

## YASMEEN-70-W

~36° wide beam

### SPECIFICATION:

Dimensions	Ø 70.0
Height	37.7 mm
Fastening	socket
ROHS compliant	yes ⓘ

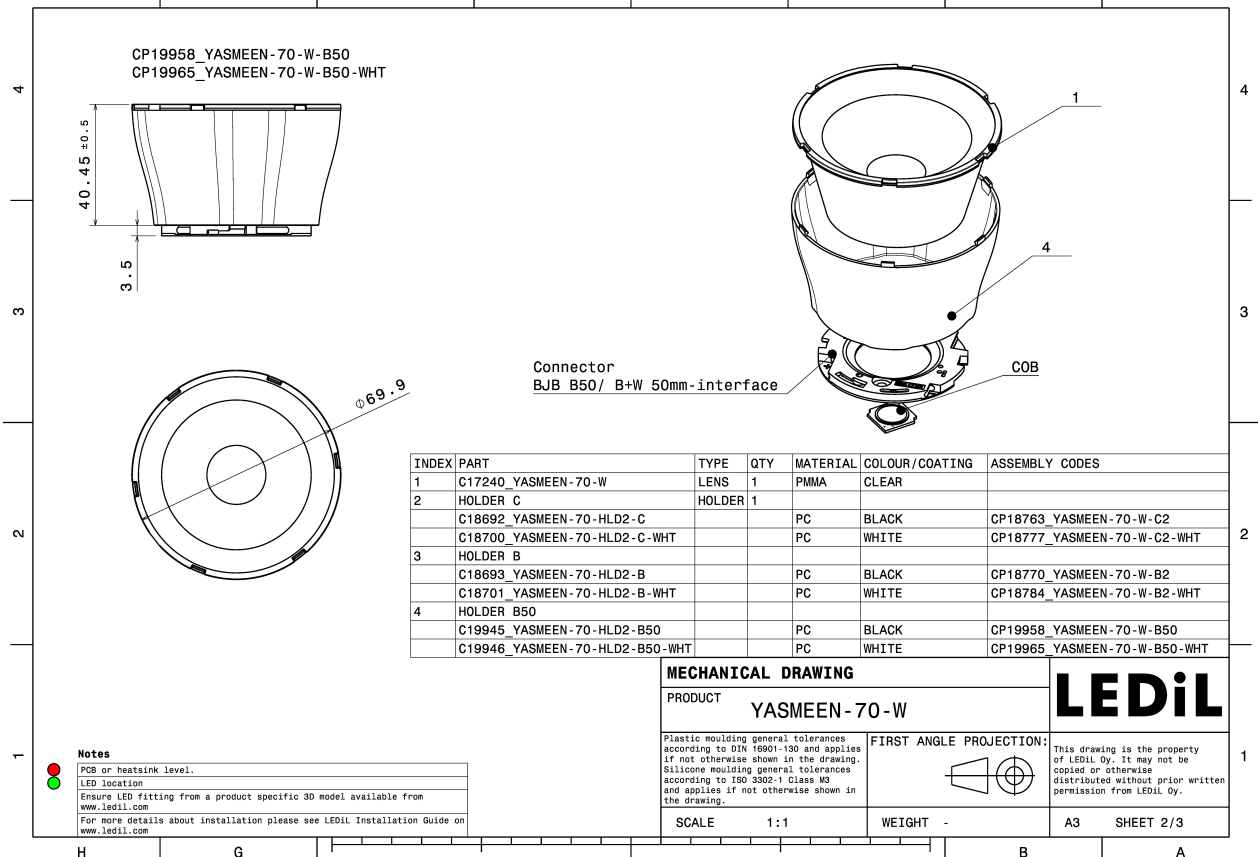
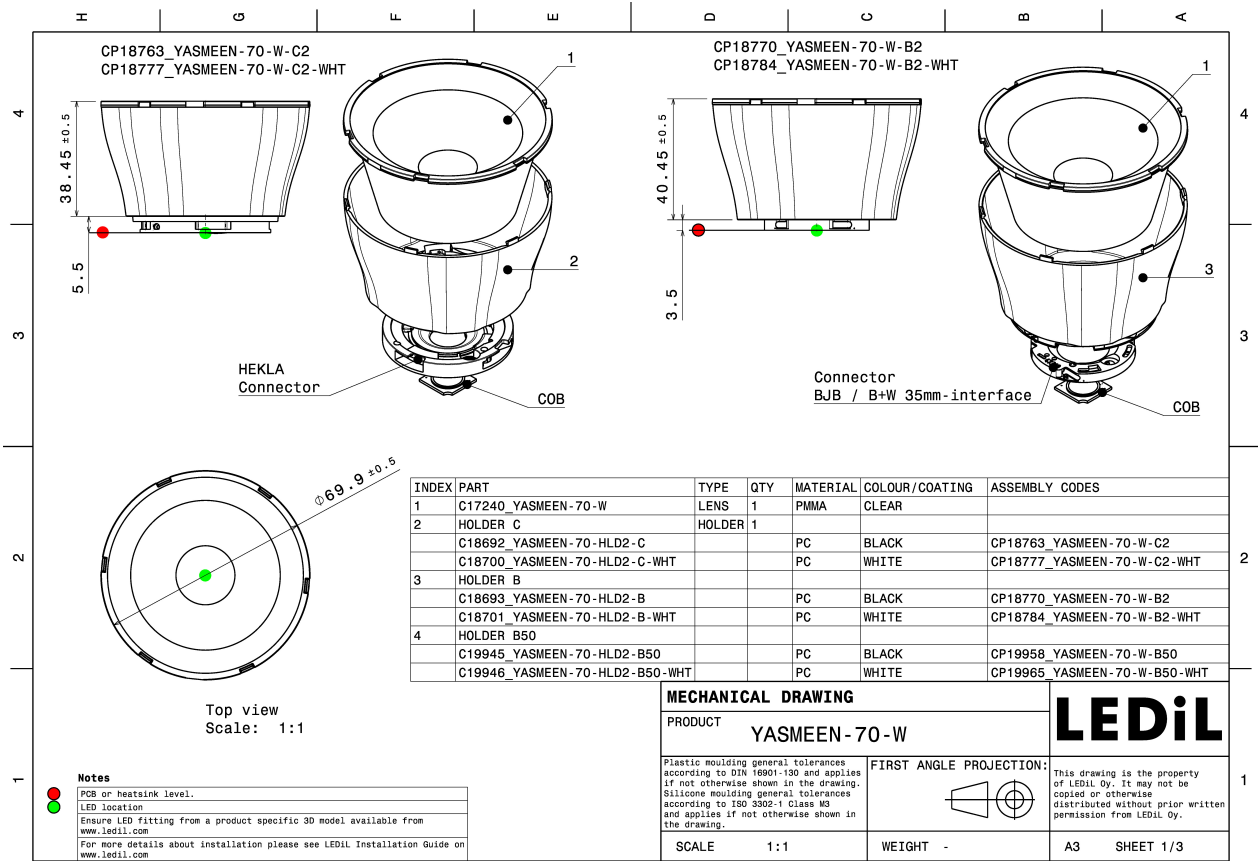
### MATERIALS:

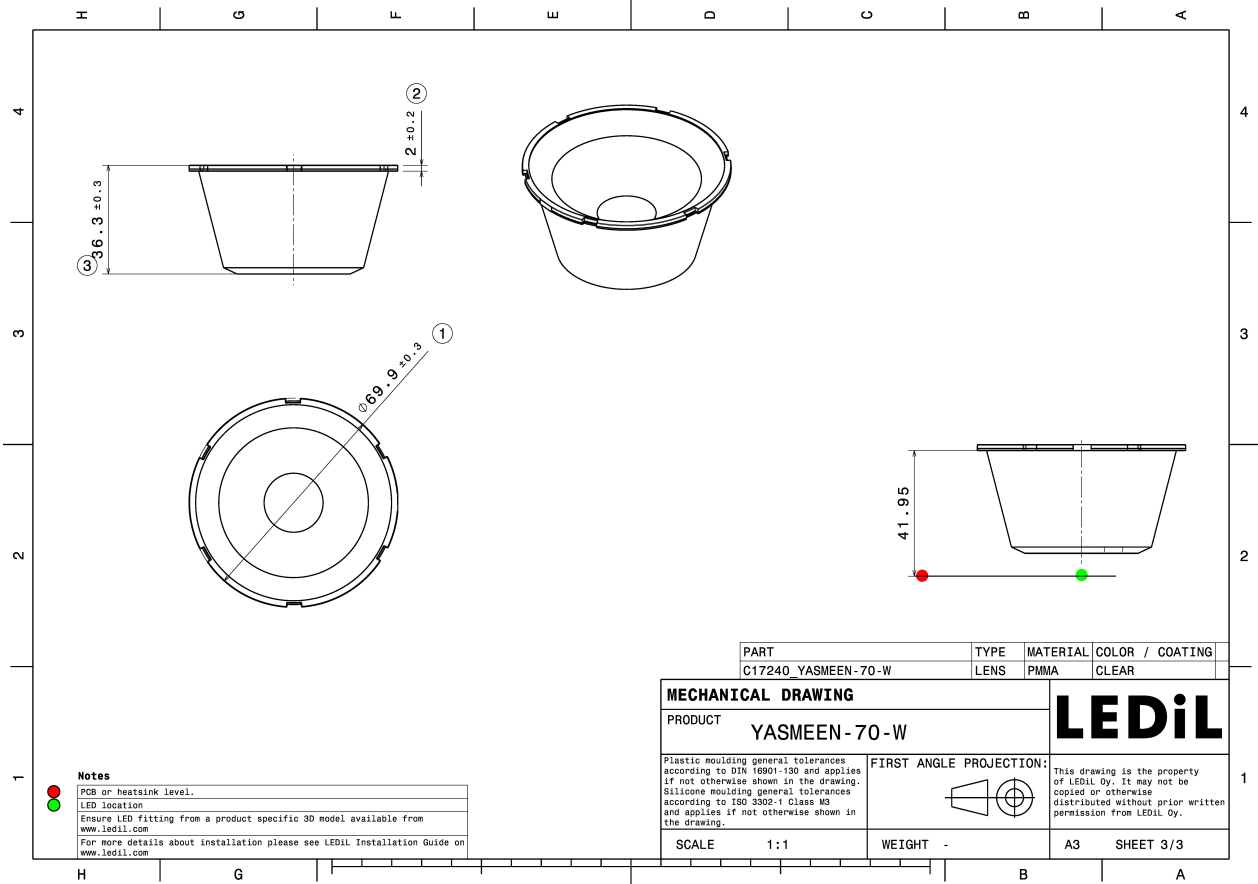
Component	Type	Material	Colour	Finish	Length (mm)
YASMEEN-70-W	Single lens	PMMA	clear		
YASMEEN-70-HLD2-C	Holder C	PC	black		
YASMEEN-70-HLD2-B	Holder B	PC	black		
YASMEEN-70-HLD2-C-WHT	Holder C	PC	white		
YASMEEN-70-HLD2-B-WHT	Holder B	PC	white		
YASMEEN-70-HLD2-B50	Holder B	PC	black		
YASMEEN-70-HLD2-B50-WHT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



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17240_YASMEEN-70-W	105	105	15	8.4
<b>Assembly</b>				
CP19965_YASMEEN-70-W-B50-WHT	105	105	15	9.7
CP19958_YASMEEN-70-W-B50	105	105	15	9.7
CP18784_YASMEEN-70-W-B2-WHT	105	105	15	9.8
CP18777_YASMEEN-70-W-C2-WHT	105	105	15	9.7
CP18770_YASMEEN-70-W-B2	105	105	15	9.8
CP18763_YASMEEN-70-W-C2	105	105	15	9.7



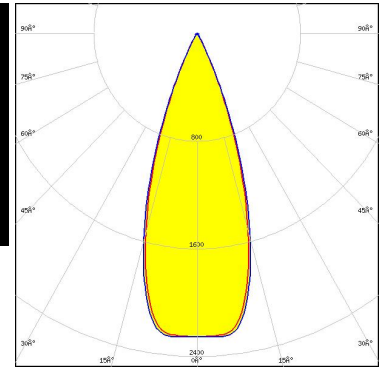
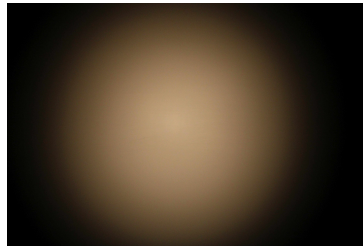


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

bridgelux

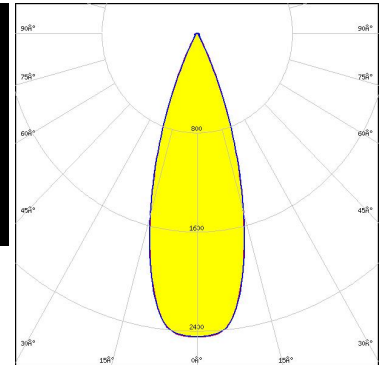
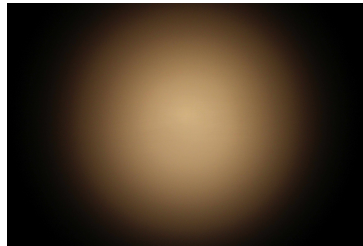
LED V10 Gen 8-9  
 Ordering code CP18763\_YASMEEN-70-W-C2  
 FWHM / FWTM 37.0° / 54.0°  
 Efficiency 87 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



Light distribution files

bridgelux

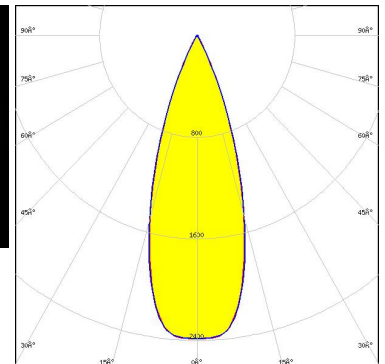
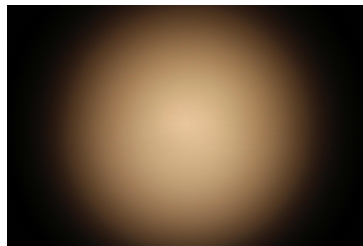
LED V11 HD Gen 8  
 Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
 FWHM / FWTM 34.0° / 54.0°  
 Efficiency 92 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 633d Hekla



Light distribution files

bridgelux

LED V11 HD Gen 8  
 Ordering code CP18763\_YASMEEN-70-W-C2  
 FWHM / FWTM 35.0° / 53.0°  
 Efficiency 85 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 633d Hekla

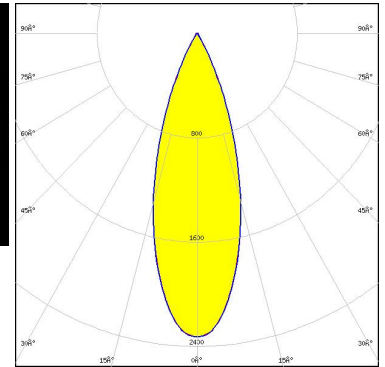
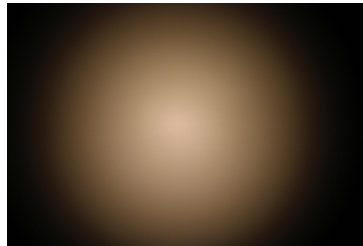


Light distribution files

### OPTICAL RESULTS (MEASURED):



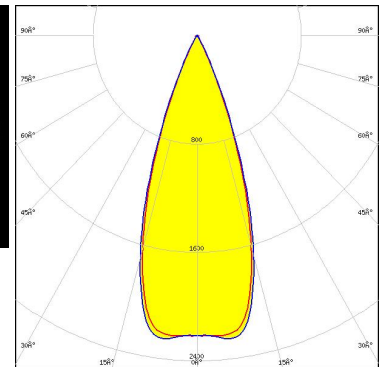
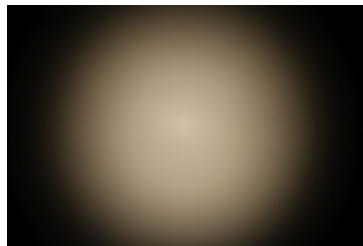
LED V13 Gen 8-9  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 57.0°  
Efficiency 84 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files



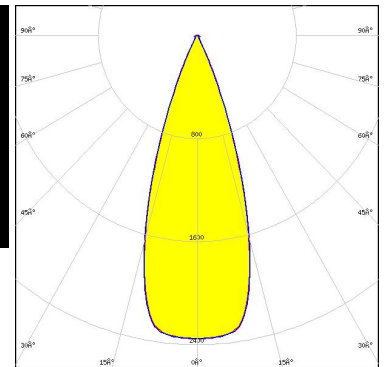
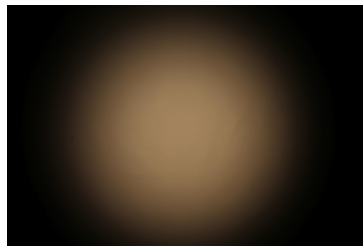
LED V8 Gen 8-9  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 37.0° / 54.0°  
Efficiency 88 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A



Light distribution files



LED V9 HD Gen7  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 90 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I

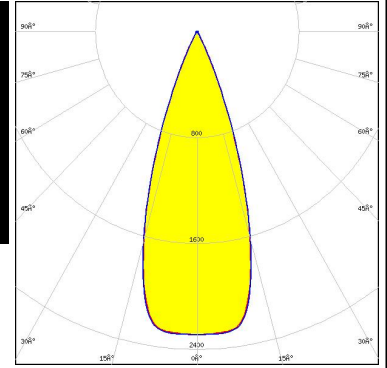
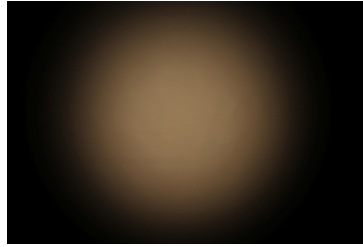


Light distribution files

### OPTICAL RESULTS (MEASURED):



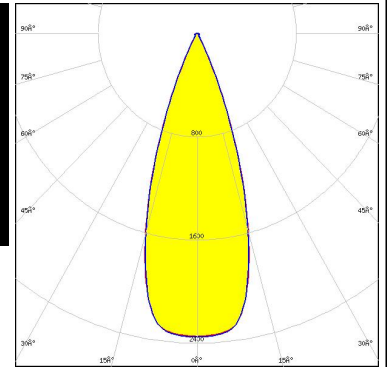
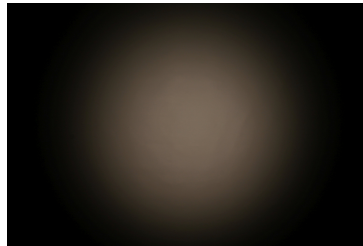
**LED** V9 HD Gen7  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 36.0° / 51.0°  
**Efficiency** 84 %  
**Peak intensity** 2.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



Light distribution files



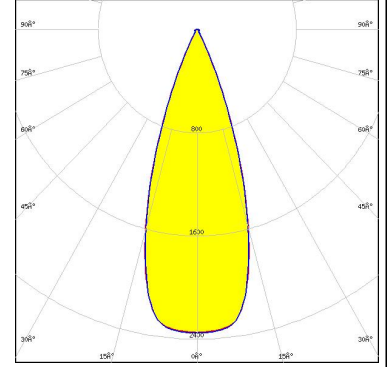
**LED** VERO10  
**Ordering code** CP18777\_YASMEEN-70-W-C2-WHT  
**FWHM / FWTM** 36.0° / 52.0°  
**Efficiency** 91 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15616\_HEKLA-SOCKET-F



Light distribution files



**LED** VERO10  
**Ordering code** CP18777\_YASMEEN-70-W-C2-WHT  
**FWHM / FWTM** 36.0° / 52.0°  
**Efficiency** 91 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15616\_HEKLA-SOCKET-F

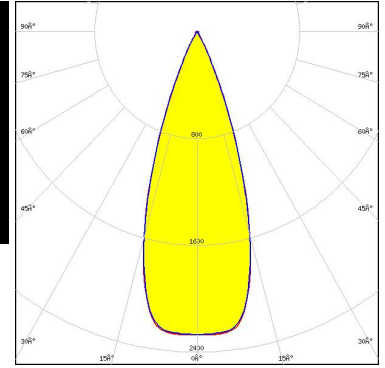
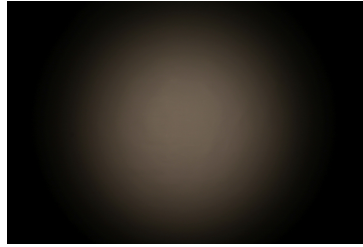


Light distribution files

### OPTICAL RESULTS (MEASURED):



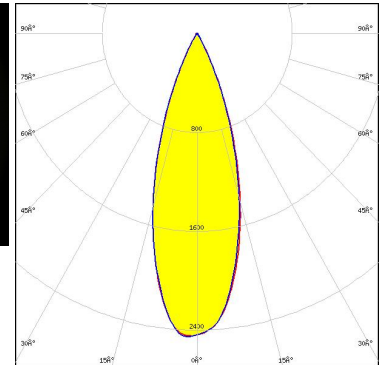
LED VERO10  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 37.0° / 53.0°  
Efficiency 85 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15616\_HEKLA-SOCKET-F



Light distribution files



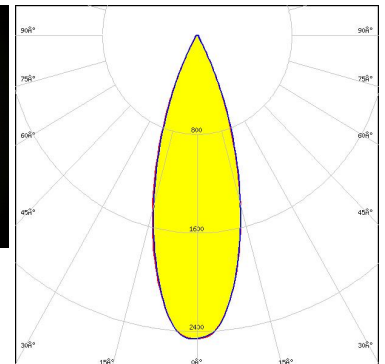
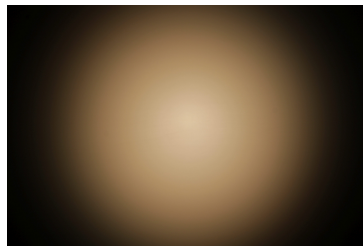
LED Vesta DTW 13mm (21W)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 55.0°  
Efficiency 85 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 632b Hekla XL



Light distribution files



LED Vesta DTW 13mm (21W)  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 34.0° / 56.0°  
Efficiency 91 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 632a Hekla



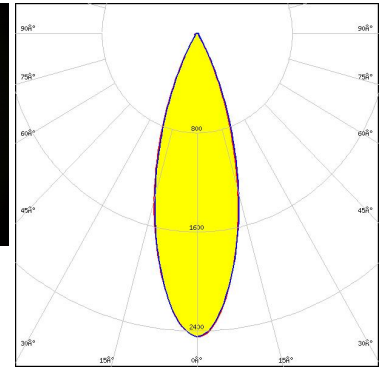
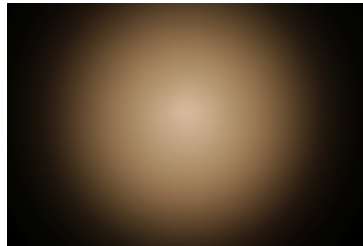
Light distribution files



### OPTICAL RESULTS (MEASURED):



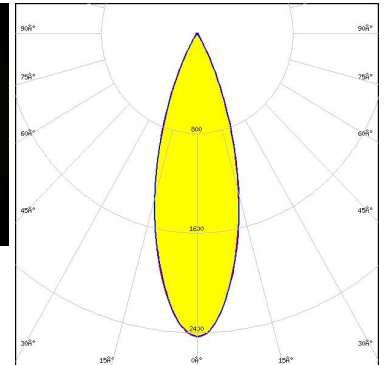
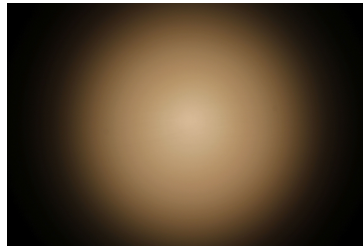
LED Vesta DTW 15mm (33W)  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 33.0° / 56.0°  
Efficiency 91 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 632b Hekla XL



Light distribution files



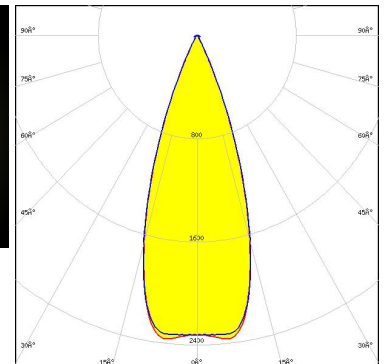
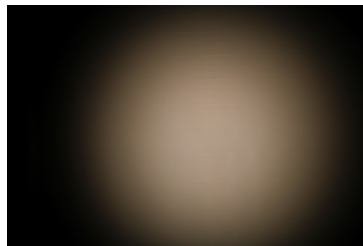
LED Vesta DTW 15mm (33W)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 33.0° / 56.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 632b Hekla XL



Light distribution files



LED Vesta DTW 9mm (4W/6W/12W)  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 37.0° / 53.0°  
Efficiency 92 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 652b Hekla

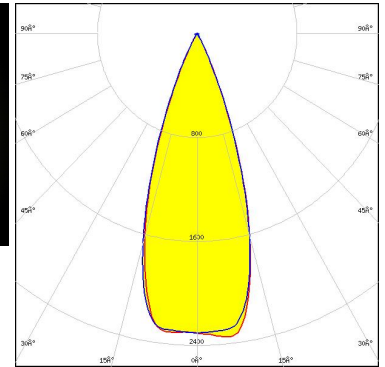
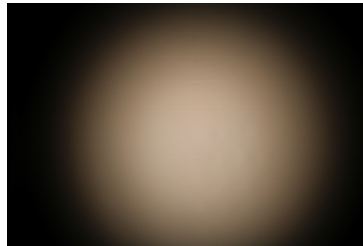


Light distribution files

### OPTICAL RESULTS (MEASURED):



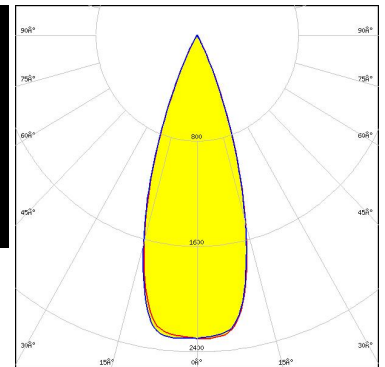
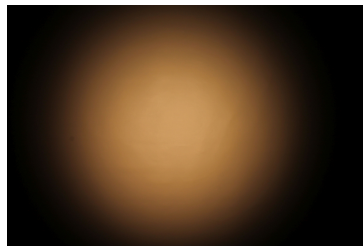
LED Vesta DTW 9mm (4W/6W/12W)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 37.0° / 53.0°  
Efficiency 86 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 652b Hekla



Light distribution files

### CITIZEN

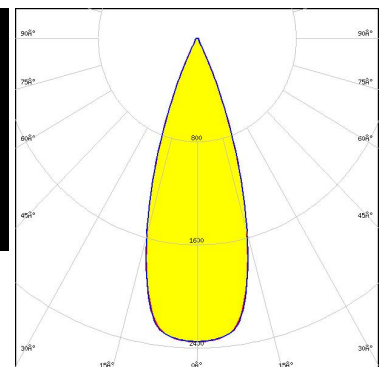
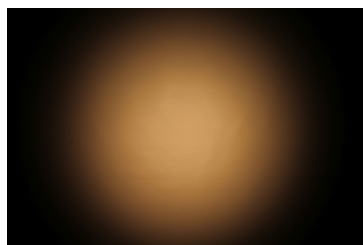
LED CLL02x/CLU02x (LES10)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 84 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files

### CITIZEN

LED CLL02x/CLU02x (LES10)  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 36.0° / 53.0°  
Efficiency 90 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C

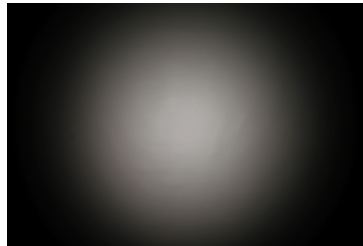


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

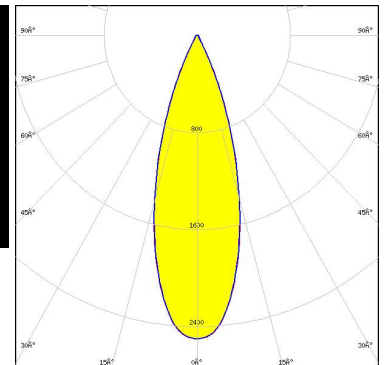
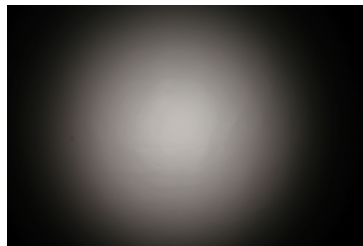
LED CLL03x/CLU03x  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 33.0° / 54.5°  
Efficiency 84 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### CITIZEN

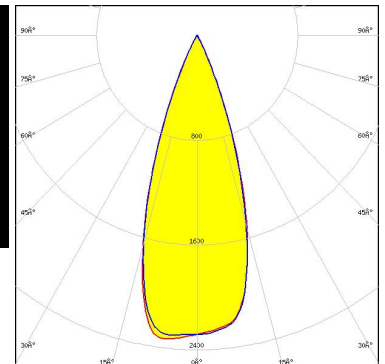
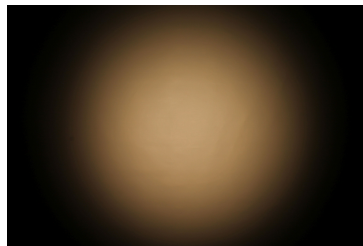
LED CLL03x/CLU03x  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 33.0° / 55.0°  
Efficiency 90 %  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files



LED CMA1516  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17436\_HEKLA-G2-D

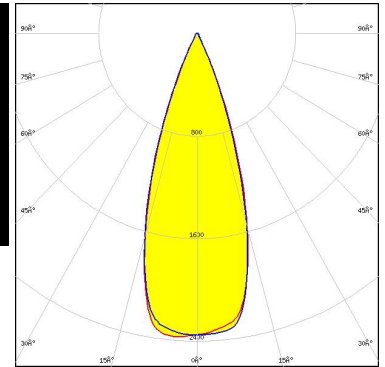
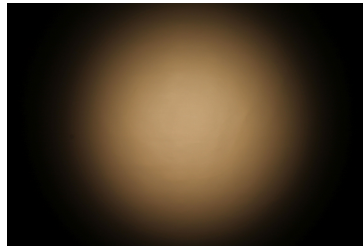


Light distribution files

### OPTICAL RESULTS (MEASURED):



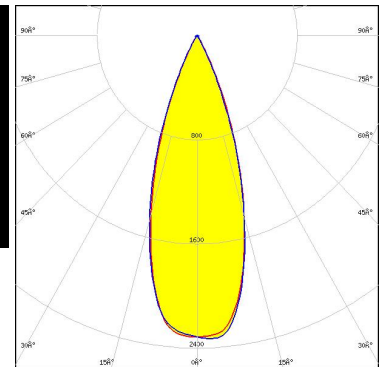
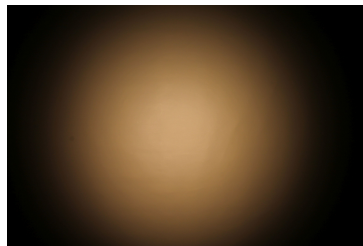
**LED** CMA1516  
**Ordering code** CP18777\_YASMEEN-70-W-C2-WHT  
**FWHM / FWTM** 36.0° / 52.0°  
**Efficiency** 91 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17436\_HEKLA-G2-D



Light distribution files



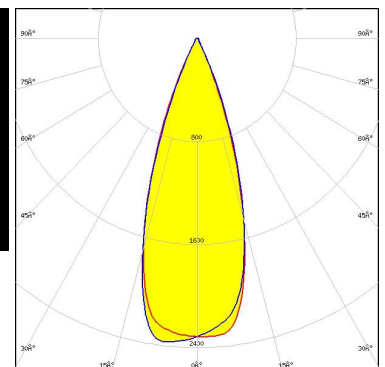
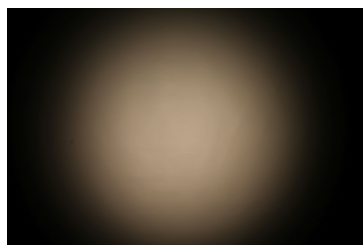
**LED** CMA1825  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 35.0° / 55.0°  
**Efficiency** 85 %  
**Peak intensity** 2.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15254\_HEKLA-SOCKET-B



Light distribution files



**LED** CMT14xx  
**Ordering code** CP18777\_YASMEEN-70-W-C2-WHT  
**FWHM / FWTM** 36.0° / 53.0°  
**Efficiency** 90 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C

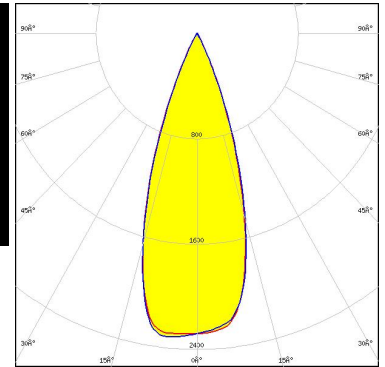
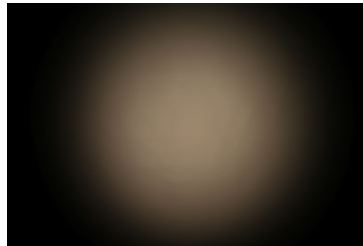


Light distribution files

### OPTICAL RESULTS (MEASURED):



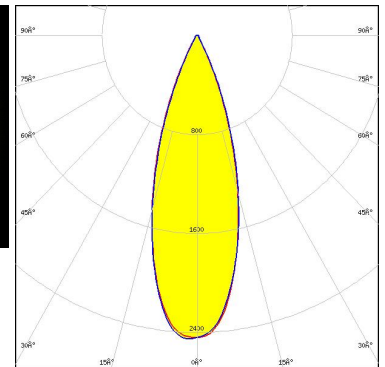
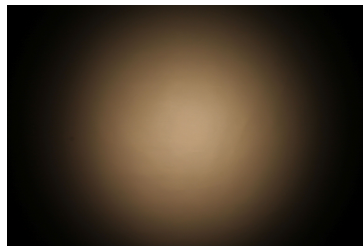
**LED** CMT14xx  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 36.0° / 53.0°  
**Efficiency** 84 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17435\_HEKLA-G2-C



Light distribution files



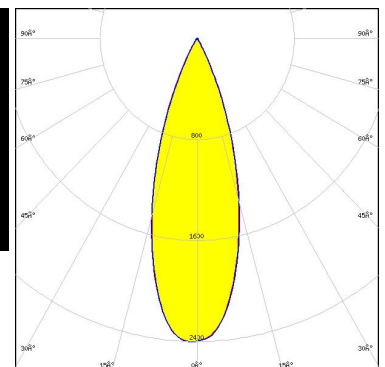
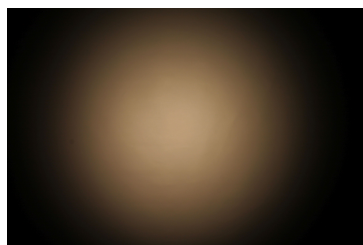
**LED** CMT19xx  
**Ordering code** CP18777\_YASMEEN-70-W-C2-WHT  
**FWHM / FWTM** 33.0° / 55.0°  
**Efficiency** 90 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I



Light distribution files



**LED** CMT19xx  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 33.0° / 54.0°  
**Efficiency** 83 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I

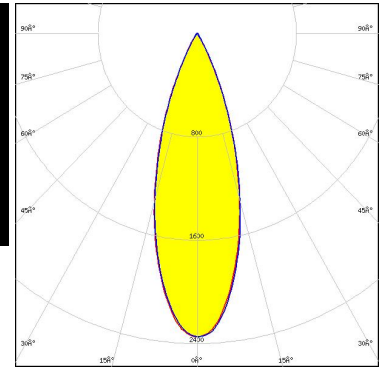
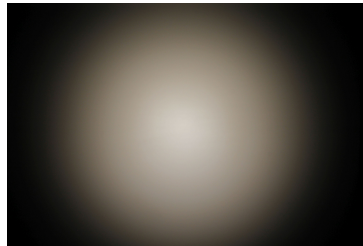


Light distribution files

### OPTICAL RESULTS (MEASURED):



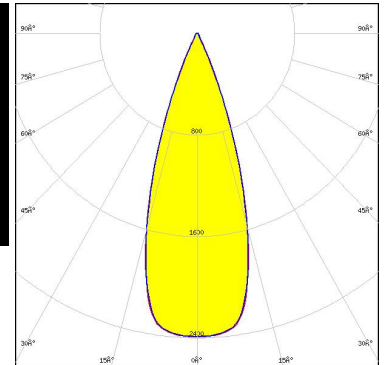
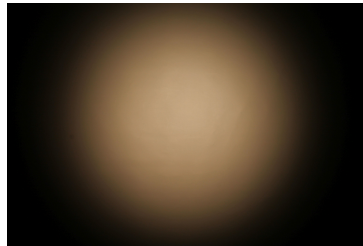
LED CMU15xx  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 33.0° / 56.0°  
Efficiency 83 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files



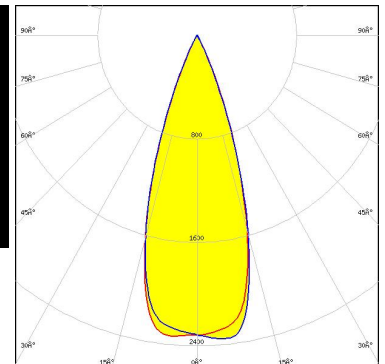
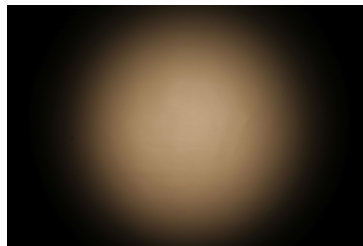
LED LUXEON CoB 1202/1203  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 35.0° / 51.0°  
Efficiency 91 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17437\_HEKLA-G2-H



Light distribution files



LED LUXEON CoB 1202/1203  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17437\_HEKLA-G2-H

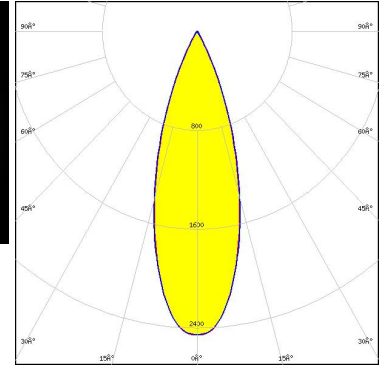


Light distribution files

### OPTICAL RESULTS (MEASURED):



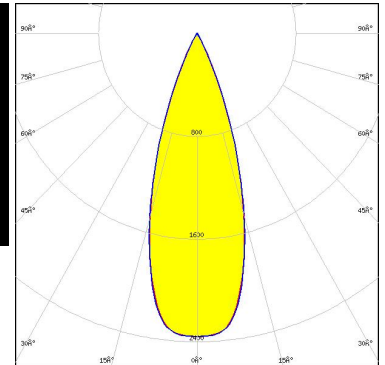
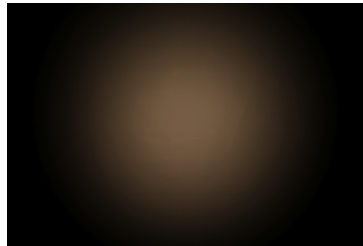
**LED** CTM-14 (Tunable White) Gen2  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 33.0° / 55.0°  
**Efficiency** 84 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 442 Typ L8



Light distribution files



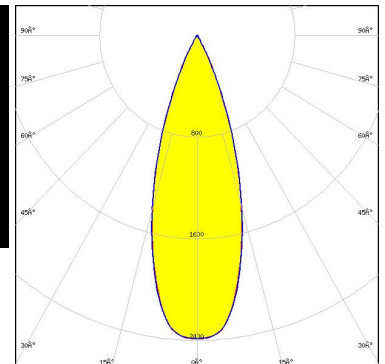
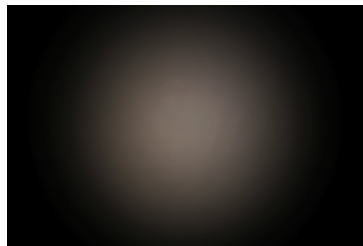
**LED** COB L-Type (LES 11)  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 34.0° / 53.0°  
**Efficiency** 83 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17437\_HEKLA-G2-H



Light distribution files



**LED** COB S-Type (LES 7)  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 34.0° / 54.0°  
**Efficiency** 83 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I

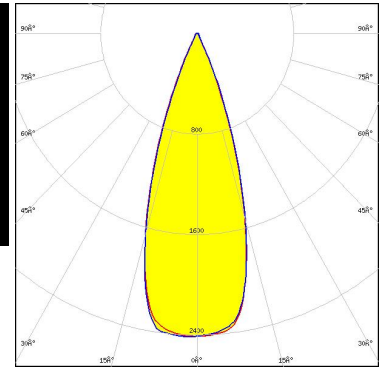
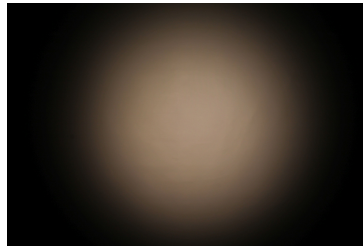


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

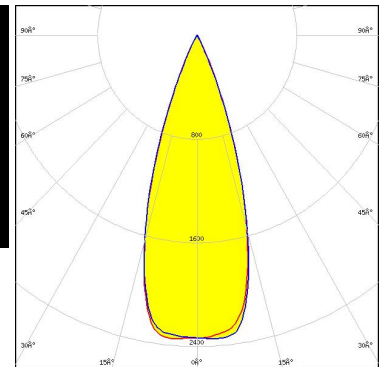
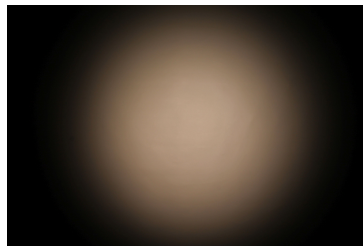
LED Fortimo SLM L09 CoB  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 35.0° / 51.0°  
Efficiency 90 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17437\_HEKLA-G2-H



Light distribution files

#### PHILIPS

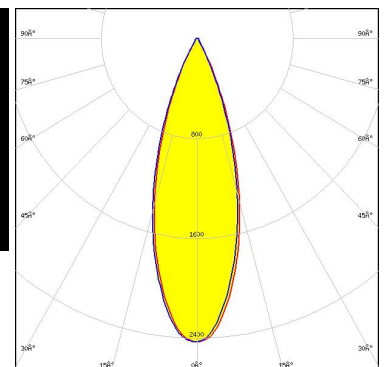
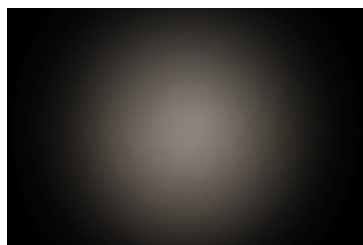
LED Fortimo SLM L09 CoB  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17437\_HEKLA-G2-H



Light distribution files

#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 33.0° / 56.0°  
Efficiency 90 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



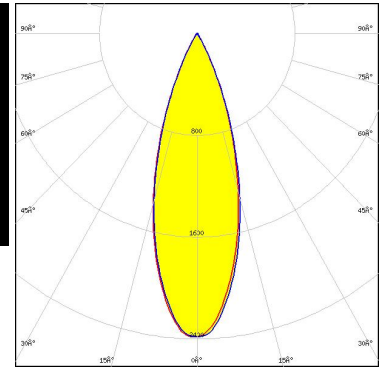
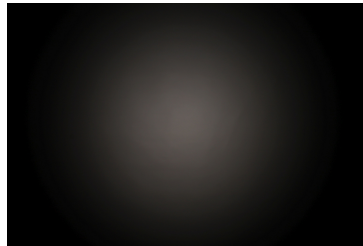
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

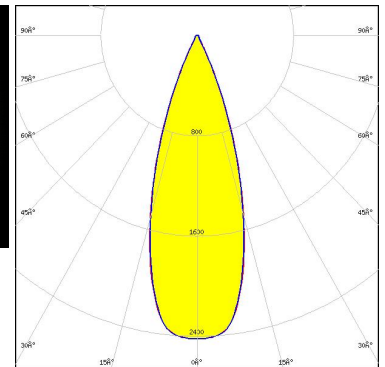
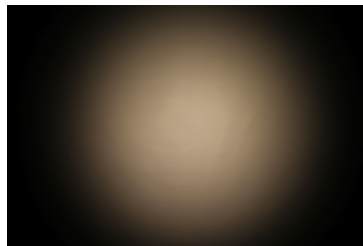
LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 33.0° / 55.0°  
Efficiency 83 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### SAMSUNG

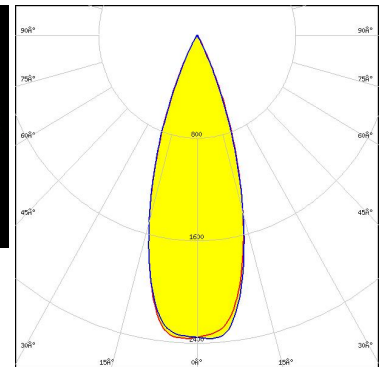
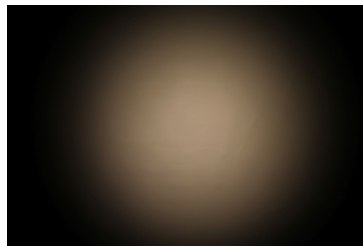
LED LC030C/040C G2  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 34.0° / 53.0°  
Efficiency 91 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

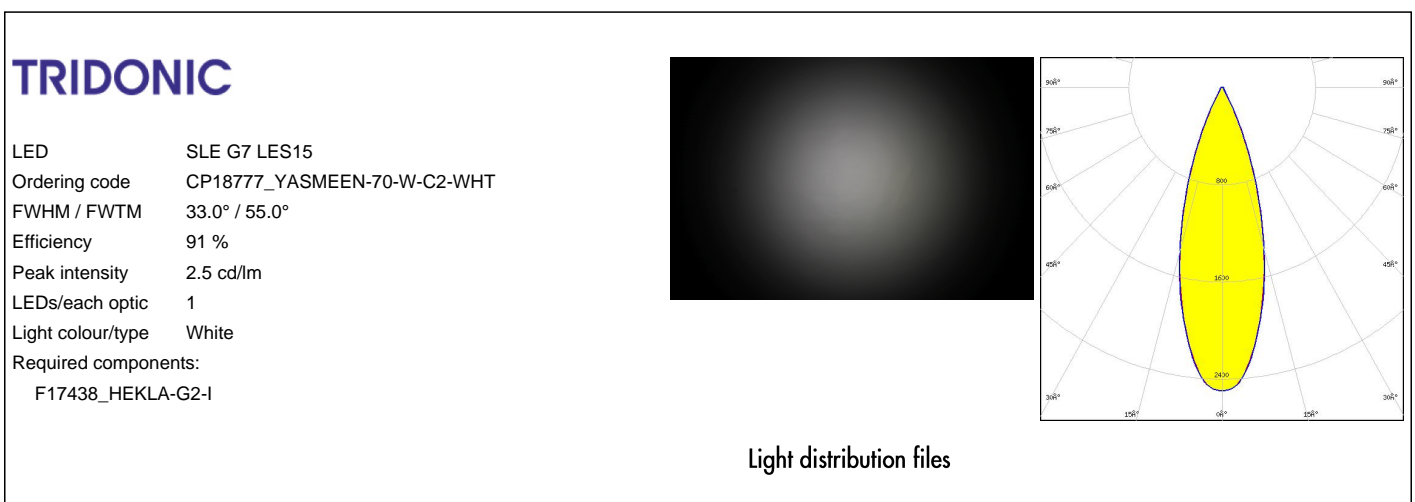
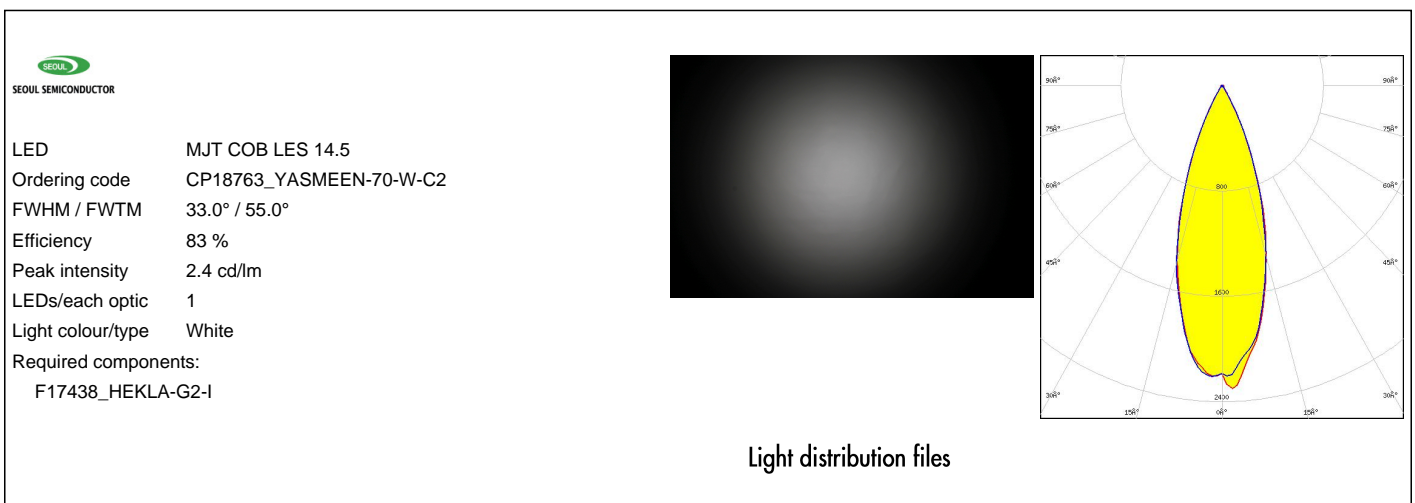
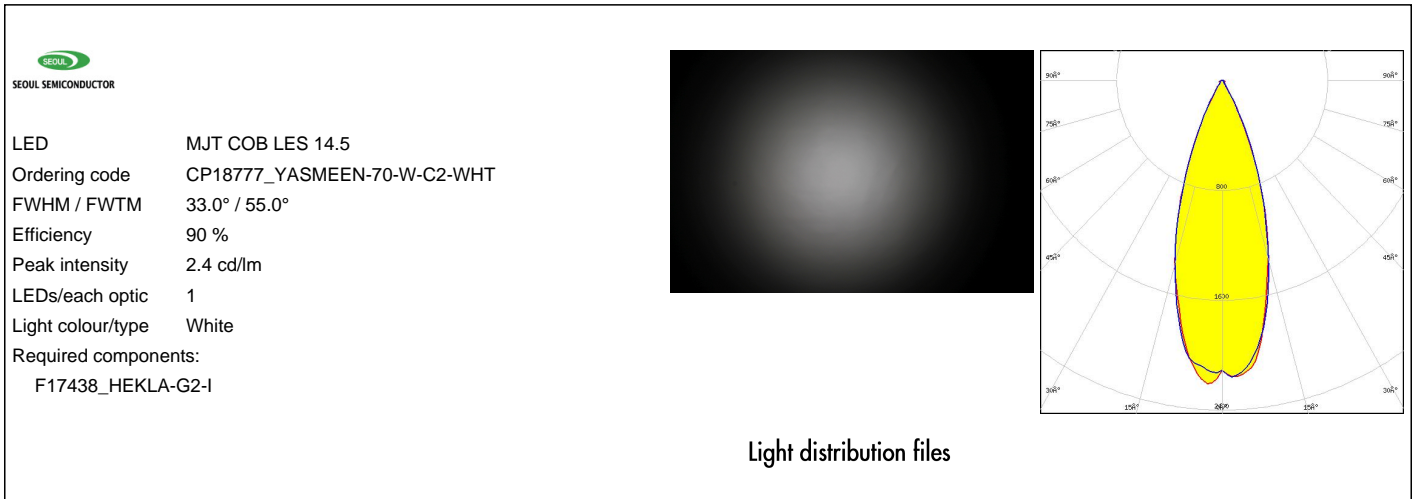
#### SAMSUNG

LED LC030C/040C G2  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 53.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

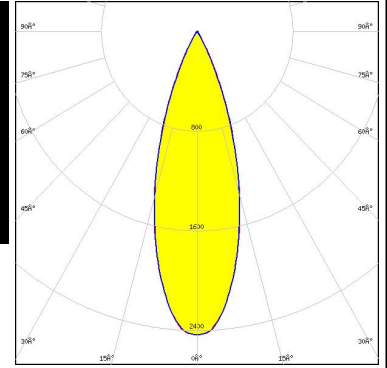
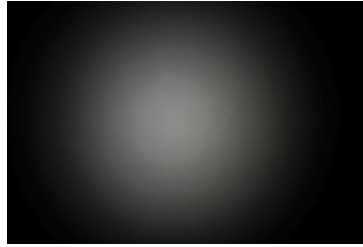
### OPTICAL RESULTS (MEASURED):



### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

LED SLE G7 LES15  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 33.0° / 55.0°  
Efficiency 84 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I

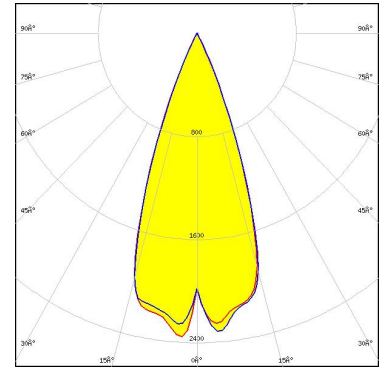


Light distribution files

### OPTICAL RESULTS (SIMULATED):



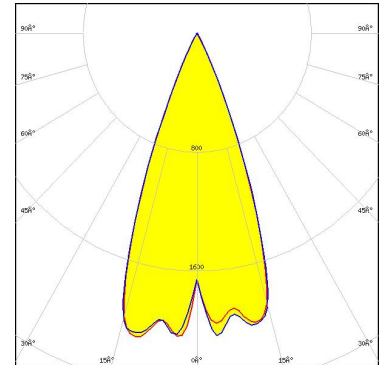
LED V3 HD Gen 8  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 39.0° / 52.0°  
Efficiency 89 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A



Light distribution files



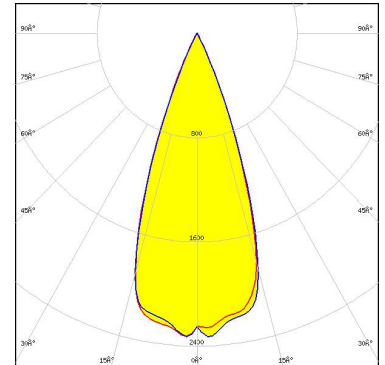
LED V3 HD Gen 8 FC  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 41.0° / 54.0°  
Efficiency 88 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED V4 HD Gen 8  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 39.0° / 52.0°  
Efficiency 89 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A

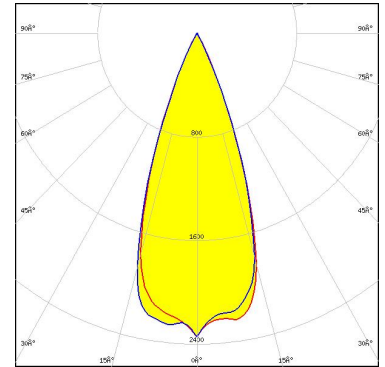


Light distribution files

### OPTICAL RESULTS (SIMULATED):



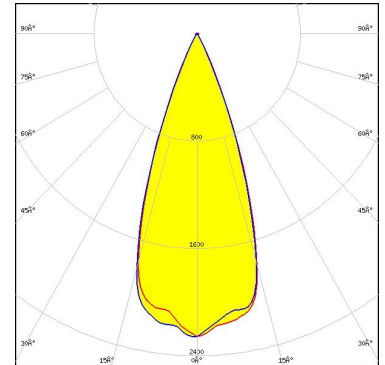
LED V6 Gen 8-9  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 89 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A



Light distribution files



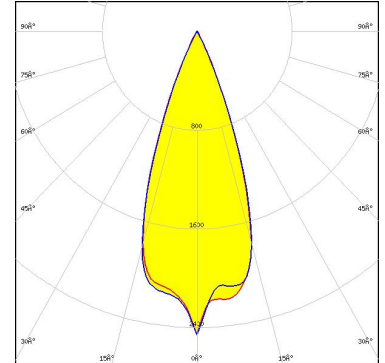
LED V6 HD Gen 7  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 87 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C



Light distribution files



LED V6 HD Gen 8  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 87 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15255\_HEKLA-SOCKET-C

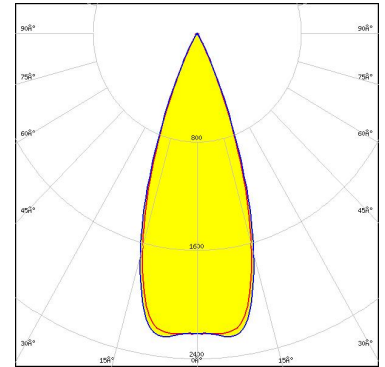


Light distribution files

### OPTICAL RESULTS (SIMULATED):



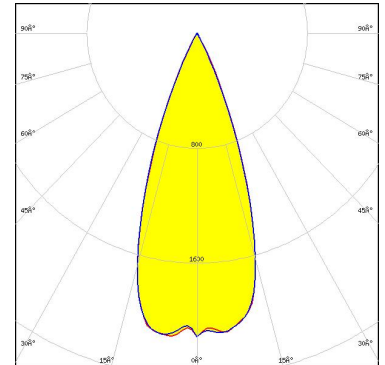
LED V8 Gen 8-9  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 86 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15253\_HEKLA-SOCKET-A



Light distribution files



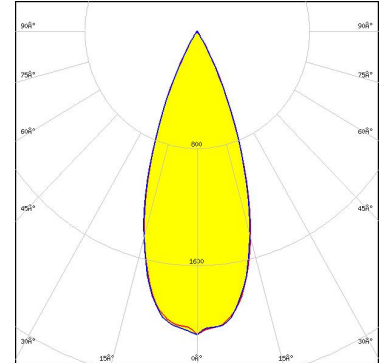
LED V9 HD Gen 8  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 39.0° / 54.0°  
Efficiency 86 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15859\_HEKLA-SOCKET-I



Light distribution files



LED VERO13  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 39.0° / 58.0°  
Efficiency 86 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K

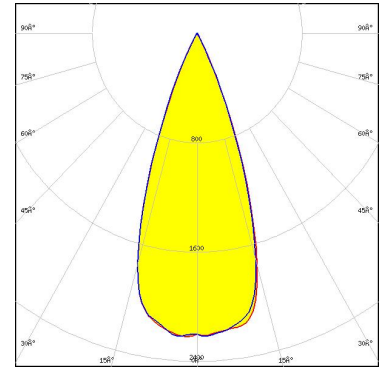


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED Vesta DTW 6mm  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 53.0°  
Efficiency 86 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

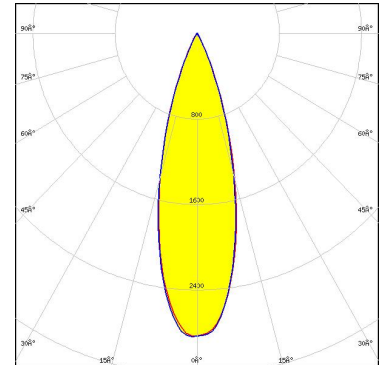


Bender Wirth: 652b Hekla

Light distribution files



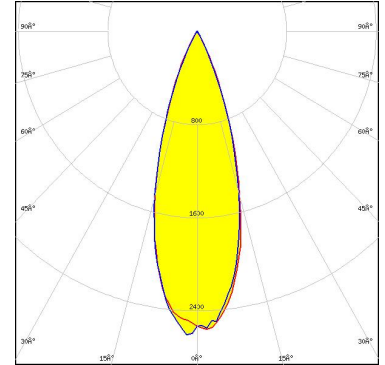
LED Vesta SE 13mm TW  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 30.0° / 50.0°  
Efficiency 81 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K



Light distribution files



LED Vesta TW 13mm (18W) DP  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 33.0° / 53.0°  
Efficiency 84 %  
Peak intensity 2.7 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K



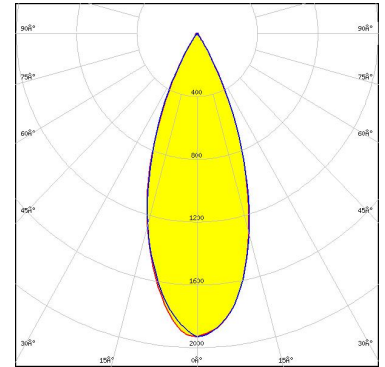
Light distribution files

Bender Wirth: 492 Typ L8

### OPTICAL RESULTS (SIMULATED):



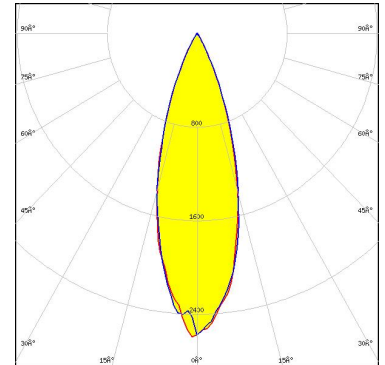
LED Vesta TW 15mm DP  
Ordering code C17240\_YASMEEN-70-W  
FWHM / FWTM 39.0° / 62.0°  
Efficiency 86 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Vesta TW 15mm DP  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 32.0° / 55.0°  
Efficiency 83 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K

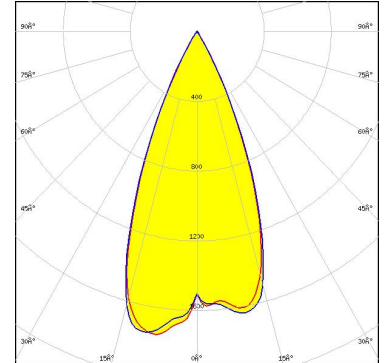


Light distribution files

Bender Wirth: 482 Typ L8



LED Vesta TW 9mm (9W) DP  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 44.0° / 60.0°  
Efficiency 87 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K



Light distribution files

Bender Wirth: 489 Typ L8



### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

LED	CLL03x/CLU03x
Ordering code	CP18770_YASMEEN-70-W-B2
FWHM / FWTM	36.0° / 56.0°
Efficiency	85 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.360.1010

[Light distribution files](#)

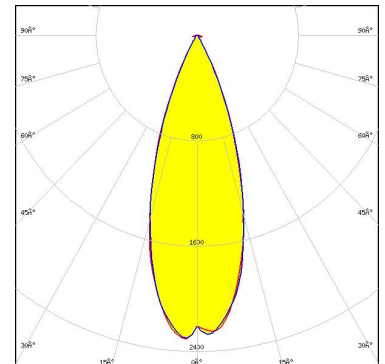
#### CITIZEN

LED	CLL03x/CLU03x
Ordering code	CP18763_YASMEEN-70-W-C2
FWHM / FWTM	34.0° / 56.0°
Efficiency	84 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	F17438_HEKLA-G2-I

[Light distribution files](#)

#### CITIZEN

LED	CLL03x/CLU03x
Ordering code	CP18784_YASMEEN-70-W-B2-WHT
FWHM / FWTM	36.0° / 56.0°
Efficiency	92 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



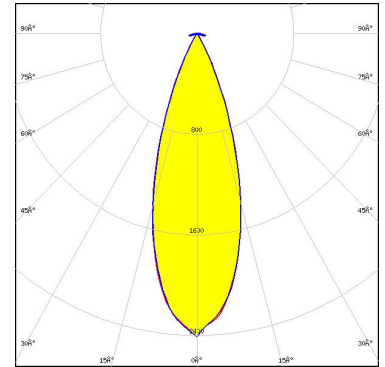
BJB: 47.360.1010

[Light distribution files](#)

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

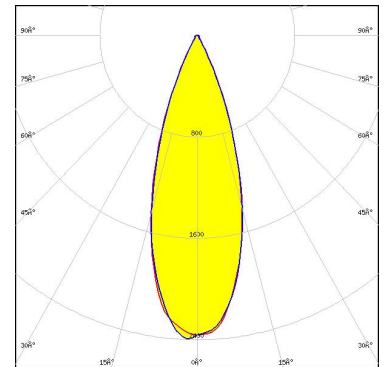
LED CLL03x/CLU03x  
Ordering code C17240\_YASMEEN-70-W  
FWHM / FWTM 34.0° / 56.0°  
Efficiency 93 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### CITIZEN

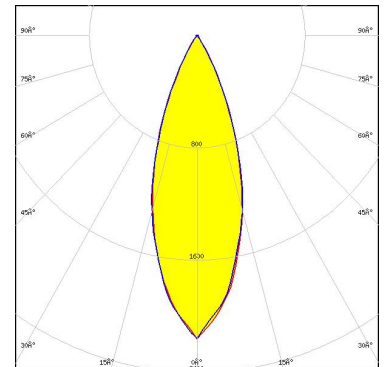
LED CLL03x/CLU03x  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 35.0° / 56.0°  
Efficiency 91 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### CITIZEN

LED CLU03Q Type-F  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 35.0 + 36.0° / 60.0°  
Efficiency 83 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I

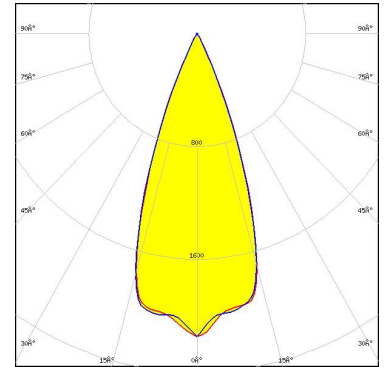


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

LED CLU700/701/702/703  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 39.0° / 54.0°  
Efficiency 83 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

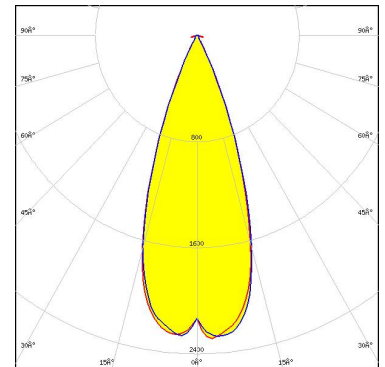


BJB: 47.360.1020

Light distribution files

#### CITIZEN

LED CLU712/713  
Ordering code CP18784\_YASMEEN-70-W-B2-WHT  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 93 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

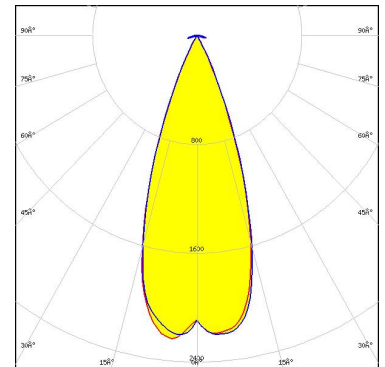


BJB: 47.360.1010

Light distribution files

#### CITIZEN

LED CLU712/713  
Ordering code C17240\_YASMEEN-70-W  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 94 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

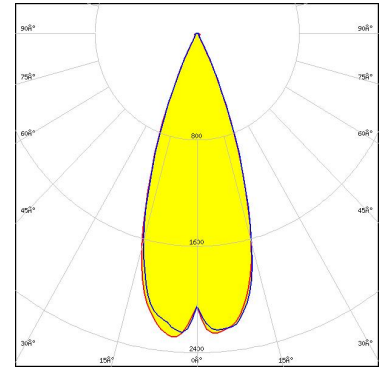


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

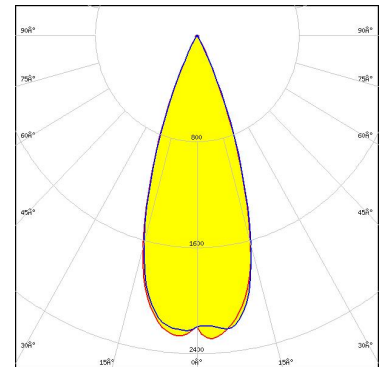
LED CLU712/713  
Ordering code CP18777\_YASMEEN-70-W-C2-WHT  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 92 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### CITIZEN

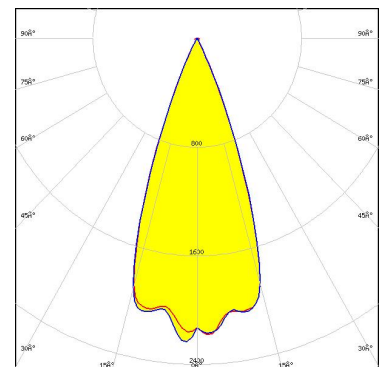
LED CLU712/713  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files



LED CHA0304  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 40.0° / 52.0°  
Efficiency 86 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C

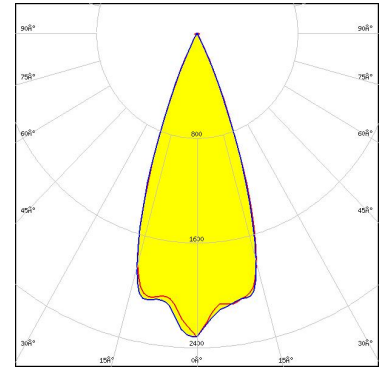


Light distribution files

### OPTICAL RESULTS (SIMULATED):



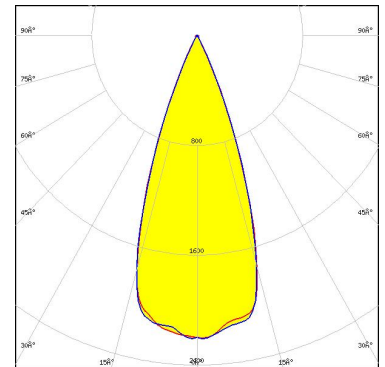
LED CHA0410  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 86 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files



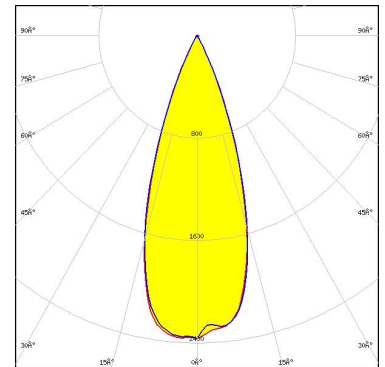
LED CHA0612  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 86 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files



LED CMU10xx  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 54.0°  
Efficiency 86 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C

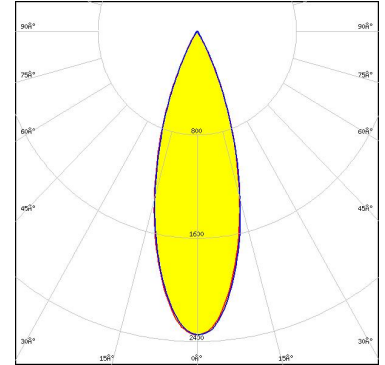


Light distribution files

### OPTICAL RESULTS (SIMULATED):



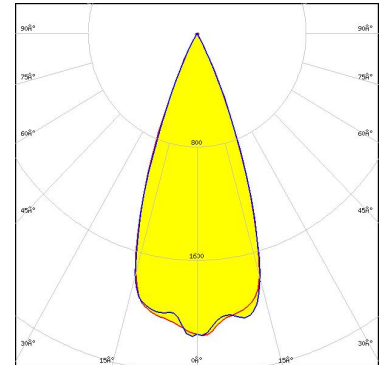
LED CMU15xx  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 56.0°  
Efficiency 85 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files



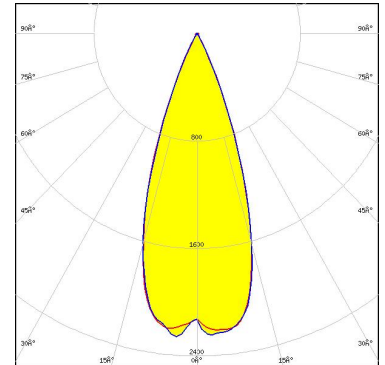
LED CXA/B 13xx  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 40.0° / 54.0°  
Efficiency 86 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17439\_HEKLA-G2-J



Light distribution files



LED CXA/B 15xx  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17436\_HEKLA-G2-D

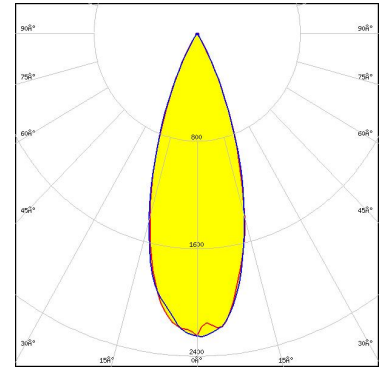


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED CXA/B 1830  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 56.0°  
Efficiency 85 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

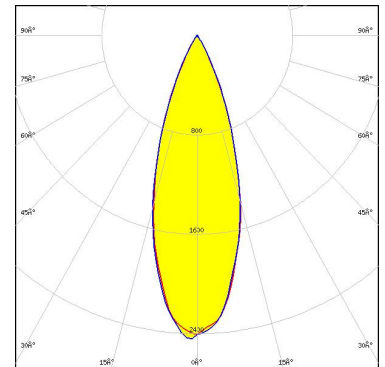


Bender Wirth: 637b Hekla

Light distribution files



LED LUXEON CX Plus CoB L08 (Gen2)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 56.0°  
Efficiency 86 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

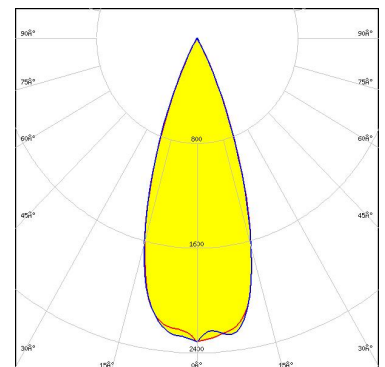


Bender Wirth: 637a Hekla

Light distribution files



LED LUXEON CoB 1202/1203  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 37.0° / 54.0°  
Efficiency 86 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15858\_HEKLA-SOCKET-H

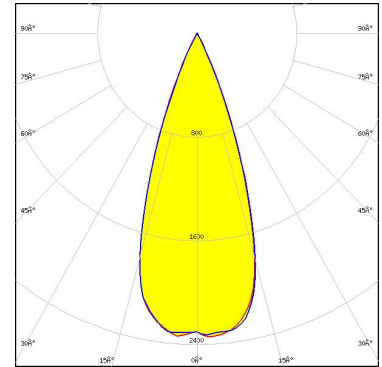


Light distribution files

### OPTICAL RESULTS (SIMULATED):



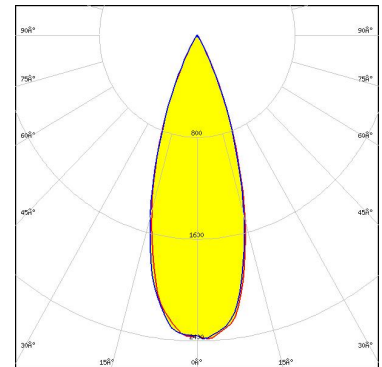
**LED** LUXEON CoB 1202HD  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 38.0° / 53.0°  
**Efficiency** 88 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15848\_HEKLA-SOCKET-G



Light distribution files



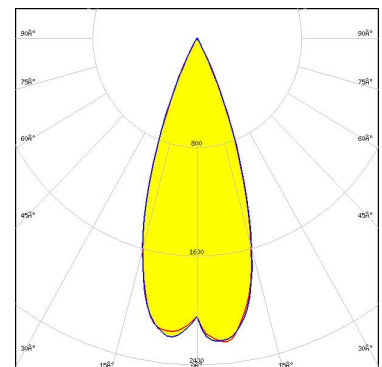
**LED** LUXEON CoB 1204/1205  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 35.0° / 56.0°  
**Efficiency** 86 %  
**Peak intensity** 2.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 632a Hekla XL



Light distribution files



**LED** LUXEON CoB 1204HD  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 38.0° / 54.0°  
**Efficiency** 86 %  
**Peak intensity** 2.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15858\_HEKLA-SOCKET-H



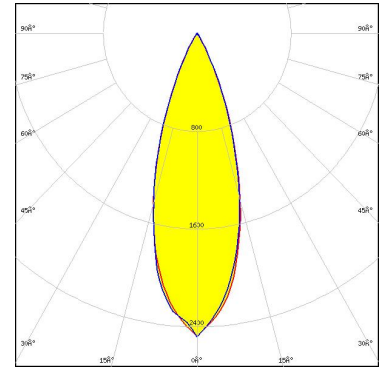
Light distribution files



### OPTICAL RESULTS (SIMULATED):



LED LUXEON CoB 1208  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 56.0°  
Efficiency 85 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

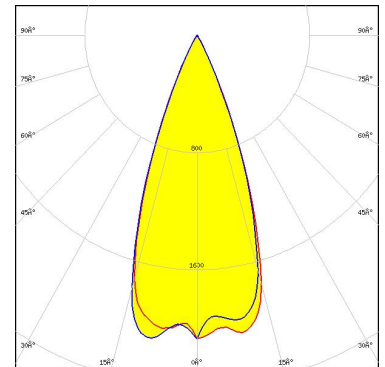


Bender Wirth: 632a Hekla XL

Light distribution files



LED LUXEON CX Plus CoB - HD S02H6  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 40.0° / 55.0°  
Efficiency 87 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

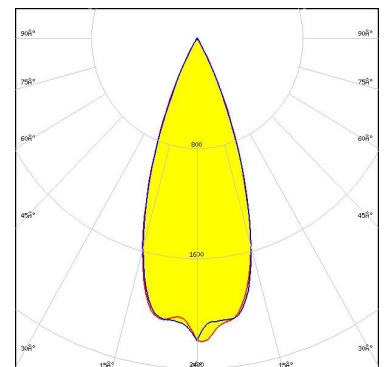


Bender Wirth: 634c Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB - HD S04H9  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 38.0° / 56.0°  
Efficiency 87 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



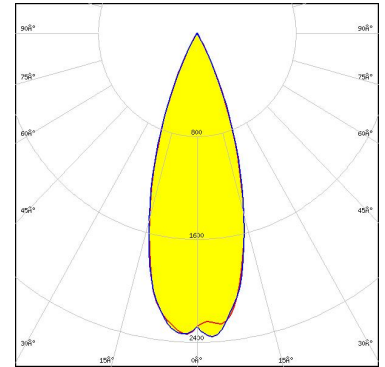
Bender Wirth: 634a Bayonet35L

Light distribution files

### OPTICAL RESULTS (SIMULATED):



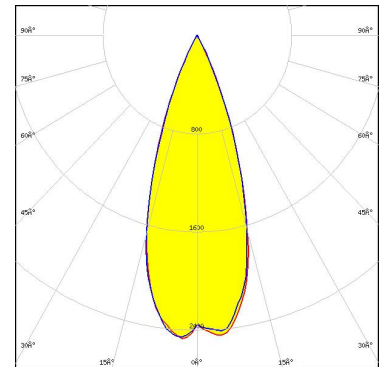
LED LUXEON CX Plus CoB L04 / L05 (Gen2)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 56.0°  
Efficiency 85 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15254\_HEKLA-SOCKET-B



Light distribution files



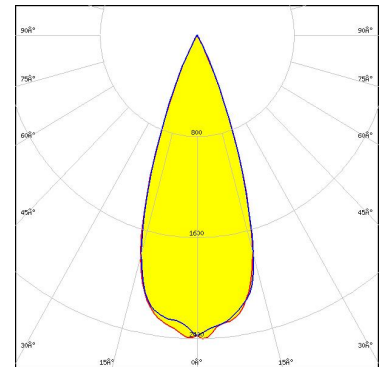
LED LUXEON CX Plus CoB M02 / M03 (Gen2)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 54.0°  
Efficiency 87 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15256\_HEKLA-SOCKET-D



Light distribution files



LED LUXEON CX Plus CoB S01 (Gen2)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 53.0°  
Efficiency 88 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15956\_HEKLA-SOCKET-J

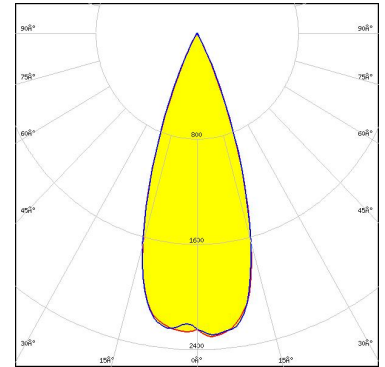


Light distribution files

### OPTICAL RESULTS (SIMULATED):



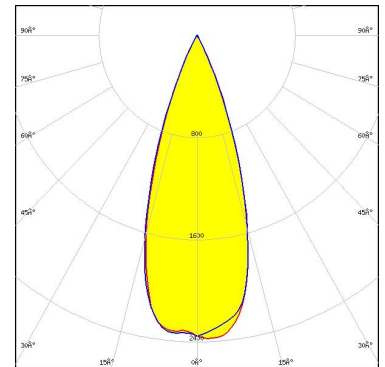
**LED** CHM-9 XH (19x19)  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 38.0° / 54.0°  
**Efficiency** 85 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F15859\_HEKLA-SOCKET-I



Light distribution files



**LED** CTM-9 (Tunable White) Gen2  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 36.0° / 52.0°  
**Efficiency** 84 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** Tunable White  
**Required components:**  
 C16142\_HEKLA-SOCKET-K

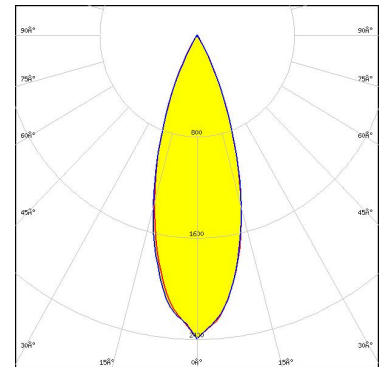


Light distribution files

Bender Wirth: 495 Typ L8



**LED** CxM-14 (19x19)  
**Ordering code** CP18763\_YASMEEN-70-W-C2  
**FWHM / FWTM** 34.0° / 56.0°  
**Efficiency** 84 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 F17438\_HEKLA-G2-I

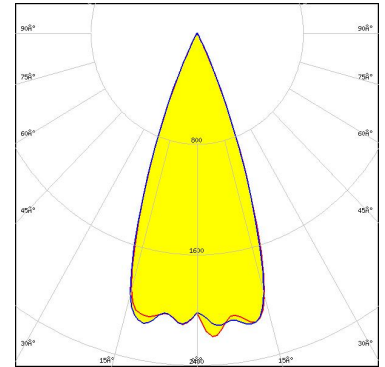


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED CXM-3  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 40.0° / 52.0°  
Efficiency 88 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

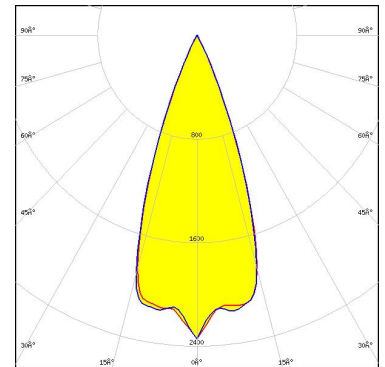


Bender Wirth: 634a Bayonet35L

Light distribution files



LED CXM-4  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 88 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

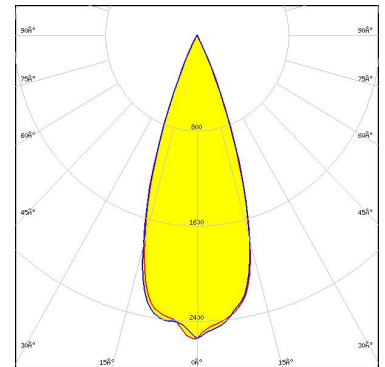


Bender Wirth: 634a Bayonet35L

Light distribution files



LED CxM-6 (13.5x13.5)  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 87 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



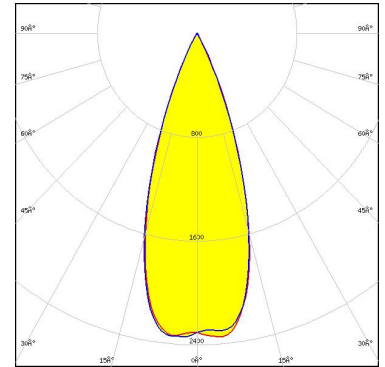
BJB: 47.360.1020

Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED CxM-9 (13.5x13.5)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 54.0°  
Efficiency 86 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files

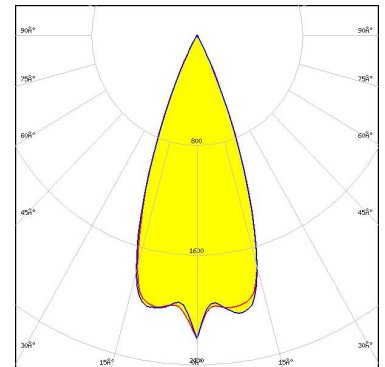


LED COB L-Type (LES 9)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F15858\_HEKLA-SOCKET-H

Light distribution files

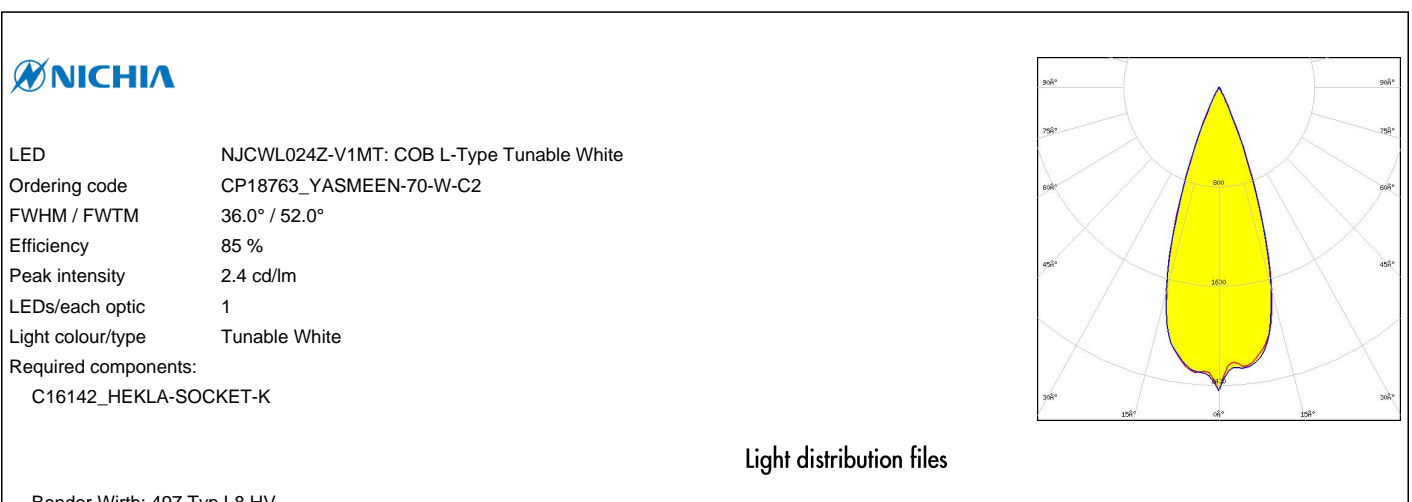
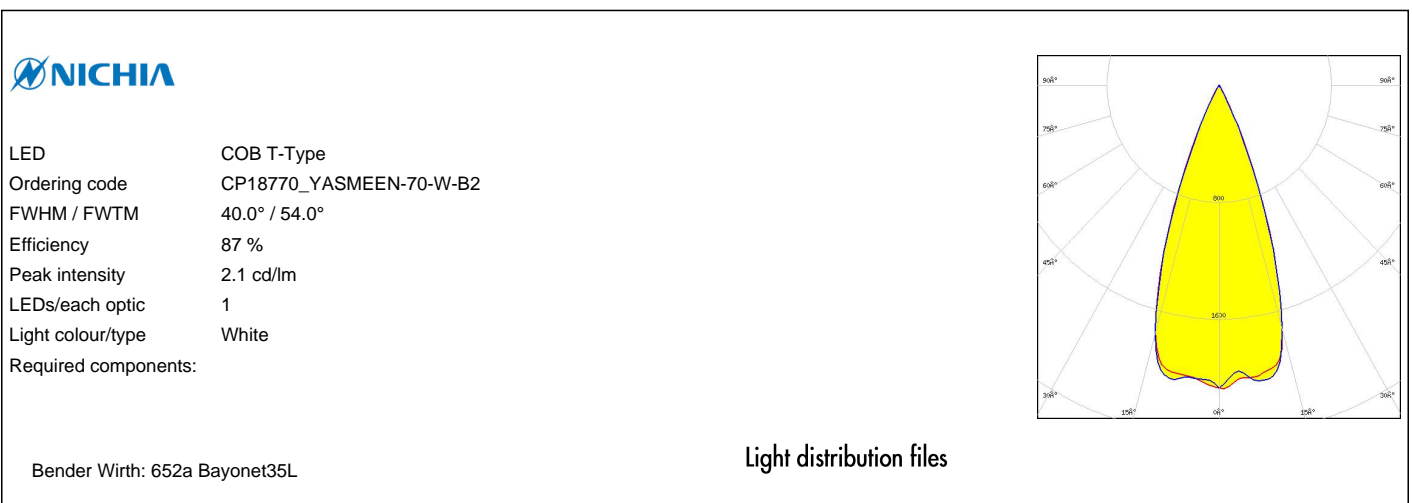
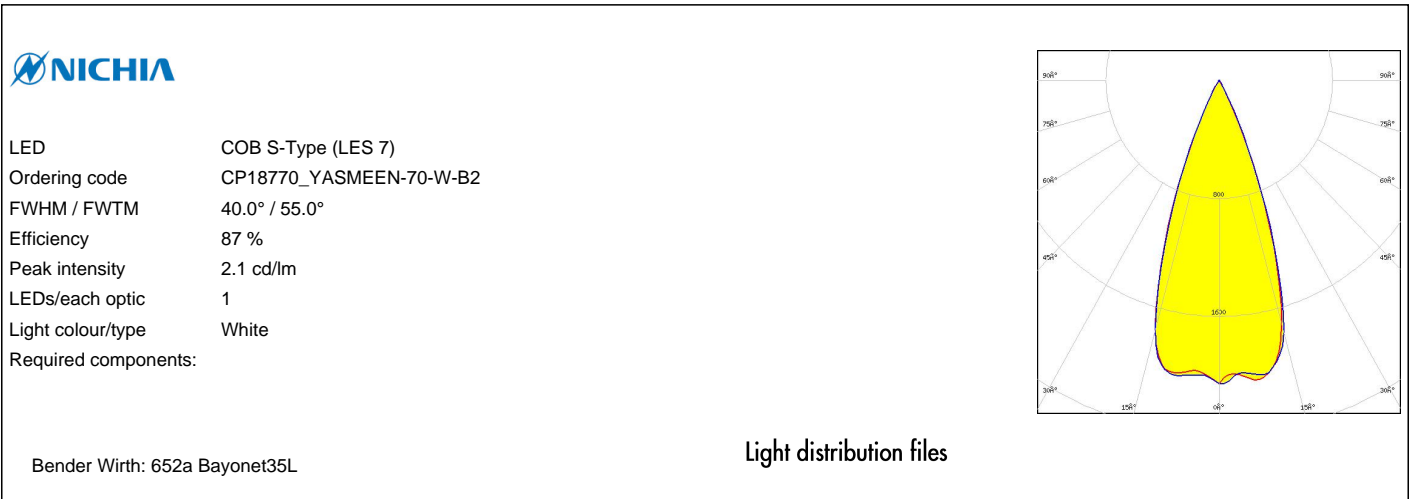


LED COB S-Type (LES 6)  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 40.0° / 54.0°  
Efficiency 87 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
Bender Wirth: 652a Bayonet35L



Light distribution files

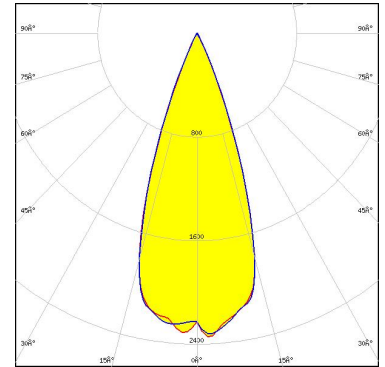
### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):



LED NJNWS012Z-V1MT: COB S-Type Tunable White  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 85 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K

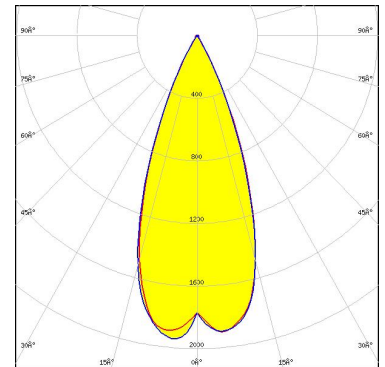


Light distribution files

Bender Wirth: 495 Typ L8 HV



LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 41.0° / 58.0°  
Efficiency 86 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
C16142\_HEKLA-SOCKET-K

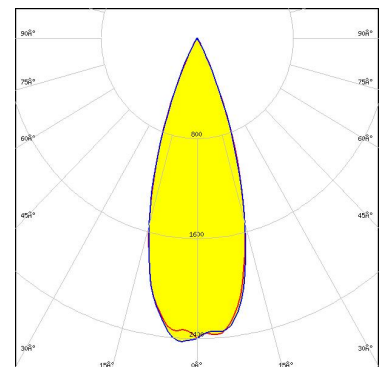


Light distribution files

Bender Wirth: 498 Typ L8 HV



LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 54.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K



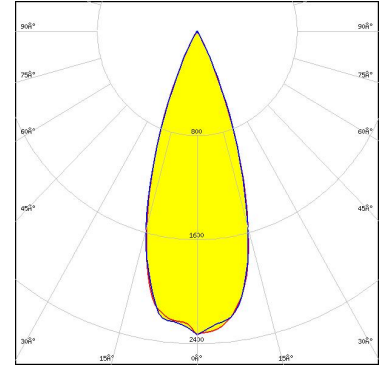
Light distribution files

Bender Wirth: 498 Typ L8 HV

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

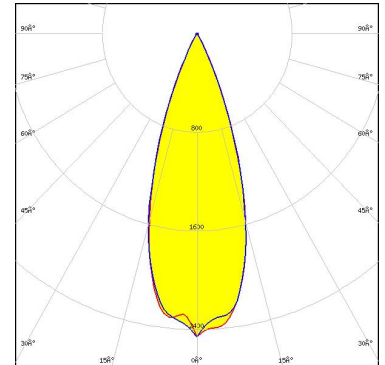
LED LC003D / LC006D / LC009D / LC013D  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files

#### SAMSUNG

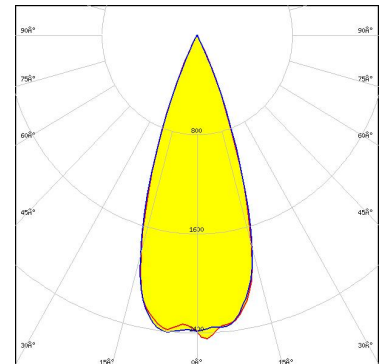
LED LC003D / LC006D / LC009D / LC013D  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-C



Light distribution files

#### SAMSUNG

LED LC010C G2  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 38.0° / 52.0°  
Efficiency 87 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

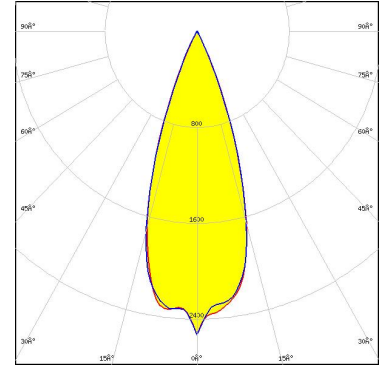
BJB: 47.360.1020



### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LC010T (Tunable White)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 36.0° / 52.0°  
Efficiency 85 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K

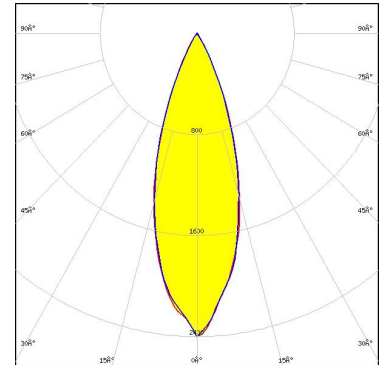


Light distribution files

Bender Wirth: 501 Typ L8

#### SAMSUNG

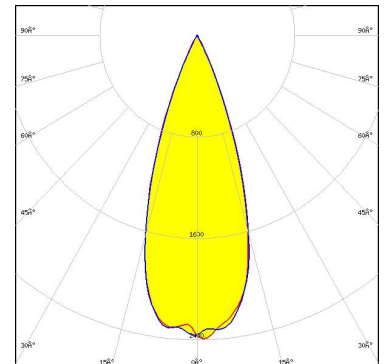
LED LC016D / LC019D / LC026D / LC033D  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 34.0° / 56.0°  
Efficiency 83 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### SAMSUNG

LED LC020C G2  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 36.0° / 53.0°  
Efficiency 85 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



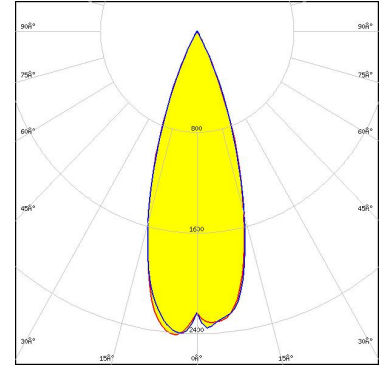
Light distribution files

BJB: 47.360.1010

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LC020T (Tunable white)  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 35.0° / 54.0°  
Efficiency 85 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type Tunable White  
Required components:  
C16142\_HEKLA-SOCKET-K

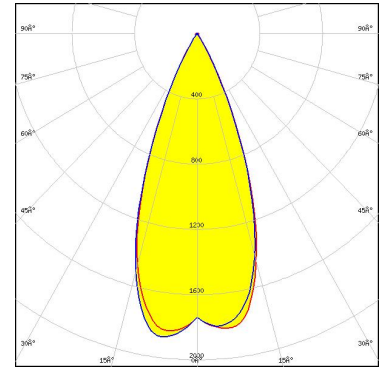


Light distribution files

Bender Wirth: 501 Typ L8

#### SAMSUNG

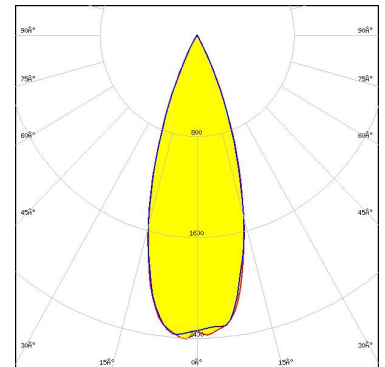
LED LC020T (Tunable white)  
Ordering code C17240\_YASMEEN-70-W  
FWHM / FWTM 42.0° / 60.0°  
Efficiency 86 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

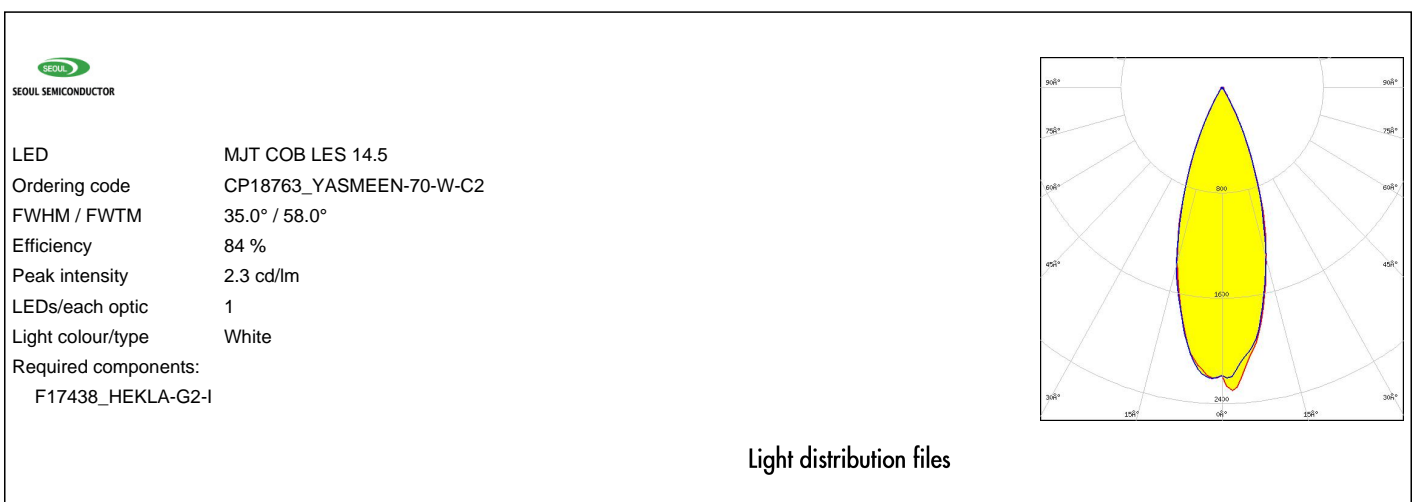
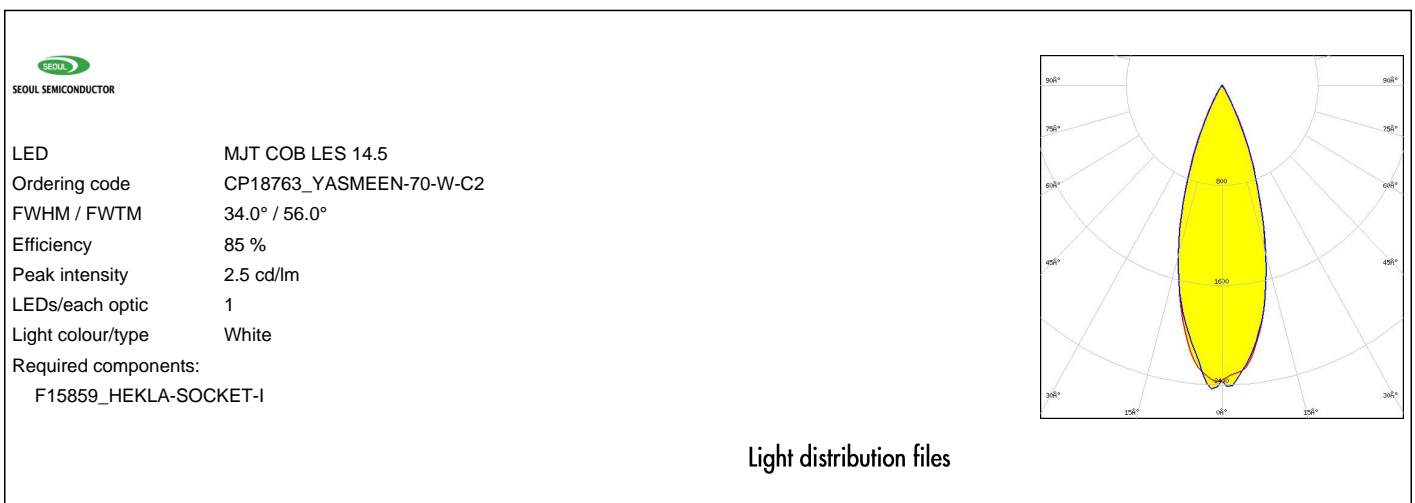
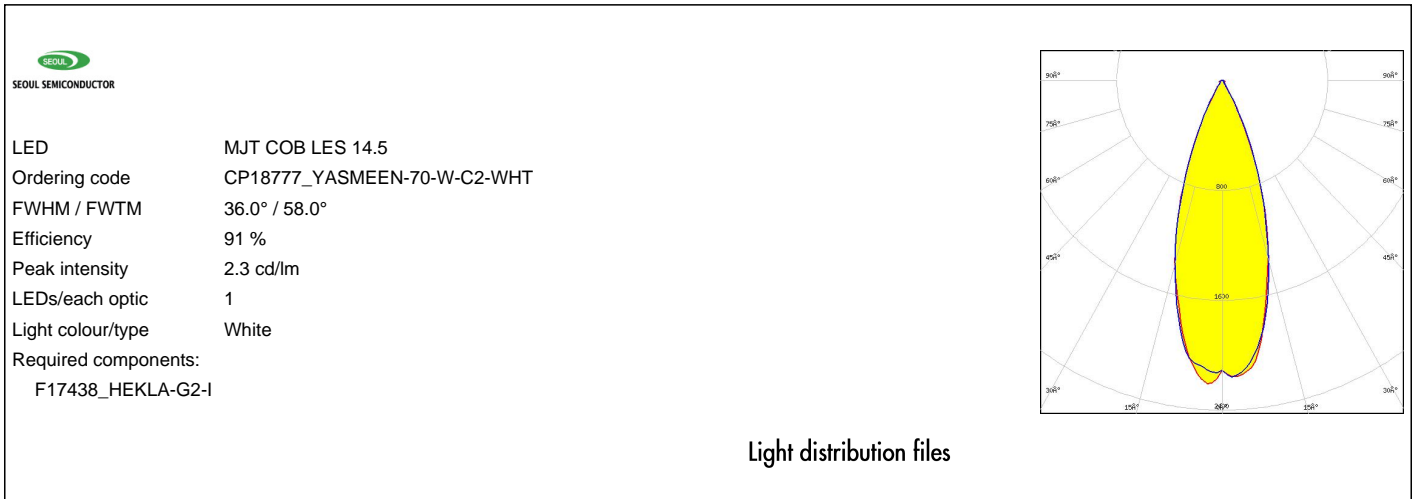
LED LC030C/040C G2  
Ordering code CP18770\_YASMEEN-70-W-B2  
FWHM / FWTM 35.0° / 54.0°  
Efficiency 84 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



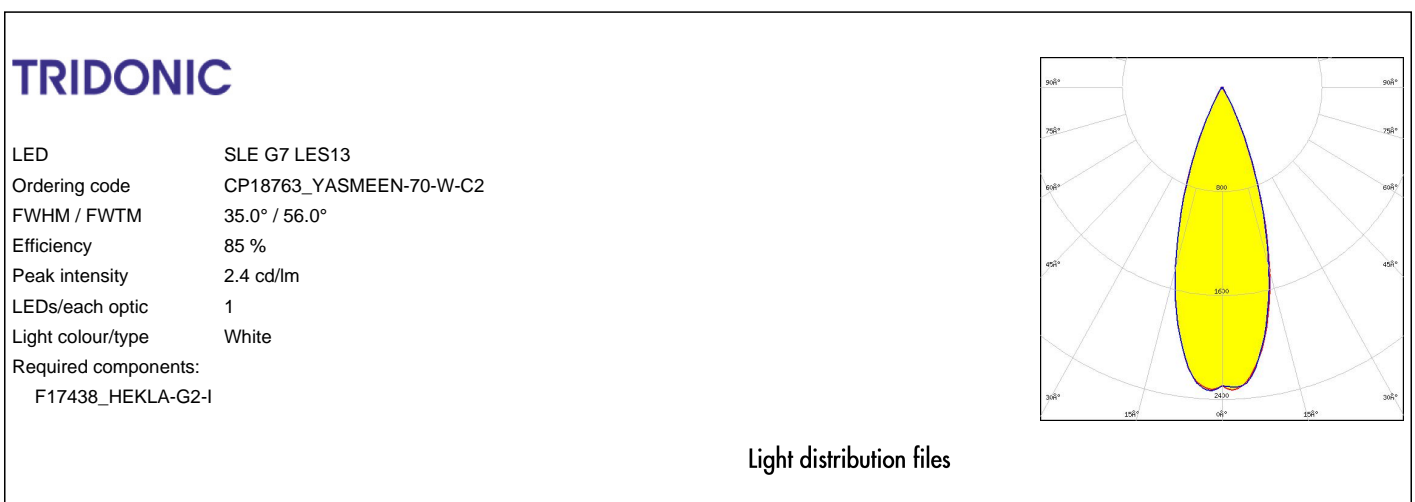
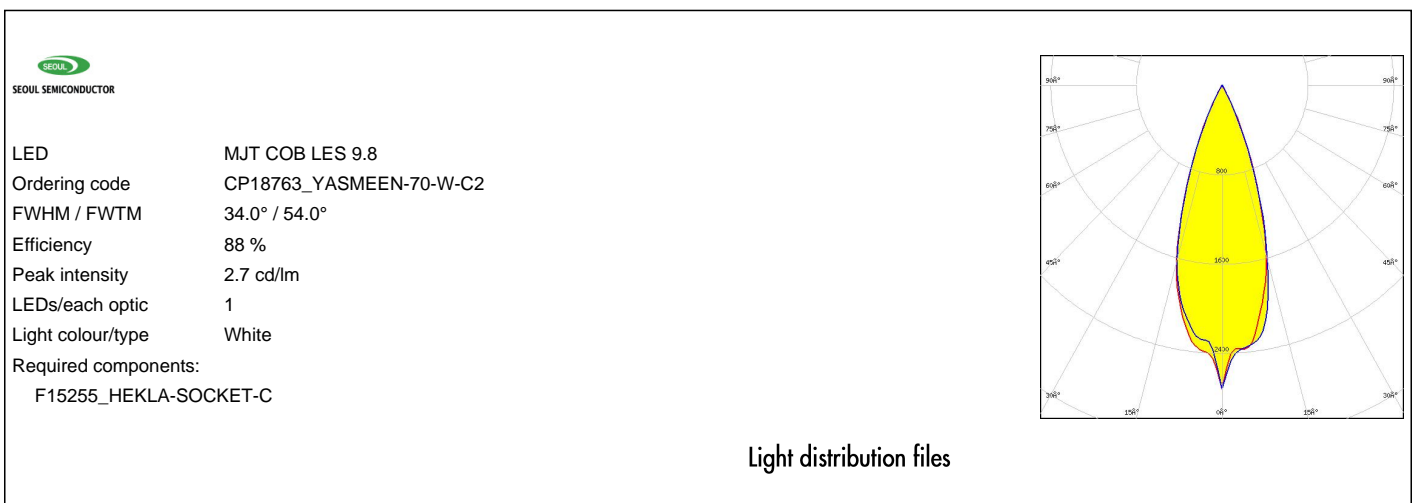
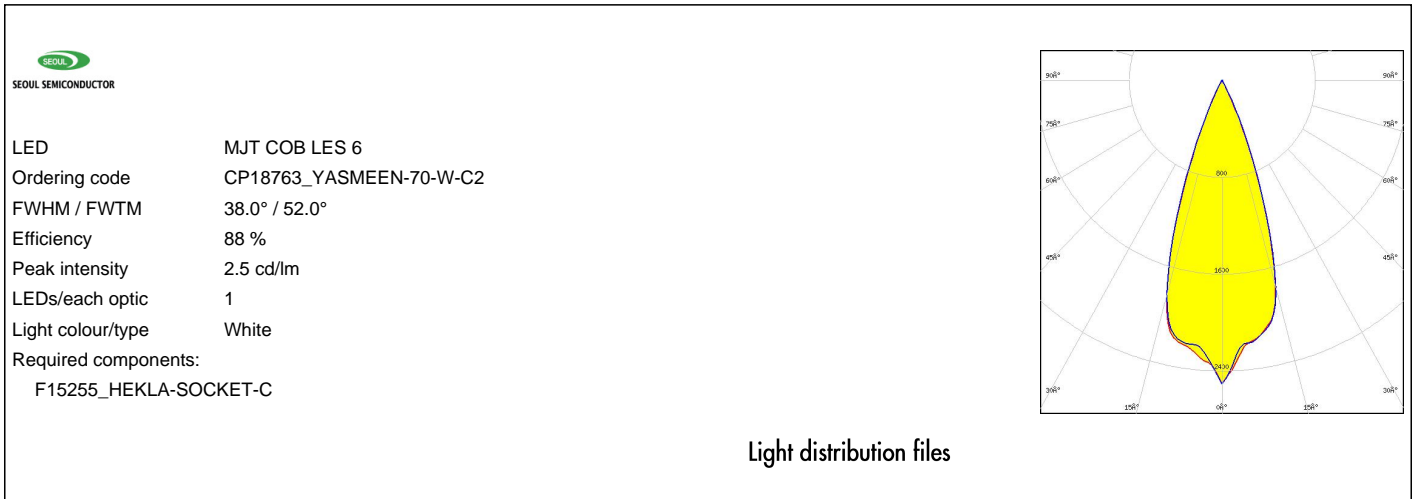
Light distribution files

BJB: 47.360.1010

### OPTICAL RESULTS (SIMULATED):



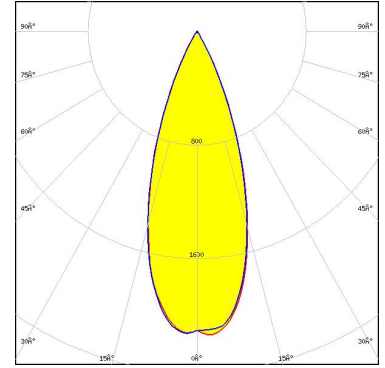
### OPTICAL RESULTS (SIMULATED):



### OPTICAL RESULTS (SIMULATED):

#### XICATO

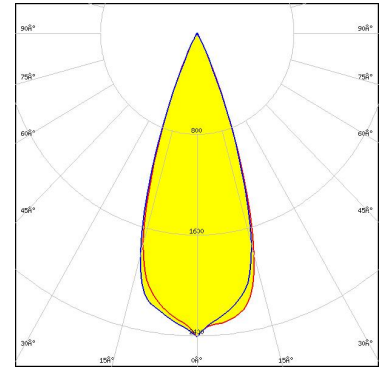
LED XOB 14.5 mm  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 37.0° / 58.0°  
Efficiency 84 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17438\_HEKLA-G2-I



Light distribution files

#### XICATO

LED XOB 6 mm  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 37.0° / 52.0°  
Efficiency 86 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

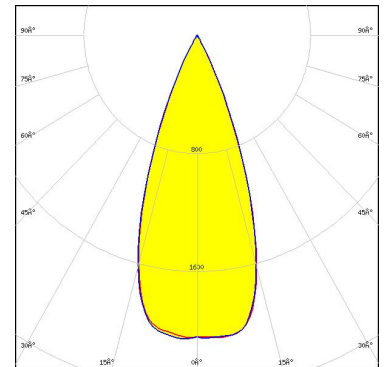


Bender Wirth: 634b Hekla

Light distribution files

#### XICATO

LED XOB 9.8 mm  
Ordering code CP18763\_YASMEEN-70-W-C2  
FWHM / FWTM 40.0° / 56.0°  
Efficiency 87 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:  
F17435\_HEKLA-G2-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.

### 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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