light distribution files



LED Vesta SE 13mm TW
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 79 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

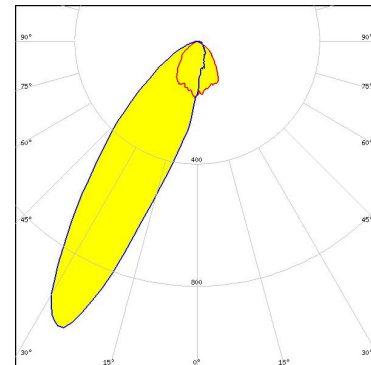


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED Vesta TW 13mm (18W) DP
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 82 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K

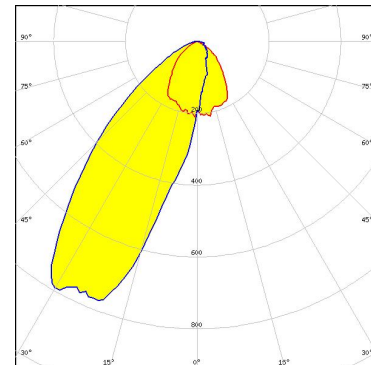


Light distribution files

Bender Wirth: 492 Typ L8



LED Vesta TW 15mm DP
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 82 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K

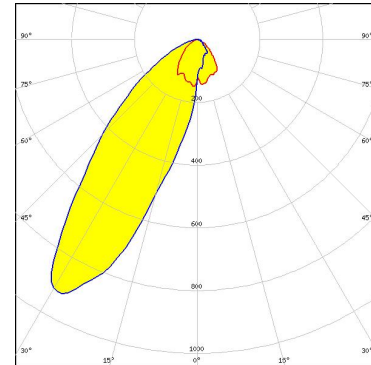


Light distribution files

Bender Wirth: 482 Typ L8



LED Vesta TW 9mm (9W) DP
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K



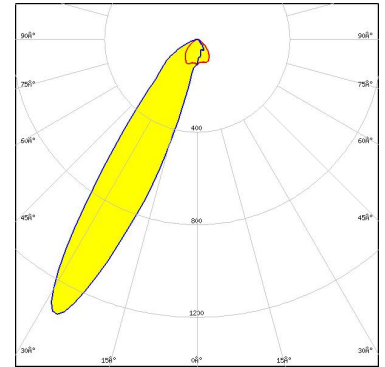
Light distribution files

Bender Wirth: 489 Typ L8

OPTICAL RESULTS (SIMULATED):



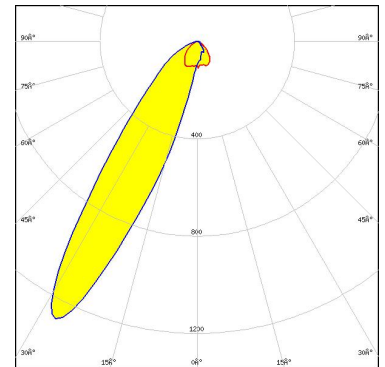
LED: CHA0410
 Ordering code: CP19050_AMY-70-WAS-C2
 FWHM / FWTM: Asymmetric
 Efficiency: 83 %
 Peak intensity: 1.3 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files



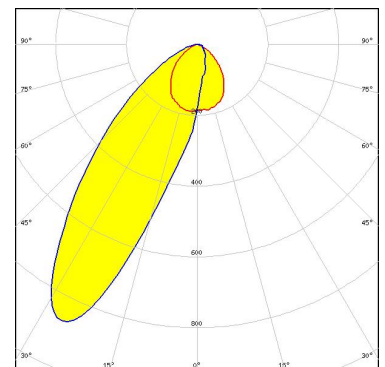
LED: CHA0612
 Ordering code: CP19050_AMY-70-WAS-C2
 FWHM / FWTM: Asymmetric
 Efficiency: 83 %
 Peak intensity: 1.3 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files



LED: CMA1840
 Ordering code: CP19050_AMY-70-WAS-C2
 FWHM / FWTM: Asymmetric
 Efficiency: 80 %
 Peak intensity: 0.9 cd/lm
 LEDs/each optic: 1
 Light colour/type: White
 Required components:



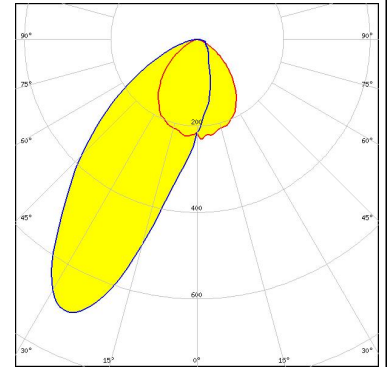
Light distribution files

Bender Wirth: 637a Hekla

OPTICAL RESULTS (SIMULATED):



LED CMA2550
Ordering code CP19050_AMY-70-WAS-C2
FWHM / FWTM Asymmetric
Efficiency 77 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

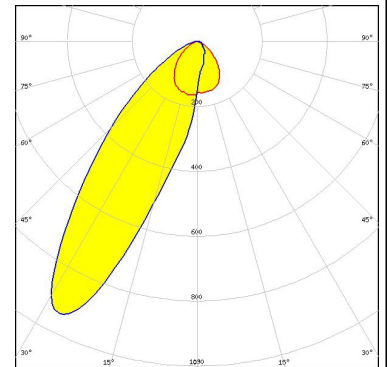


Bender Wirth: 639a Hekla XL

Light distribution files



LED CMB1818-25
Ordering code CP19050_AMY-70-WAS-C2
FWHM / FWTM Asymmetric
Efficiency 82 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

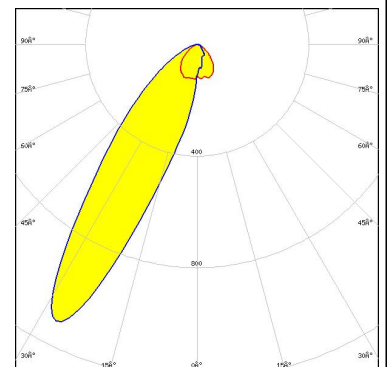


Bender Wirth: 637a Hekla

Light distribution files



LED CMU10xx
Ordering code CP19050_AMY-70-WAS-C2
FWHM / FWTM Asymmetric
Efficiency 83 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17435_HEKLA-G2-C

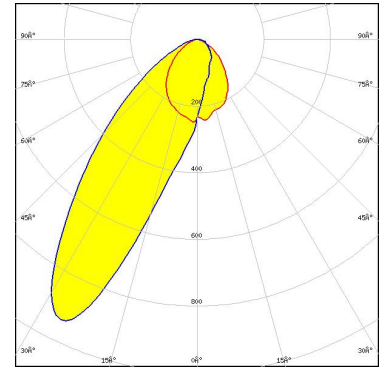


Light distribution files

OPTICAL RESULTS (SIMULATED):



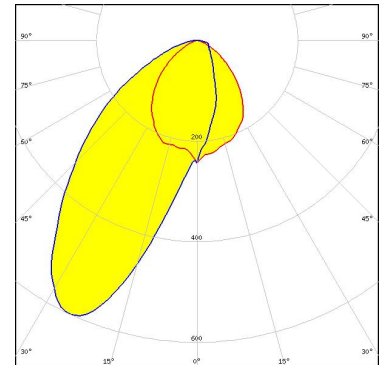
LED CMU15xx
FWHM / FWTM Asymmetric
Efficiency 91 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files



LED CMU22xx
Ordering code CP19050_AMY-70-WAS-C2
FWHM / FWTM Asymmetric
Efficiency 72 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

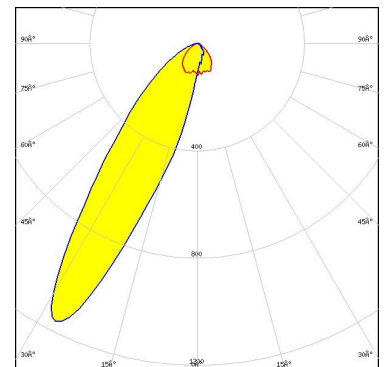


Bender Wirth: 631b Hekla XL

Light distribution files



LED CXA/B 15xx
Ordering code CP19050_AMY-70-WAS-C2
FWHM / FWTM Asymmetric
Efficiency 82 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17436_HEKLA-G2-D

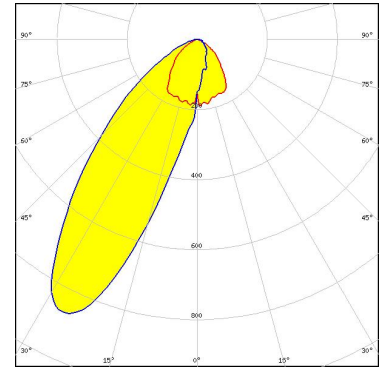


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED LUXEON CX Plus CoB L08 (Gen2)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

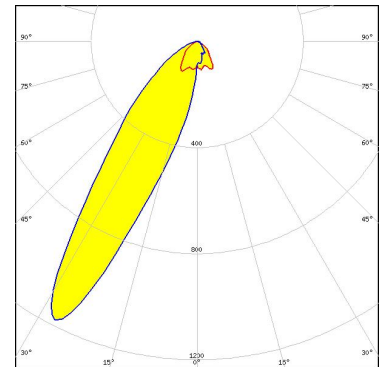


Bender Wirth: 637a Hekla

Light distribution files



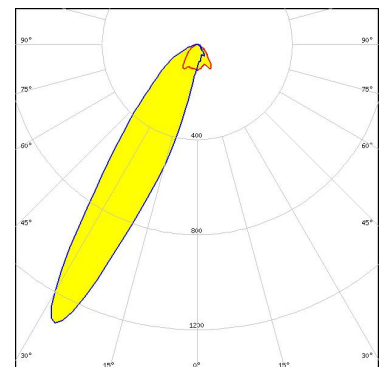
LED LUXEON CoB 1202/1203
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15858_HEKLA-SOCKET-H



Light distribution files



LED LUXEON CoB 1202HD
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15848_HEKLA-SOCKET-G

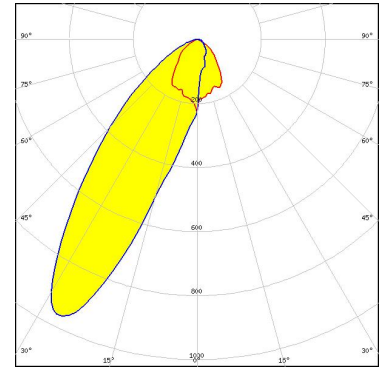


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED LUXEON CoB 1204/1205
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

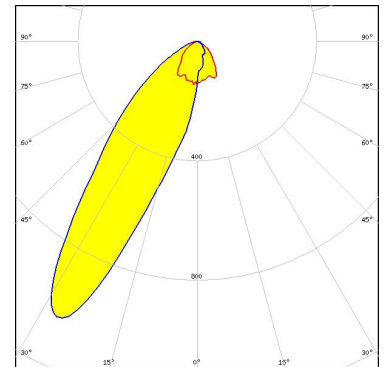


Bender Wirth: 632a Hekla XL

Light distribution files



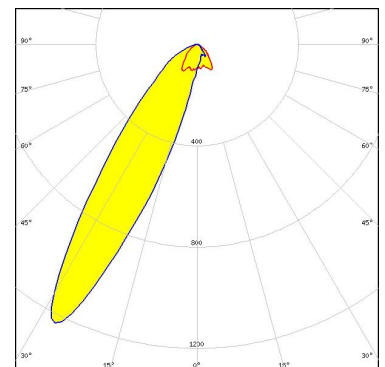
LED LUXEON CoB 1205HD
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15858_HEKLA-SOCKET-H



Light distribution files



LED LUXEON CX Plus CoB - HD S02H6
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



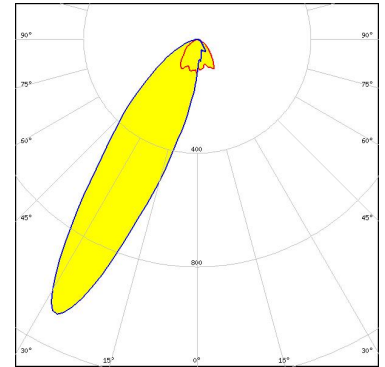
Bender Wirth: 634c Bayonet35L

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED LUXEON CX Plus CoB - HD S04H9
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

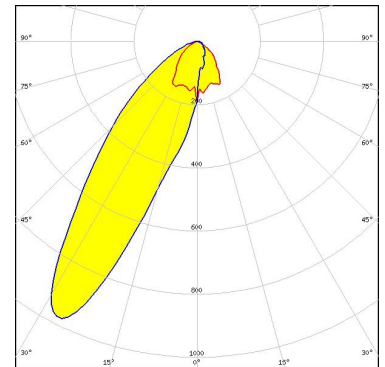


Bender Wirth: 634a Bayonet35L

Light distribution files



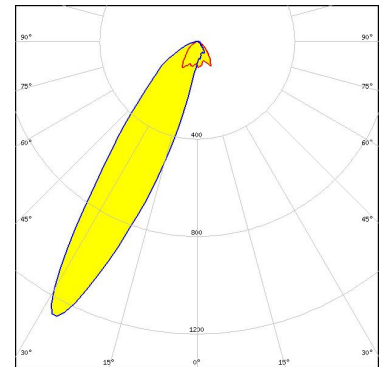
LED LUXEON CX Plus CoB L04 / L05 (Gen2)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15254_HEKLA-SOCKET-B



Light distribution files



LED LUXEON CX Plus CoB S01 (Gen2)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15956_HEKLA-SOCKET-J

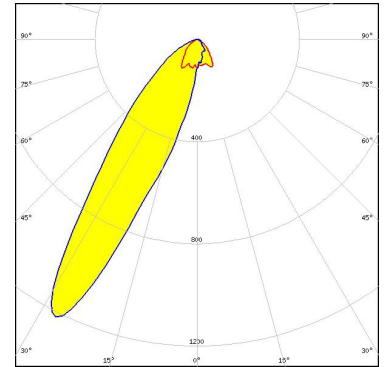


Light distribution files

OPTICAL RESULTS (SIMULATED):



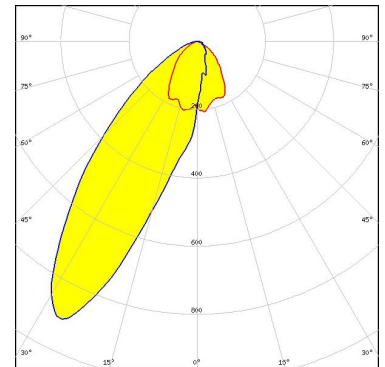
LED CHM-9 XH (19x19)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files



LED CTM-14 (Tunable White) Gen2
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

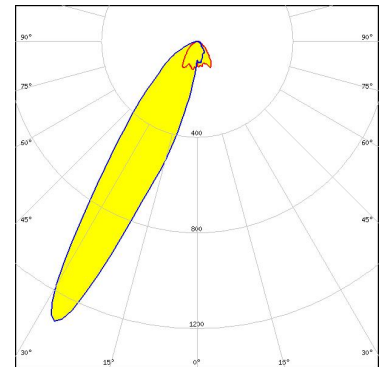


Light distribution files

Bender Wirth: 442 Typ L8



LED CTM-6 (Tunable White) Gen2
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K



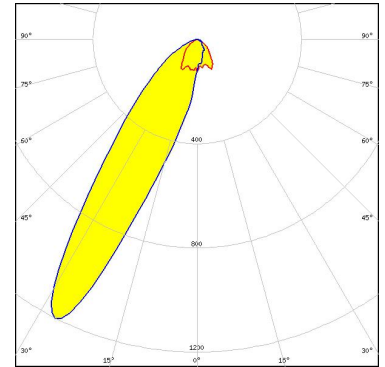
Light distribution files

Bender Wirth: 495 Typ L8

OPTICAL RESULTS (SIMULATED):



LED CTM-9 (Tunable White) Gen2
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

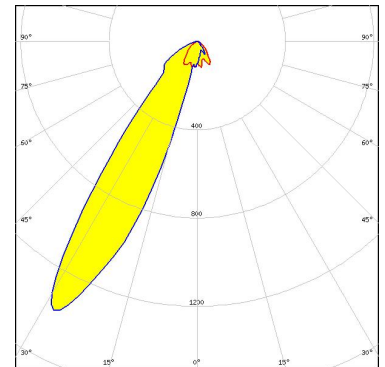


Light distribution files

Bender Wirth: 495 Typ L8



LED CXM-3
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

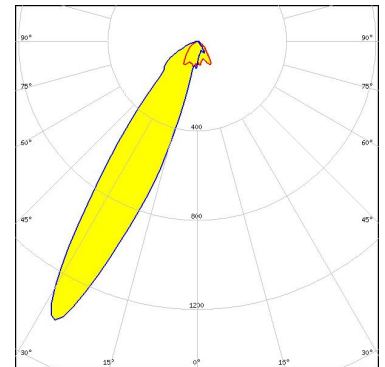


Light distribution files

Bender Wirth: 634a Bayonet35L



LED CXM-4
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



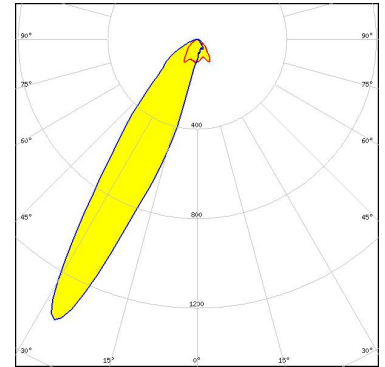
Light distribution files

Bender Wirth: 634a Bayonet35L

OPTICAL RESULTS (SIMULATED):



LED CxM-6 (13.5x13.5)
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

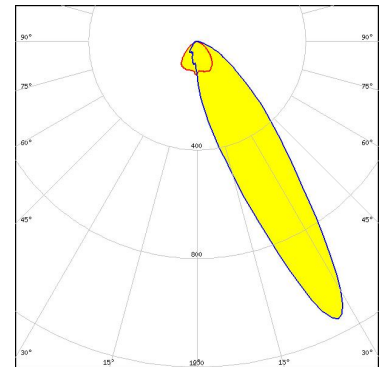


BJB: 47.360.1020

Light distribution files



LED CxM-9 (13.5x13.5)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 82 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

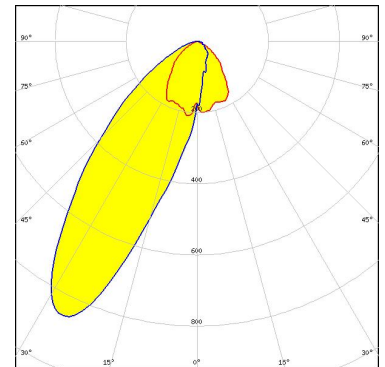


Bender Wirth: 634a Lena

Light distribution files



LED COB J-Type
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



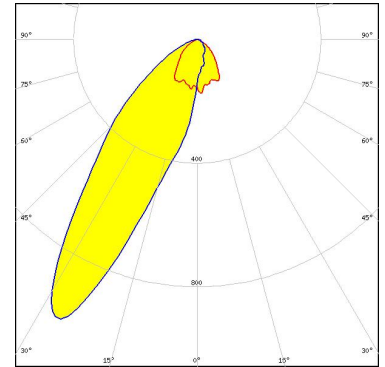
Bender Wirth: 663a Hekla XL

Light distribution files

OPTICAL RESULTS (SIMULATED):



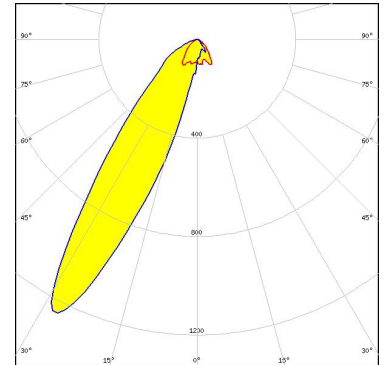
LED COB L-Type (LES 11)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15858_HEKLA-SOCKET-H



Light distribution files



LED COB S-Type (LES 6)
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

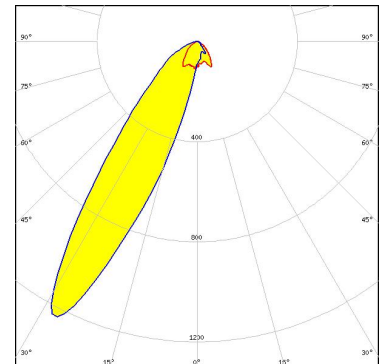


Light distribution files

Bender Wirth: 652a Bayonet35L



LED COB S-Type (LES 7)
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



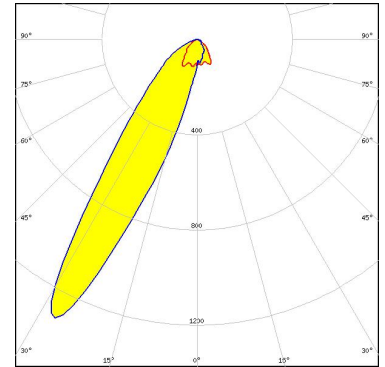
Light distribution files

Bender Wirth: 652a Bayonet35L

OPTICAL RESULTS (SIMULATED):



LED NJCWL024Z-V1MT: COB L-Type Tunable White
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

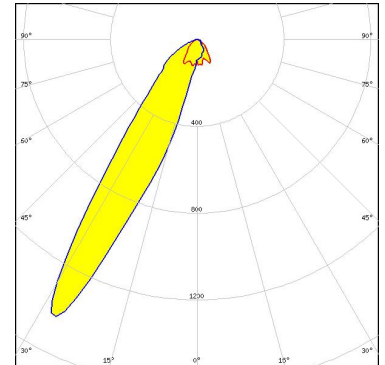


Light distribution files

Bender Wirth: 497 Typ L8 HV



LED NJNWS012Z-V1MT: COB S-Type Tunable White
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

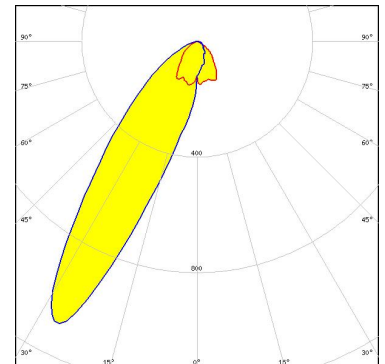


Light distribution files

Bender Wirth: 495 Typ L8 HV



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K



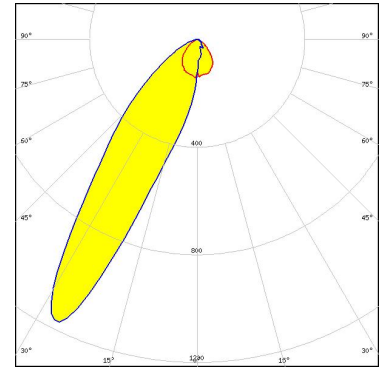
Light distribution files

Bender Wirth: 498 Typ L8 HV

OPTICAL RESULTS (SIMULATED):

SAMSUNG

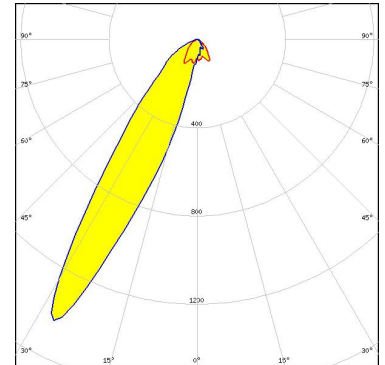
LED LC003D / LC006D / LC009D / LC013D
 Ordering code C18444_AMY-70-WAS
 FWHM / FWTM Asymmetric
 Efficiency 82 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

SAMSUNG

LED LC010C G2
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

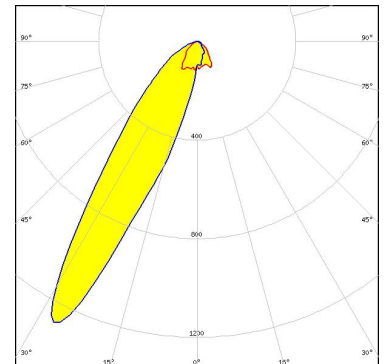


Light distribution files

BJB: 47.360.1020

SAMSUNG

LED LC010T (Tunable White)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:



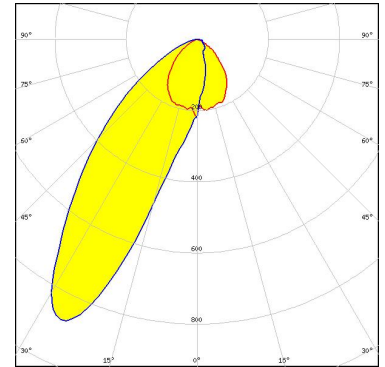
Light distribution files

Bender Wirth: 501 Typ L8

OPTICAL RESULTS (SIMULATED):

SAMSUNG

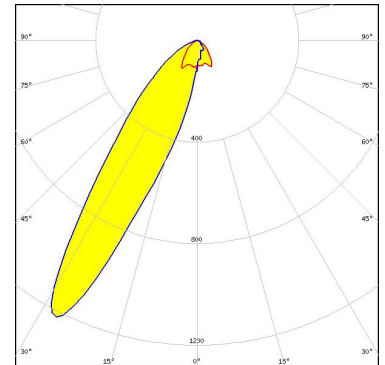
LED LC016D / LC019D / LC026D / LC033D
 FWHM / FWTM Asymmetric
 Efficiency 80 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17438_HEKLA-G2-I



Light distribution files

SAMSUNG

LED LC020C G2
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

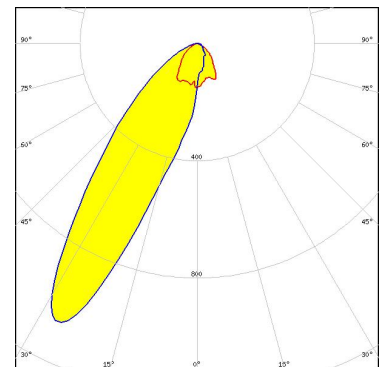


Light distribution files

BJB: 47.360.1010

SAMSUNG

LED LC020T (Tunable white)
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 84 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K



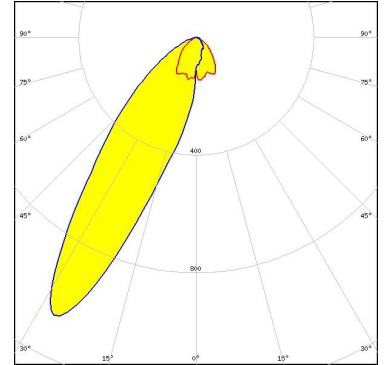
Light distribution files

Bender Wirth: 501 Typ L8

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LC030C/040C G2
 Ordering code CP19051_AMY-70-WAS-B2
 FWHM / FWTM Asymmetric
 Efficiency 82 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

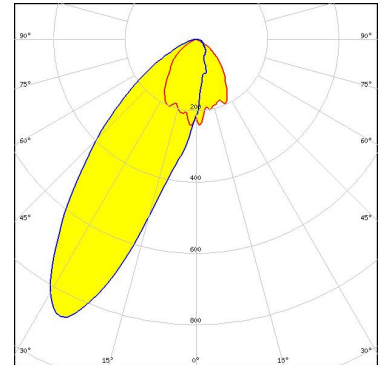


BJB: 47.360.1010

Light distribution files



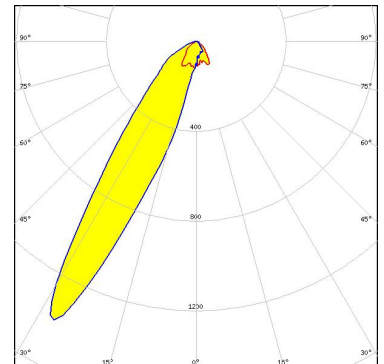
LED MJT COB LES 14.5
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 83 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I



Light distribution files

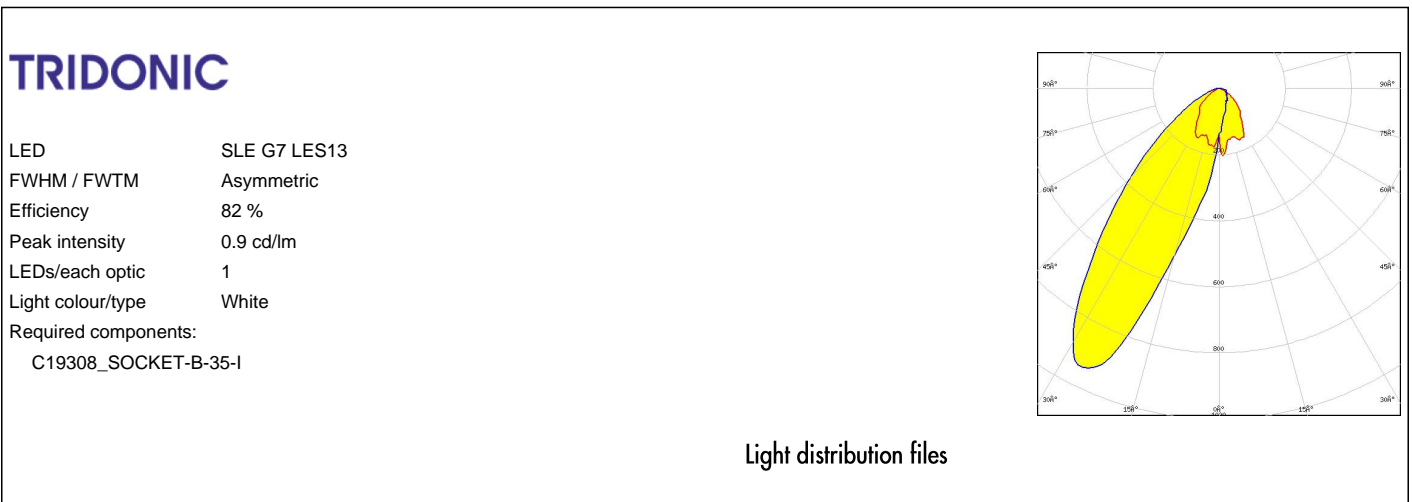


LED MJT COB LES 6
 Ordering code CP19050_AMY-70-WAS-C2
 FWHM / FWTM Asymmetric
 Efficiency 85 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files

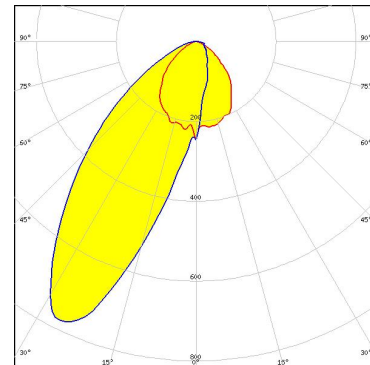
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

XICATO

LED	XIM - 19mm LES
Ordering code	CP19050_AMY-70-WAS-C2
FWHM / FWTM	Asymmetric
Efficiency	81 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	C16058_XTM-ADAPTER-50-C



Light distribution files

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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