

YASMEEN-70-W

~36° wide beam

SPECIFICATION:

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

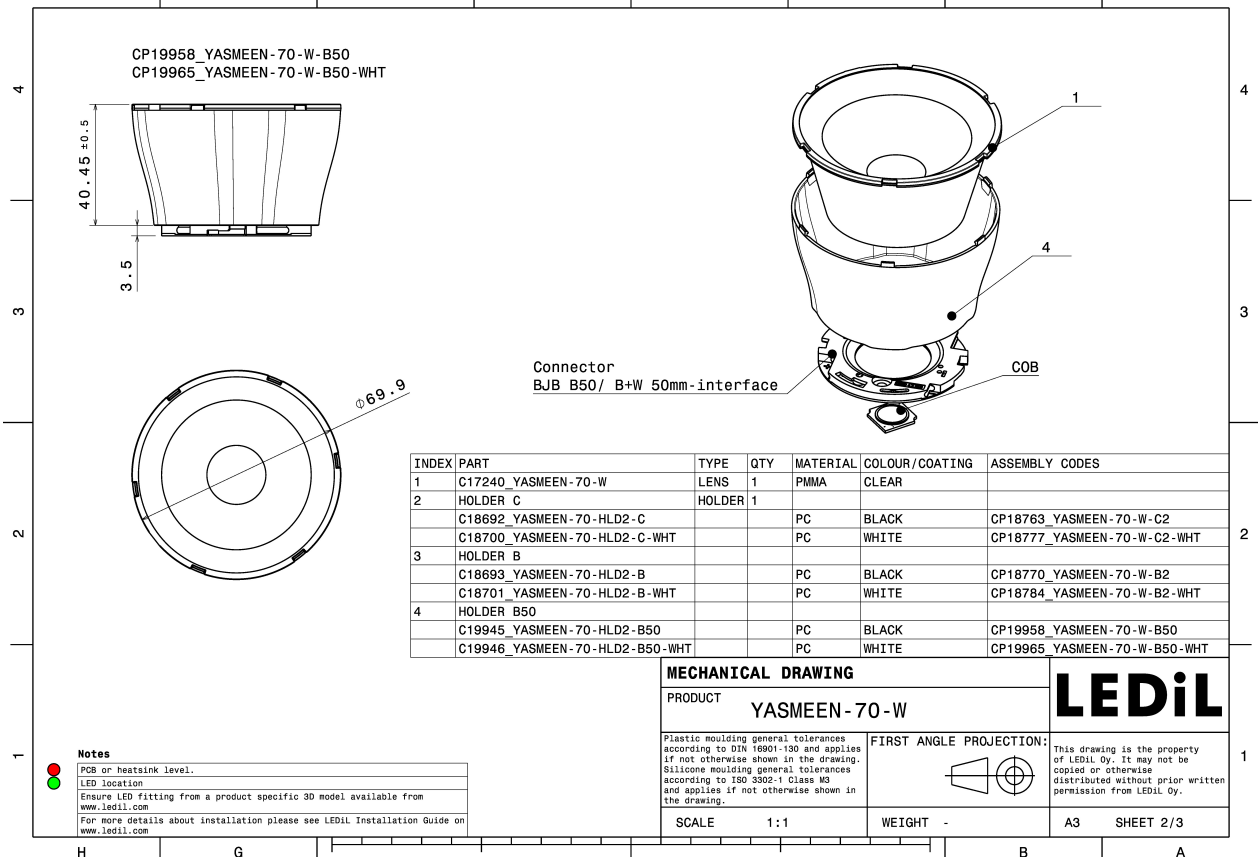
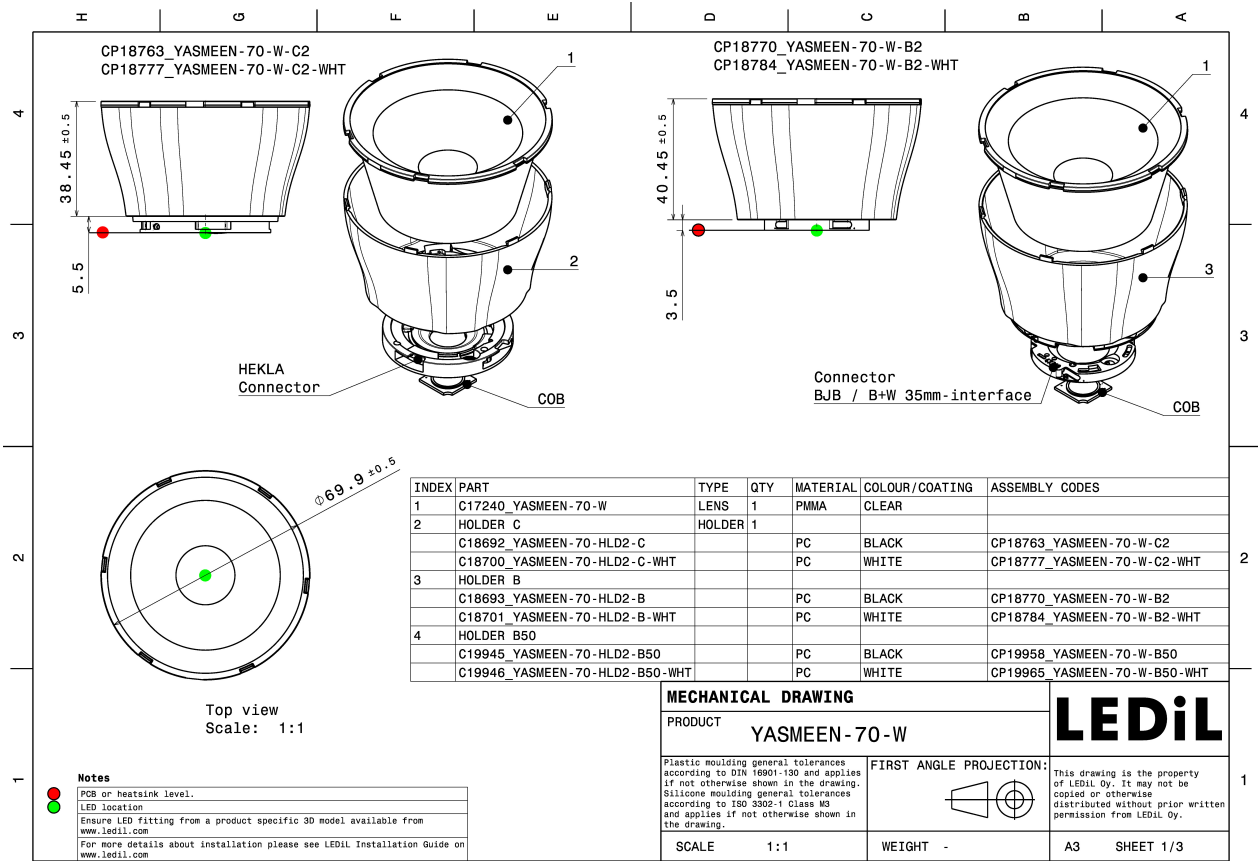
MATERIALS:

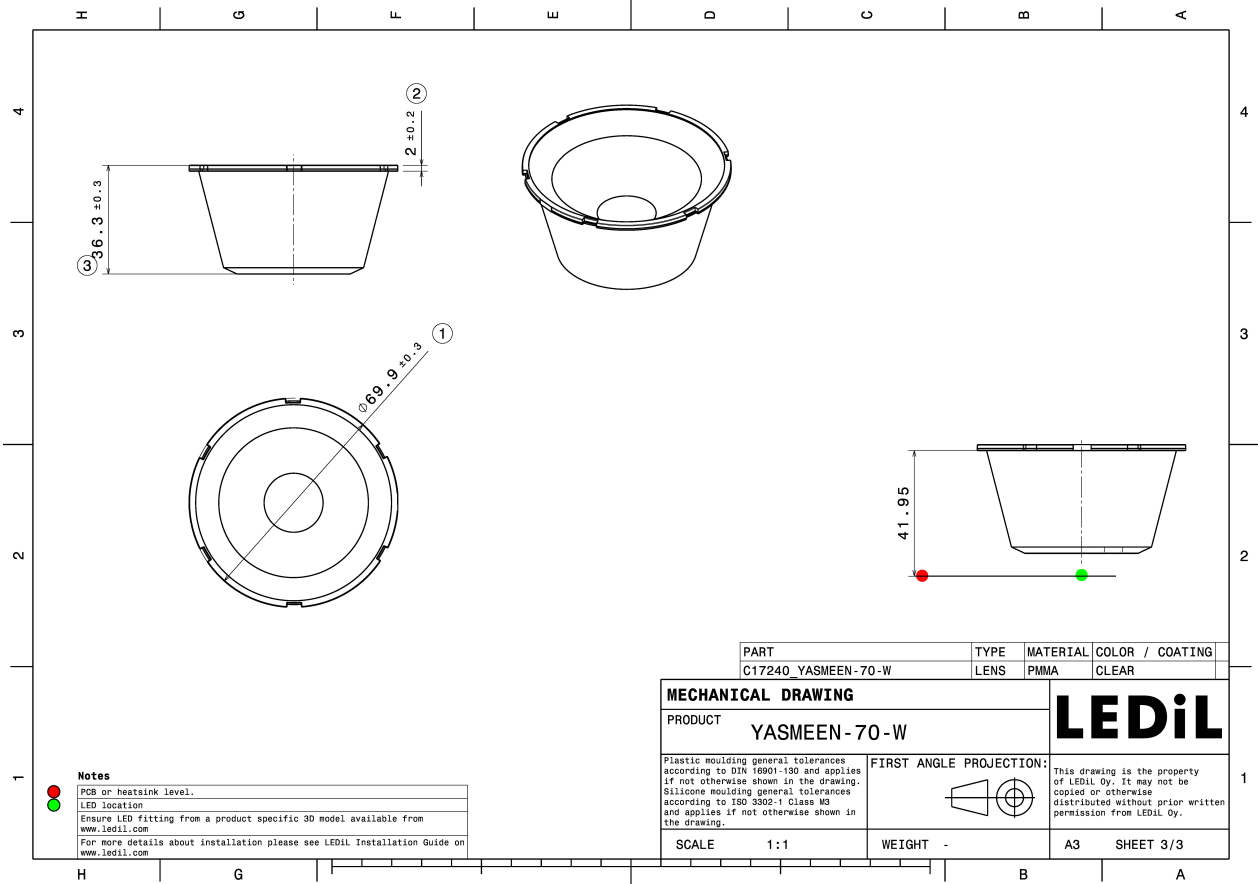
Component	Type	Material	Colour	Finish	Length (mm)
YASMEEN-70-W	Single lens	PMMA	clear		
YASMEEN-70-HLD2-C	Holder C	PC	black		
YASMEEN-70-HLD2-B	Holder B	PC	black		
YASMEEN-70-HLD2-C-WHT	Holder C	PC	white		
YASMEEN-70-HLD2-B-WHT	Holder B	PC	white		
YASMEEN-70-HLD2-B50	Holder B	PC	black		
YASMEEN-70-HLD2-B50-WHT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



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17240_YASMEEN-70-W	105	105	15	8.4
Assembly				
CP19965_YASMEEN-70-W-B50-WHT	105	105	15	9.7
CP19958_YASMEEN-70-W-B50	105	105	15	9.6
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



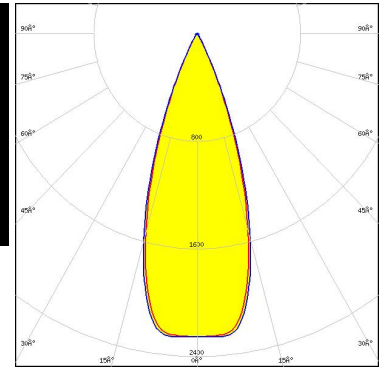
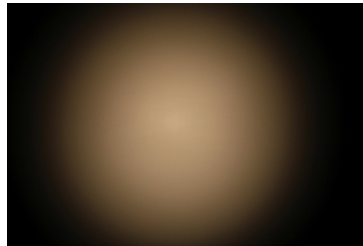


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



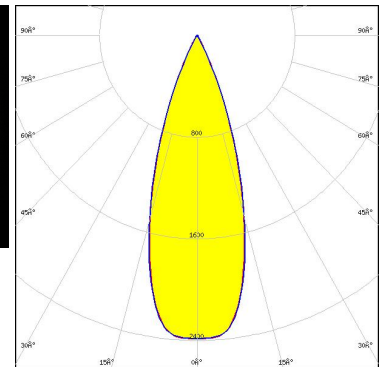
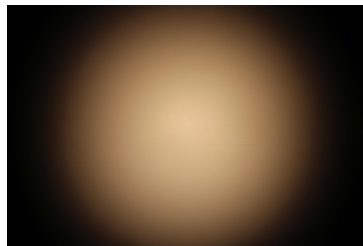
LED V10 Gen 8-9
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 37.0° / 54.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F15255_HEKLA-SOCKET-C



Light distribution files



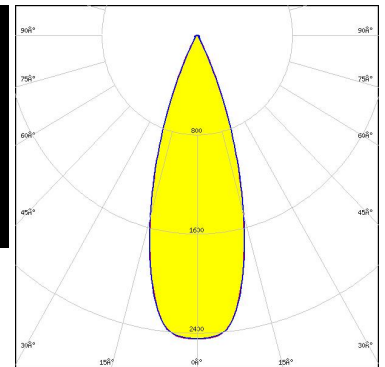
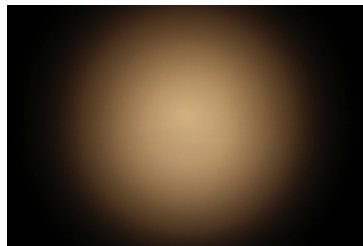
LED V11 HD Gen 8
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 35.0° / 53.0°
Efficiency 85 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 Bender Wirth: 633d Hekla



Light distribution files



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

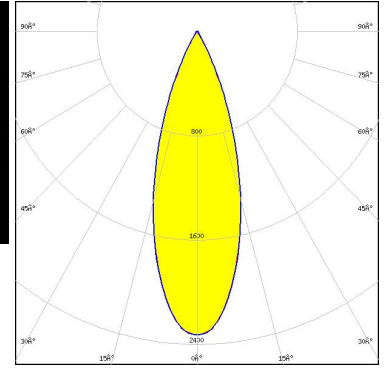


Light distribution files

OPTICAL RESULTS (MEASURED):



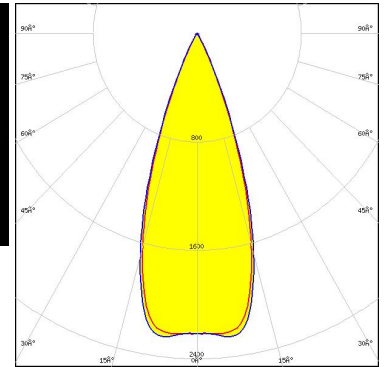
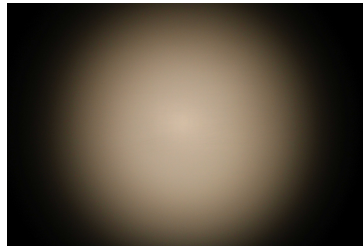
LED V13 Gen 8-9
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 34.0° / 57.0°
Efficiency 84 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15859_HEKLA-SOCKET-I



Light distribution files



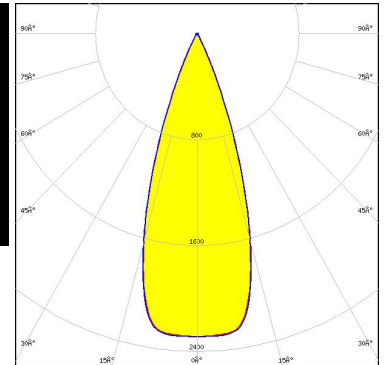
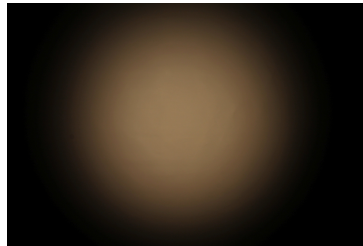
LED V8 Gen 8-9
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 37.0° / 54.0°
Efficiency 88 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15253_HEKLA-SOCKET-A



Light distribution files



LED V9 HD Gen7
Ordering code 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

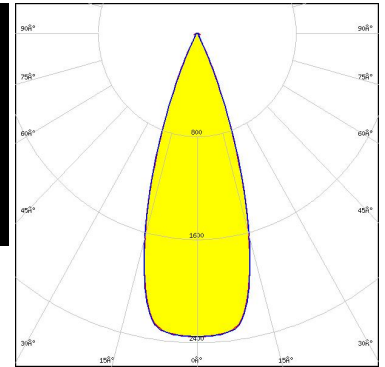
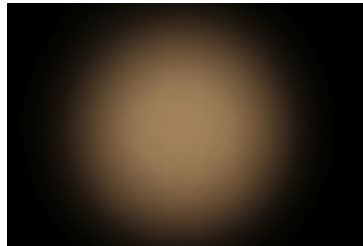


Light distribution files

OPTICAL RESULTS (MEASURED):



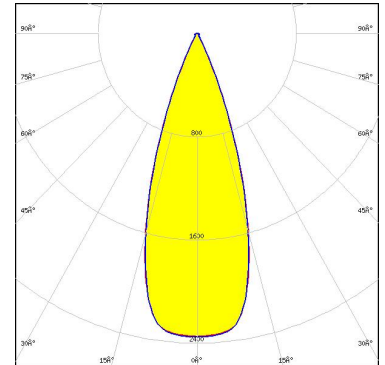
LED V9 HD Gen7
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 36.0° / 52.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15859_HEKLA-SOCKET-I



Light distribution files



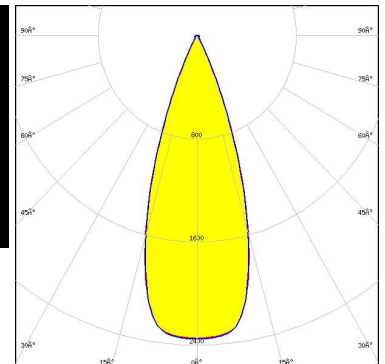
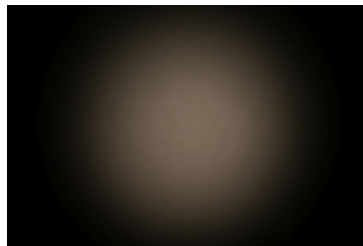
LED VERO10
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 36.0° / 52.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15616_HEKLA-SOCKET-F



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

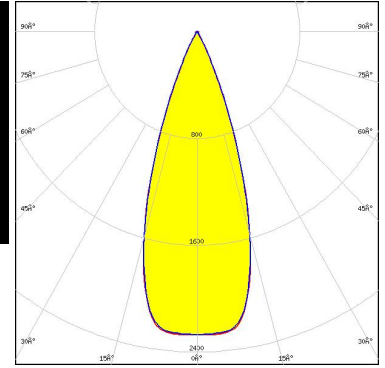
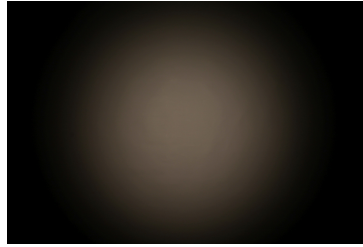


Light distribution files

OPTICAL RESULTS (MEASURED):



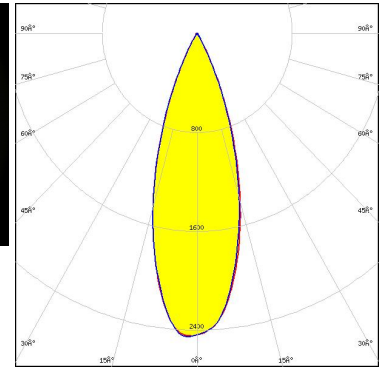
LED VERO10
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 37.0° / 53.0°
Efficiency 85 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F15616_HEKLA-SOCKET-F



Light distribution files



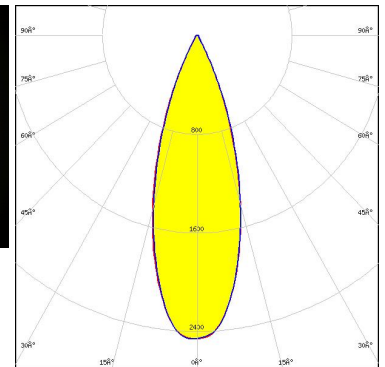
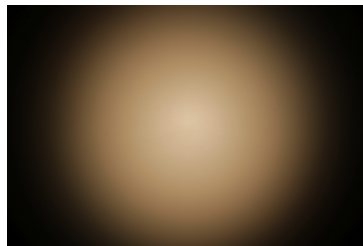
LED Vesta DTW 13mm (21W)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 34.0° / 55.0°
Efficiency 85 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 Bender Wirth: 632b Hekla XL



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

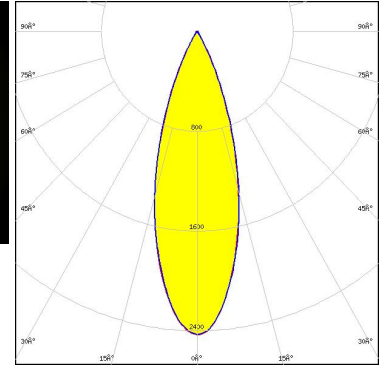


Light distribution files

OPTICAL RESULTS (MEASURED):



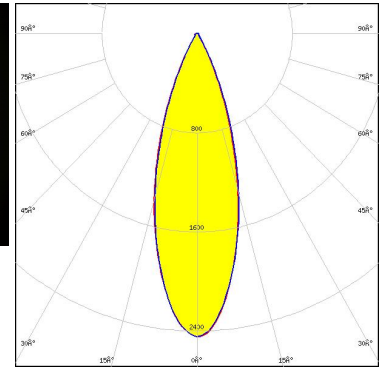
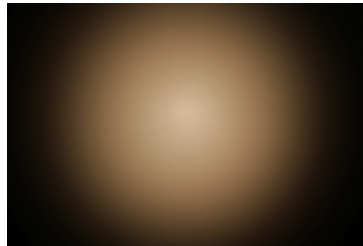
LED Vesta DTW 15mm (33W)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 33.0° / 56.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 632b Hekla XL



Light distribution files



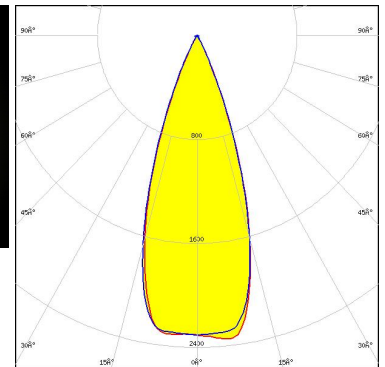
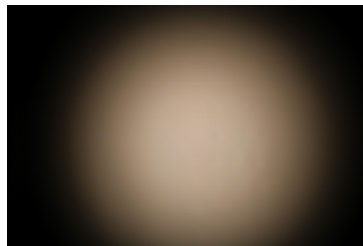
LED Vesta DTW 15mm (33W)
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 33.0° / 56.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
Bender Wirth: 632b Hekla XL



Light distribution files



LED Vesta DTW 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

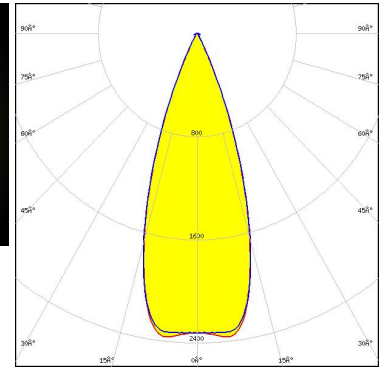
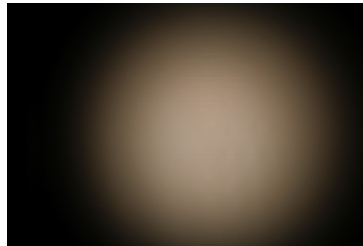


Light distribution files

OPTICAL RESULTS (MEASURED):



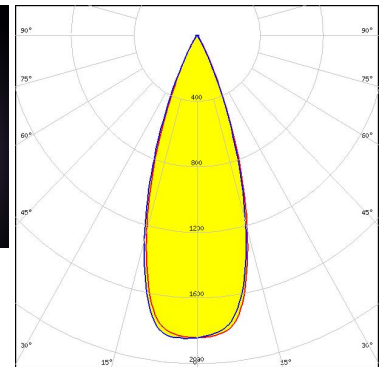
LED Vesta DTW 9mm (4W/6W/12W)
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 37.0° / 53.0°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 Bender Wirth: 652b Hekla



Light distribution files



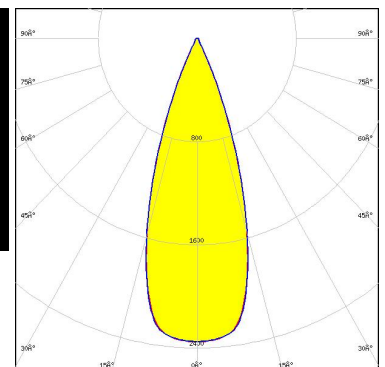
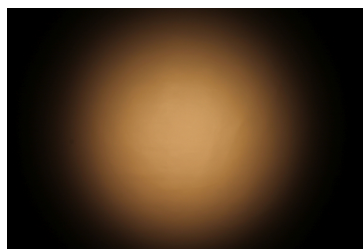
LED Vesta RGBW 10mm CSP
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 56.0°
Efficiency 73 %
Peak intensity 1.9 cd/lm
LEDs/each optic 28
Light colour/type RGBW
Required components:
 C19950_HEKLA-SOCKET-RZ



Light distribution files

CITIZEN

LED CLU02x (LES10)
Ordering code 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

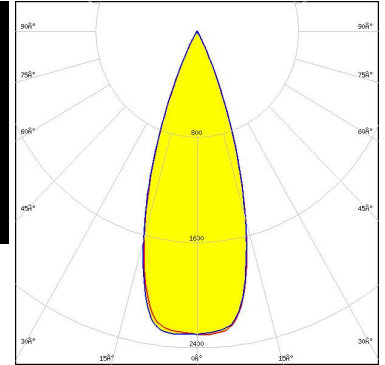
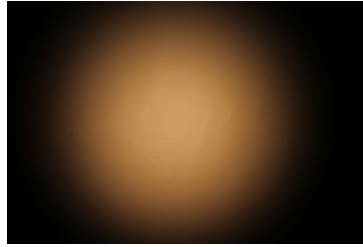


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

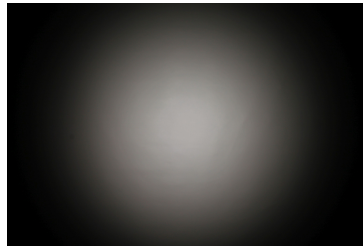
LED CLU02x (LES10)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 52.0°
Efficiency 84 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17435_HEKLA-G2-C



Light distribution files

CITIZEN

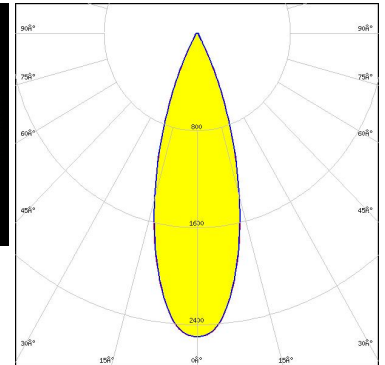
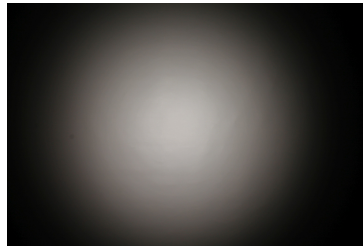
LED CLU03x
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 33.0° / 54.5°
Efficiency 84 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

CITIZEN

LED 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

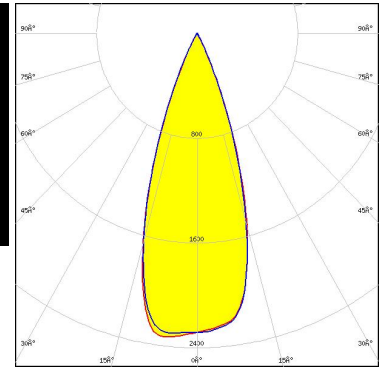
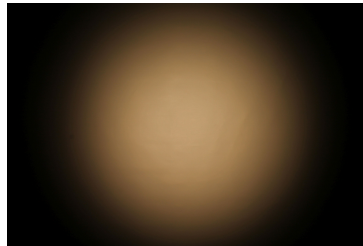


Light distribution files

OPTICAL RESULTS (MEASURED):



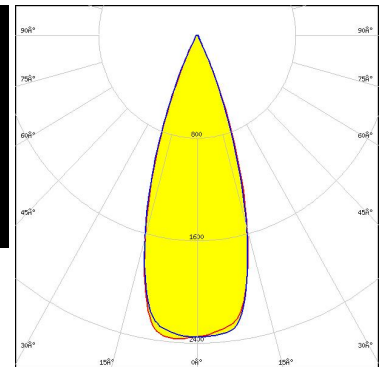
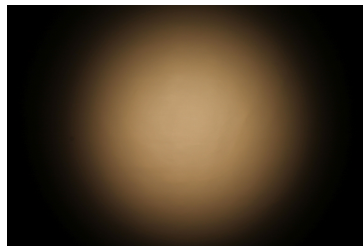
LED CMA1516
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 52.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F17436_HEKLA-G2-D



Light distribution files



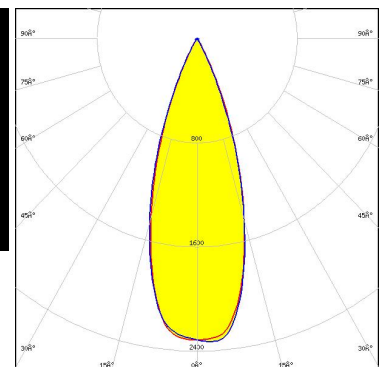
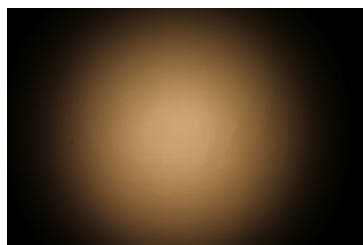
LED CMA1516
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 36.0° / 52.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F17436_HEKLA-G2-D



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

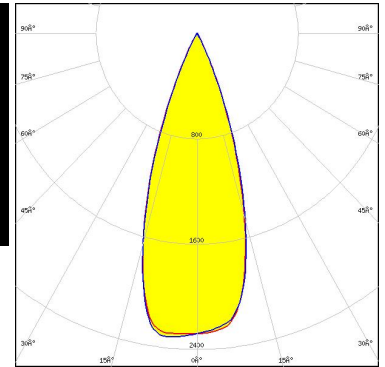
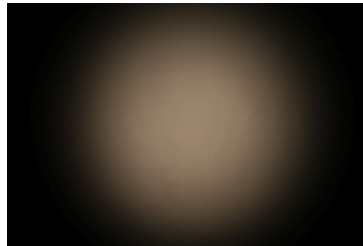


Light distribution files

OPTICAL RESULTS (MEASURED):



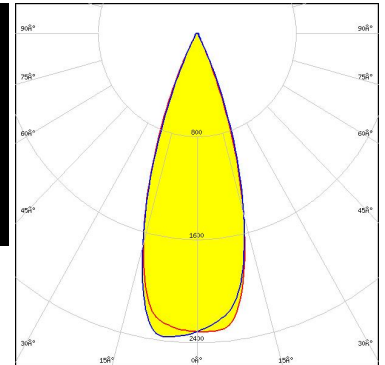
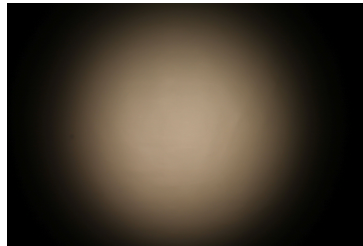
LED CMT14xx
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 53.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17435_HEKLA-G2-C



Light distribution files



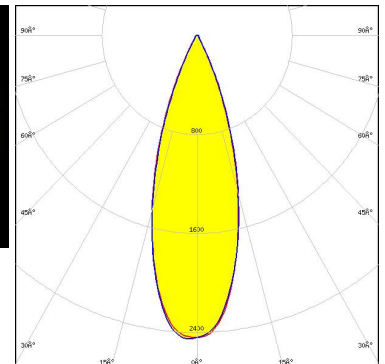
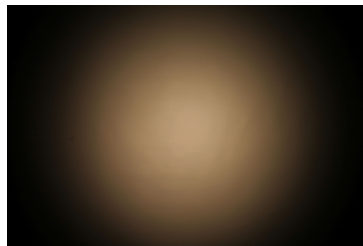
LED CMT14xx
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 36.0° / 53.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17435_HEKLA-G2-C



Light distribution files



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

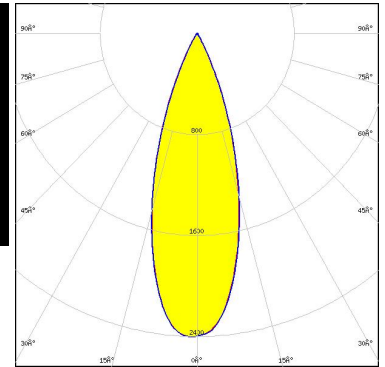
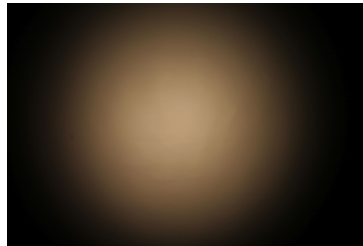


Light distribution files

OPTICAL RESULTS (MEASURED):



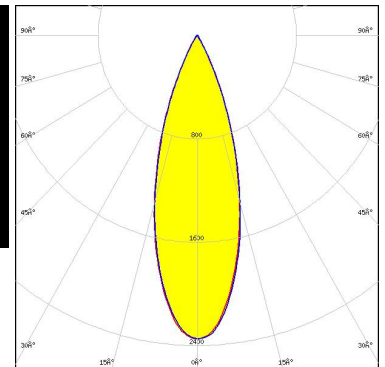
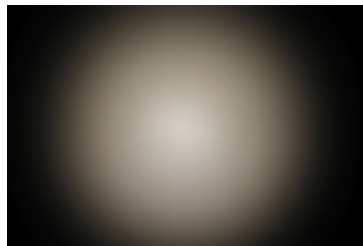
LED CMT19xx
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 33.0° / 54.0°
Efficiency 83 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F17438_HEKLA-G2-I



Light distribution files



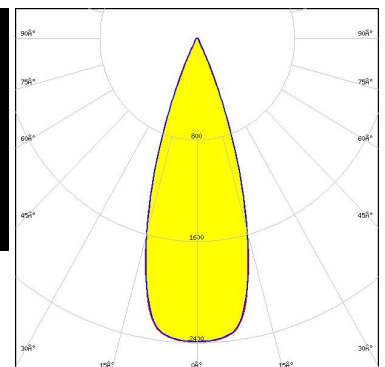
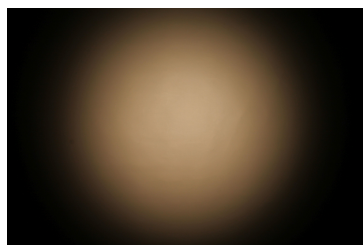
LED CMU15xx
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 33.0° / 56.0°
Efficiency 83 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F17438_HEKLA-G2-I



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

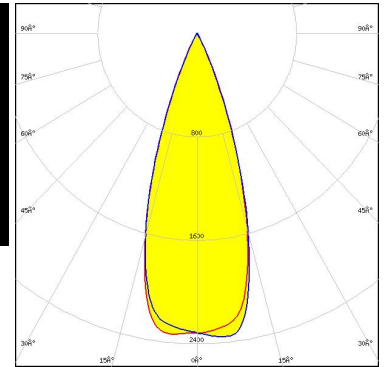
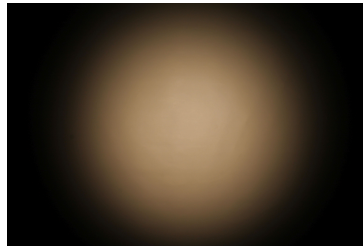


Light distribution files

OPTICAL RESULTS (MEASURED):



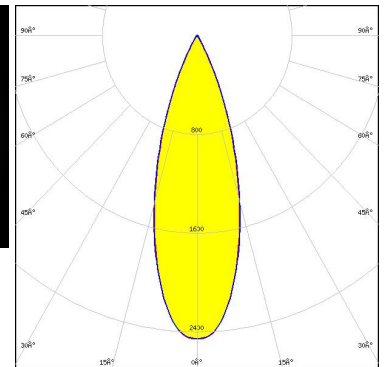
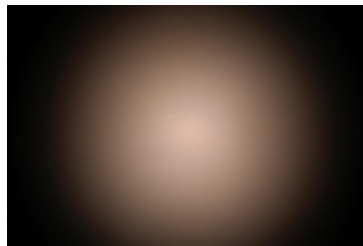
LED LUXEON CoB 1202/1203
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 52.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17437_HEKLA-G2-H



Light distribution files



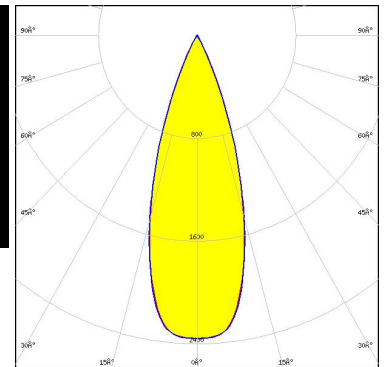
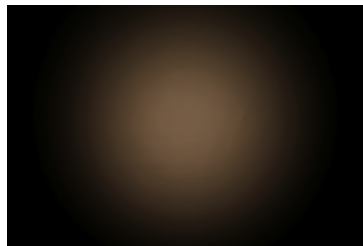
LED CTM-14 (Tunable White) Gen2
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 33.0° / 55.0°
Efficiency 84 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:
C16142_HEKLA-SOCKET-K
Bender Wirth: 442 Typ L8



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

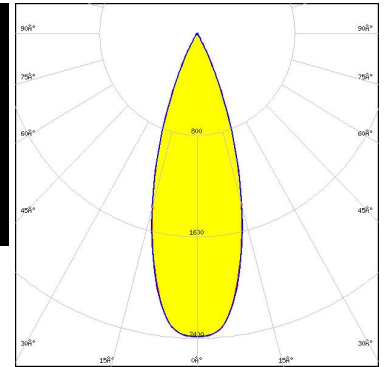
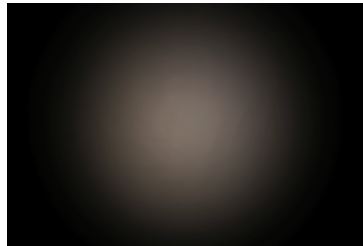


Light distribution files

OPTICAL RESULTS (MEASURED):



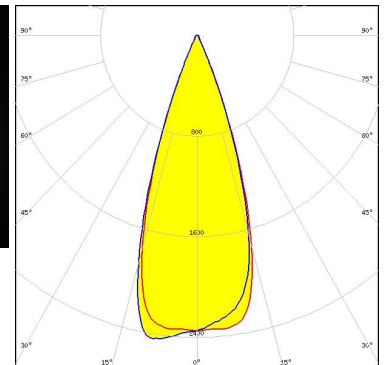
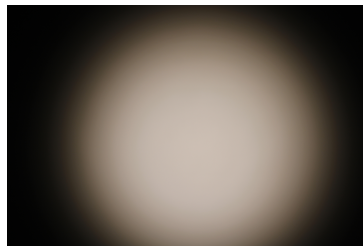
LED COB S-Type (LES 7)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 34.0° / 54.0°
Efficiency 83 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 F17438_HEKLA-G2-I



Light distribution files



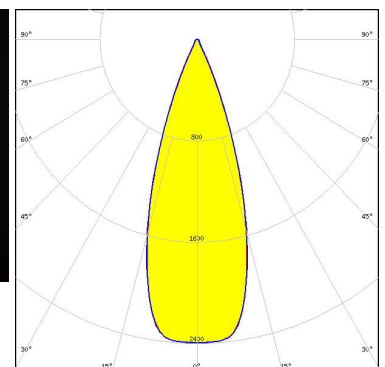
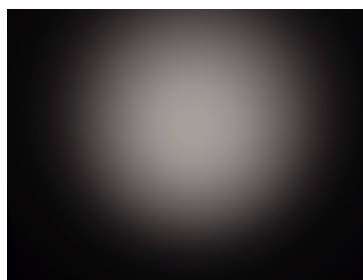
LED Fortimo SLM C TW L06A 1313 G7N
FWHM / FWTM 37.0° / 51.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 508 Typ L8



Light distribution files



LED Fortimo SLM C TW L09A 1919 G7N
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 Tunable White
Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8

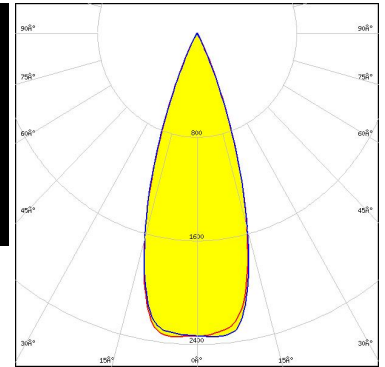
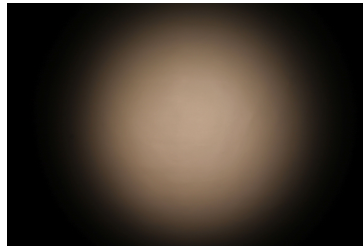


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

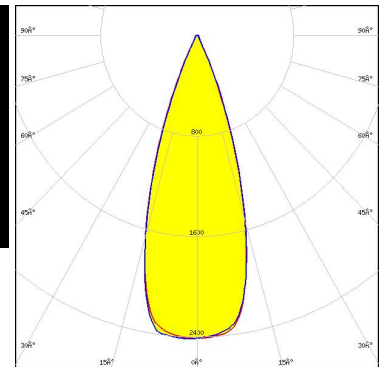
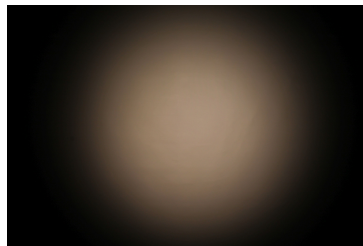
LED Fortimo SLM L09 CoB
 Ordering code CP18763_YASMEEN-70-W-C2
 FWHM / FWTM 36.0° / 52.0°
 Efficiency 84 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17437_HEKLA-G2-H



Light distribution files

PHILIPS

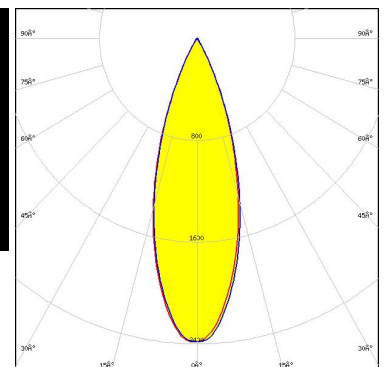
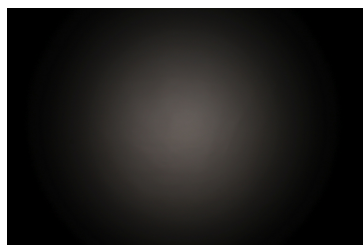
LED Fortimo SLM L09 CoB
 Ordering code CP18777_YASMEEN-70-W-C2-WHT
 FWHM / FWTM 35.0° / 51.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F17437_HEKLA-G2-H



Light distribution files

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

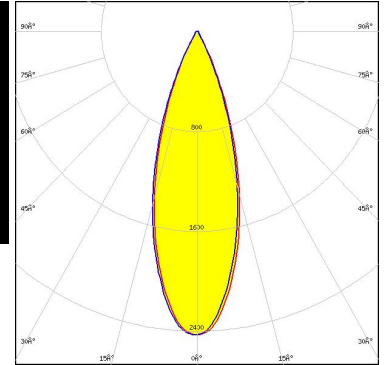
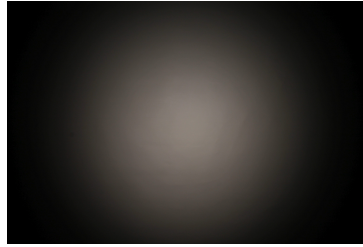


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

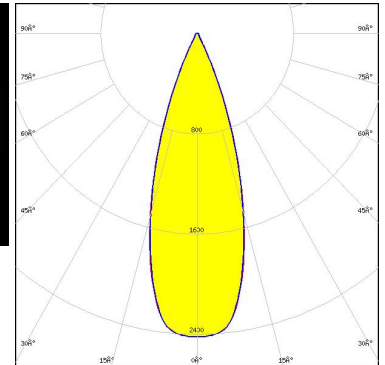
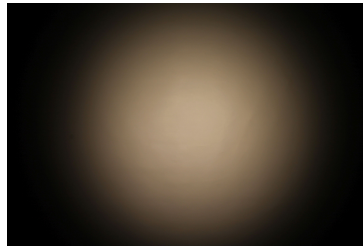
LED LC016D / LC019D / LC026D / LC033D
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 33.0° / 56.0°
Efficiency 90 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

SAMSUNG

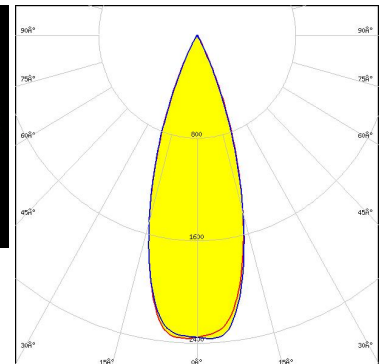
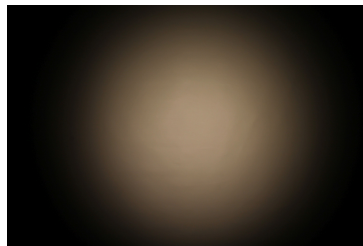
LED LC030C/040C G2
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 34.0° / 53.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

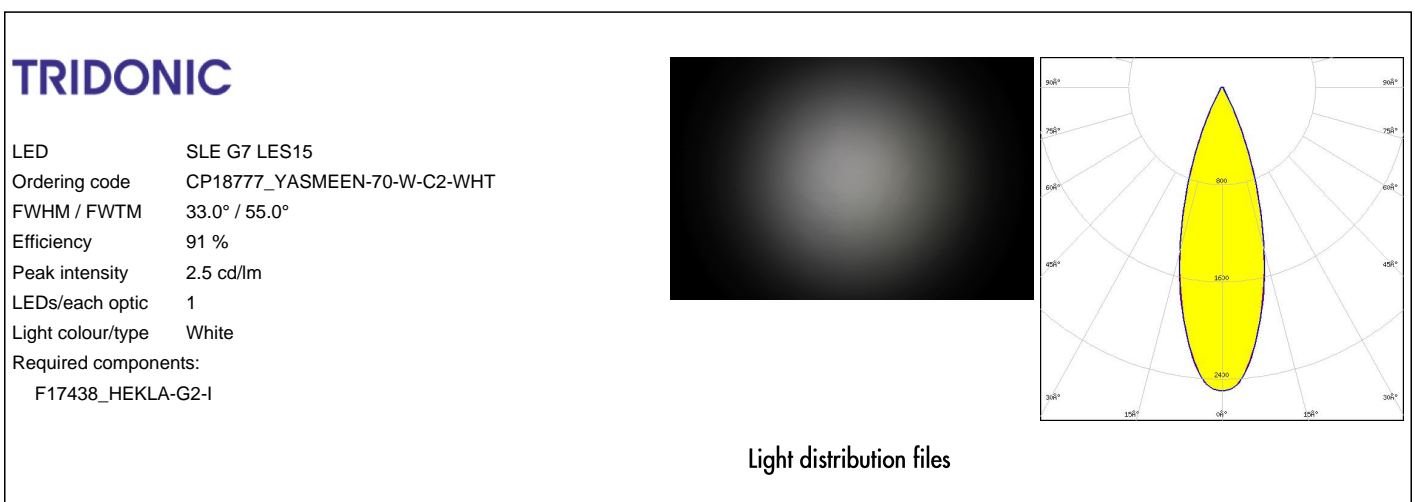
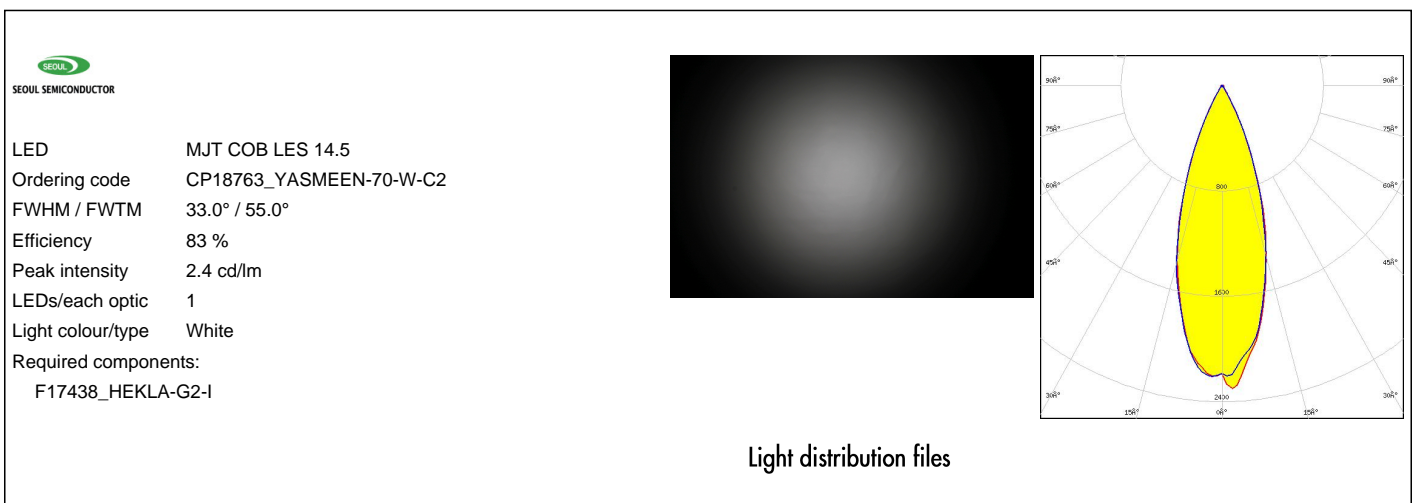
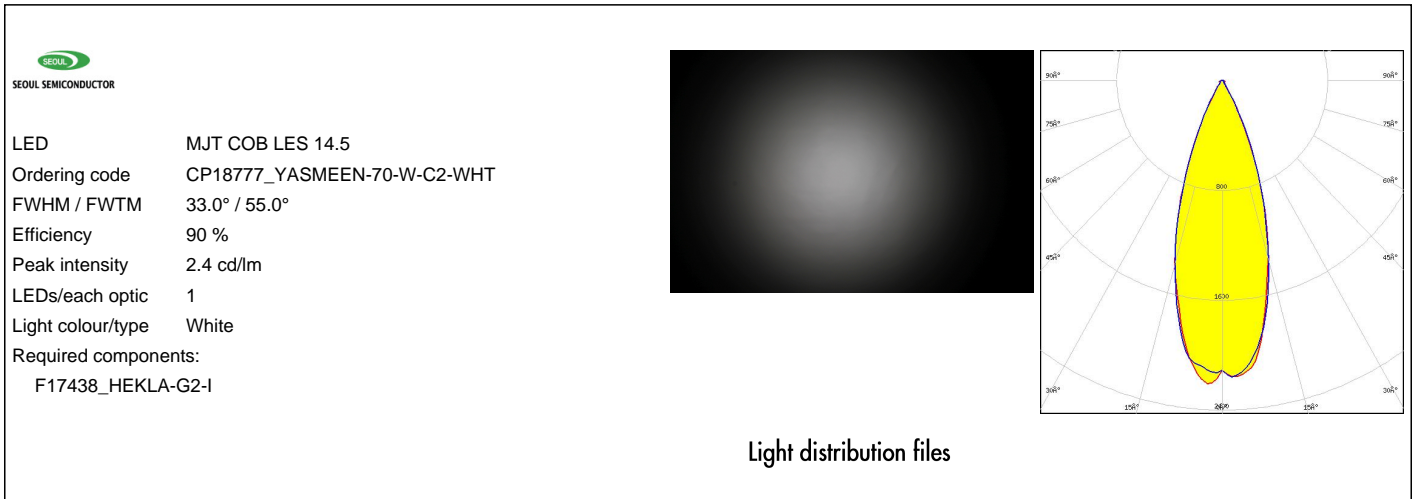
SAMSUNG

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

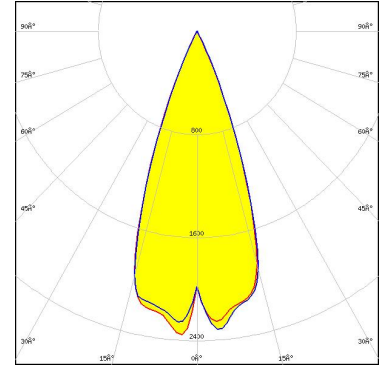
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (SIMULATED):



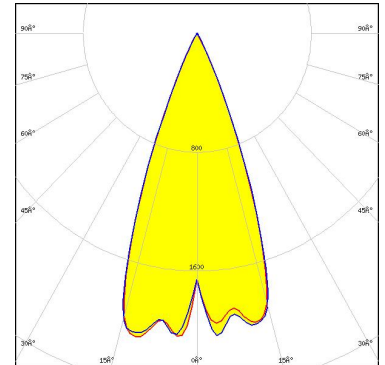
LED V3 HD Gen 8
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 39.0° / 52.0°
Efficiency 89 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15253_HEKLA-SOCKET-A



Light distribution files



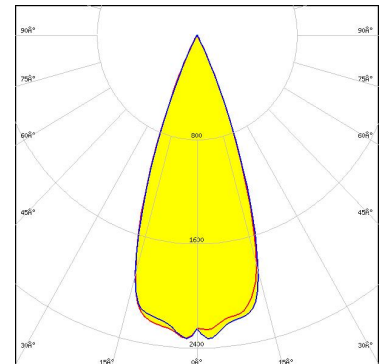
LED V3 HD Gen 8 FC
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 41.0° / 54.0°
Efficiency 88 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C



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

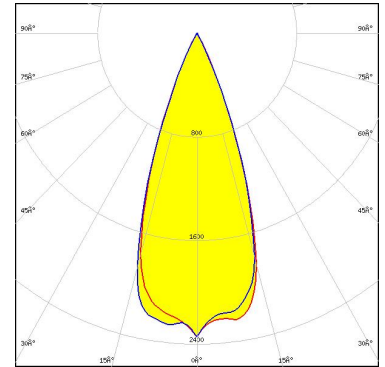


Light distribution files

OPTICAL RESULTS (SIMULATED):



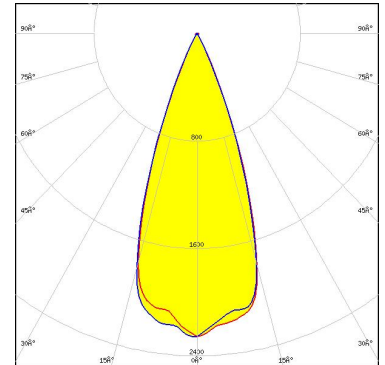
LED V6 Gen 8-9
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 89 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15253_HEKLA-SOCKET-A



Light distribution files



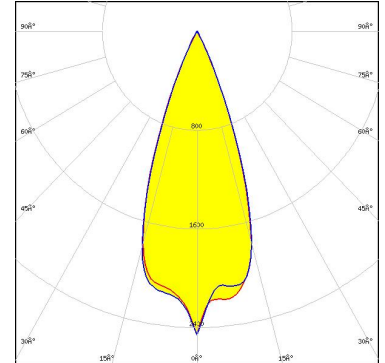
LED V6 HD Gen 7
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 52.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15255_HEKLA-SOCKET-C



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

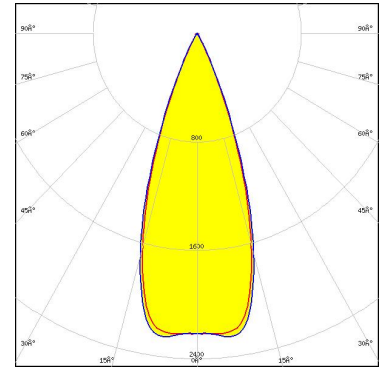


Light distribution files

OPTICAL RESULTS (SIMULATED):



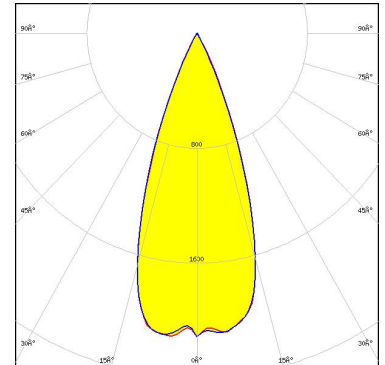
LED V8 Gen 8-9
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 86 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15253_HEKLA-SOCKET-A



Light distribution files



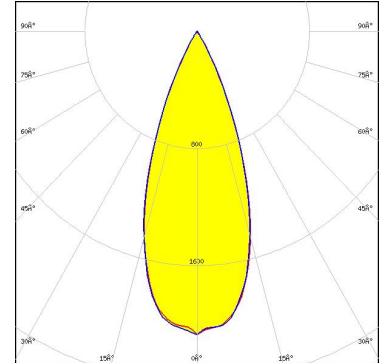
LED V9 HD Gen 8
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 39.0° / 54.0°
Efficiency 86 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15859_HEKLA-SOCKET-I



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

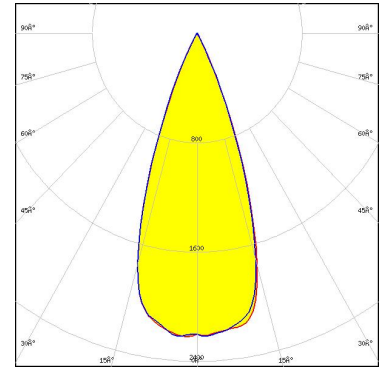


Light distribution files

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:

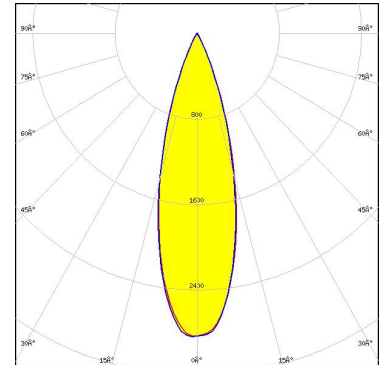


Bender Wirth: 652b Hekla

Light distribution files



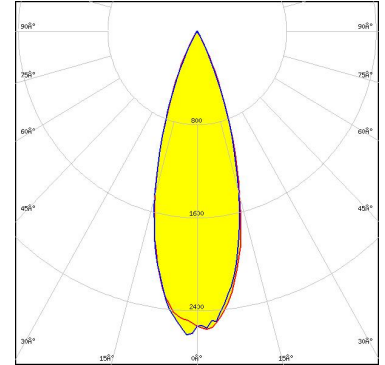
LED Vesta SE 13mm TW
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 30.0° / 50.0°
Efficiency 81 %
Peak intensity 2.9 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:
C16142_HEKLA-SOCKET-K



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



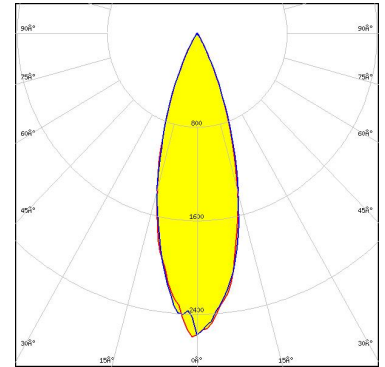
Light distribution files

Bender Wirth: 492 Typ L8

OPTICAL RESULTS (SIMULATED):



LED Vesta TW 15mm DP
Ordering code 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

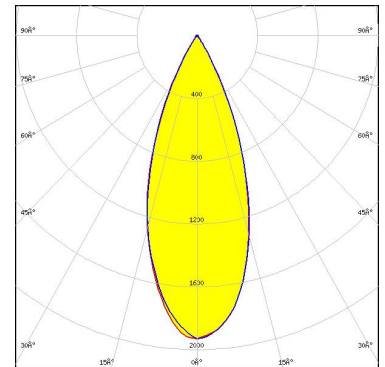


Light distribution files

Bender Wirth: 482 Typ L8



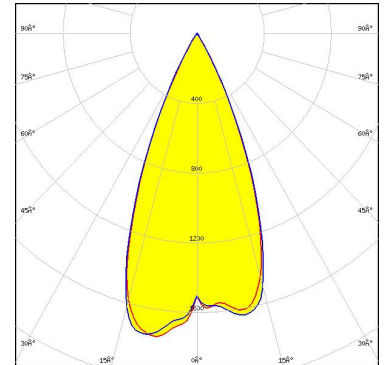
LED Vesta TW 15mm DP
Ordering code C17240_YASMEEN-70-W
FWHM / FWTM 39.0° / 62.0°
Efficiency 86 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Vesta TW 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



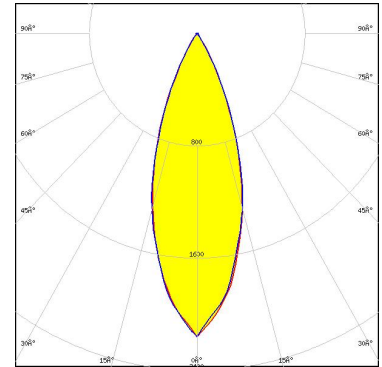
Light distribution files

Bender Wirth: 489 Typ L8

OPTICAL RESULTS (SIMULATED):

CITIZEN

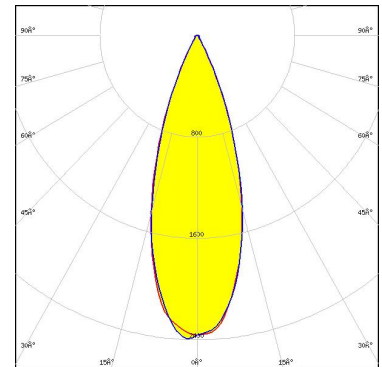
LED CLU03Q Type-F
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 35.0 + 36.0° / 60.0°
Efficiency 83 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

CITIZEN

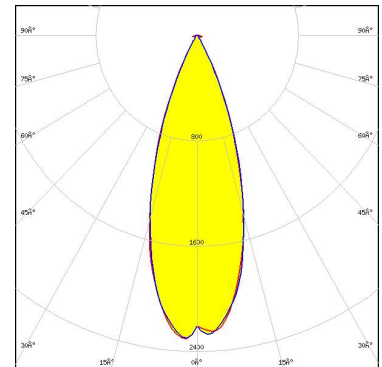
LED CLU03x
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 35.0° / 56.0°
Efficiency 91 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

CITIZEN

LED 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:



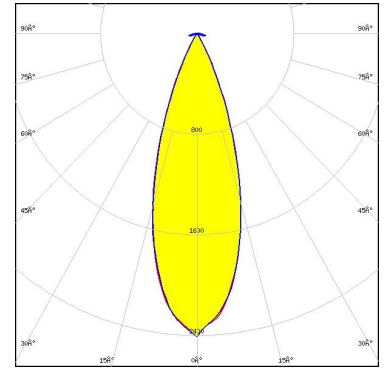
Light distribution files

BJB: 47.360.1010

OPTICAL RESULTS (SIMULATED):

CITIZEN

LED	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	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

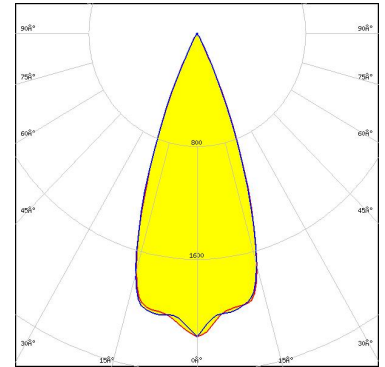
LED	CLU03x
Ordering code	CP18763_YASMEEN-70-W-C2
FWHM / FWTM	34.0° / 56.0°
Efficiency	84 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	F17438_HEKLA-G2-I

Light distribution files

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:

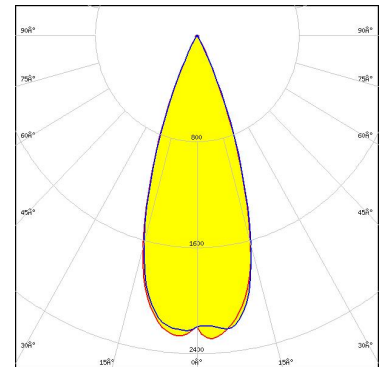


BJB: 47.360.1020

Light distribution files

CITIZEN

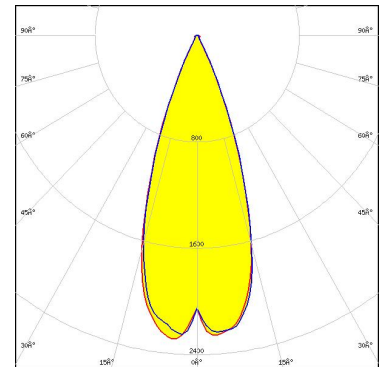
LED CLU712/713
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 85 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

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

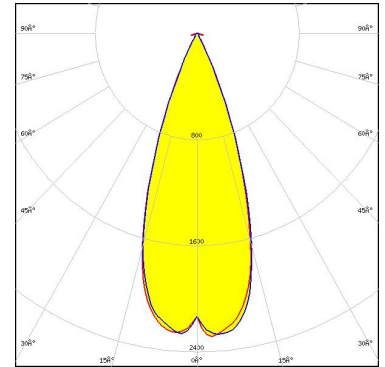


Light distribution files

OPTICAL RESULTS (SIMULATED):

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:

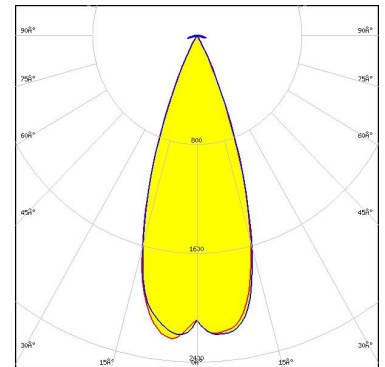


BJB: 47.360.1010

Light distribution files

CITIZEN

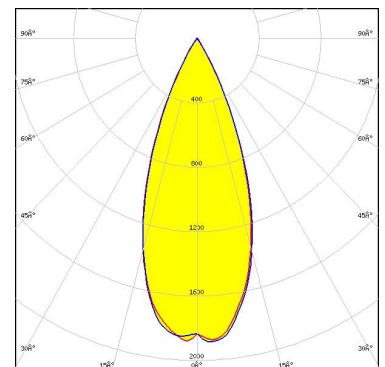
LED CLU712/713
Ordering code C17240_YASMEEN-70-W
FWHM / FWTM 38.0° / 54.0°
Efficiency 94 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CITIZEN

LED CLU733 Type-F
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 40.0° / 62.0°
Efficiency 85 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



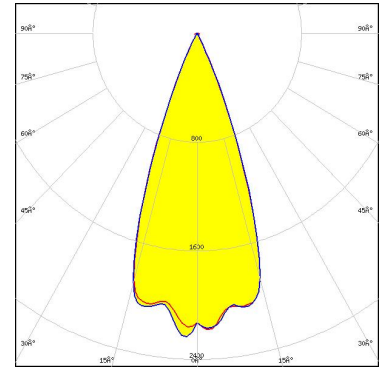
Bender Wirth: 631b Hekla XL

Light distribution files

OPTICAL RESULTS (SIMULATED):



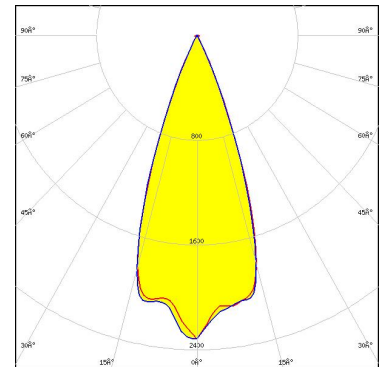
LED: CHA0304
Ordering code: CP18763_YASMEEN-70-W-C2
FWHM / FWTM: 40.0° / 52.0°
Efficiency: 86 %
Peak intensity: 2.2 cd/lm
LEDs/each optic: 1
Light colour/type: White
Required components:
F17435_HEKLA-G2-C



Light distribution files



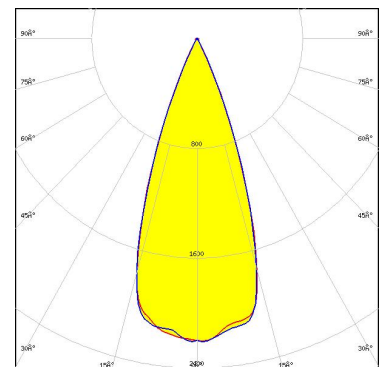
LED: CHA0410
Ordering code: CP18763_YASMEEN-70-W-C2
FWHM / FWTM: 38.0° / 52.0°
Efficiency: 86 %
Peak intensity: 2.3 cd/lm
LEDs/each optic: 1
Light colour/type: White
Required components:
F17435_HEKLA-G2-C



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

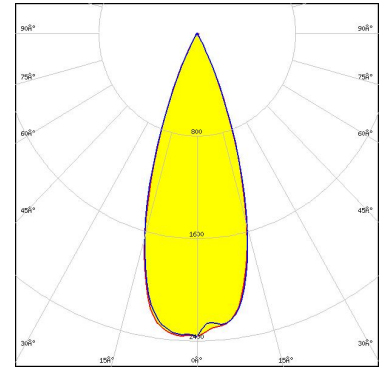


Light distribution files

OPTICAL RESULTS (SIMULATED):



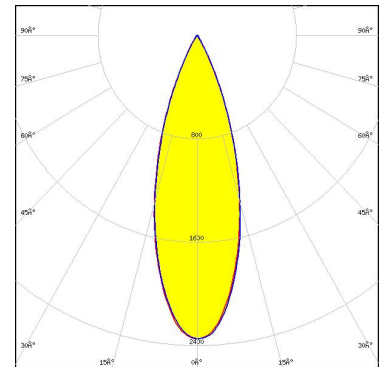
LED CMU10xx
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 54.0°
Efficiency 86 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17435_HEKLA-G2-C



Light distribution files



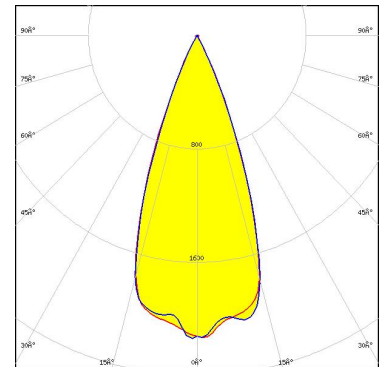
LED CMU15xx
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 34.0° / 56.0°
Efficiency 85 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



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

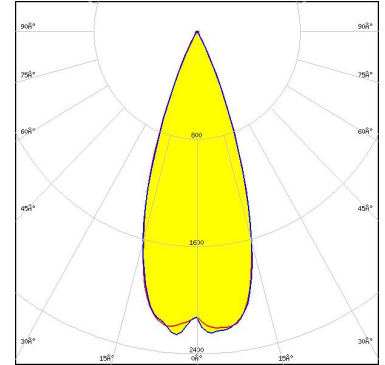


Light distribution files

OPTICAL RESULTS (SIMULATED):



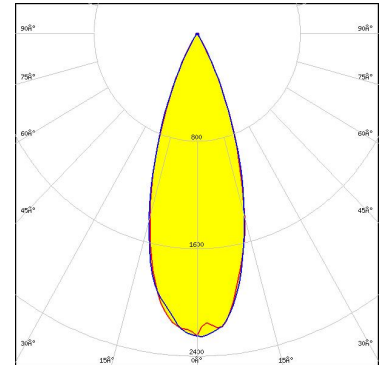
LED CXA/B 15xx
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 85 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17436_HEKLA-G2-D



Light distribution files



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:

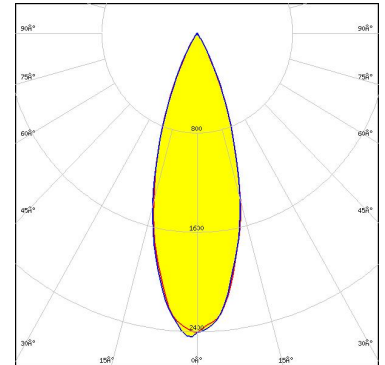


Light distribution files

Bender Wirth: 637b Hekla



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:



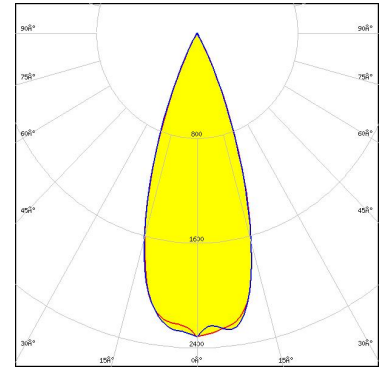
Light distribution files

Bender Wirth: 637a Hekla

OPTICAL RESULTS (SIMULATED):



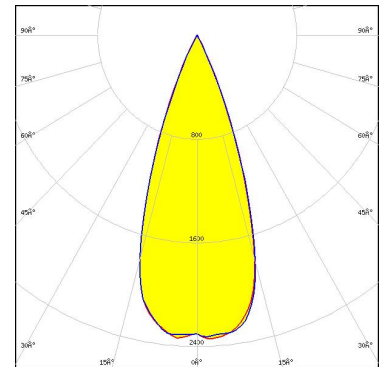
LED LUXEON CoB 1202/1203
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 37.0° / 54.0°
Efficiency 86 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15858_HEKLA-SOCKET-H



Light distribution files



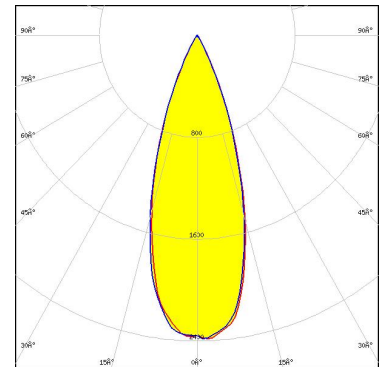
LED LUXEON CoB 1202HD
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 53.0°
Efficiency 88 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15848_HEKLA-SOCKET-G



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:



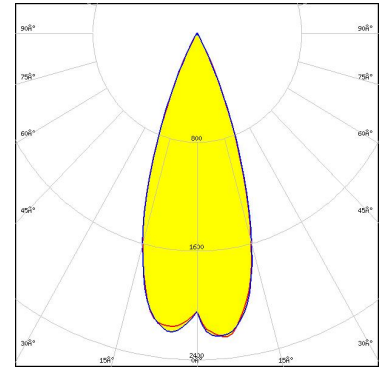
Light distribution files

Bender Wirth: 632a Hekla XL

OPTICAL RESULTS (SIMULATED):



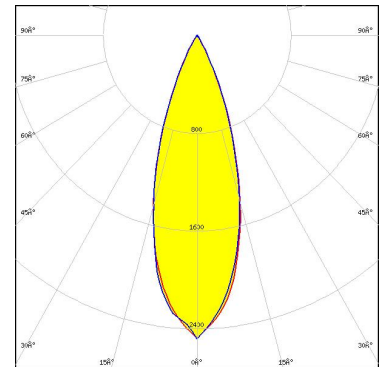
LED LUXEON CoB 1204HD
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 86 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15858_HEKLA-SOCKET-H



Light distribution files



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:

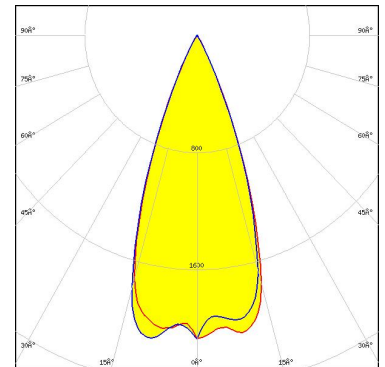


Bender Wirth: 632a Hekla XL

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:



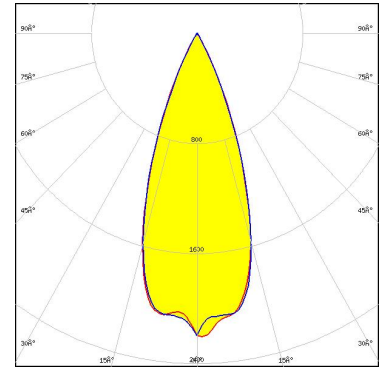
Bender Wirth: 634c Bayonet35L

Light distribution files

OPTICAL RESULTS (SIMULATED):



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:

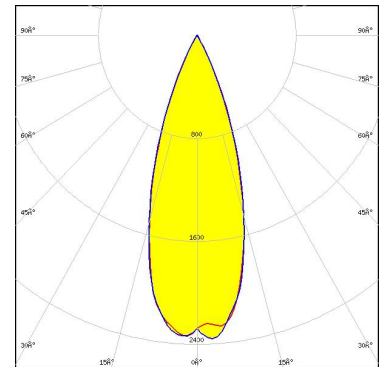


Bender Wirth: 634a Bayonet35L

Light distribution files



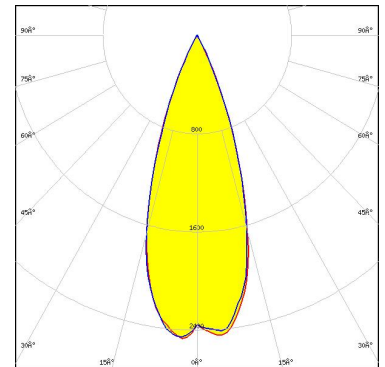
LED LUXEON CX Plus CoB L04 / L05 (Gen2)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 56.0°
Efficiency 85 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15254_HEKLA-SOCKET-B



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

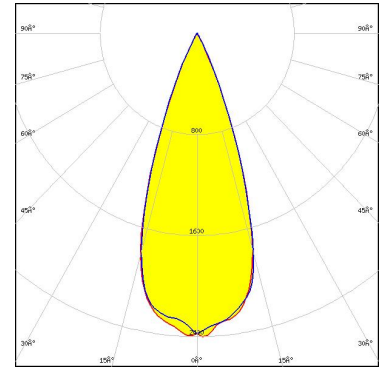


Light distribution files

OPTICAL RESULTS (SIMULATED):



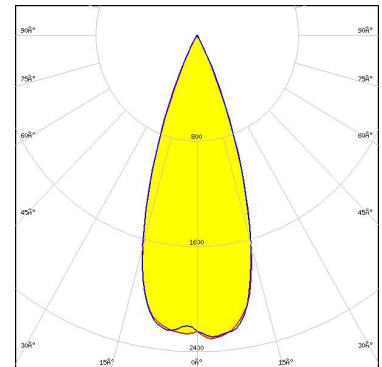
LED LUXEON CX Plus CoB S01 (Gen2)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 53.0°
Efficiency 88 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15956_HEKLA-SOCKET-J



Light distribution files



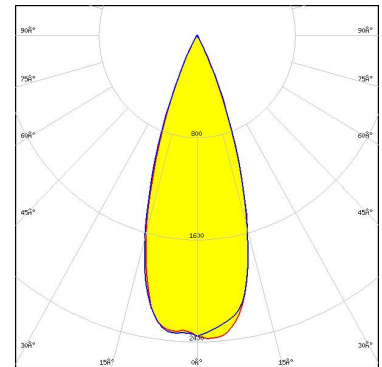
LED CHM-9 XH (19x19)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 85 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15859_HEKLA-SOCKET-I



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



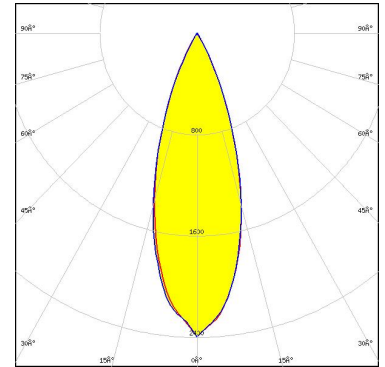
Light distribution files

Bender Wirth: 495 Typ L8

OPTICAL RESULTS (SIMULATED):



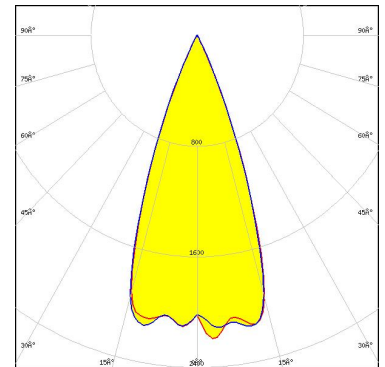
LED CxM-14 (19x19)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 34.0° / 56.0°
Efficiency 84 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files



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:

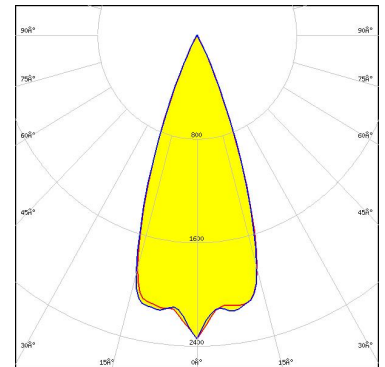


Bender Wirth: 634a Bayonet35L

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:



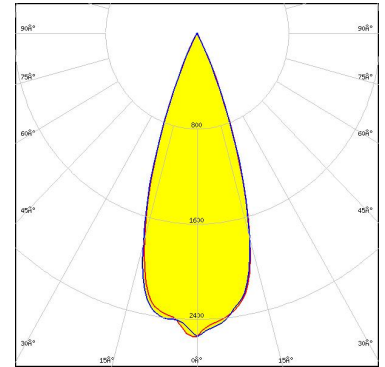
Bender Wirth: 634a Bayonet35L

Light distribution files

OPTICAL RESULTS (SIMULATED):



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:

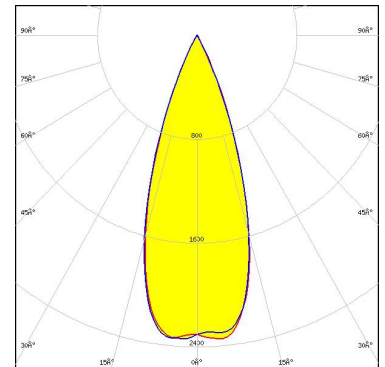


BJB: 47.360.1020

Light distribution files



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



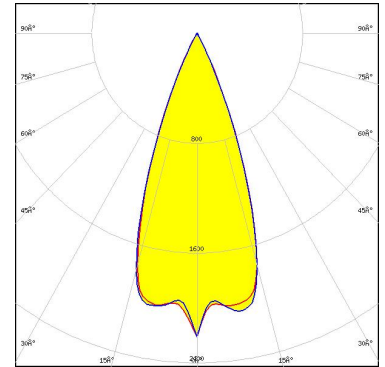
LED COB L-Type (LES 9)
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 38.0° / 54.0°
Efficiency 85 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F15858_HEKLA-SOCKET-H

Light distribution files

OPTICAL RESULTS (SIMULATED):



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:

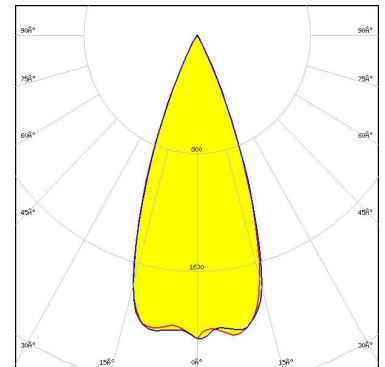


Bender Wirth: 652a Bayonet35L

Light distribution files



LED COB S-Type (LES 7)
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:

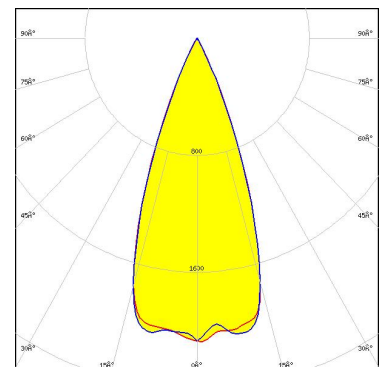


Bender Wirth: 652a Bayonet35L

Light distribution files



LED COB T-Type
Ordering code CP18770_YASMEEN-70-W-B2
FWHM / FWTM 40.0° / 54.0°
Efficiency 87 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



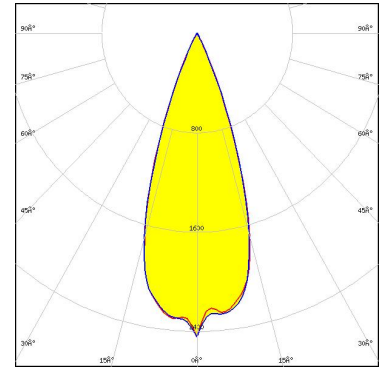
Bender Wirth: 652a Bayonet35L

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED NJCWL024Z-V1MT: COB L-Type Tunable White
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 36.0° / 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

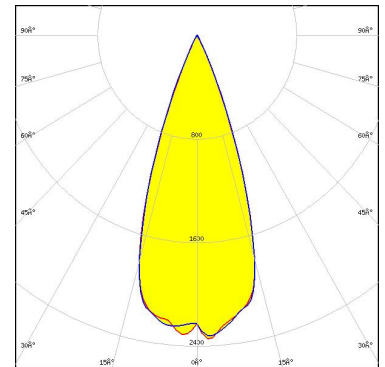


Light distribution files

Bender Wirth: 497 Typ L8 HV



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

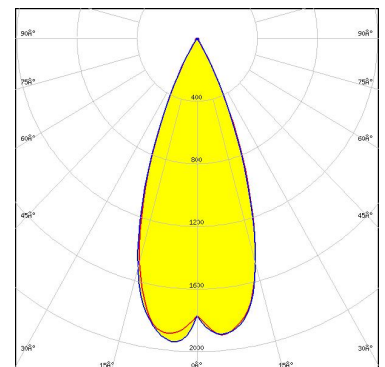


Light distribution files

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

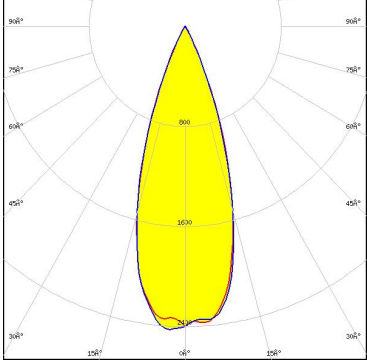
Bender Wirth: 498 Typ L8 HV

OPTICAL RESULTS (SIMULATED):

NICHIA

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



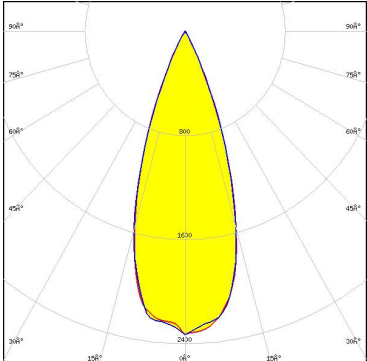
Bender Wirth: 498 Typ L8 HV

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	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F17435_HEKLA-G2-C

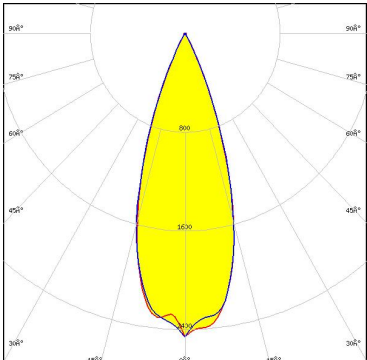


Light distribution files

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

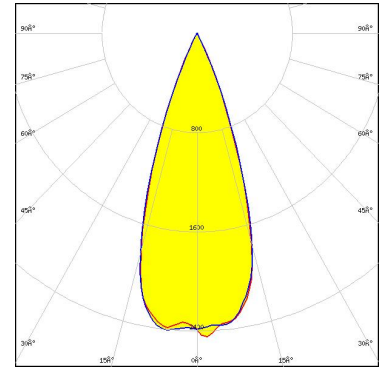


Light distribution files

OPTICAL RESULTS (SIMULATED):

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:

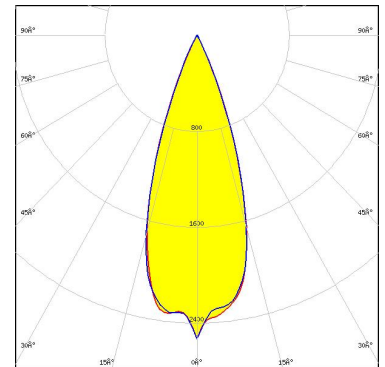


BJB: 47.360.1020

Light distribution files

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

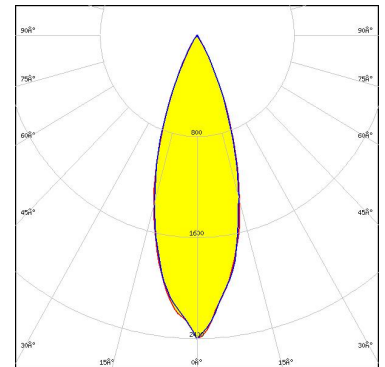


Bender Wirth: 501 Typ L8

Light distribution files

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

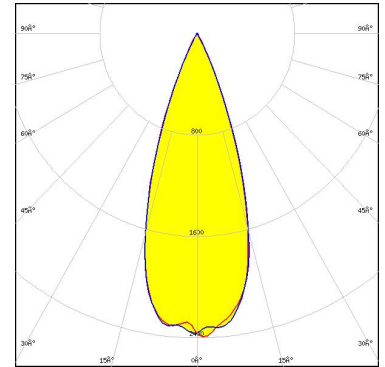


Light distribution files

OPTICAL RESULTS (SIMULATED):

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:

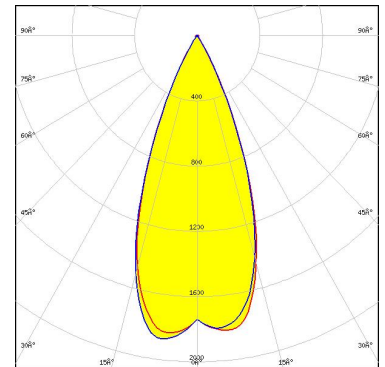


BJB: 47.360.1010

Light distribution files

SAMSUNG

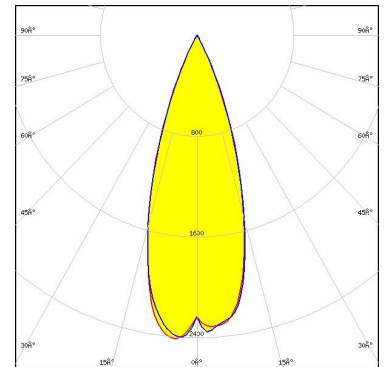
LED LC020T (Tunable white)
Ordering code C17240_YASMEEN-70-W
FWHM / FWTM 42.0° / 60.0°
Efficiency 86 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED 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



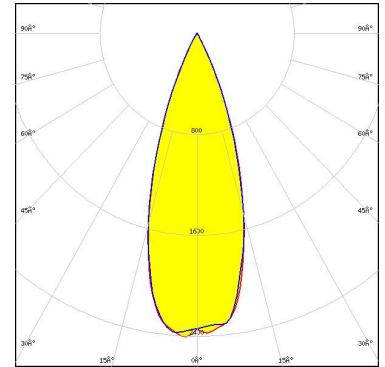
Light distribution files

Bender Wirth: 501 Typ L8

OPTICAL RESULTS (SIMULATED):

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:

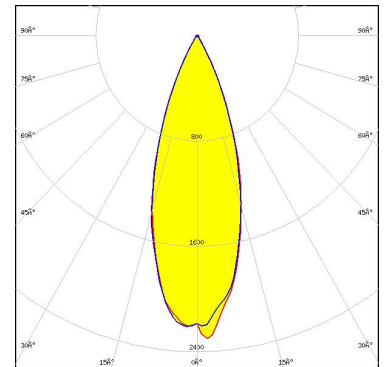


BJB: 47.360.1010

Light distribution files



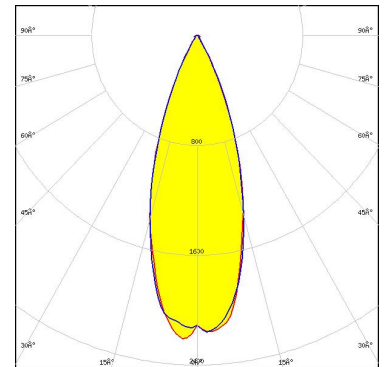
LED MJT COB LES 14.5
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 35.0° / 58.0°
Efficiency 84 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

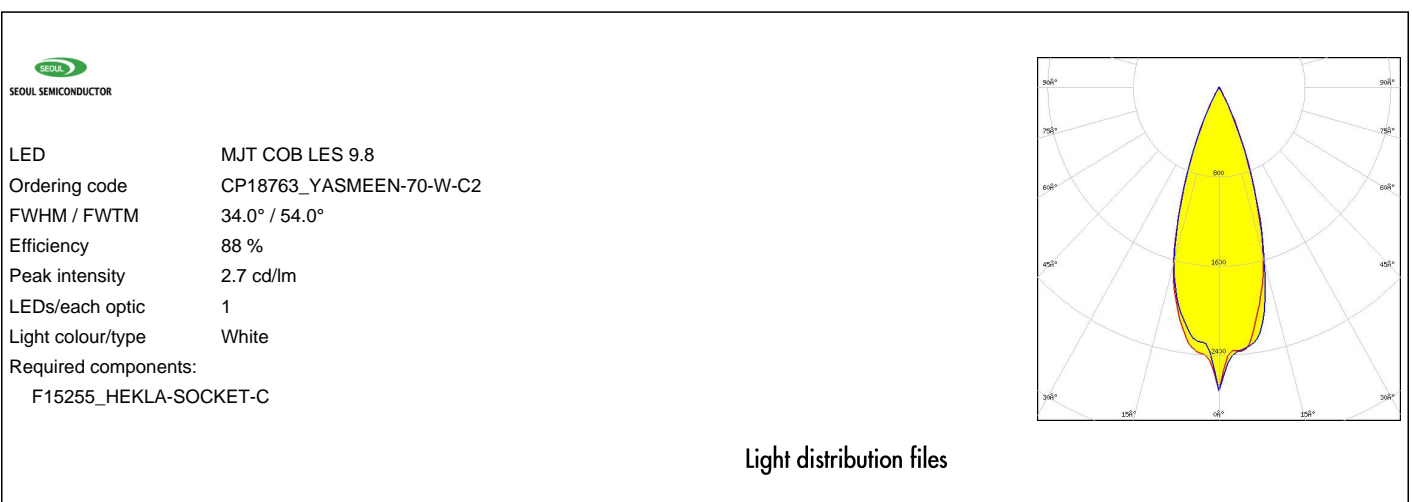
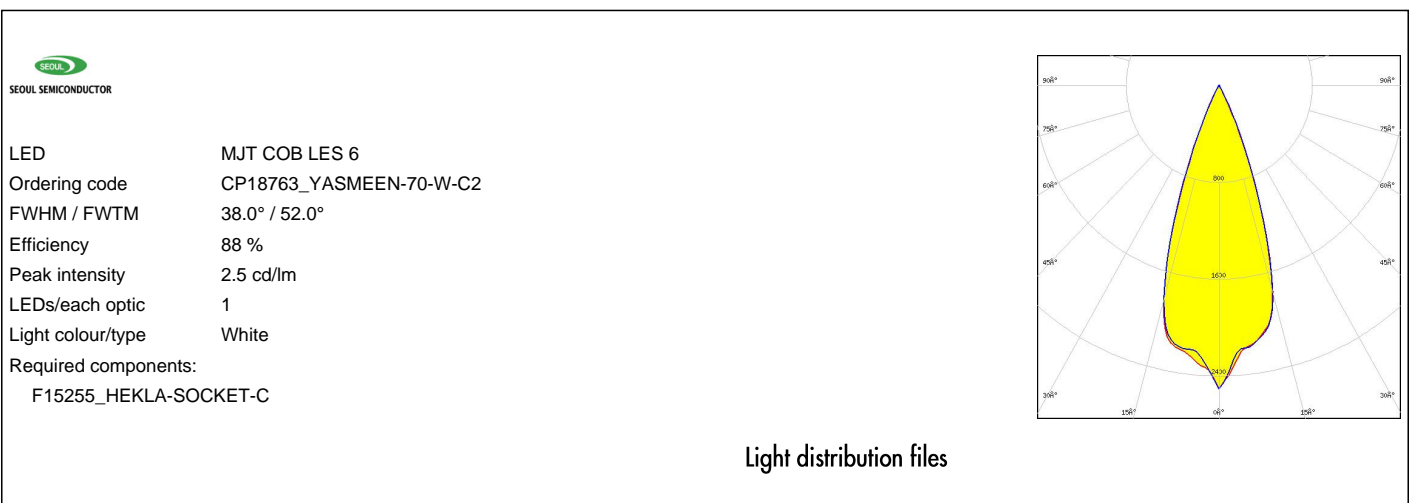
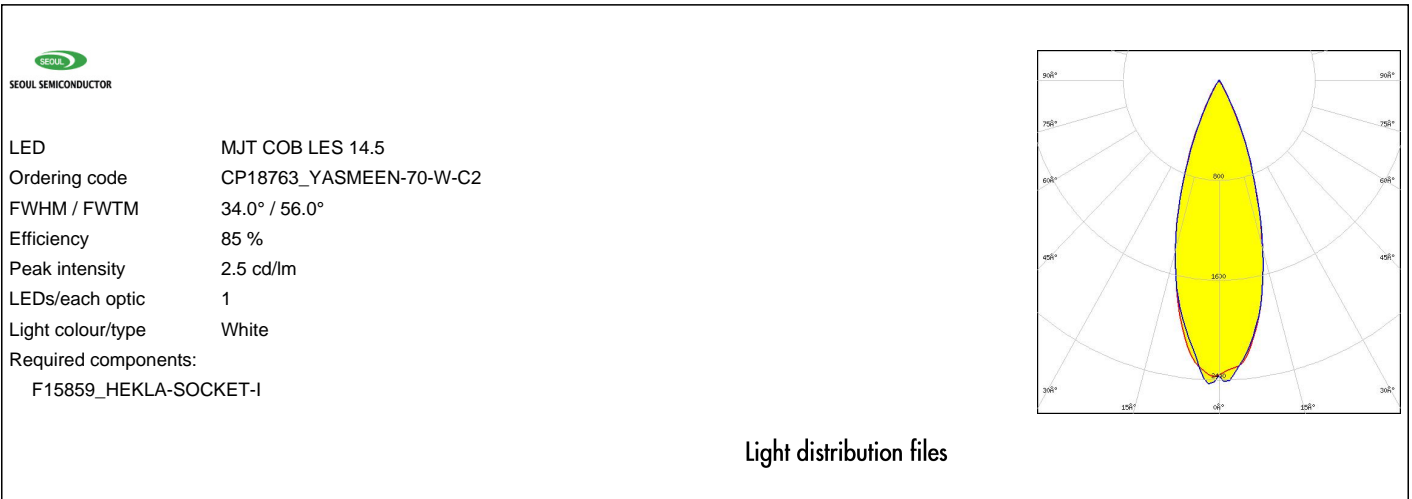


LED MJT COB LES 14.5
Ordering code CP18777_YASMEEN-70-W-C2-WHT
FWHM / FWTM 36.0° / 58.0°
Efficiency 91 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

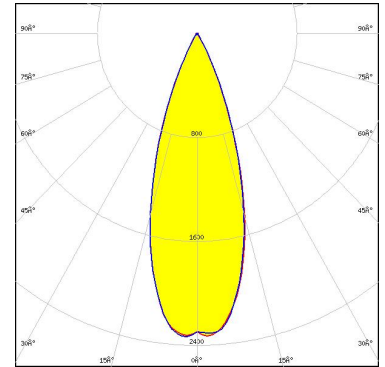
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

TRIDONIC

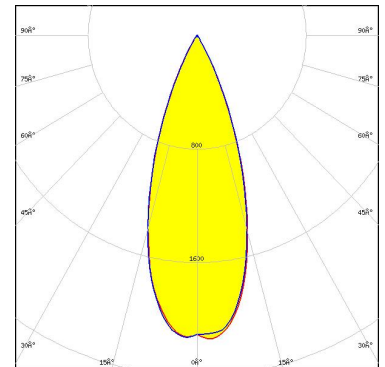
LED SLE G7 LES13
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 35.0° / 56.0°
Efficiency 85 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



Light distribution files

XICATO

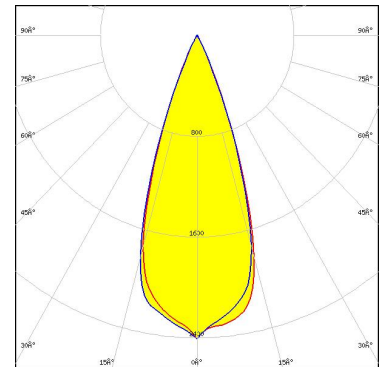
LED XOB 14.5 mm
Ordering code CP18763_YASMEEN-70-W-C2
FWHM / FWTM 37.0° / 58.0°
Efficiency 84 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F17438_HEKLA-G2-I



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:



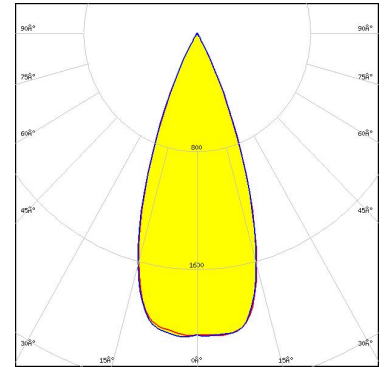
Light distribution files

Bender Wirth: 634b Hekla

OPTICAL RESULTS (SIMULATED):

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.

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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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