

## AMY-50-RS

~15° spot beam with tight cutoff

### SPECIFICATION:

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

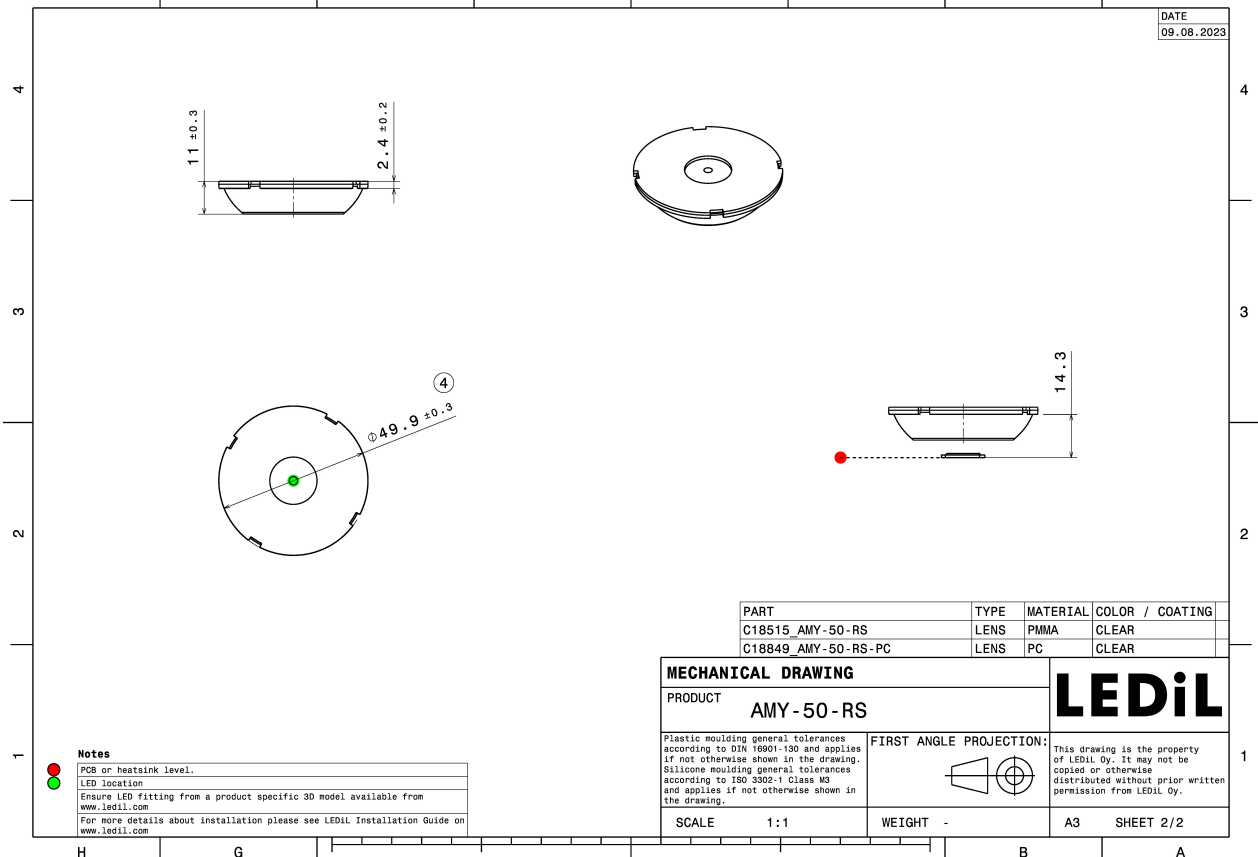
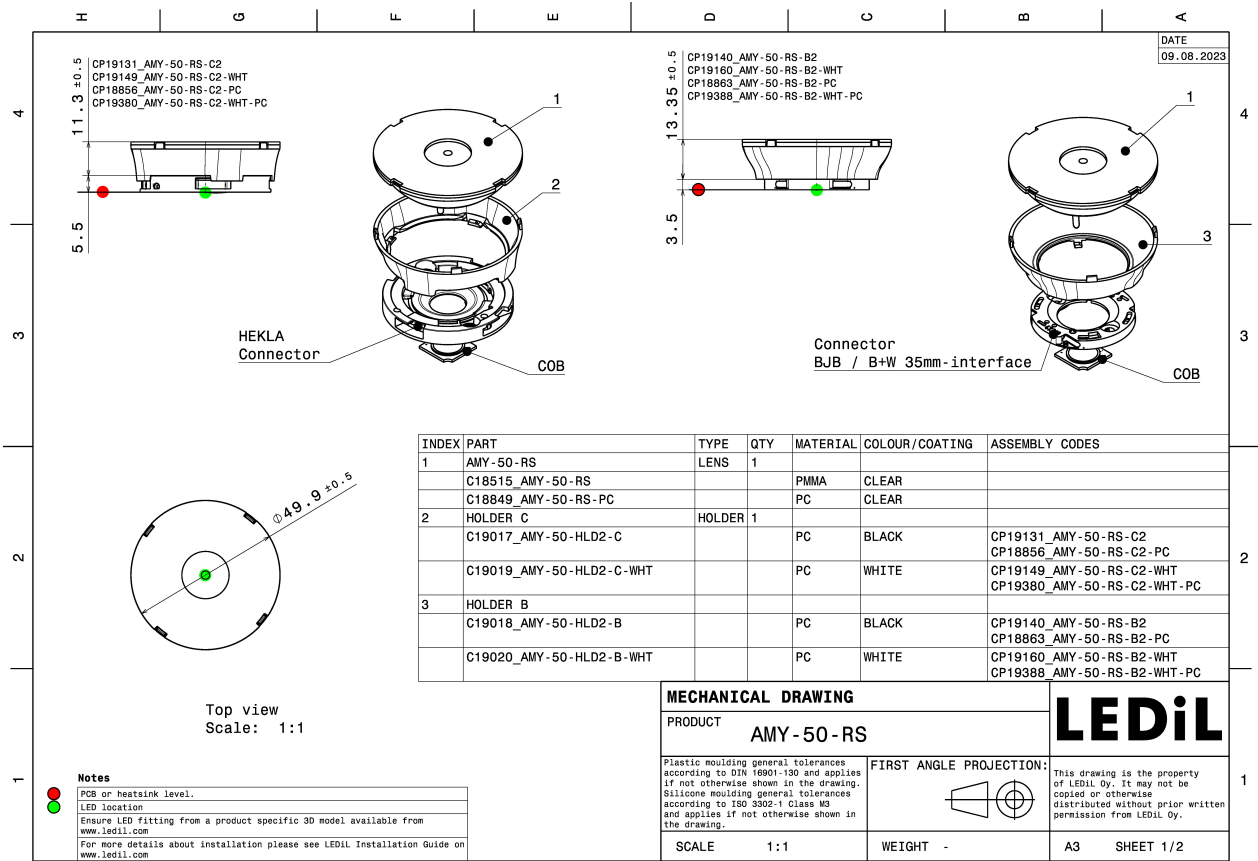
### MATERIALS:

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



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C18515_AMY-50-RS	690	120	30	9.7
<b>Assembly</b>				
CP19160_AMY-50-RS-B2-WHT	510	120	30	8.9
CP19149_AMY-50-RS-C2-WHT	510	120	30	8.5
CP19140_AMY-50-RS-B2	510	120	30	8.9
CP19131_AMY-50-RS-C2	510	120	30	8.5

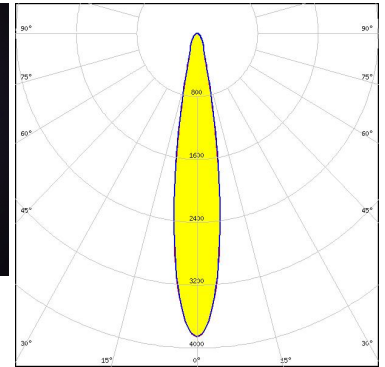
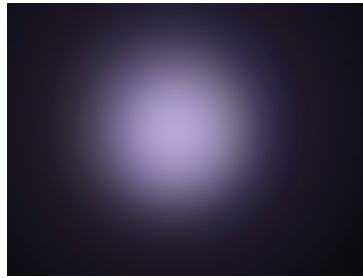


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

bridgelux

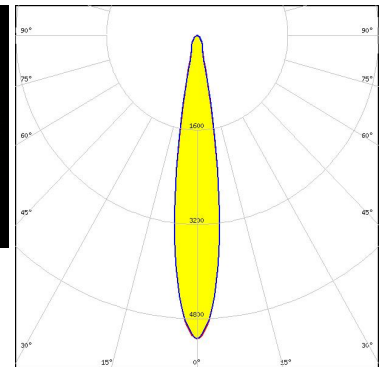
LED BXRV-D10-RGBW2000-A3  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 18.0° / 35.0°  
 Efficiency 77 %  
 Peak intensity 3.9 cd/m  
 LEDs/each optic 28  
 Light colour/type RGBW  
 Required components:  
 C19950\_HEKLA-SOCKET-RZ



Light distribution files

### CITIZEN

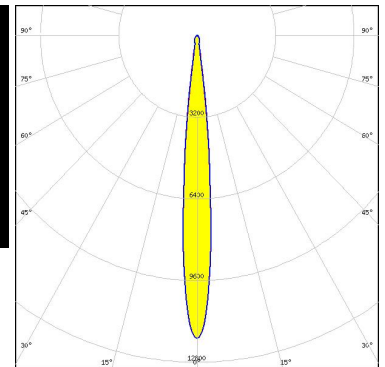
LED CLU02x (LES10)  
 Ordering code CP19140\_AMY-50-RS-B2  
 FWHM / FWTM 17.0° / 31.0°  
 Efficiency 85 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634a Bayonet35L



Light distribution files

### CITIZEN

LED CLU700/701/702/703  
 Ordering code CP19140\_AMY-50-RS-B2  
 FWHM / FWTM 11.0° / 19.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour/type White  
 CCT (LED/with lens)\* 3000K/K  
 Required components:  
 Bender Wirth: 634a Bayonet35L

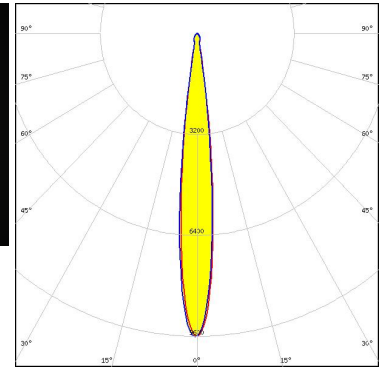


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

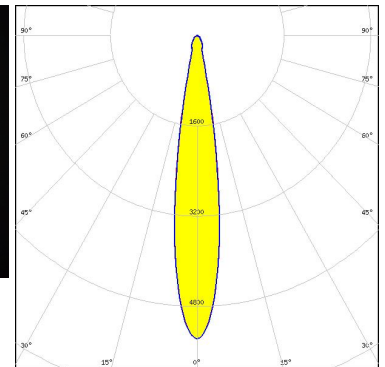
**LED** Fortimo SLM C TW L06A 1313 G7N  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 12.0° / 21.0°  
**Efficiency** 86 %  
**Peak intensity** 9.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 508 Typ L8



Light distribution files

#### PHILIPS

**LED** Fortimo SLM C TW L09A 1919 G7N  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 17.0° / 30.0°  
**Efficiency** 85 %  
**Peak intensity** 5.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8

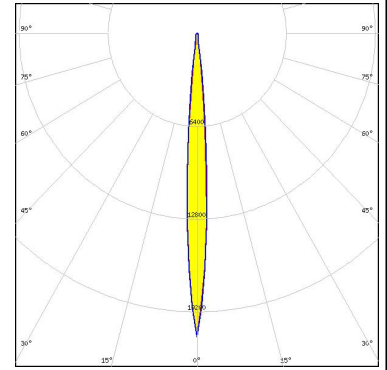


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED V3 HD Gen 8  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 89 %  
Peak intensity 20.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

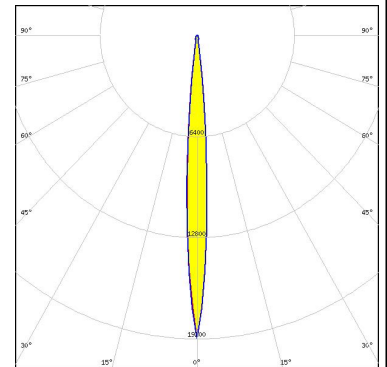


Bender Wirth: 660a Bayonet35

Light distribution files



LED V4 HD Gen 7  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 87 %  
Peak intensity 19.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

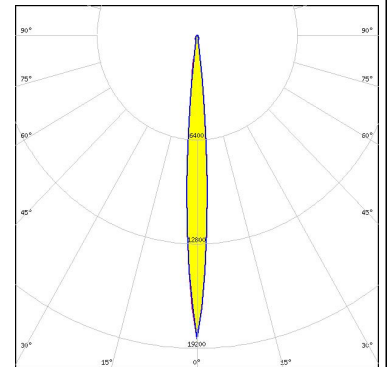


Bender Wirth: 660a Bayonet35

Light distribution files



LED V4 HD Gen 8  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 8.0° / 16.0°  
Efficiency 87 %  
Peak intensity 18.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Bender Wirth: 660a Bayonet35

Light distribution files

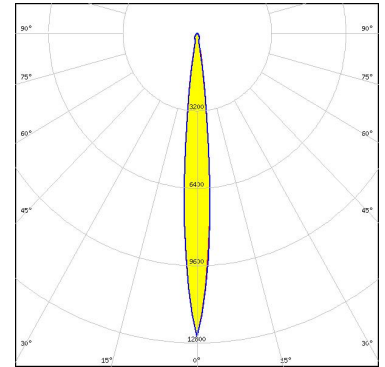
### OPTICAL RESULTS (SIMULATED):



LED V6 HD Gen 7  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 86 %  
Peak intensity 12.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

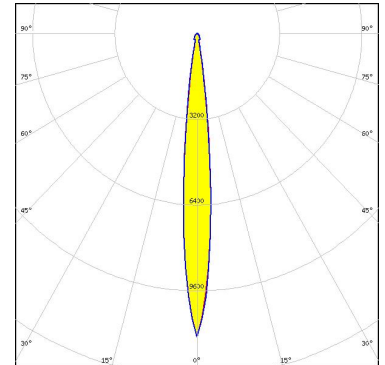
Bender Wirth: 634c Bayonet35L

Light distribution files



LED V6 HD Gen 8  
Ordering code CP19149\_AMY-50-RS-C2-WHT  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 91 %  
Peak intensity 11.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F19858\_HEKLA-G2B-C3

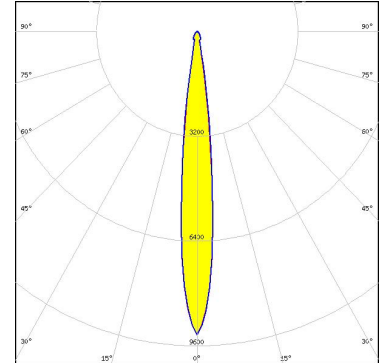
Light distribution files



LED Vesta DTW 6mm  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 88 %  
Peak intensity 9.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Bender Wirth: 652b Hekla

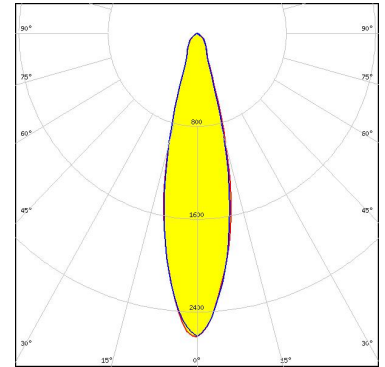
Light distribution files



### OPTICAL RESULTS (SIMULATED):



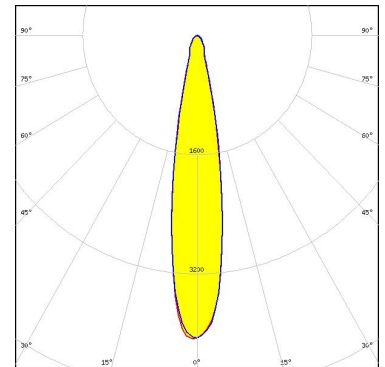
**LED** Vesta SE 13mm TW  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 26.0° / 46.0°  
**Efficiency** 79 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K



Light distribution files

### CITIZEN

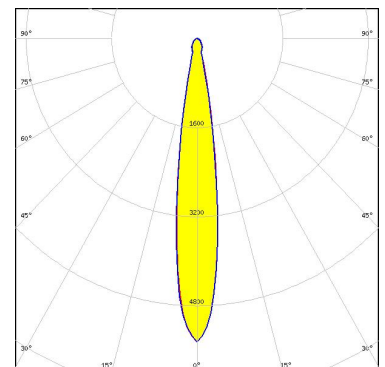
**LED** CLU02Q Type-F  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 20.0° / 36.0 + 37.0°  
**Efficiency** 86 %  
**Peak intensity** 4.1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C



Light distribution files

### CITIZEN

**LED** CLU02x (LES10)  
**Ordering code** C18515\_AMY-50-RS  
**FWHM / FWTM** 16.0° / 29.0°  
**Efficiency** 87 %  
**Peak intensity** 5.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

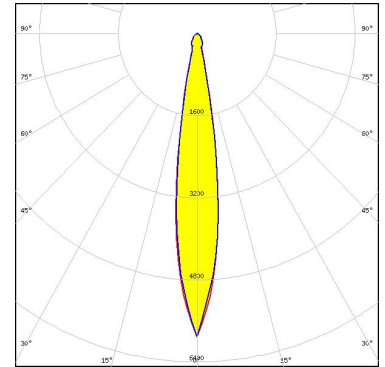


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

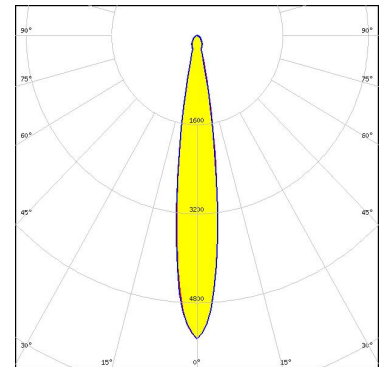
LED CLU02x (LES10)  
Ordering code CP19149\_AMY-50-RS-C2-WHT  
FWHM / FWTM 16.0° / 30.0°  
Efficiency 93 %  
Peak intensity 5.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files

#### CITIZEN

LED CLU02x (LES10)  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 16.0° / 29.0°  
Efficiency 87 %  
Peak intensity 5.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

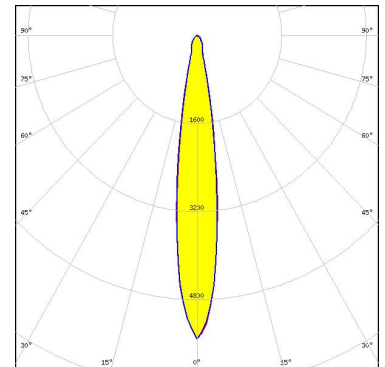


Bender Wirth: 634a Bayonet35L

Light distribution files

#### CITIZEN

LED CLU713 Type-F  
Ordering code CP19131\_AMY-50-RS-C2  
FWHM / FWTM 16.0° / 31.0°  
Efficiency 87 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I

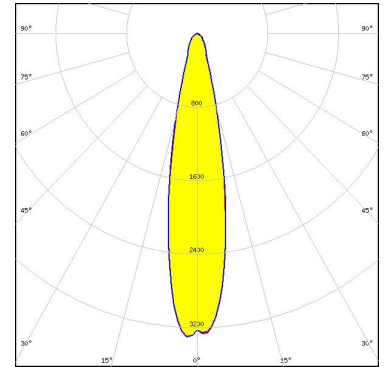


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

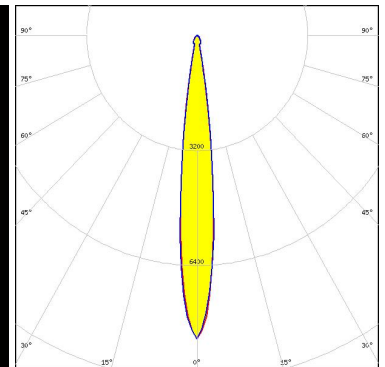
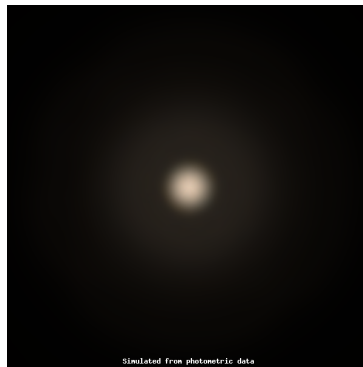
LED CLU723 Type-F  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 22.0° / 43.0 + 42.0°  
 Efficiency 86 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F17438\_HEKLA-G2-I



Light distribution files

#### CITIZEN

LED CLUD22  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 12.0° / 23.0°  
 Efficiency 85 %  
 Peak intensity 8.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

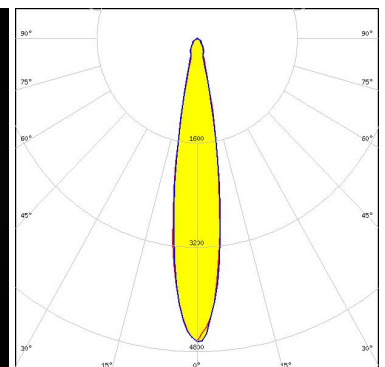
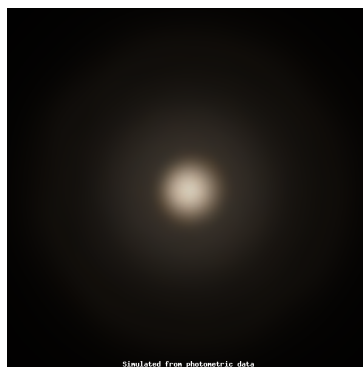


Light distribution files

Bender Wirth: 444 Typ L8

#### CITIZEN

LED CLUD32  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 18.0° / 33.0°  
 Efficiency 86 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

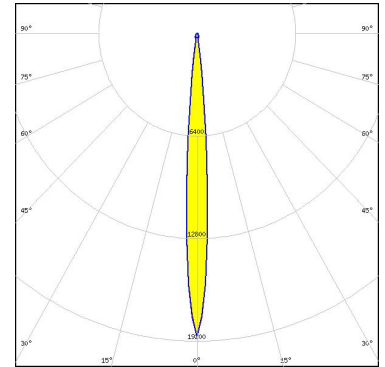


Light distribution files

### OPTICAL RESULTS (SIMULATED):



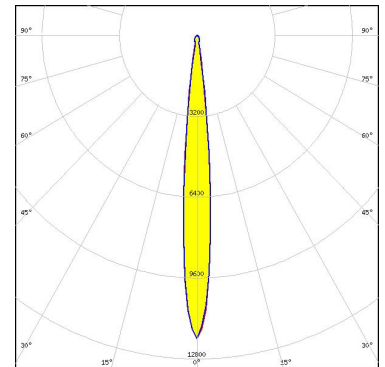
**LED** CHA0410  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 8.0° / 16.0°  
**Efficiency** 86 %  
**Peak intensity** 18.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C



Light distribution files



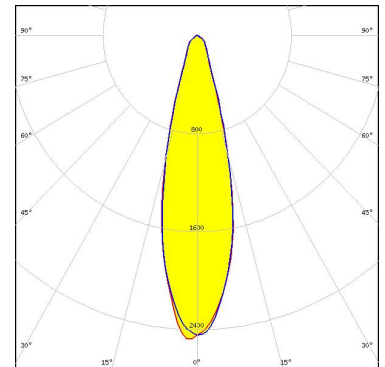
**LED** CHA0612  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 10.0° / 19.0°  
**Efficiency** 86 %  
**Peak intensity** 12 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C



Light distribution files



**LED** CMU15xx  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 27.0° / 51.0°  
**Efficiency** 83 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I

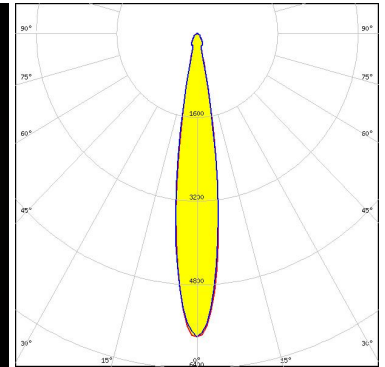
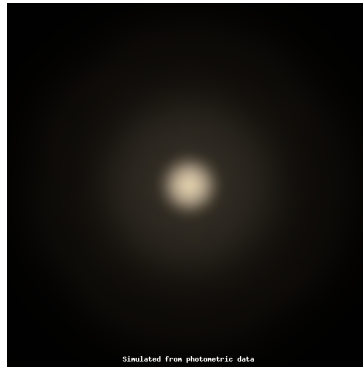


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED CTW0910  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 16.0° / 28.0°  
 Efficiency 85 %  
 Peak intensity 5.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K

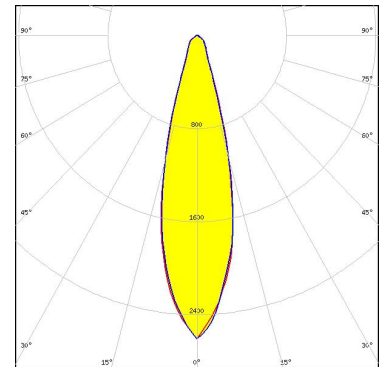


Light distribution files

Bender Wirth: 512 Typ L8



LED LUXEON CX Plus CoB L08 (Gen2)  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 28.0° / 50.0°  
 Efficiency 86 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

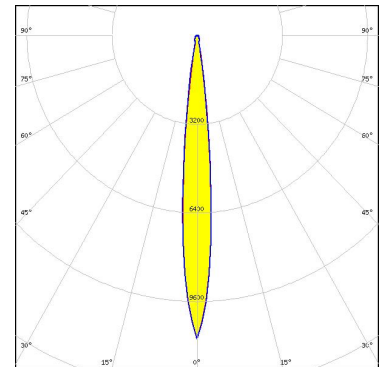


Light distribution files

Bender Wirth: 637a Hekla



LED LUXEON 7070  
 Ordering code C18515\_AMY-50-RS  
 FWHM / FWTM 11.0° / 20.0°  
 Efficiency 91 %  
 Peak intensity 10.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

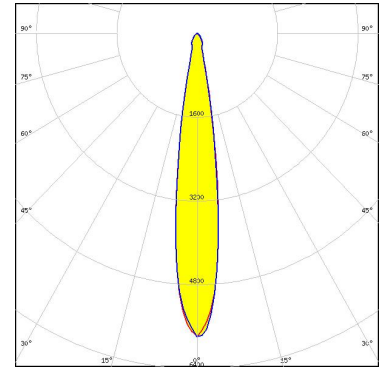


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED LUXEON CoB 1204HD  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 16.0° / 30.0°  
Efficiency 87 %  
Peak intensity 5.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

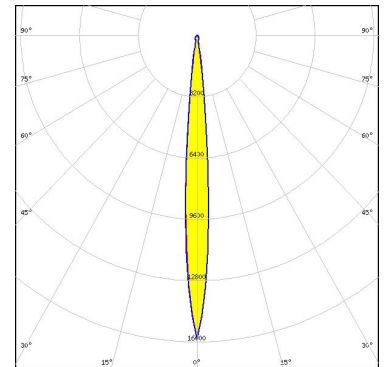


BJB: 47.360.1110

Light distribution files



LED LUXEON CX Plus CoB - HD S01H4  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 9.0° / 18.0°  
Efficiency 87 %  
Peak intensity 15.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

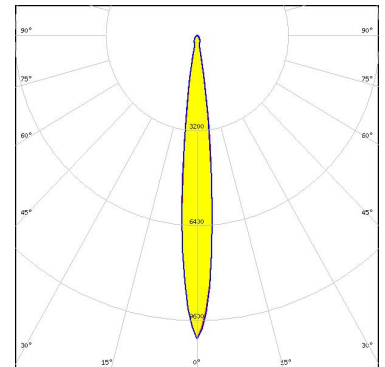


Bender Wirth: 634c Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB - HD S02H6  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 88 %  
Peak intensity 10.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



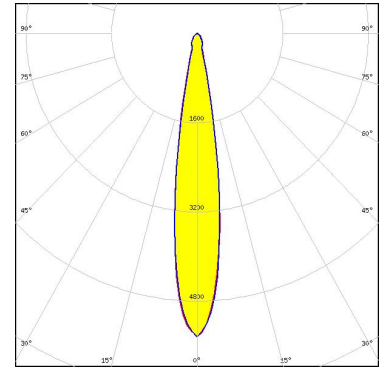
Bender Wirth: 634c Bayonet35L

Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED LUXEON CX Plus CoB - HD S04H9  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 17.0° / 30.0°  
Efficiency 87 %  
Peak intensity 5.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

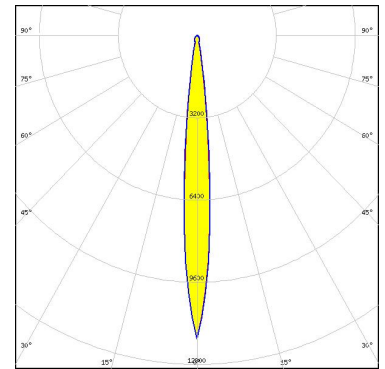


Bender Wirth: 634a Bayonet35L

Light distribution files



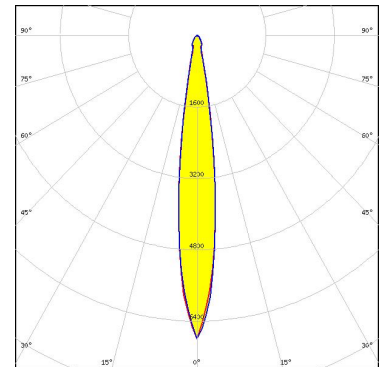
LED LUXEON CX Plus CoB S01 (Gen2)  
Ordering code CP19131\_AMY-50-RS-C2  
FWHM / FWTM 10.0° / 20.0°  
Efficiency 88 %  
Peak intensity 11.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15956\_HEKLA-SOCKET-J



Light distribution files

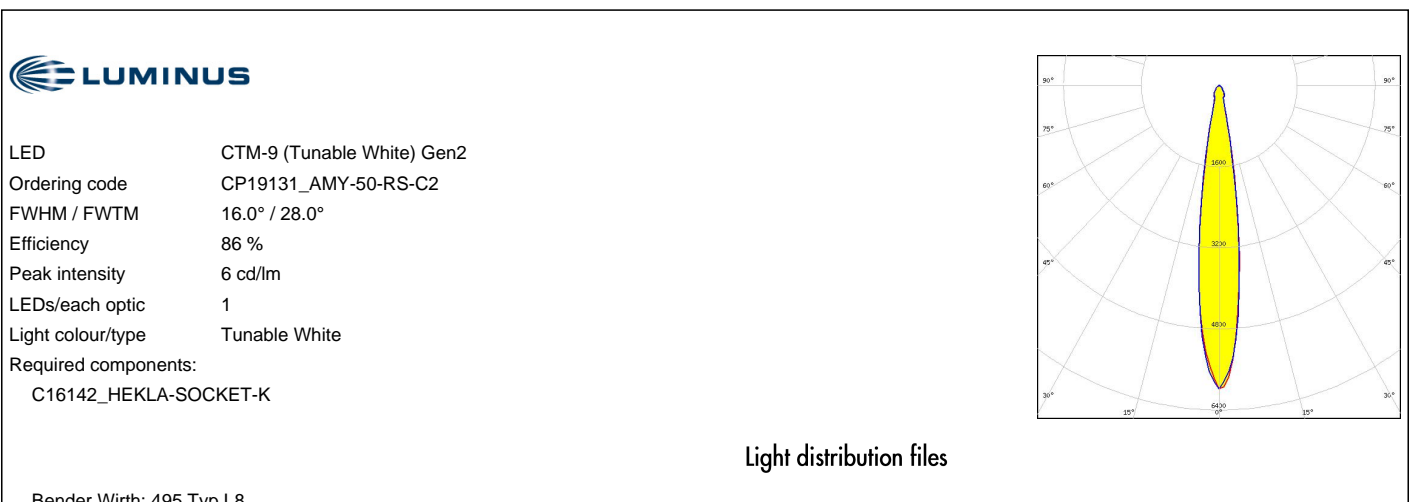
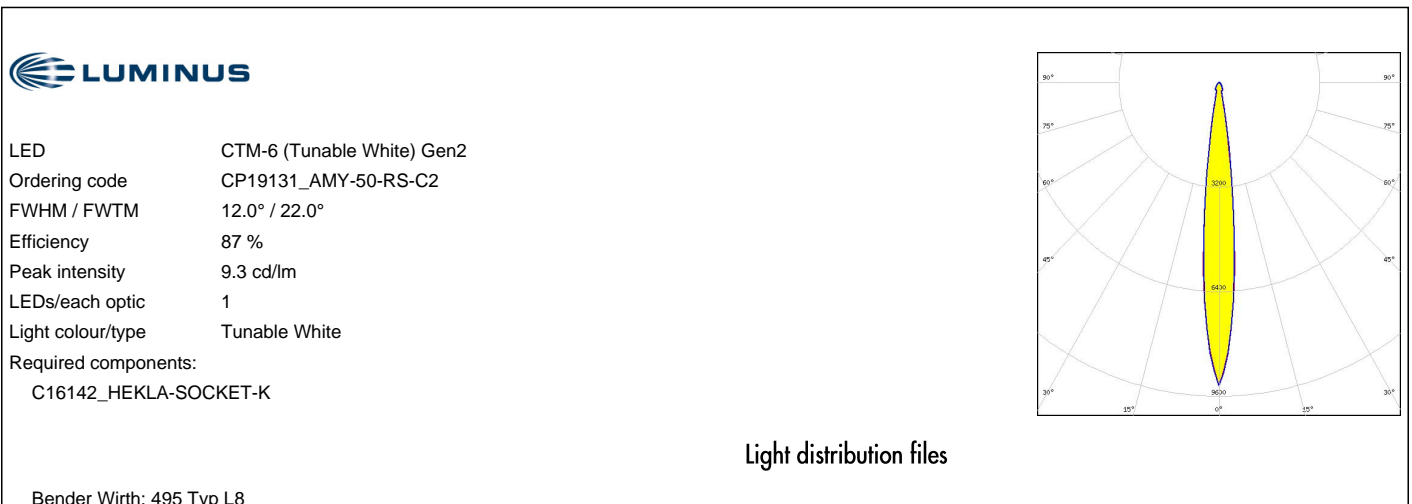
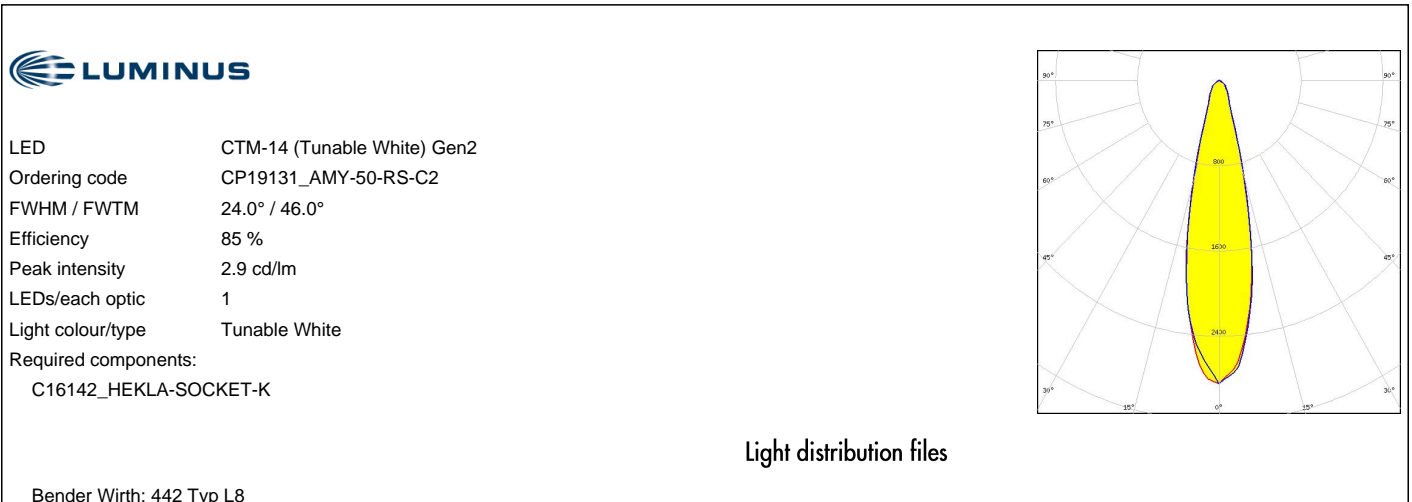


LED CHM-9 XH (19x19)  
Ordering code CP19131\_AMY-50-RS-C2  
FWHM / FWTM 14.0° / 27.0°  
Efficiency 87 %  
Peak intensity 6.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files

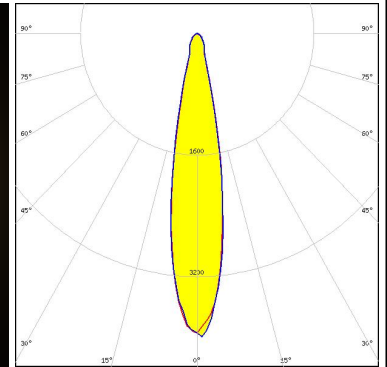
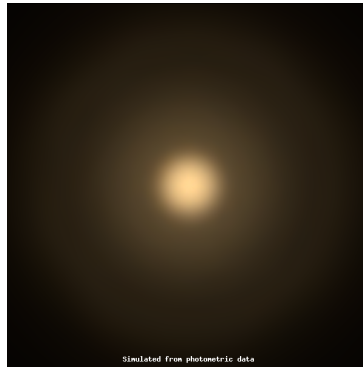
### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):



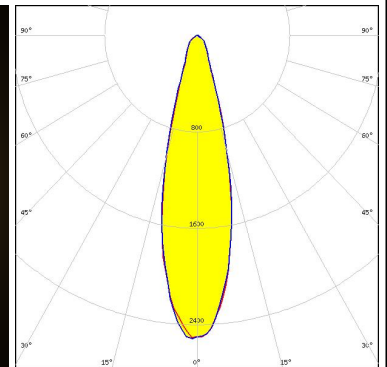
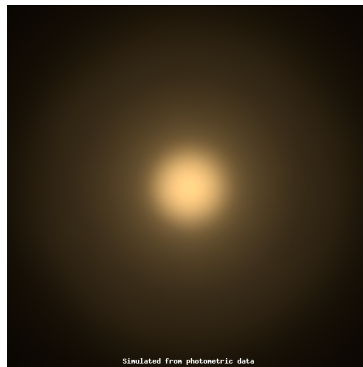
**LED** CxM-11 (19x19)  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 20.0° / 36.0°  
**Efficiency** 85 %  
**Peak intensity** 4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I



Light distribution files



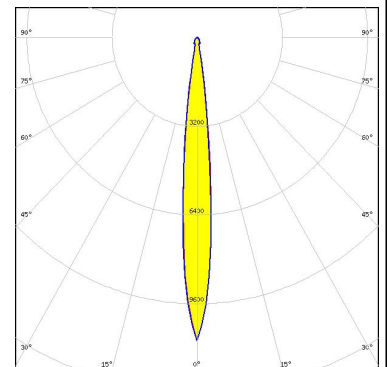
**LED** CxM-14 (19x19)  
**FWHM / FWTM** 26.0° / 49.0 + 50.0°  
**Efficiency** 84 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I



Light distribution files



**LED** CxM-6 (13.5x13.5)  
**Ordering code** CP19140\_AMY-50-RS-B2  
**FWHM / FWTM** 11.0° / 20.0°  
**Efficiency** 87 %  
**Peak intensity** 10.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



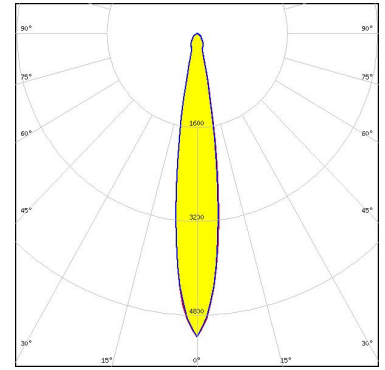
Light distribution files

BJB: 47.360.1020

### OPTICAL RESULTS (SIMULATED):



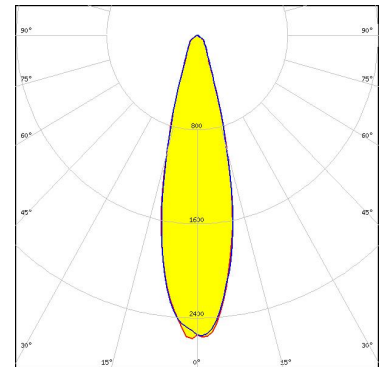
LED CxM-9 (13.5x13.5)  
Ordering code CP19160\_AMY-50-RS-B2-WHT  
FWHM / FWTM 16.0° / 30.0°  
Efficiency 88 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C18968\_SOCKET-B-35-C



Light distribution files



LED COB J-Type  
Ordering code CP19131\_AMY-50-RS-C2  
FWHM / FWTM 27.0° / 50.0°  
Efficiency 86 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

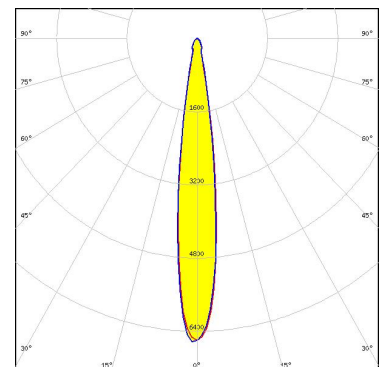


Bender Wirth: 663a Hekla XL

Light distribution files

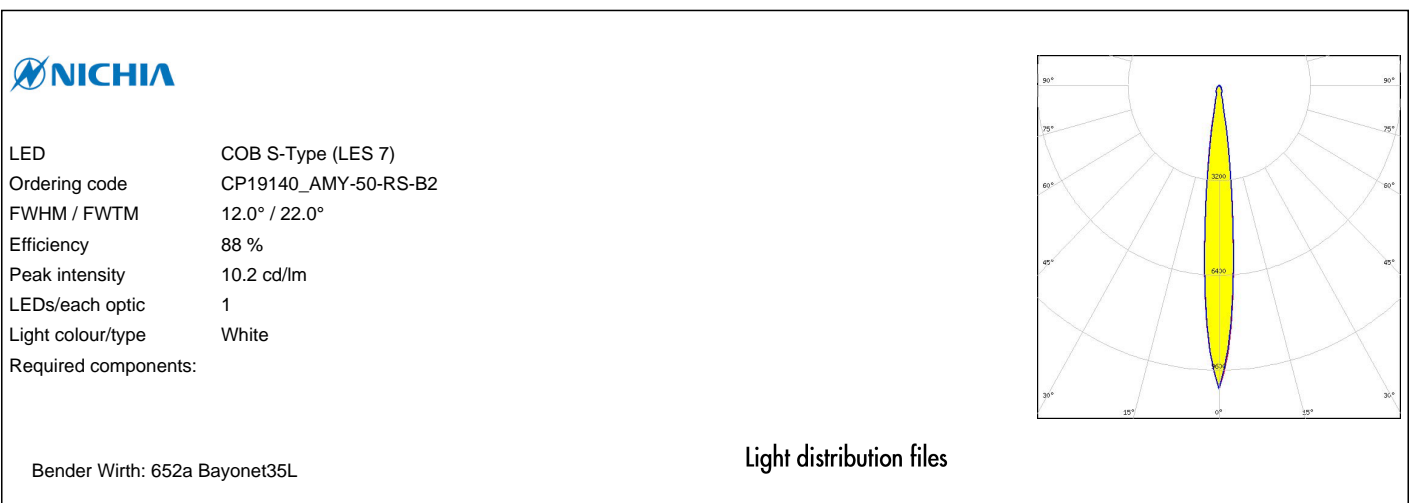
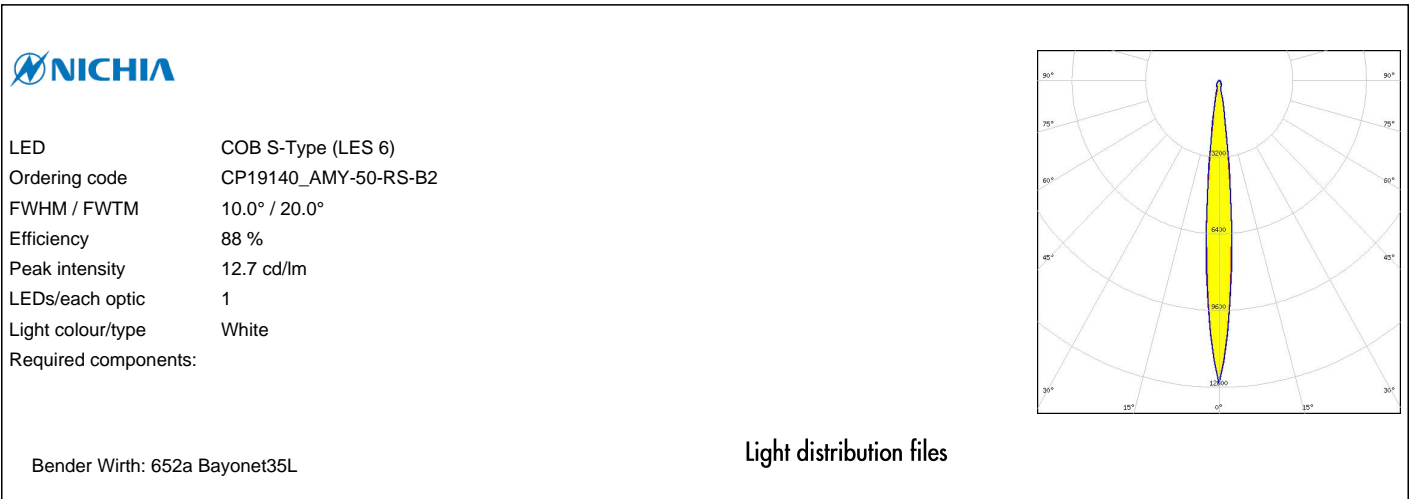


LED COB L-Type (LES 9)  
Ordering code CP19131\_AMY-50-RS-C2  
FWHM / FWTM 14.0° / 28.0°  
Efficiency 87 %  
Peak intensity 6.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15858\_HEKLA-SOCKET-H



Light distribution files

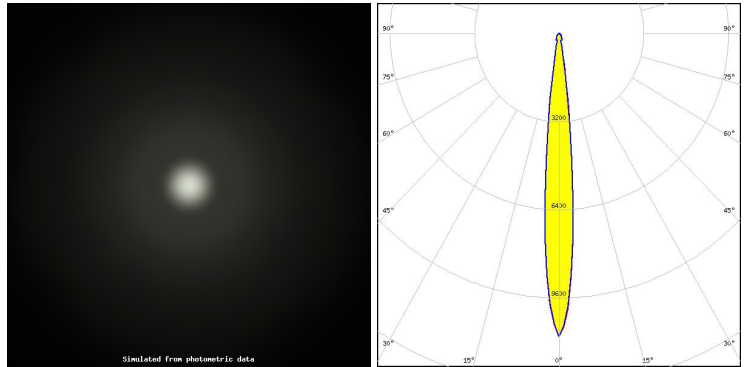
### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):



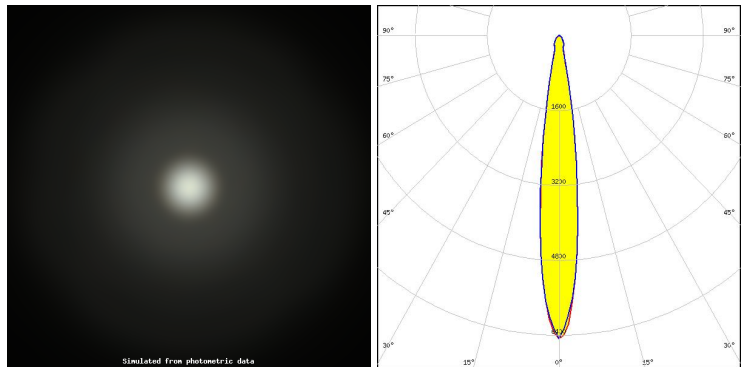
**LED** NF1202EFC-V5  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 10.0° / 20.0°  
**Efficiency** 86 %  
**Peak intensity** 11 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C



Light distribution files



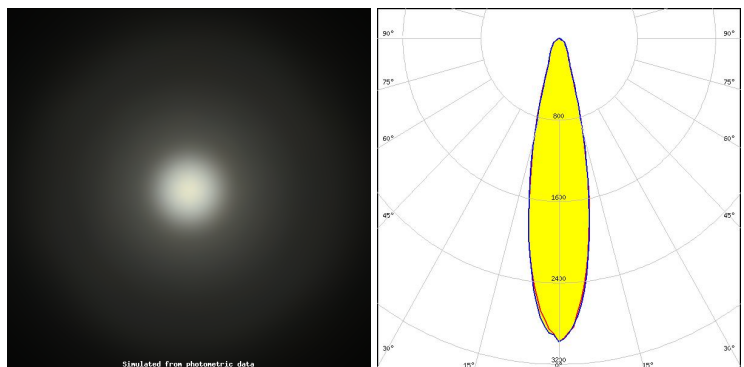
**LED** NF1203EJC-V5  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 14.0° / 28.0°  
**Efficiency** 86 %  
**Peak intensity** 6.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C



Light distribution files

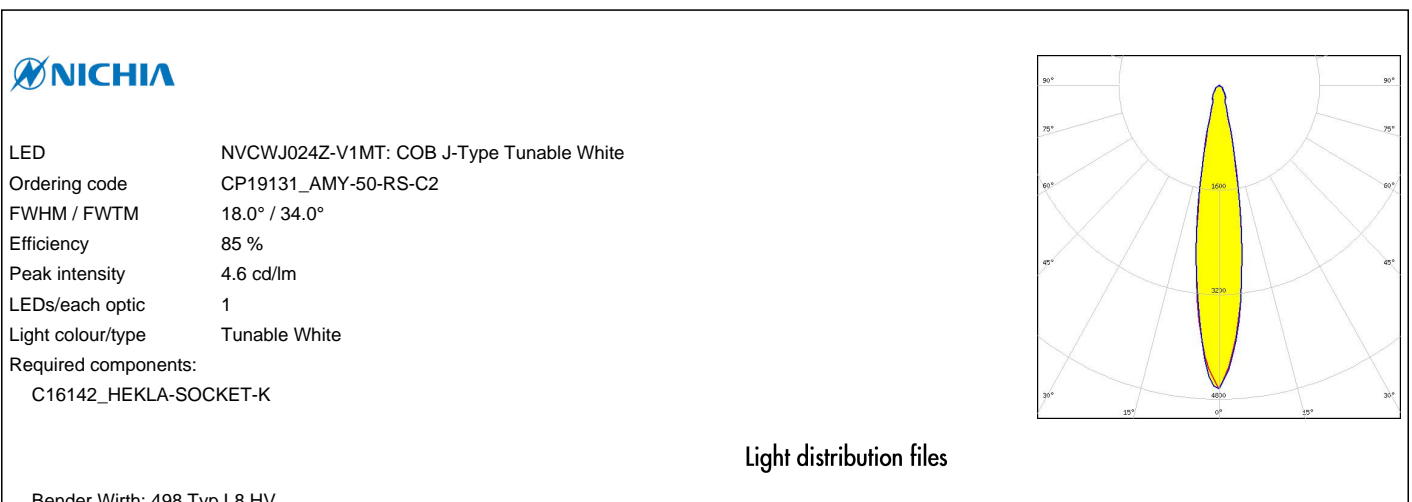
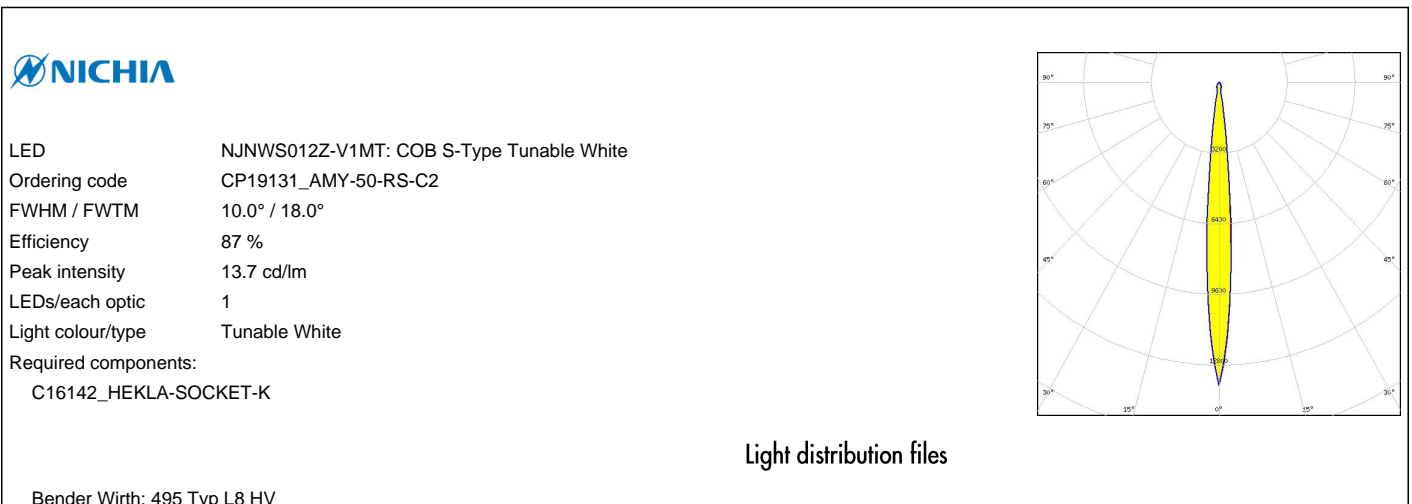
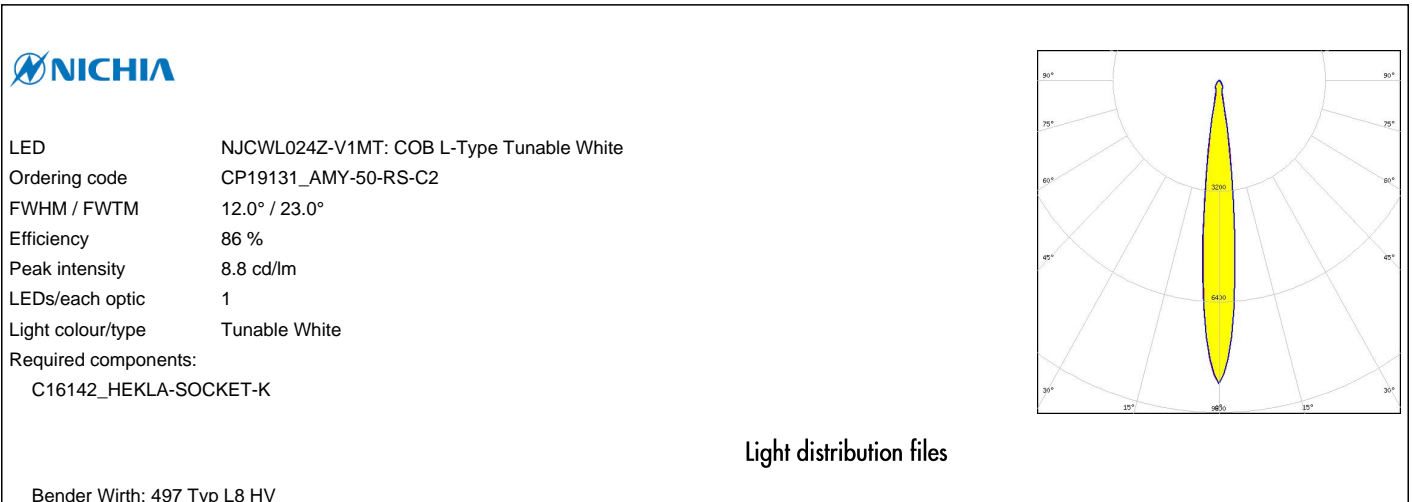


**LED** NF1206JLC-V5  
**Ordering code** CP19131\_AMY-50-RS-C2  
**FWHM / FWTM** 24.0° / 46.0°  
**Efficiency** 84 %  
**Peak intensity** 3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I



Light distribution files

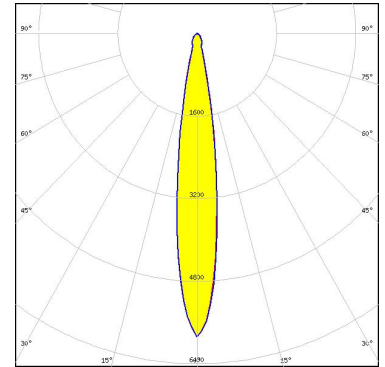
### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 Ordering code CP19140\_AMY-50-RS-B2  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 86 %  
 Peak intensity 5.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

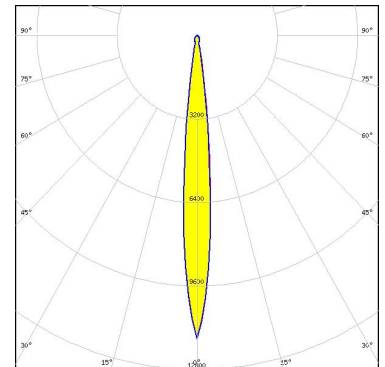


BJB: 47.360.1020

Light distribution files

#### SAMSUNG

LED LC010C G2  
 Ordering code CP19140\_AMY-50-RS-B2  
 FWHM / FWTM 10.0° / 20.0°  
 Efficiency 87 %  
 Peak intensity 11.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

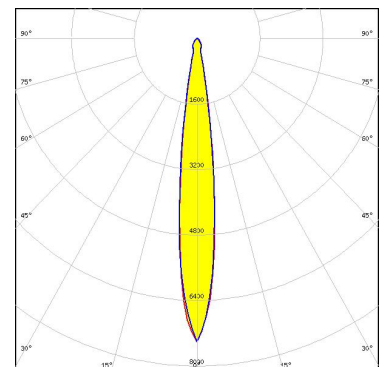


BJB: 47.360.1020

Light distribution files

#### SAMSUNG

LED LC010T (Tunable White)  
 Ordering code CP19131\_AMY-50-RS-C2  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 86 %  
 Peak intensity 7.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



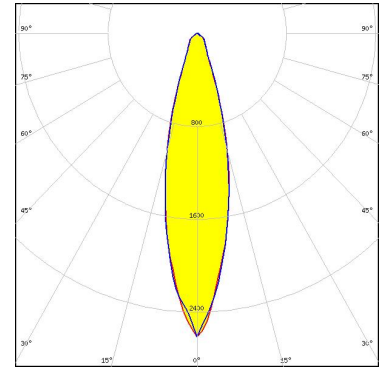
Bender Wirth: 501 Typ L8

Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 26.0° / 50.0°  
Efficiency 83 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

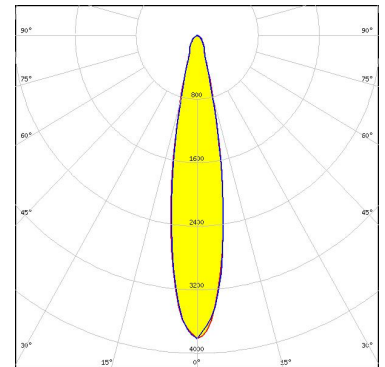


BJB: 47.360.1010

Light distribution files

#### SAMSUNG

LED LC030C/040C G2  
Ordering code CP19140\_AMY-50-RS-B2  
FWHM / FWTM 20.0° / 39.0°  
Efficiency 84 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

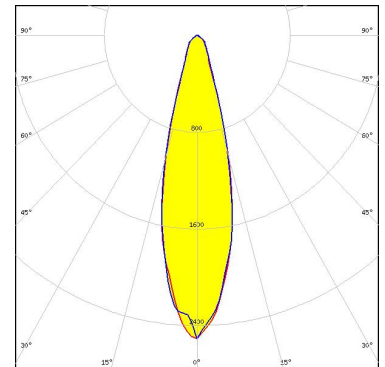


BJB: 47.360.1010

Light distribution files



LED MJT COB LES 14.5  
Ordering code CP19131\_AMY-50-RS-C2  
FWHM / FWTM 26.0° / 51.0°  
Efficiency 85 %  
Peak intensity 2.5 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.

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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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