

AMY-50-O

~20 + 50° oval beam

SPECIFICATION:

Dimensions	Ø 49.9
Height	11 mm
Fastening	socket
ROHS compliant	yes ⓘ

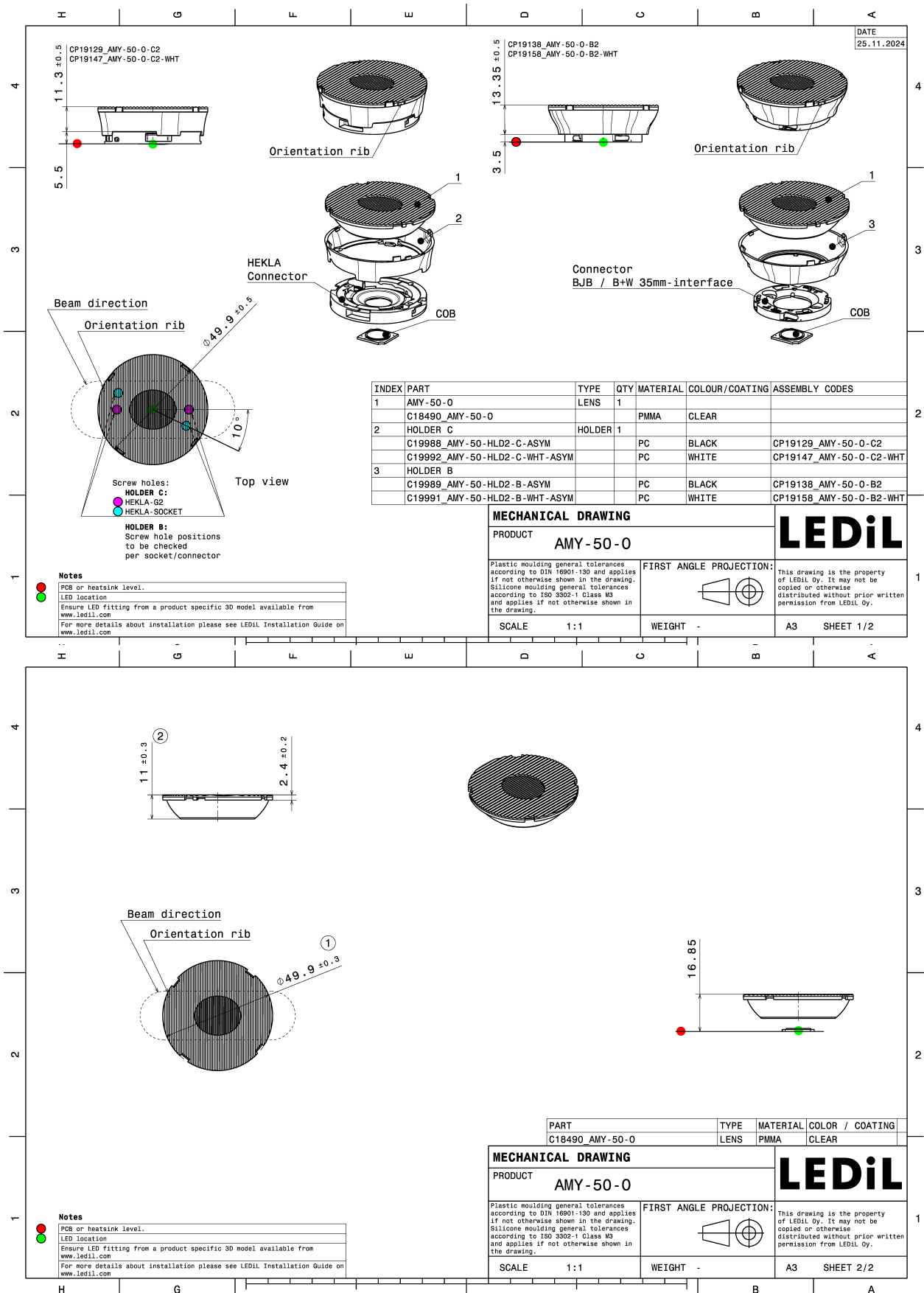
MATERIALS:



Component	Type	Material	Colour	Finish	Length (mm)
AMY-50-O	Single lens	PMMA	clear		
AMY-50-HLD2-C-ASYM	Holder C	PC	black		
AMY-50-HLD2-B-ASYM	Holder B	PC	black		
AMY-50-HLD2-C-WHT-ASYM	Holder C	PC	white		
AMY-50-HLD2-B-WHT-ASYM	Holder B	PC	white		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C18490_AMY-50-O	690	120	30	9.7
Assembly				
CP19158_AMY-50-O-B2-WHT	510	120	30	8.9
CP19147_AMY-50-O-C2-WHT	510	120	30	8.5
CP19138_AMY-50-O-B2	510	120	30	8.9
CP19129_AMY-50-O-C2	510	120	30	8.5

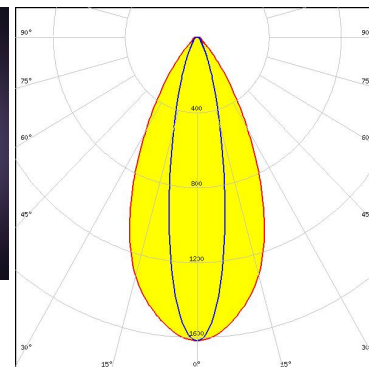
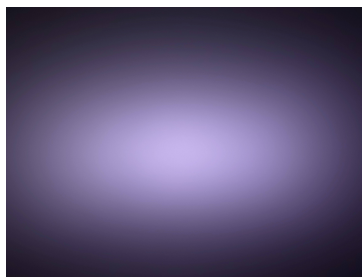


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



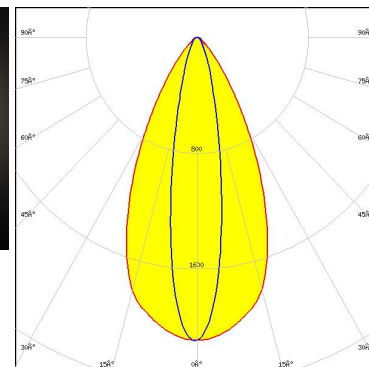
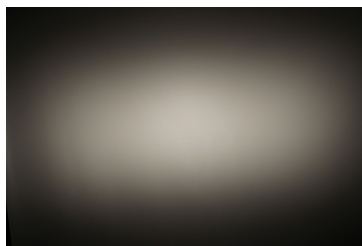
LED Vesta RGBW 10mm CSP
Ordering code CP19129_AMY-50-O-C2
FWHM / FWTM 51.0 + 22.0° / 85.0 + 50.0°
Efficiency 78 %
Peak intensity 1.6 cd/lm
LEDs/each optic 28
Light colour/type RGBW
Required components:
 C19950_HEKLA-SOCKET-RZ



Light distribution files

CITIZEN

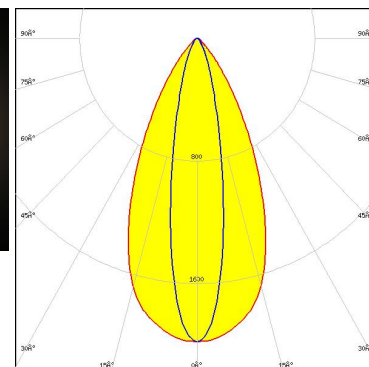
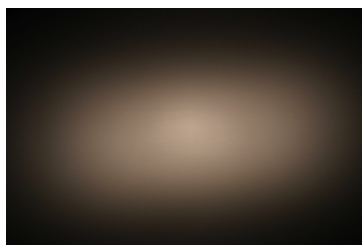
LED CLU02x (LES10)
Ordering code CP19147_AMY-50-O-C2-WHT
FWHM / FWTM 52.0 + 20.0° / 84.0 + 47.0°
Efficiency 95 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F17435_HEKLA-G2-C



Light distribution files

CITIZEN

LED CLU02x (LES10)
Ordering code CP19129_AMY-50-O-C2
FWHM / FWTM 51.0 + 21.0° / 83.0 + 48.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type White
Required components:
 F17435_HEKLA-G2-C

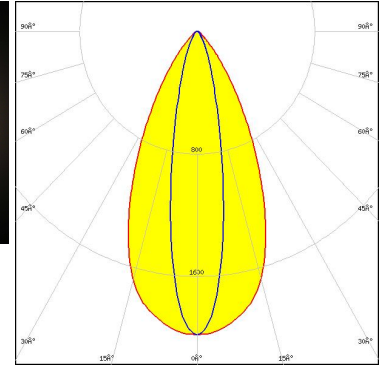


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

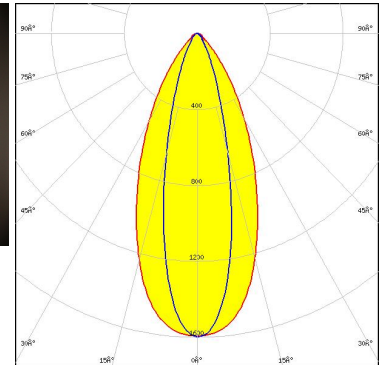
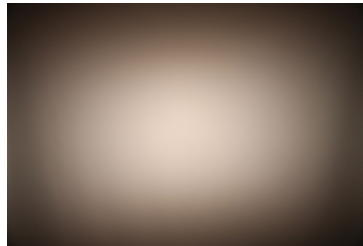
LED CLU02x (LES10)
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 51.0 + 21.0° / 83.0 + 48.0°
 Efficiency 88 %
 LEDs/each optic 1
 Light colour/type White
 Required components:
 BJB: 47.360.1020



Light distribution files



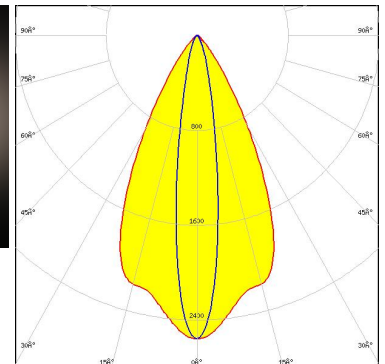
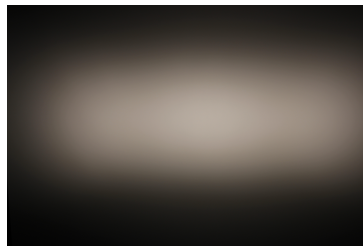
LED CTM-14 (Tunable White) Gen2
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 47.0 + 26.0° / 87.0 + 56.0°
 Efficiency 85 %
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 442 Typ L8



Light distribution files

PHILIPS

LED Fortimo SLM C TW L06A 1313 G7N
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 53.0 + 16.0° / 79.0 + 38.0°
 Efficiency 89 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 508 Typ L8

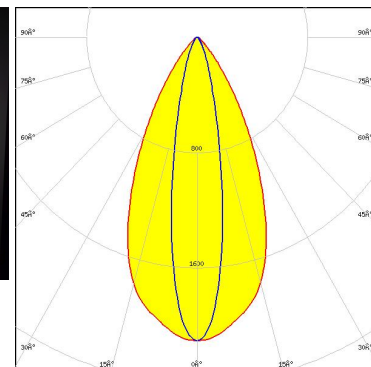
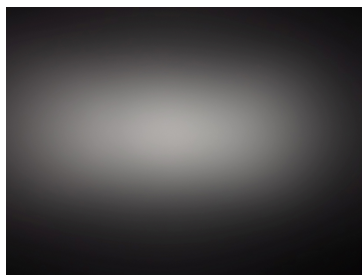


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

LED Fortimo SLM C TW L09A 1919 G7N
Ordering code CP19129_AMY-50-O-C2
FWHM / FWTM 51.0 + 20.0° / 83.0 + 45.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



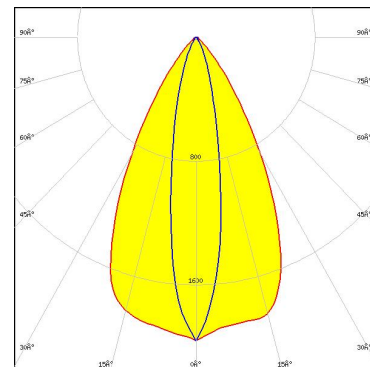
Light distribution files

OPTICAL RESULTS (SIMULATED):



LED V10 Gen 8-9
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 57.0 + 20.0° / 85.0 + 45.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

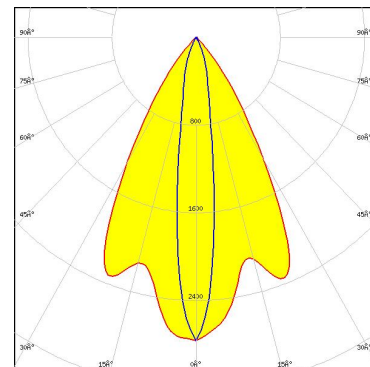
BJB: 47.360.1020



Light distribution files



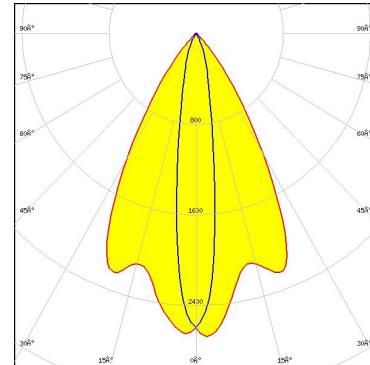
LED V3 HD Gen 8
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 14.0° / 82.0 + 40.0°
 Efficiency 92 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15253_HEKLA-SOCKET-A



Light distribution files



LED V4 HD Gen 8
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 16.0° / 82.0 + 40.0°
 Efficiency 92 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15253_HEKLA-SOCKET-A

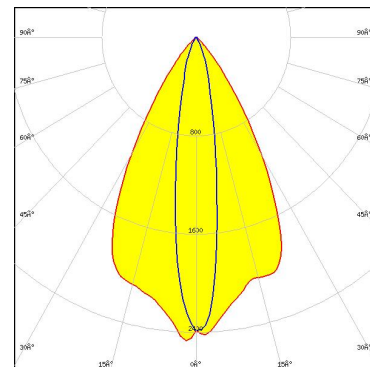


Light distribution files

OPTICAL RESULTS (SIMULATED):



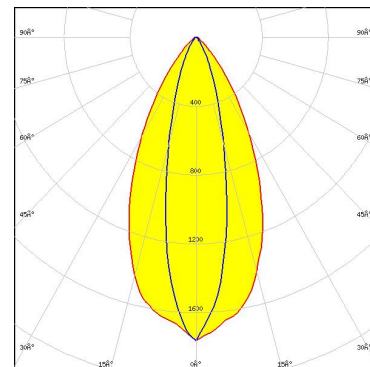
LED V6 HD Gen 8
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 16.0° / 83.0 + 41.0°
 Efficiency 91 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files



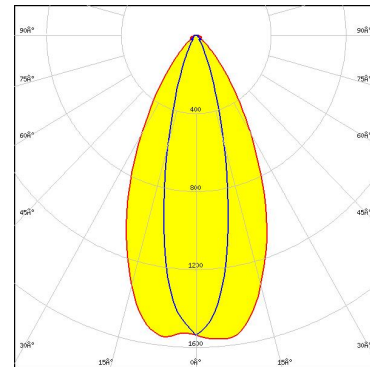
LED VERO13
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 51.0 + 24.0° / 86.0 + 54.0°
 Efficiency 88 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16142_HEKLA-SOCKET-K



Light distribution files



LED Vesta SE 13mm TW
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 52.0 + 26.0° / 88.0 + 50.0°
 Efficiency 81 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

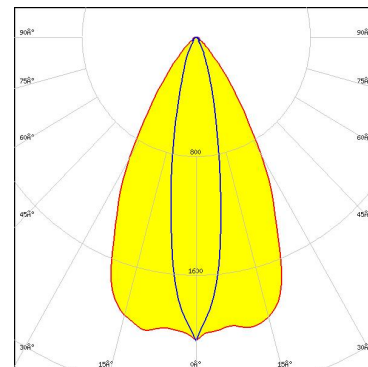


Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

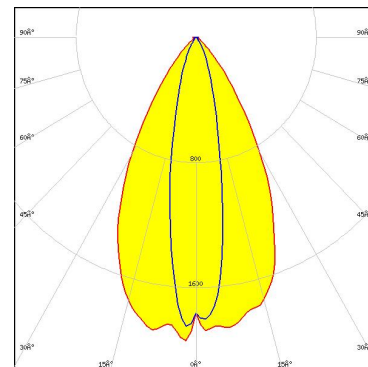
LED CLU02x (LES10)
 Ordering code CP19147_AMY-50-O-C2-WHT
 FWHM / FWTM 58.0 + 20.0° / 86.0 + 44.0°
 Efficiency 95 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files

CITIZEN

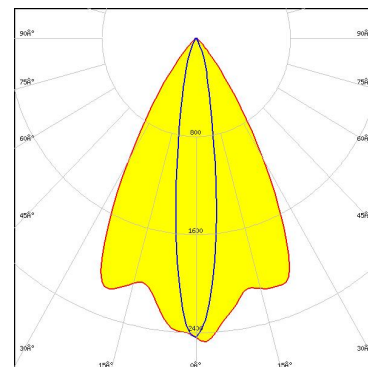
LED CLU02x (LES10)
 Ordering code C18490_AMY-50-O
 FWHM / FWTM 56.0 + 22.0° / 86.0 + 48.0°
 Efficiency 91 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files

CITIZEN

LED CLU700/701/702/703
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 16.0° / 82.0 + 40.0°
 Efficiency 89 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files

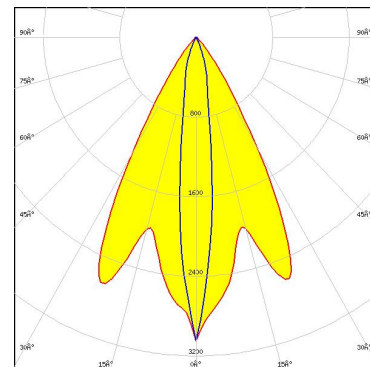
OPTICAL RESULTS (SIMULATED):

CITIZEN

LED CLU700/701/702/703
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 12.0° / 78.0 + 38.0°
 Efficiency 90 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.360.1020

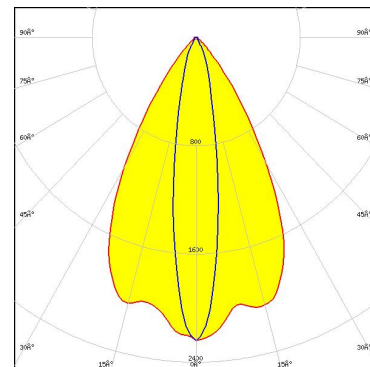
Light distribution files



CITIZEN

LED CLU700/701/702/703
 Ordering code C18490_AMY-50-O
 FWHM / FWTM 60.0 + 18.0° / 86.0 + 43.0°
 Efficiency 92 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17435_HEKLA-G2-C

Light distribution files

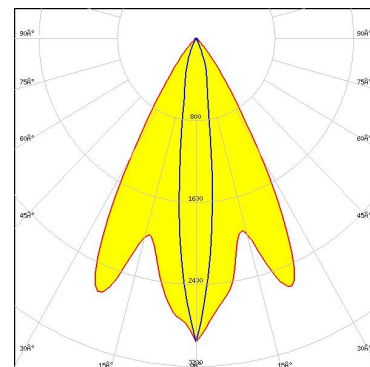


CITIZEN

LED CLU7B2
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 14.0° / 78.0 + 38.0°
 Efficiency 90 %
 Peak intensity 3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.360.1020

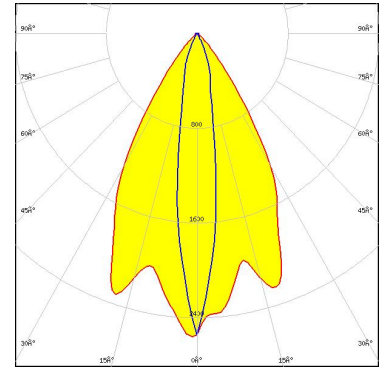
Light distribution files



OPTICAL RESULTS (SIMULATED):

CITIZEN

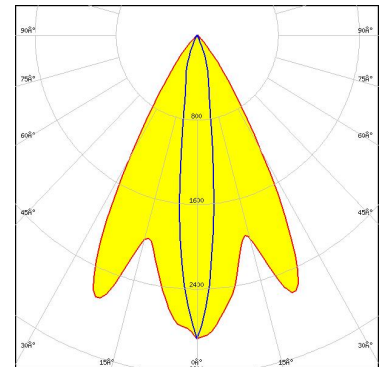
LED CLU7B2
 Ordering code C18490_AMY-50-O
 FWHM / FWTM 60.0 + 16.0° / 84.0 + 44.0°
 Efficiency 93 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files

CITIZEN

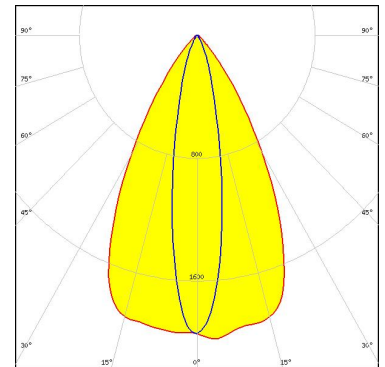
LED CLU7B2
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 14.0° / 79.0 + 38.0°
 Efficiency 90 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17435_HEKLA-G2-C



Light distribution files



LED CMB15xx
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 20.0° / 84.0 + 44.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17436_HEKLA-G2-D



Light distribution files

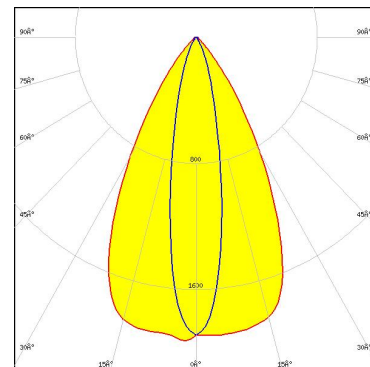
OPTICAL RESULTS (SIMULATED):



LED CMU10xx
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 20.0° / 84.0 + 46.0°
 Efficiency 88 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

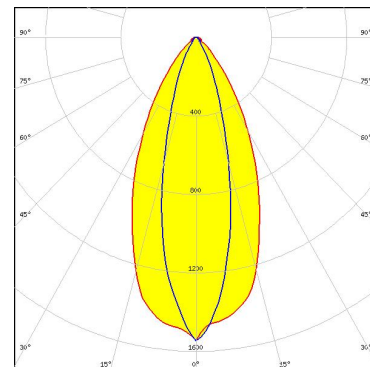
BJB: 47.360.1020

Light distribution files



LED CMU15xx
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 50.0 + 27.0° / 88.0 + 56.0°
 Efficiency 85 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17438_HEKLA-G2-I

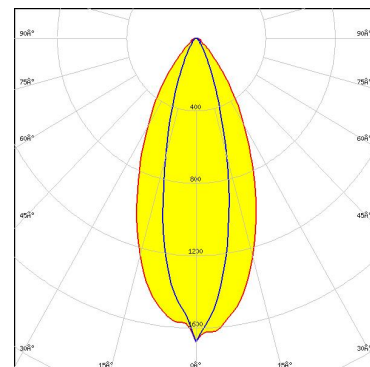
Light distribution files



LED LUXEON CX Plus CoB L08 (Gen2)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 47.0 + 26.0° / 86.0 + 54.0°
 Efficiency 87 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Bender Wirth: 637a Hekla

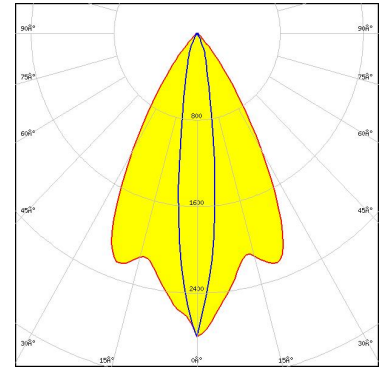
Light distribution files



OPTICAL RESULTS (SIMULATED):



LED LUXEON CX Plus CoB - HD S01H4
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 14.0° / 82.0 + 36.0°
 Efficiency 91 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

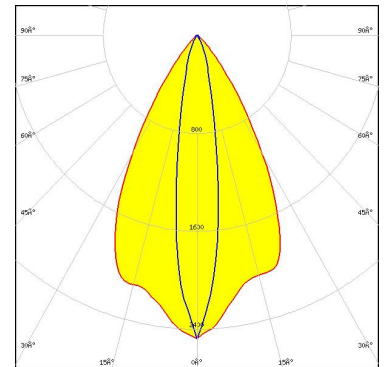


Bender Wirth: 634c Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB - HD S02H6
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 16.0° / 83.0 + 40.0°
 Efficiency 91 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

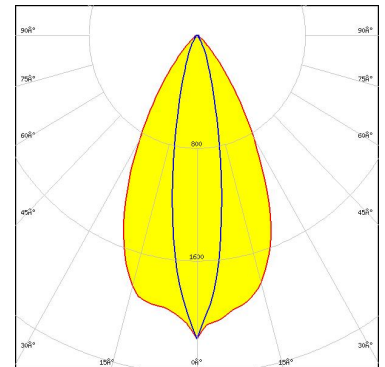


Bender Wirth: 634c Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB - HD S04H9
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 54.0 + 20.0° / 84.0 + 44.0°
 Efficiency 89 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

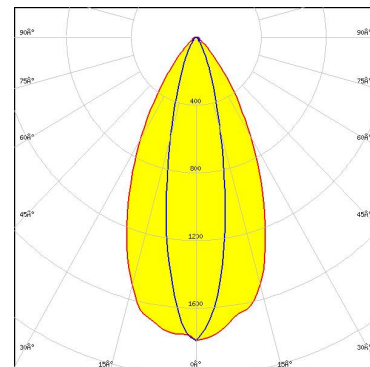


Light distribution files

OPTICAL RESULTS (SIMULATED):



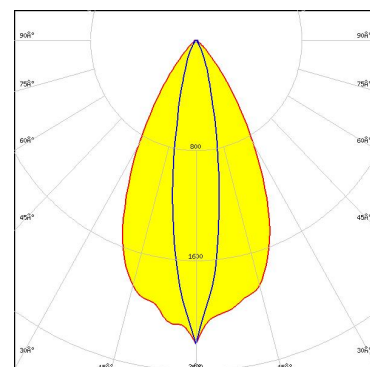
LED LUXEON CX Plus CoB L04 / L05 (Gen2)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 52.0 + 23.0° / 86.0 + 50.0°
 Efficiency 87 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15254_HEKLA-SOCKET-B



Light distribution files



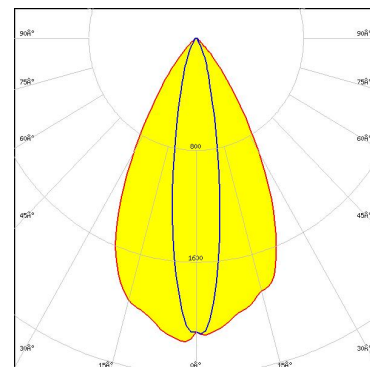
LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 54.0 + 18.0° / 84.0 + 44.0°
 Efficiency 89 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15256_HEKLA-SOCKET-D



Light distribution files



LED CHM-11 XH (19x19)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 56.0 + 18.0° / 84.0 + 44.0°
 Efficiency 89 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I

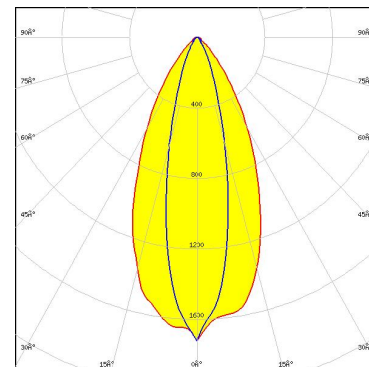


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED CTM-14 (Tunable White) Gen2
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 48.0 + 24.0° / 86.0 + 52.0°
 Efficiency 86 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

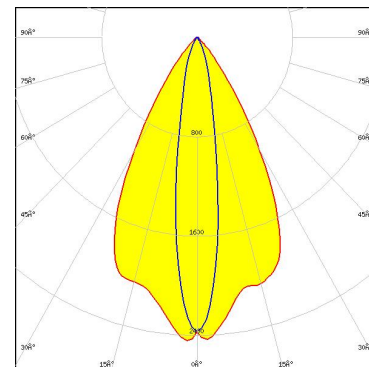


Light distribution files

Bender Wirth: 442 Typ L8



LED CTM-6 (Tunable White) Gen2
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 57.0 + 16.0° / 82.0 + 41.0°
 Efficiency 90 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

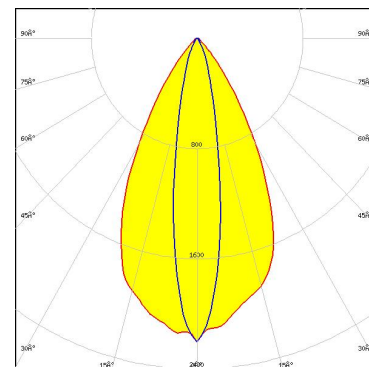


Light distribution files

Bender Wirth: 495 Typ L8



LED CTM-9 (Tunable White) Gen2
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 54.0 + 18.0° / 82.0 + 43.0°
 Efficiency 88 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K



Light distribution files

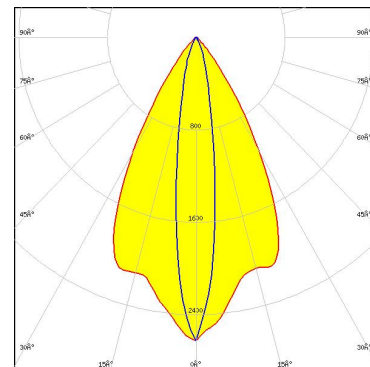
Bender Wirth: 495 Typ L8

OPTICAL RESULTS (SIMULATED):



LED CxM-6 (13.5x13.5)
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 56.0 + 15.0° / 82.0 + 38.0°
 Efficiency 90 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

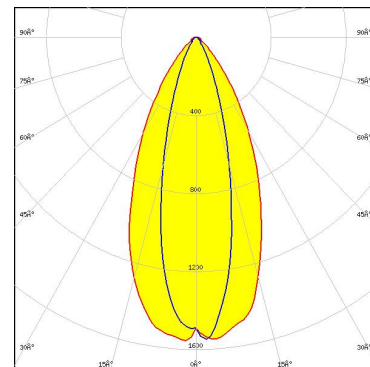
BJB: 47.360.1020



Light distribution files



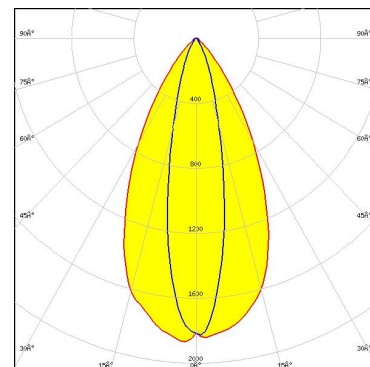
LED COB J-Type
 Ordering code CP19126_AMY-50-WW-C2
 FWHM / FWTM 50.0 + 28.0° / 88.0 + 56.0°
 Efficiency 87 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED COB L-Type (LES 11)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 54.0 + 22.0° / 86.0 + 49.0°
 Efficiency 88 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15858_HEKLA-SOCKET-H

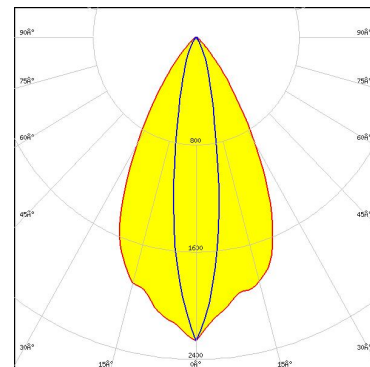


Light distribution files

OPTICAL RESULTS (SIMULATED):



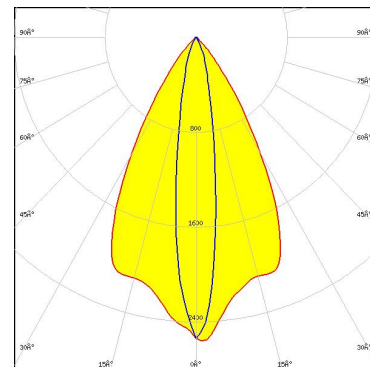
LED COB L-Type (LES 9)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 55.0 + 18.0° / 84.0 + 43.0°
 Efficiency 90 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15858_HEKLA-SOCKET-H



Light distribution files



LED COB S-Type (LES 6)
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 16.0° / 82.0 + 40.0°
 Efficiency 91 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

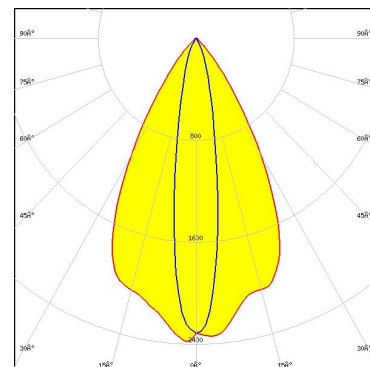


Light distribution files

Bender Wirth: 652a Bayonet35L



LED COB S-Type (LES 7)
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 18.0° / 84.0 + 42.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



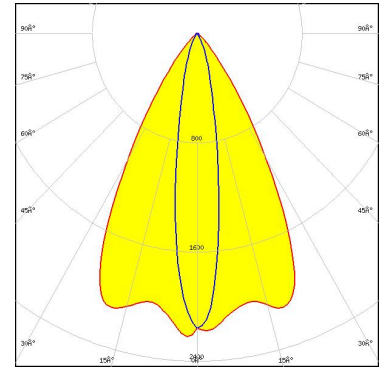
Light distribution files

Bender Wirth: 652a Bayonet35L

OPTICAL RESULTS (SIMULATED):



LED COB S-Type (LES 7)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 59.0 + 18.0° / 82.0 + 41.0°
 Efficiency 88 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

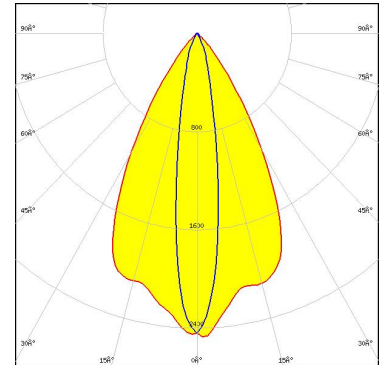


Bender Wirth: 652a Hekla

Light distribution files



LED COB T-Type
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 58.0 + 16.0° / 84.0 + 40.0°
 Efficiency 91 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Bender Wirth: 652a Bayonet35L

Light distribution files



LED NJCWL024Z-V1MT: COB L-Type Tunable White
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 57.0 + 16.0° / 82.0 + 40.0°
 Efficiency 89 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

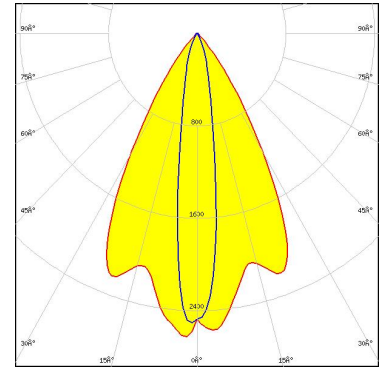
Bender Wirth: 497 Typ L8 HV

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED NJNWS012Z-V1MT: COB S-Type Tunable White
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 58.0 + 16.0° / 80.0 + 40.0°
 Efficiency 90 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

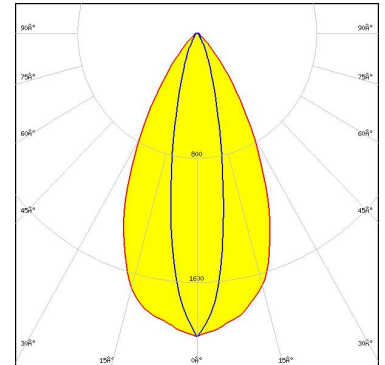


Light distribution files

Bender Wirth: 495 Typ L8 HV



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM 54.0 + 20.0° / 84.0 + 47.0°
 Efficiency 88 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K

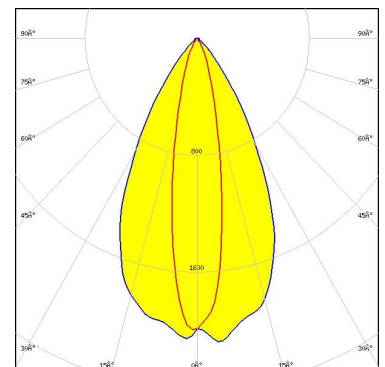


Light distribution files

Bender Wirth: 498 Typ L8 HV



LED LC003D / LC006D / LC009D / LC013D
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM 55.0 + 20.0° / 84.0 + 45.0°
 Efficiency 89 %
 Peak intensity 2.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

BJB: 47.360.1020

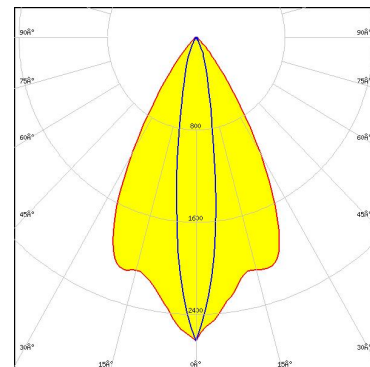
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LC010C G2
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM $58.0 + 16.0^\circ / 81.0 + 38.0^\circ$
 Efficiency 90 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.360.1020

Light distribution files

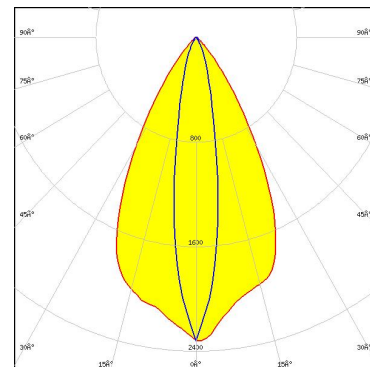


SAMSUNG

LED LC010T (Tunable White)
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM $56.0 + 18.0^\circ / 82.0 + 42.0^\circ$
 Efficiency 89 %
 Peak intensity 2.4 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

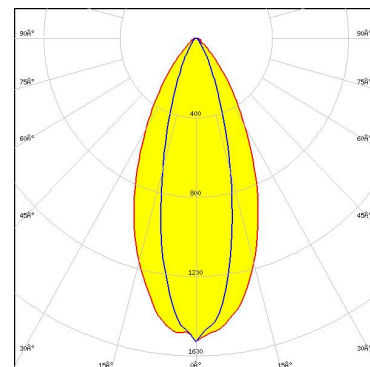


SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM $48.0 + 28.0^\circ / 87.0 + 57.0^\circ$
 Efficiency 83 %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.360.1010

Light distribution files



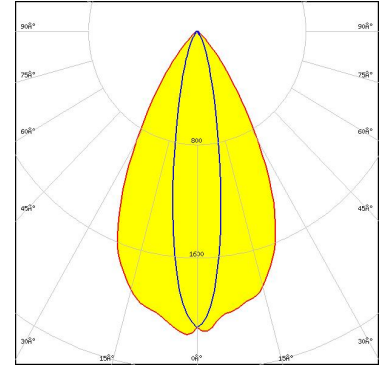
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED LC020C G2
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM $56.0 + 19.0^\circ / 84.0 + 44.0^\circ$
 Efficiency 88 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

BJB: 47.360.1010

Light distribution files

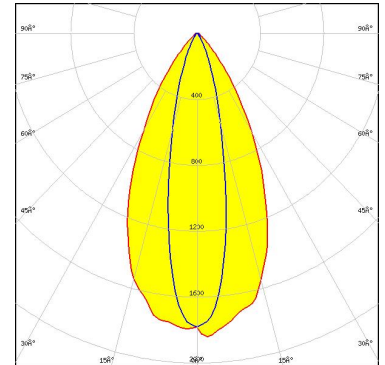


SAMSUNG

LED LC030C/040C G2
 Ordering code CP19138_AMY-50-O-B2
 FWHM / FWTM $52.0 + 23.0^\circ / 84.0 + 50.0^\circ$
 Efficiency 86 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

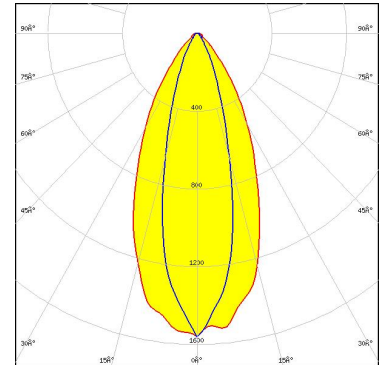
BJB: 47.360.1010

Light distribution files



LED MJT COB LES 14.5
 Ordering code CP19129_AMY-50-O-C2
 FWHM / FWTM $48.0 + 27.0^\circ / 88.0 + 57.0^\circ$
 Efficiency 86 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F15859_HEKLA-SOCKET-I

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.

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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