

ANGELETTE-S

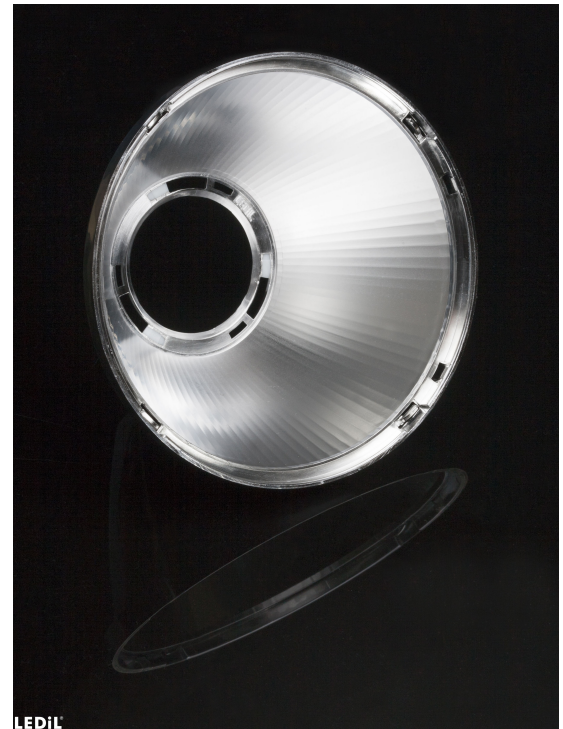
~10° spot beam

SPECIFICATION:

Dimensions	Ø 110.0
Height	57.3 mm
Fastening	socket
ROHS compliant	yes ⓘ

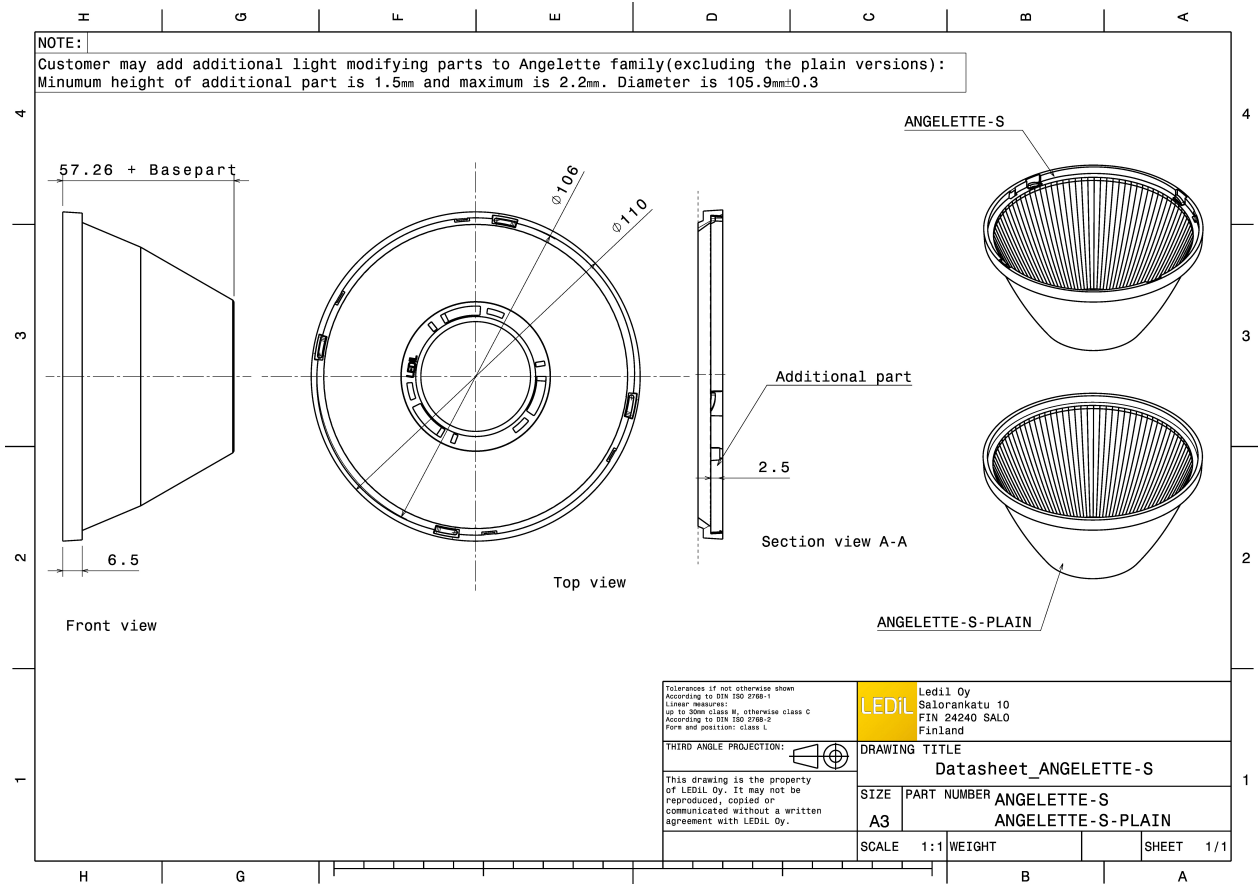
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELETTE-S	Reflector	PC	metal		HMDS



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14532_ANGELETTE-S » Box size: 398 x 298 x 265 mm	180	90	45	7.4



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

OPTICAL RESULTS (MEASURED):



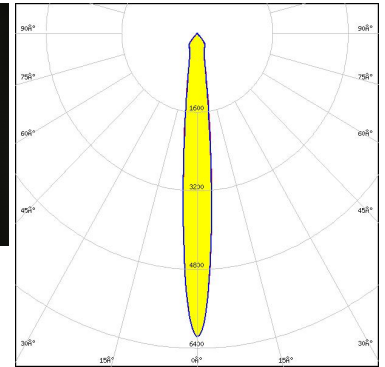
LED V10 Gen7
FWHM / FWTM 11.0° / 31.0°
Efficiency 85 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13658_CLAMP-VERO13-18

F13671_ANGE-RZ-LENS

Bender Wirth: 434 Typ L1



Light distribution files

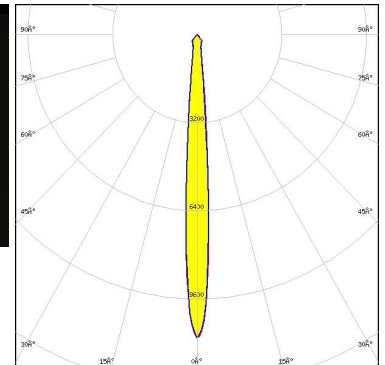


LED V10 Gen7
FWHM / FWTM 8.5° / 20.0°
Efficiency 89 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1



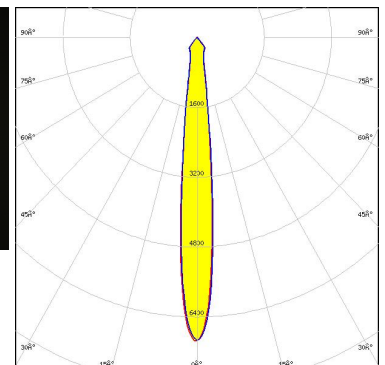
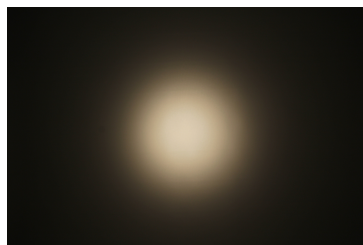
Light distribution files



LED V13 Gen7
FWHM / FWTM 12.0° / 29.0°
Efficiency 91 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

OPTICAL RESULTS (MEASURED):

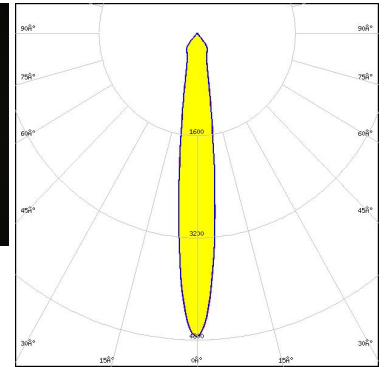


LED V13 Gen7
FWHM / FWTM 14.0° / 40.0°
Efficiency 86 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

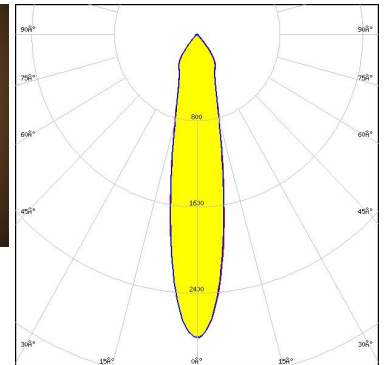
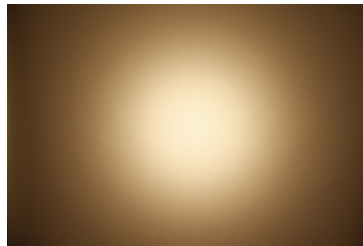


LED V22 Gen6
FWHM / FWTM 21.0° / 71.0°
Efficiency 85 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

IDEAL: 50-2204-CT + 50-2100AN



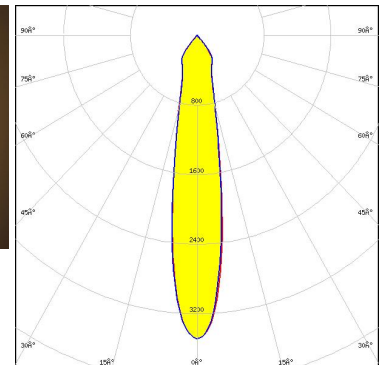
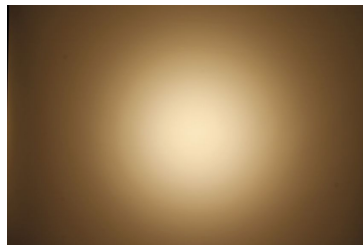
Light distribution files



LED V22 Gen6
FWHM / FWTM 19.0° / 64.0°
Efficiency 90 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

IDEAL: 50-2204-CT + 50-2100AN

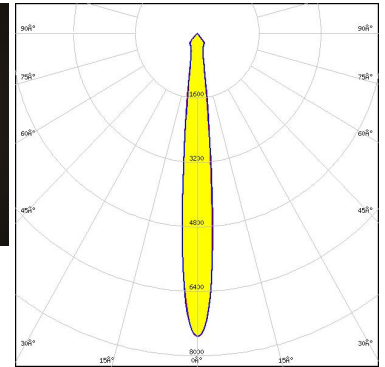


Light distribution files

OPTICAL RESULTS (MEASURED):



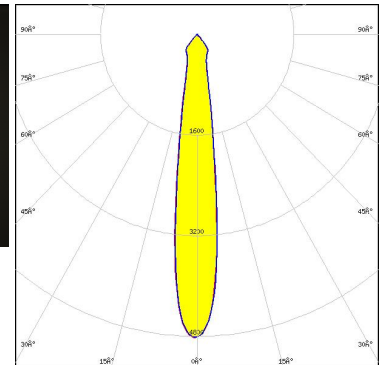
LED Vero SE 13
 FWHM / FWTM 11.0° / 26.0°
 Efficiency 90 %
 Peak intensity 7.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16402_CLAMP-VEROSE-13-18



Light distribution files



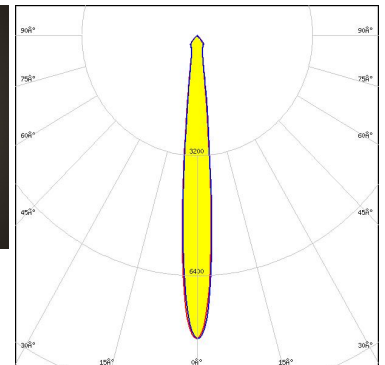
LED Vero SE 18
 FWHM / FWTM 16.0° / 39.0°
 Efficiency 90 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16402_CLAMP-VEROSE-13-18



Light distribution files



LED VERO13
 FWHM / FWTM 11.0° / 25.0°
 Efficiency 90 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18

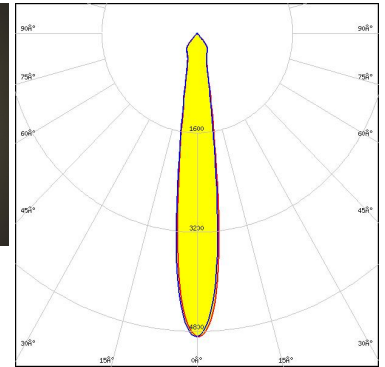


Light distribution files

OPTICAL RESULTS (MEASURED):



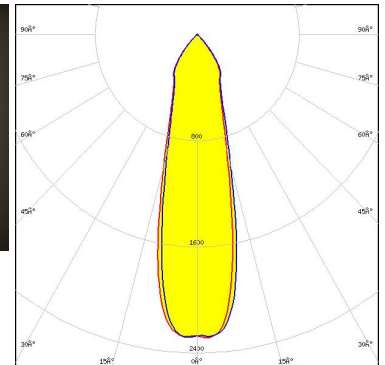
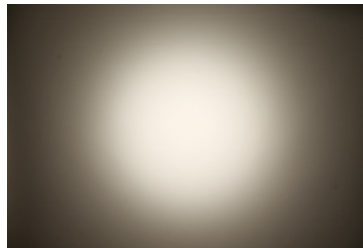
LED VERO18
FWHM / FWTM 15.0° / 38.0°
Efficiency 90 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13658_CLAMP-VERO13-18



Light distribution files



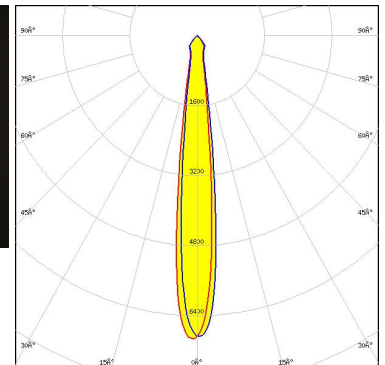
LED VERO29
FWHM / FWTM 27.0° / 76.0°
Efficiency 90 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13584_CLAMP-VERO29



Light distribution files



LED Vesta TW 15mm DP
FWHM / FWTM 13.0° / 29.0°
Efficiency 92 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour/type Tunable White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 482 Typ L2



Light distribution files

OPTICAL RESULTS (MEASURED):



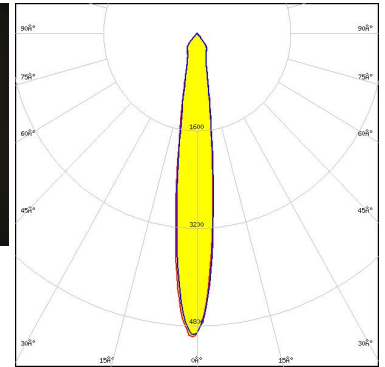
LED Vesta TW 15mm DP
 FWHM / FWTM 15.0° / 38.0°
 Efficiency 87 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White

Required components:

C13658_CLAMP-VERO13-18

F13671_ANGE-RZ-LENS

Bender Wirth: 482 Typ L2



Light distribution files

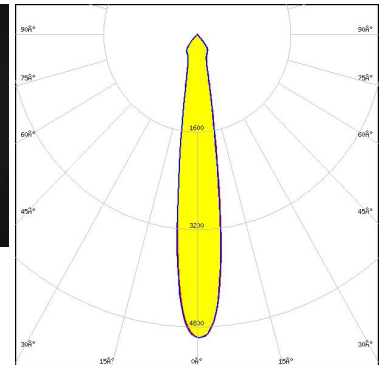


LED Vesta TW 18mm (31W) DP
 FWHM / FWTM 16.0° / 38.0°
 Efficiency 92 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 483 Typ L3



Light distribution files



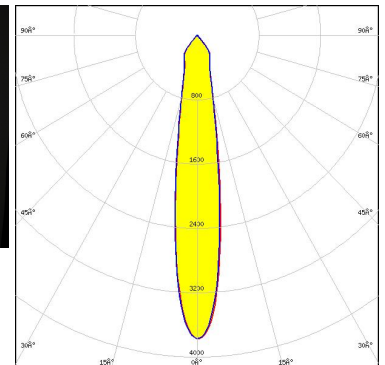
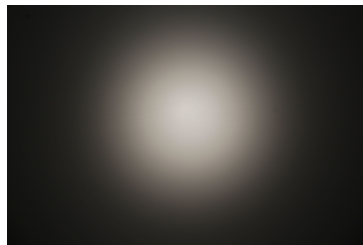
LED Vesta TW 18mm (31W) DP
 FWHM / FWTM 17.0° / 51.0°
 Efficiency 87 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White

Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS

Bender Wirth: 483 Typ L3



Light distribution files

OPTICAL RESULTS (MEASURED):



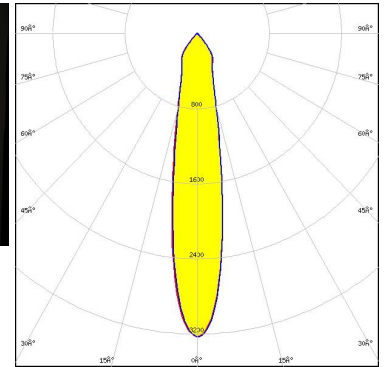
LED Vesta TW 22mm DP
FWHM / FWTM 20.0° / 64.0°
Efficiency 87 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour/type Tunable White

Required components:

C13584_CLAMP-VERO29

F13671_ANGE-RZ-LENS

Bender Wirth: 494 Typ L3



Light distribution files

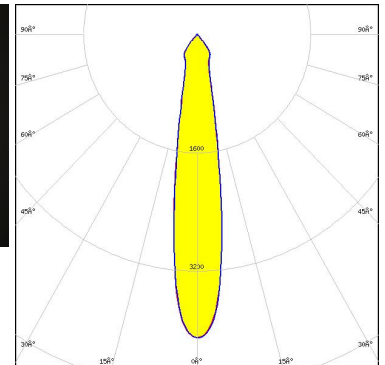


LED Vesta TW 22mm DP
FWHM / FWTM 18.0° / 47.0°
Efficiency 92 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type Tunable White

Required components:

C13584_CLAMP-VERO29

Bender Wirth: 494 Typ L3



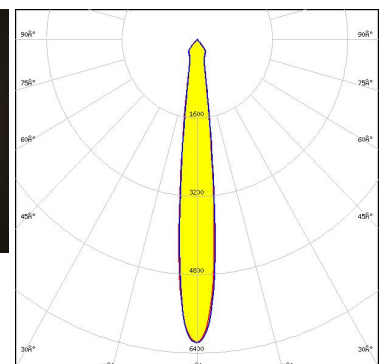
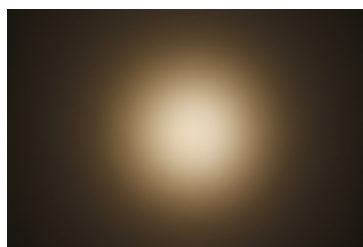
Light distribution files

CITIZEN

LED CLU03x
FWHM / FWTM 13.0° / 31.0°
Efficiency 90 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

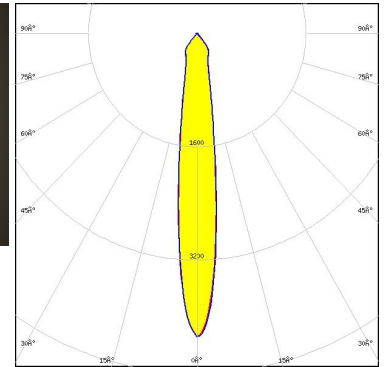


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

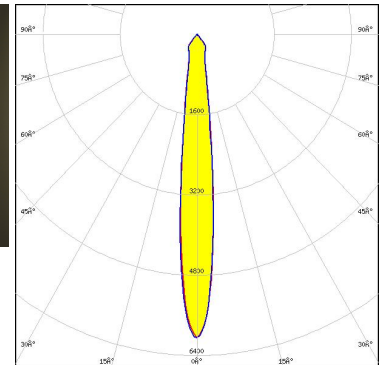
LED CLU03x
 FWHM / FWTM 15.0° / 44.0°
 Efficiency 85 %
 Peak intensity 4.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103CT + 50-2100AN



Light distribution files

CITIZEN

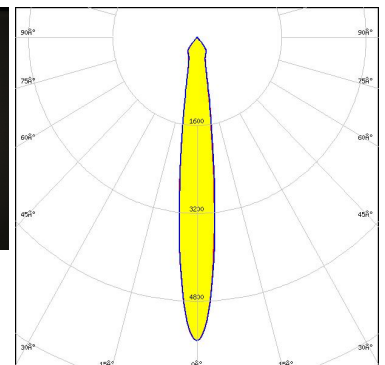
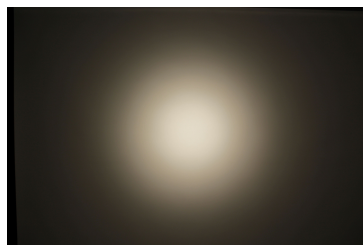
LED CLU03x
 FWHM / FWTM 13.0° / 33.0°
 Efficiency 89 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2103CT + 50-2100AN



Light distribution files

CITIZEN

LED CLU03x
 FWHM / FWTM 14.0° / 35.0°
 Efficiency 89 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16791_CLAMP-Z45-A
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2325807-3



Light distribution files

OPTICAL RESULTS (MEASURED):

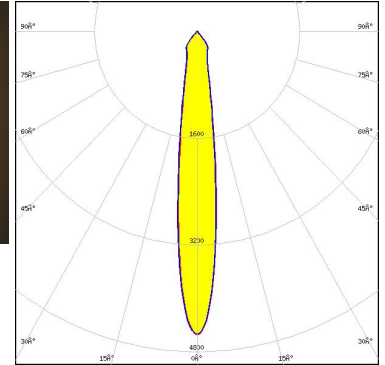
CITIZEN

LED CLU03x
FWHM / FWTM 15.0° / 41.0°
Efficiency 85 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

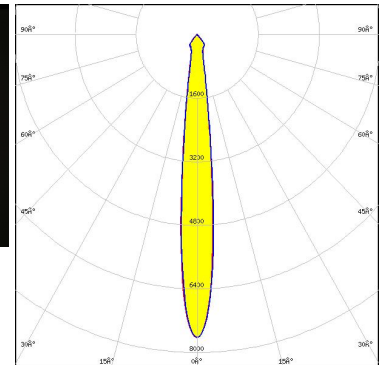
CITIZEN

LED CLU03x
FWHM / FWTM 12.0° / 27.0°
Efficiency 93 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

C16791_CLAMP-Z45-A

TE Connectivity: 2325807-3



Light distribution files

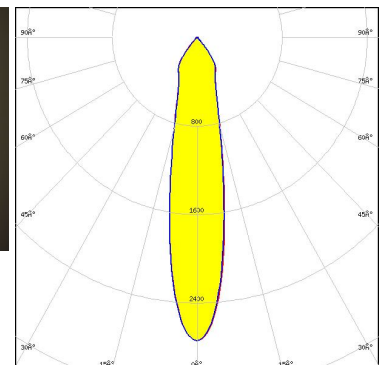
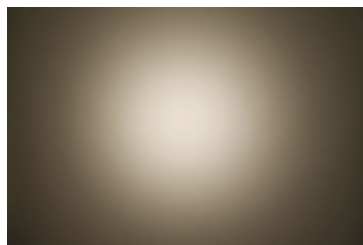
CITIZEN

LED CLU04x
FWHM / FWTM 21.0° / 71.0°
Efficiency 85 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

IDEAL: 50-2204-CT + 50-2100AN

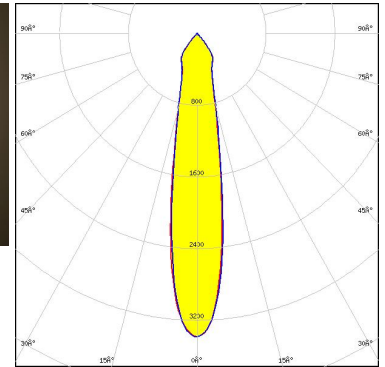


Light distribution files

OPTICAL RESULTS (MEASURED):

CITIZEN

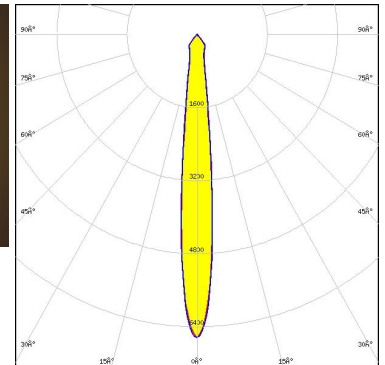
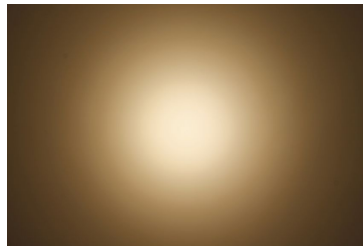
LED CLU04x
 FWHM / FWTM 19.0° / 65.0°
 Efficiency 90 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

CITIZEN

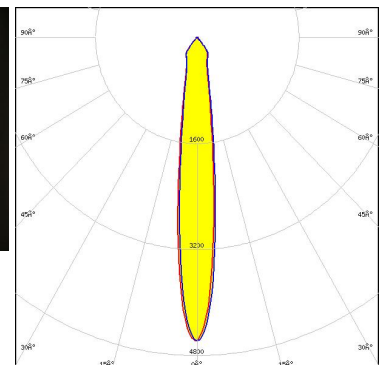
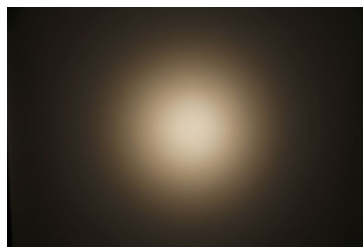
LED CLU730/731/733
 FWHM / FWTM 12.0° / 30.0°
 Efficiency 89 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files

CITIZEN

LED CLU730/731/733
 FWHM / FWTM 14.0° / 41.0°
 Efficiency 85 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN

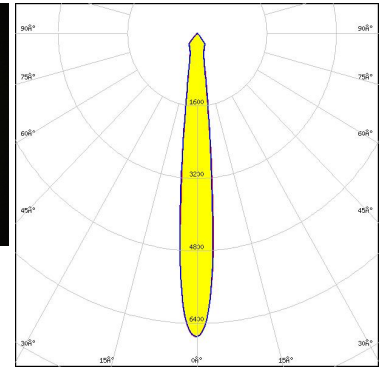


Light distribution files

OPTICAL RESULTS (MEASURED):



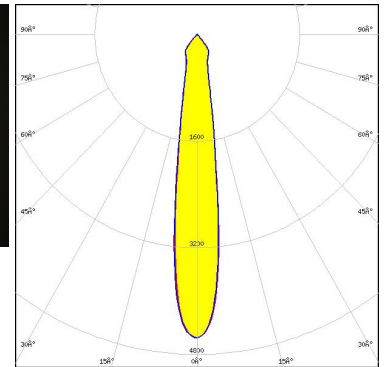
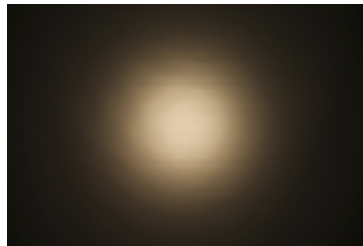
LED CMA1840
FWHM / FWTM 12.0° / 29.0°
Efficiency 91 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14123_CLAMP-CXA15-18



Light distribution files



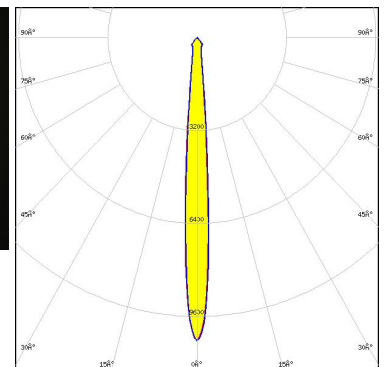
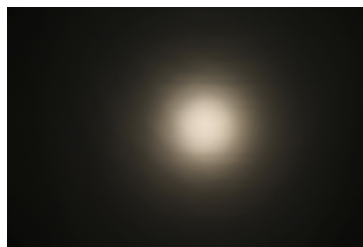
LED CMA2550
FWHM / FWTM 16.0° / 43.0°
Efficiency 91 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14036_CLAMP_CXA25-30



Light distribution files



LED CMT14xx
FWHM / FWTM 9.0° / 21.0°
Efficiency 91 %
Peak intensity 10.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 434 Typ L1

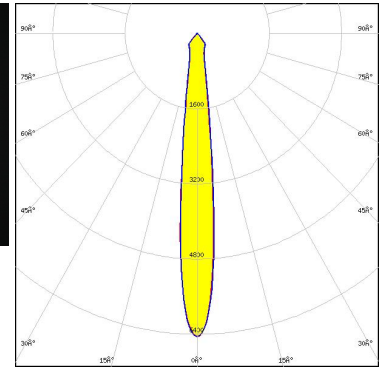
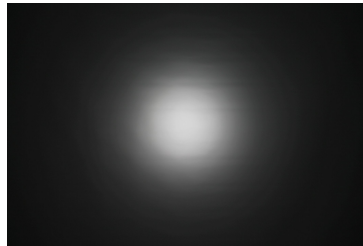


Light distribution files

OPTICAL RESULTS (MEASURED):



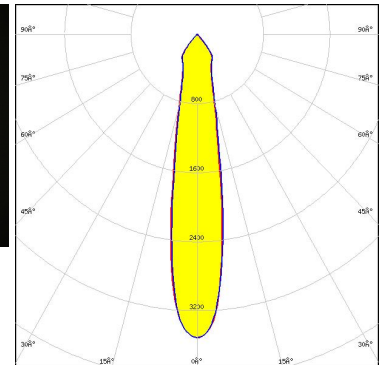
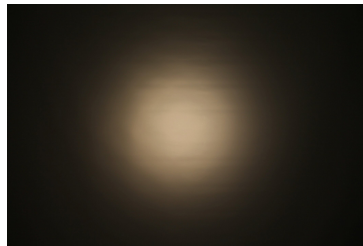
LED CMT19xx
 FWHM / FWTM 12.0° / 31.0°
 Efficiency 91 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 477 Typ L1



Light distribution files



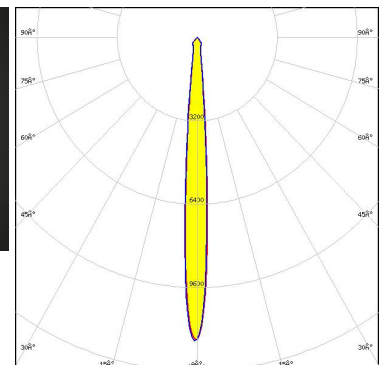
LED CMT28xx
 FWHM / FWTM 19.0° / 61.0°
 Efficiency 90 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 471 Typ L3



Light distribution files



LED CXA/B 15xx
 FWHM / FWTM 8.0° / 20.0°
 Efficiency 90 %
 Peak intensity 12 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14123_CLAMP-CXA15-18

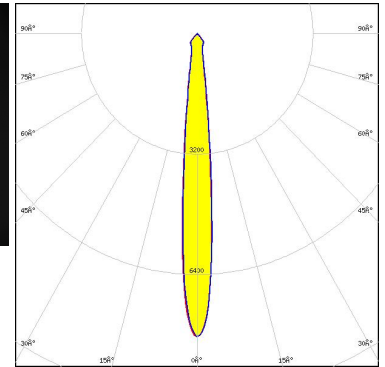
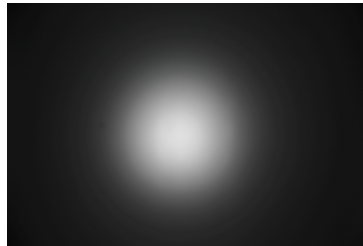


Light distribution files

OPTICAL RESULTS (MEASURED):



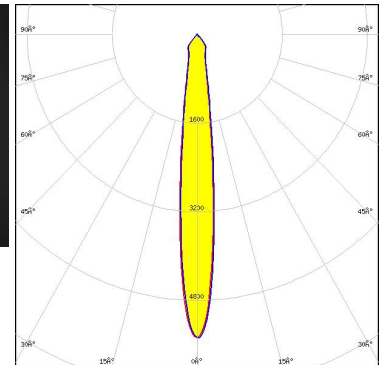
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 11.0° / 26.0°
 Efficiency 91 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



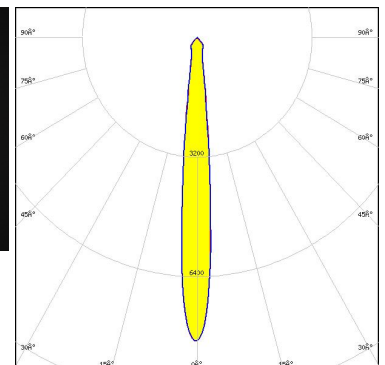
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 13.0° / 35.0°
 Efficiency 86 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM / FWTM 11.0° / 25.0°
 Efficiency 90 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C14123_CLAMP-CXA15-18

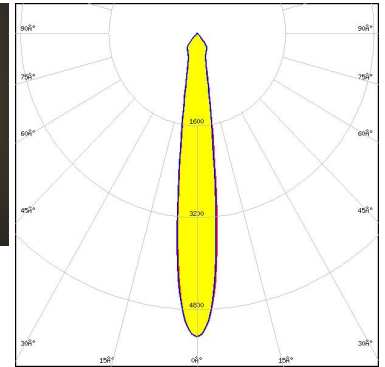


Light distribution files

OPTICAL RESULTS (MEASURED):



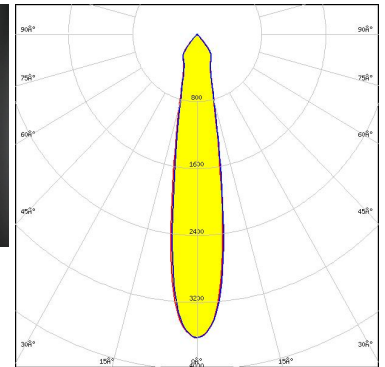
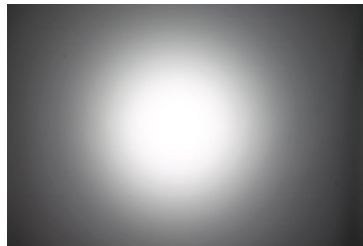
LED CXA/B 25xx
FWHM / FWTM 15.0° / 38.0°
Efficiency 90 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14036_CLAMP_CXA25-30



Light distribution files



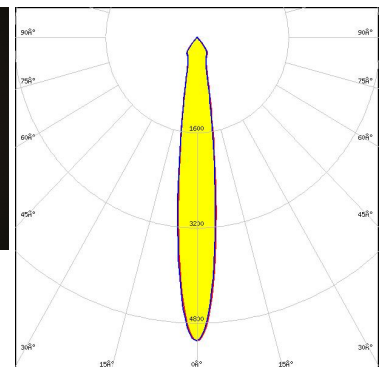
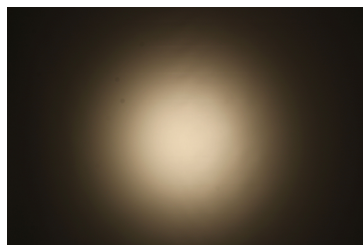
LED CXA/B 30xx
FWHM / FWTM 19.0° / 55.0°
Efficiency 90 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C14036_CLAMP_CXA25-30



Light distribution files



LED PrevaLED Core G7 L15 H1
FWHM / FWTM 15.0° / 37.0°
Efficiency 89 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
C16685_CLAMP-PRV-A
F13671_ANGE-RZ-LENS

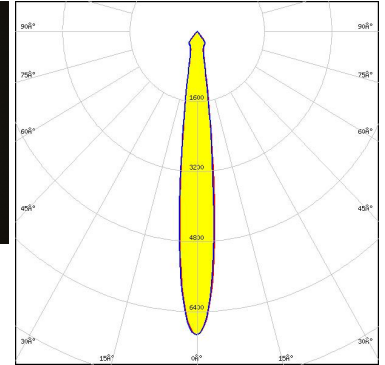


Light distribution files

OPTICAL RESULTS (MEASURED):

inventronics

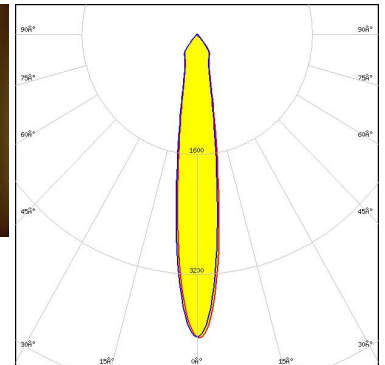
LED PrevaLED Core G7 L15 H1
 FWHM / FWTM 13.0° / 29.0°
 Efficiency 93 %
 Peak intensity 6.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C16685_CLAMP-PRV-A



Light distribution files

inventronics

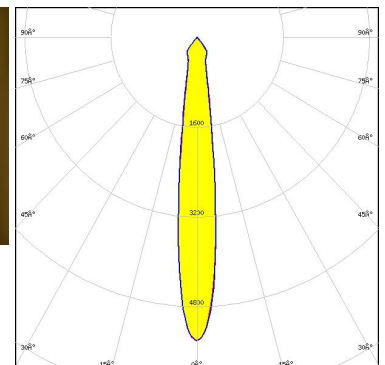
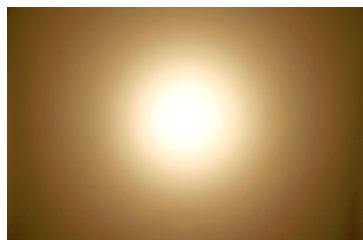
LED PrevaLED Core Z4 LES19
 FWHM / FWTM 16.0° / 48.0°
 Efficiency 86 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

inventronics

LED PrevaLED Core Z4 LES19
 FWHM / FWTM 14.0° / 36.0°
 Efficiency 90 %
 Peak intensity 5.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

OPTICAL RESULTS (MEASURED):

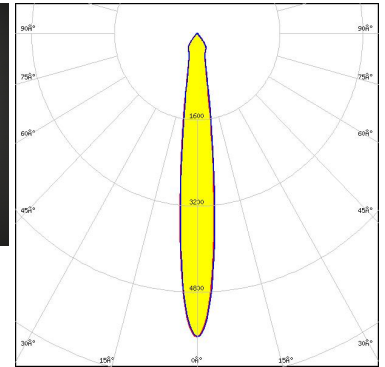


LED LUXEON CoB 1204/1205
 FWHM / FWTM 13.0° / 33.0°
 Efficiency 87 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

F15412_ANGELETTE-DL

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

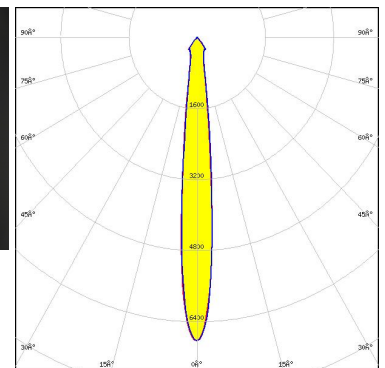
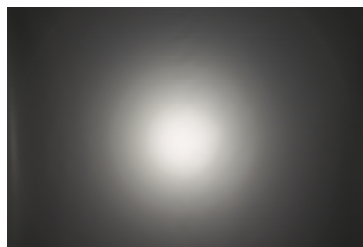


LED LUXEON CoB 1204/1205
 FWHM / FWTM 12.0° / 28.0°
 Efficiency 88 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

F15176_ANGELETTE-LENS

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

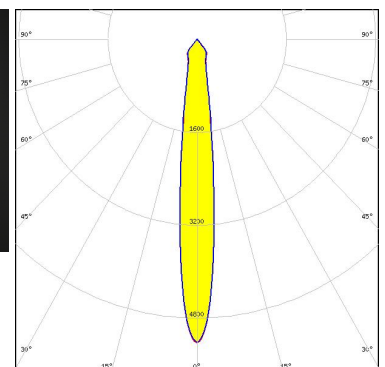
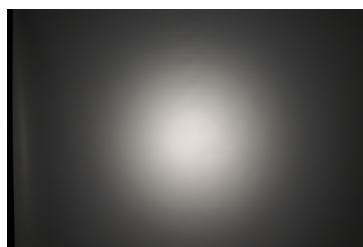


LED LUXEON CoB 1204/1205
 FWHM / FWTM 13.0° / 37.0°
 Efficiency 86 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

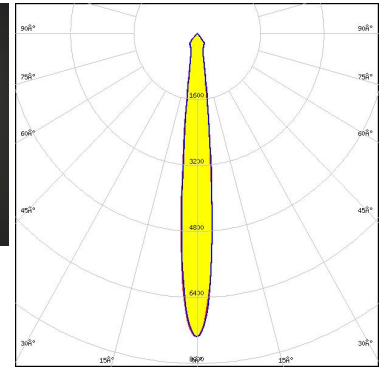
OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1204/1205
 FWHM / FWTM 12.0° / 28.0°
 Efficiency 90 %
 Peak intensity 7.4 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



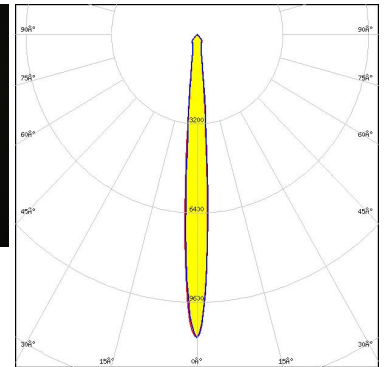
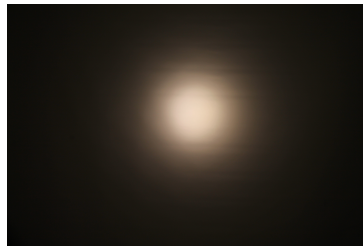
Light distribution files



LED LUXEON CoB 1204HD
 FWHM / FWTM 8.5° / 21.0°
 Efficiency 90 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



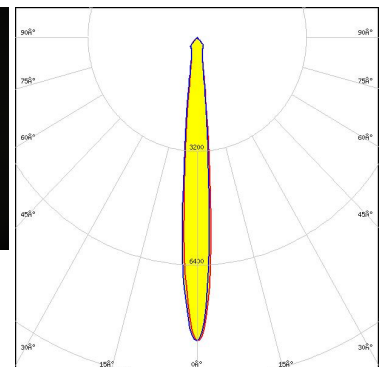
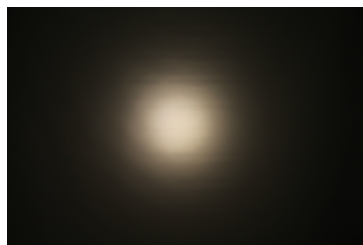
Light distribution files



LED LUXEON CoB 1205HD
 FWHM / FWTM 10.0° / 25.0°
 Efficiency 90 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

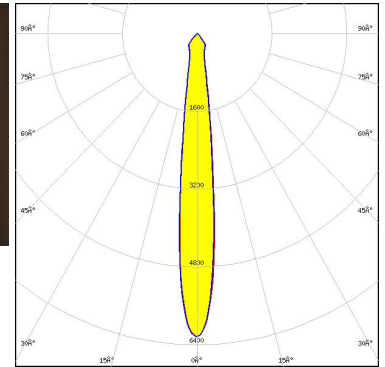
OPTICAL RESULTS (MEASURED):



LED LUXEON CoB 1208
 FWHM / FWTM 13.0° / 31.0°
 Efficiency 89 %
 Peak intensity 6.2 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

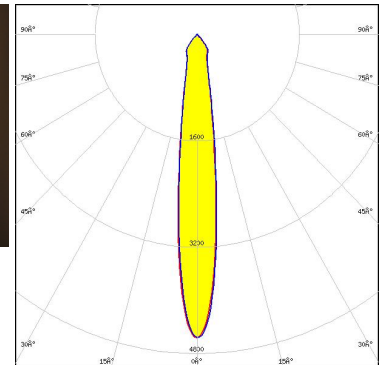


LED LUXEON CoB 1208
 FWHM / FWTM 15.0° / 41.0°
 Efficiency 85 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

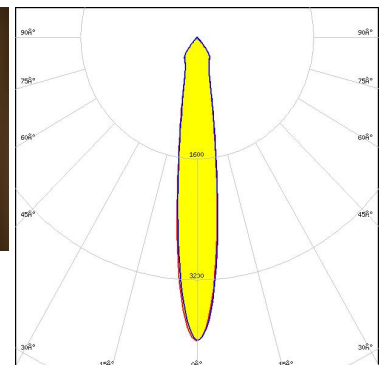
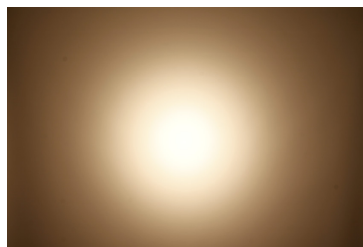


LED LUXEON CoB 1208
 FWHM / FWTM 16.0° / 48.0°
 Efficiency 85 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

IDEAL: 50-2100SH + 50-2100AN

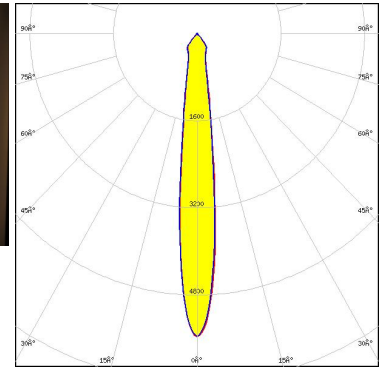


Light distribution files

OPTICAL RESULTS (MEASURED):



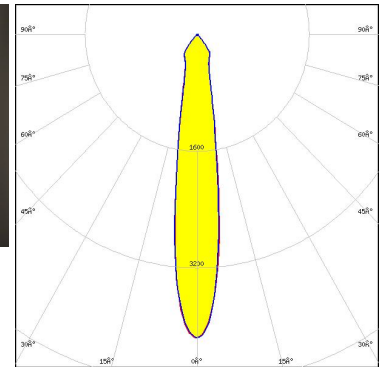
LED LUXEON CoB 1208
 FWHM / FWTM 13.0° / 35.0°
 Efficiency 89 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2100SH + 50-2100AN



Light distribution files



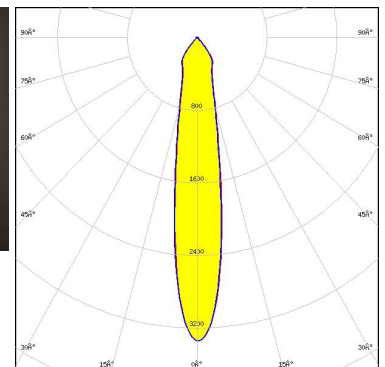
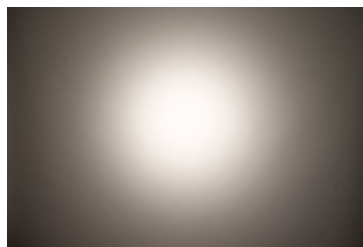
LED LUXEON CoB 1211
 FWHM / FWTM 17.0° / 48.0°
 Efficiency 89 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



LED LUXEON CoB 1211
 FWHM / FWTM 18.0° / 62.0°
 Efficiency 86 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN

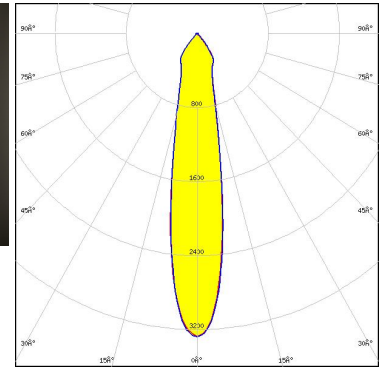


Light distribution files

OPTICAL RESULTS (MEASURED):



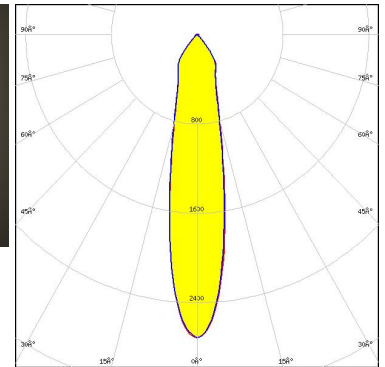
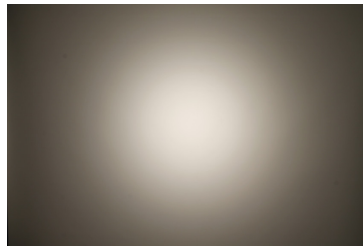
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 20.0° / 68.0°
 Efficiency 89 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



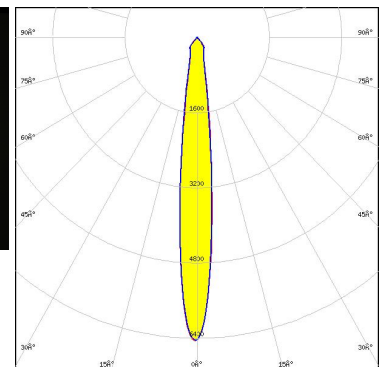
LED LUXEON CoB 1213/1216/1812
 FWHM / FWTM 21.0° / 71.0°
 Efficiency 86 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2204-CT + 50-2100AN



Light distribution files



LED CDM-14 (Dim-To-Warm)
 FWHM / FWTM 12.0° / 31.0°
 Efficiency 87 %
 Peak intensity 6.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2

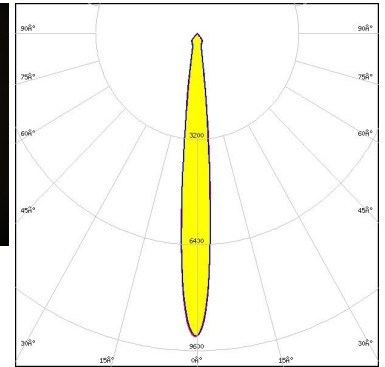


Light distribution files

OPTICAL RESULTS (MEASURED):



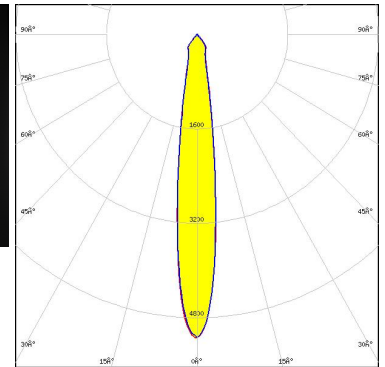
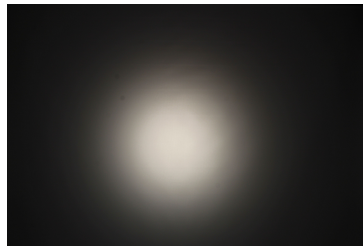
LED CDM-14 (Dim-To-Warm)
 FWHM / FWTM 11.0° / 24.0°
 Efficiency 91 %
 Peak intensity 9.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2



Light distribution files



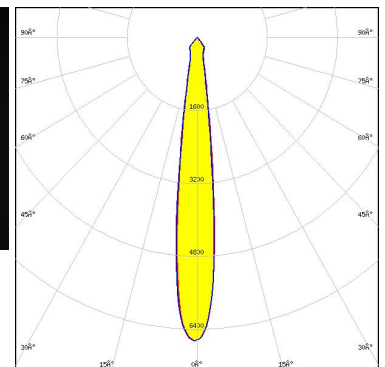
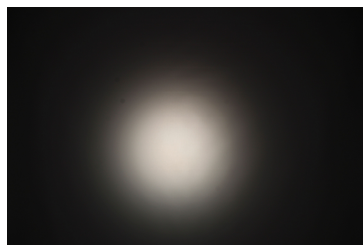
LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 15.0° / 36.0°
 Efficiency 87 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 491 Typ L2



Light distribution files



LED CDM-18 (Dim-To-Warm)
 FWHM / FWTM 14.0° / 30.0°
 Efficiency 92 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 491 Typ L2

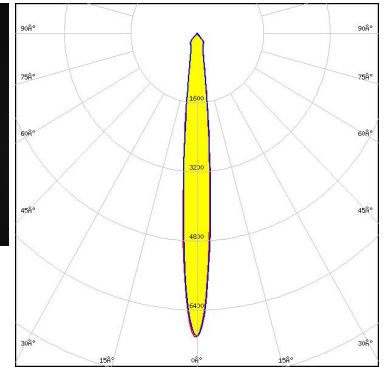


Light distribution files

OPTICAL RESULTS (MEASURED):



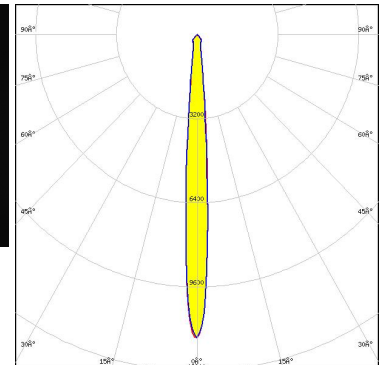
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 11.0° / 28.0°
 Efficiency 84 %
 Peak intensity 7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 490 Typ L1



Light distribution files



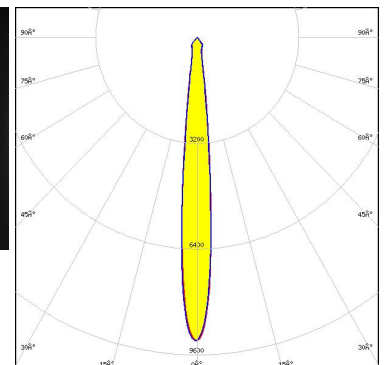
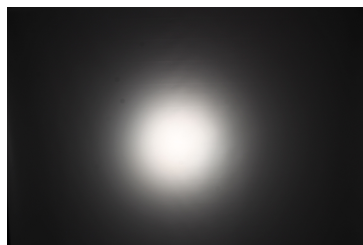
LED CDM-9 (Dim-To-Warm)
 FWHM / FWTM 8.4° / 20.0°
 Efficiency 89 %
 Peak intensity 11.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 490 Typ L1



Light distribution files



LED CTM-14 (Tunable White)
 FWHM / FWTM 11.0° / 24.0°
 Efficiency 92 %
 Peak intensity 9.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 442 Typ L3

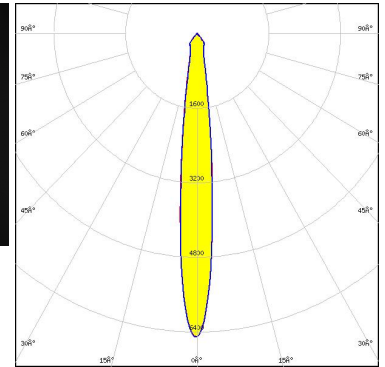


Light distribution files

OPTICAL RESULTS (MEASURED):



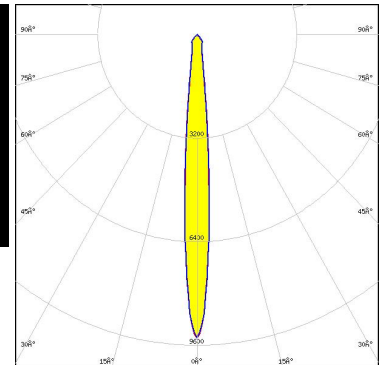
LED CTM-14 (Tunable White)
 FWHM / FWTM 12.0° / 30.0°
 Efficiency 87 %
 Peak intensity 6.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 442 Typ L3



Light distribution files



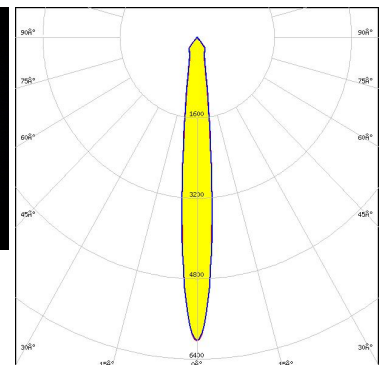
LED CTM-14 RGBW
 FWHM / FWTM 10.0° / 24.0°
 Efficiency 90 %
 Peak intensity 9.4 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 500 Typ L3-1



Light distribution files



LED CTM-14 RGBW
 FWHM / FWTM 12.0° / 33.0°
 Efficiency 86 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour/type RGBW
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 500 Typ L3-1



Light distribution files

OPTICAL RESULTS (MEASURED):



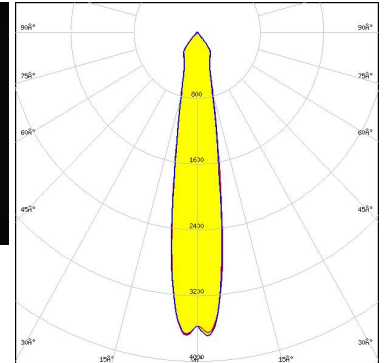
LED CTM-22 (Tunable White)
 FWHM / FWTM 19.0° / 63.0°
 Efficiency 84 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 494 Typ L3



Light distribution files



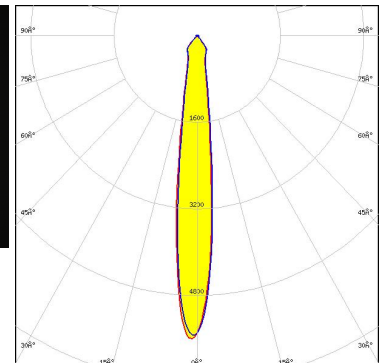
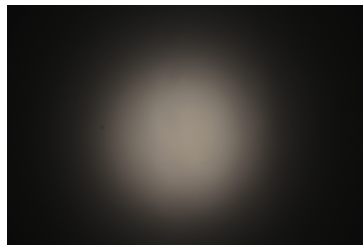
LED CTM-22 (Tunable White)
 FWHM / FWTM 18.0° / 52.0°
 Efficiency 88 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 494 Typ L3



Light distribution files



LED COB J-Type
 FWHM / FWTM 13.0° / 35.0°
 Efficiency 91 %
 Peak intensity 5.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2103NC + 50-2100AN

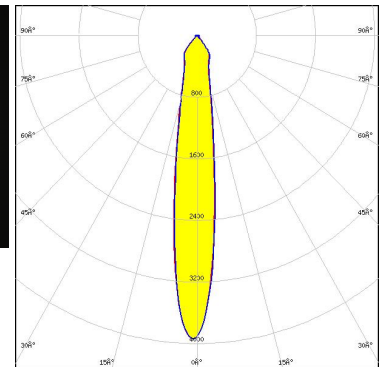
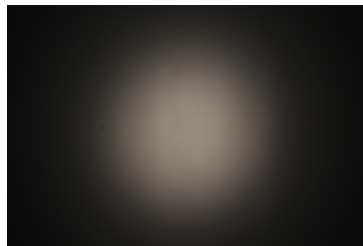


Light distribution files

OPTICAL RESULTS (MEASURED):



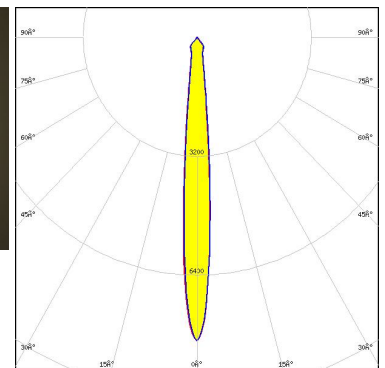
LED COB J-Type
 FWHM / FWTM 16.0° / 49.0°
 Efficiency 86 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2103NC + 50-2100AN



Light distribution files



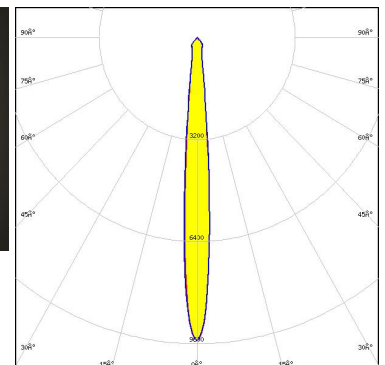
LED COB L-Type (LES 11)
 FWHM / FWTM 10.0° / 26.0°
 Efficiency 89 %
 Peak intensity 8.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 IDEAL: 50-2100NC + 50-2100AN



Light distribution files



LED COB L-Type (LES 11)
 FWHM / FWTM 10.0° / 23.0°
 Efficiency 90 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

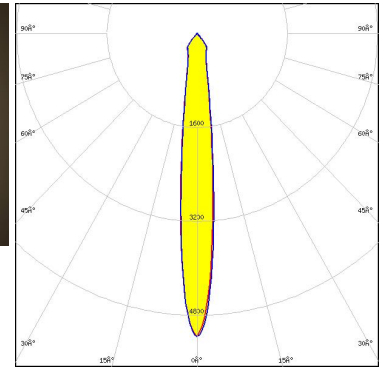


Light distribution files

OPTICAL RESULTS (MEASURED):



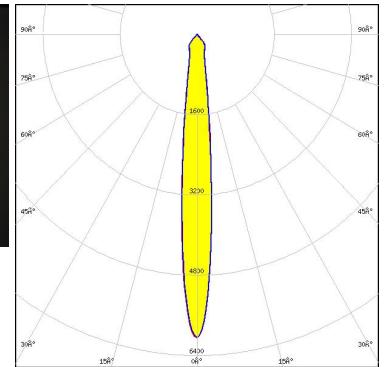
LED COB L-Type (LES 11)
 FWHM / FWTM 13.0° / 37.0°
 Efficiency 84 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 IDEAL: 50-2100NC + 50-2100AN



Light distribution files



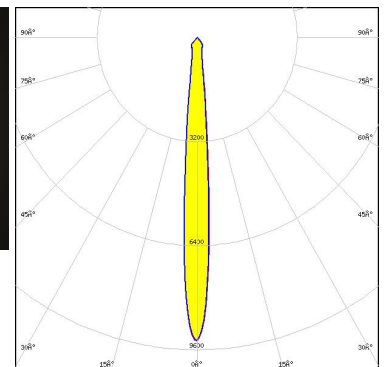
LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 12.0° / 32.0°
 Efficiency 85 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 F13671_ANGE-RZ-LENS
 Bender Wirth: 498 Typ L2



Light distribution files



LED NVCWJ024Z-V1MT: COB J-Type Tunable White
 FWHM / FWTM 10.0° / 23.0°
 Efficiency 90 %
 Peak intensity 9.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18
 Bender Wirth: 498 Typ L2

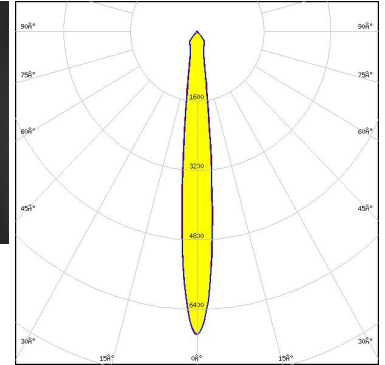


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

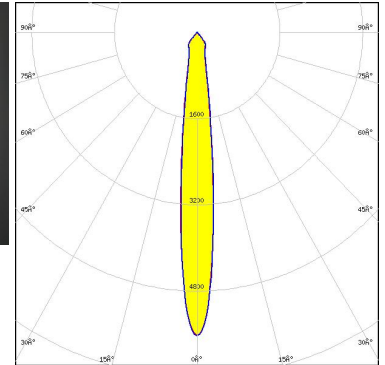
LED Soleriq S13 19x19
FWHM / FWTM 12.0° / 29.0°
Efficiency 89 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
IDEAL: 50-2103CT + 50-2100AN



Light distribution files

OSRAM
Opto Semiconductors

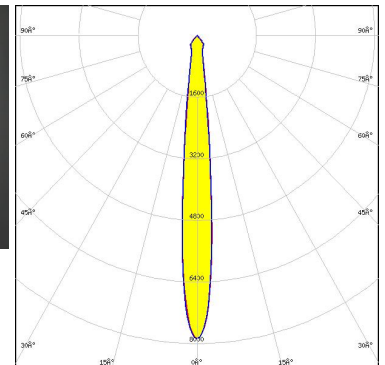
LED Soleriq S13 19x19
FWHM / FWTM 13.0° / 34.0°
Efficiency 85 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

OSRAM
Opto Semiconductors

LED Soleriq S13 19x19
FWHM / FWTM 11.0° / 26.0°
Efficiency 89 %
Peak intensity 7.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

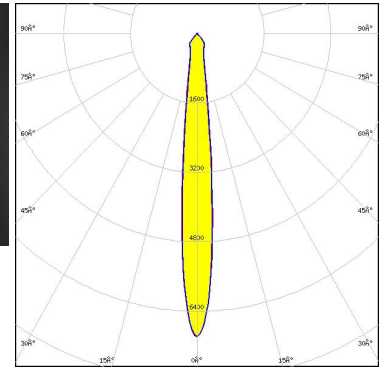


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

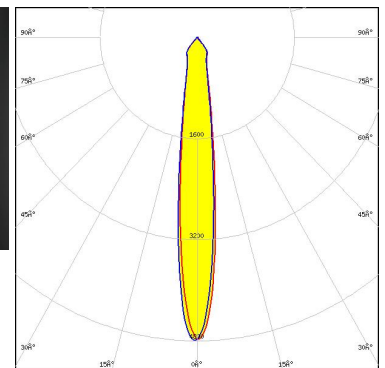
LED Soleriq S13 19x19
FWHM / FWTM 12.0° / 29.0°
Efficiency 89 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
IDEAL: 50-2103CT + 50-2100AN



Light distribution files

OSRAM
Opto Semiconductors

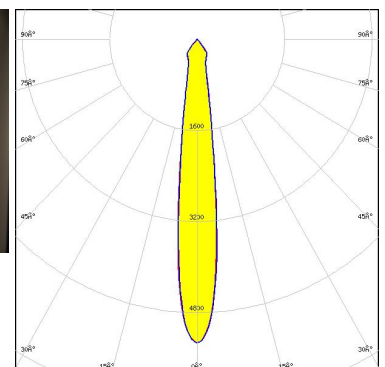
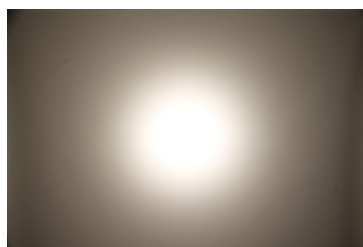
LED Soleriq S13 19x19
FWHM / FWTM 14.0° / 39.0°
Efficiency 84 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
F13671_ANGE-RZ-LENS
IDEAL: 50-2103CT + 50-2100AN



Light distribution files

OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 14.0° / 36.0°
Efficiency 90 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:
TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

OPTICAL RESULTS (MEASURED):

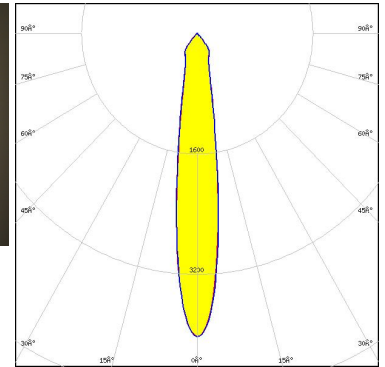
OSRAM
Opto Semiconductors

LED Soleriq S19
FWHM / FWTM 16.0° / 47.0°
Efficiency 85 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

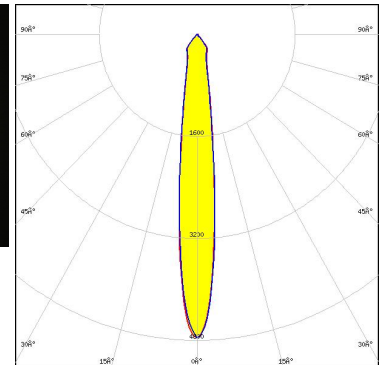
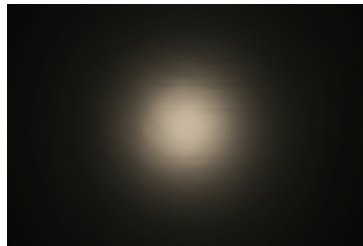
PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 14.0° / 39.0°
Efficiency 85 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



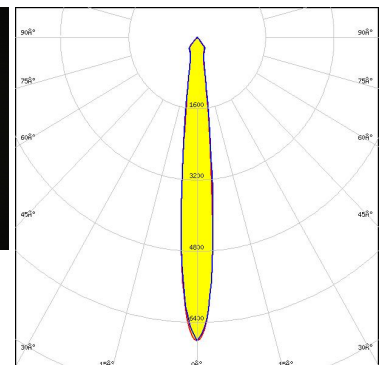
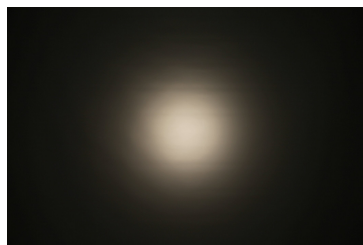
Light distribution files

PHILIPS

LED Fortimo SLM L13 CoB
FWHM / FWTM 12.0° / 29.0°
Efficiency 91 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

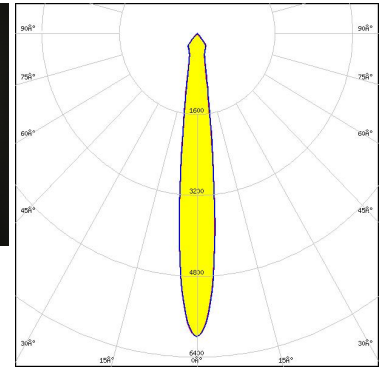


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

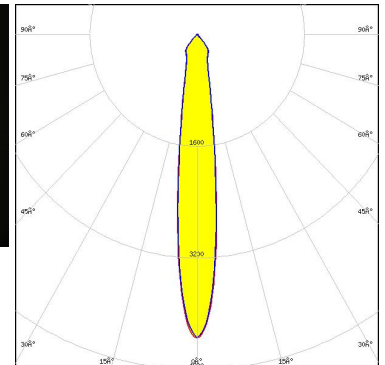
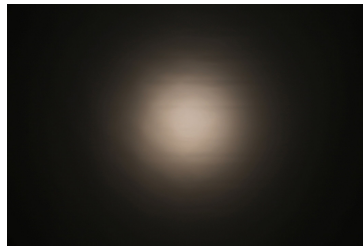
LED Fortimo SLM L15 + SLM holder
 FWHM / FWTM 13.0° / 32.0°
 Efficiency 89 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

PHILIPS

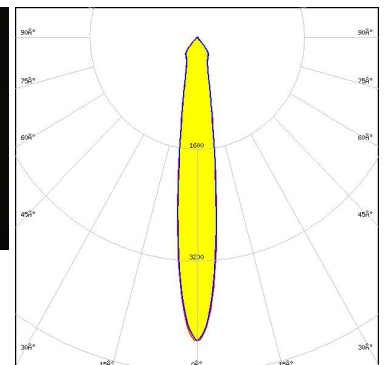
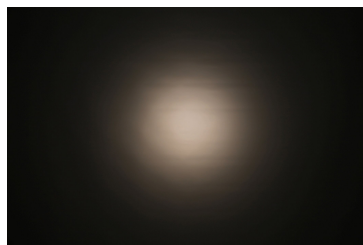
LED Fortimo SLM L15 CoB
 FWHM / FWTM 15.0° / 43.0°
 Efficiency 85 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

PHILIPS

LED Fortimo SLM L15 CoB
 FWHM / FWTM 15.0° / 43.0°
 Efficiency 85 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1

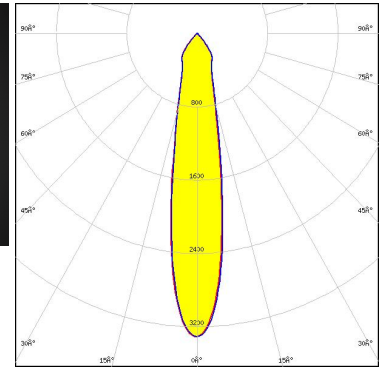
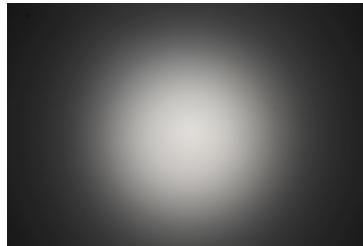


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

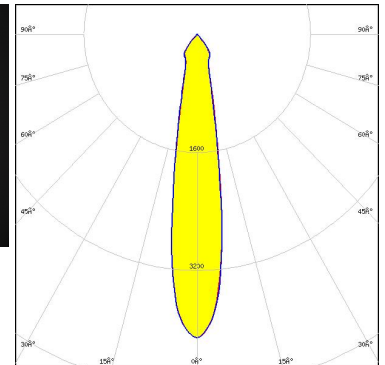
LED LC035T (Tunable white)
 FWHM / FWTM 20.0° / 62.0°
 Efficiency 87 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C13584_CLAMP-VERO29
 F13671_ANGE-RZ-LENS
 Bender Wirth: 502 Typ L3



Light distribution files

SAMSUNG

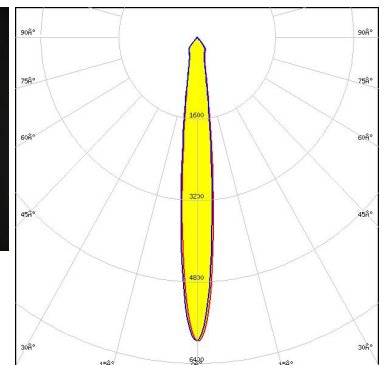
LED LC035T (Tunable white)
 FWHM / FWTM 18.0° / 46.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour/type Tunable White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 502 Typ L3



Light distribution files

SAMSUNG

LED LC040C
 FWHM / FWTM 12.0° / 32.0°
 Efficiency 86 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

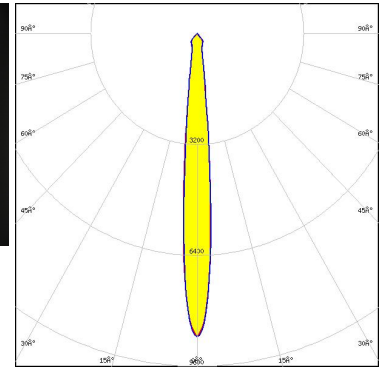
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LC040C
FWHM / FWTM 10.0° / 24.0°
Efficiency 90 %
Peak intensity 8.8 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files

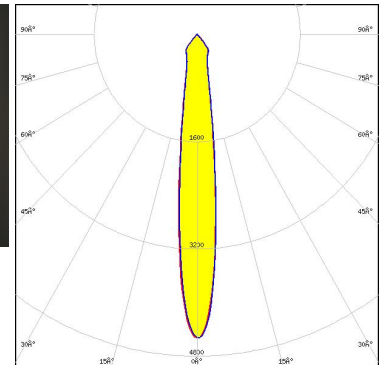


LED AC Zhaga COB
FWHM / FWTM 14.0° / 41.0°
Efficiency 85 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

F13671_ANGE-RZ-LENS

Optosource: SEHSMJD-A



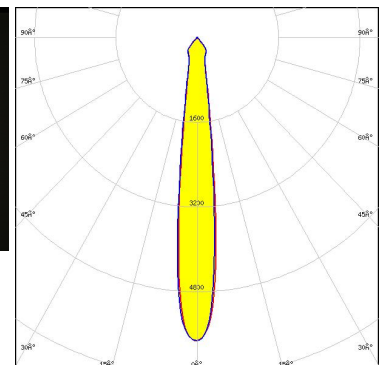
Light distribution files



LED MJT COB LES 14.5
FWHM / FWTM 14.0° / 33.0°
Efficiency 89 %
Peak intensity 5.7 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1

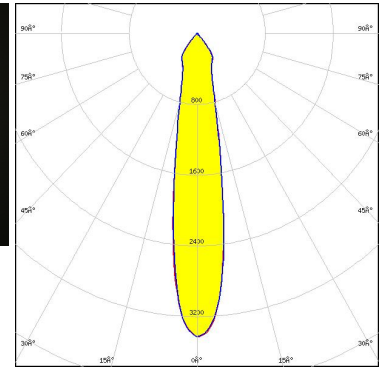


Light distribution files

OPTICAL RESULTS (MEASURED):



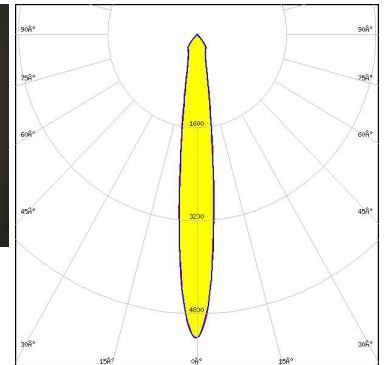
LED MJT COB LES 22
 FWHM / FWTM 19.0° / 63.0°
 Efficiency 88 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13584_CLAMP-VERO29
 Bender Wirth: 431 Typ L3



Light distribution files



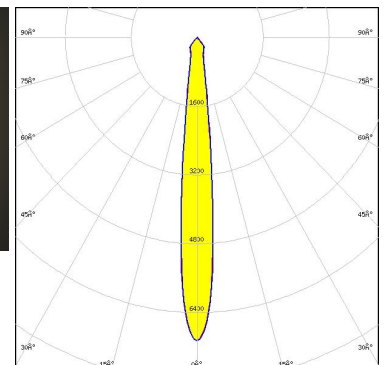
LED WU-M-484
 FWHM / FWTM 13.0° / 36.0°
 Efficiency 85 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 F13671_ANGE-RZ-LENS
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



Light distribution files



LED WU-M-484
 FWHM / FWTM 12.0° / 29.0°
 Efficiency 89 %
 Peak intensity 7.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1

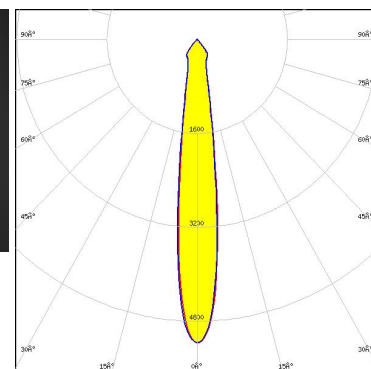
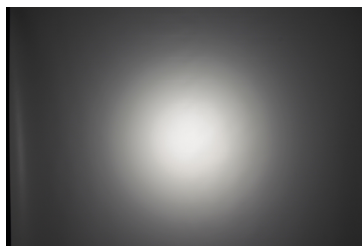


Light distribution files

OPTICAL RESULTS (MEASURED):

XICATO

LED	XTM - 19mm LES
FWHM / FWTM	15.0° / 37.0°
Efficiency	91 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
	C16491_XTM-ADAPTER-50-A



Light distribution files

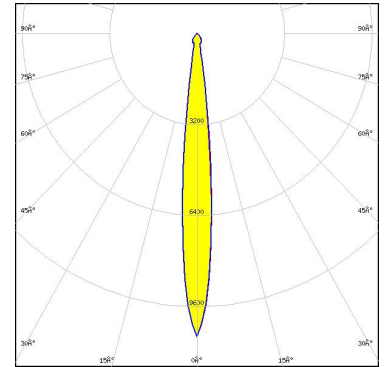
OPTICAL RESULTS (SIMULATED):



LED V13 Gen7
 FWHM / FWTM 11.0° / 22.0°
 Efficiency 92 %
 Peak intensity 10.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C13658_CLAMP-VERO13-18

Bender Wirth: 477 Typ L1

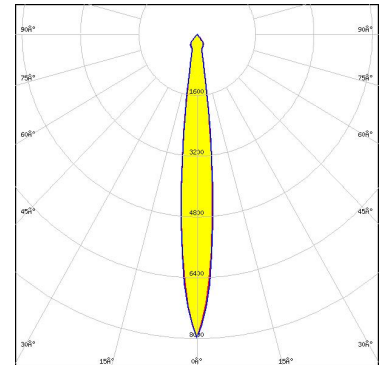
Light distribution files



LED V13 Gen7
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 92 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

IDEAL: 50-2103CT + 50-2100AN

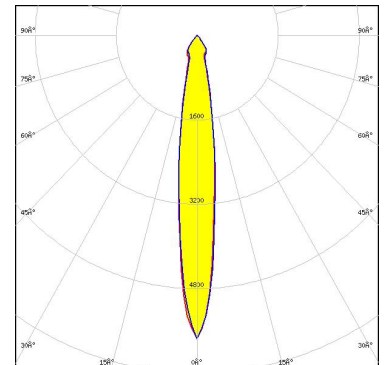
Light distribution files



LED V22 Gen7
 FWHM / FWTM 14.0° / 34.0°
 Efficiency 94 %
 Peak intensity 5.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

IDEAL: 50-2204-CT + 50-2100AN

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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