

MIRELLA-50-S-PF

~15° spot beam

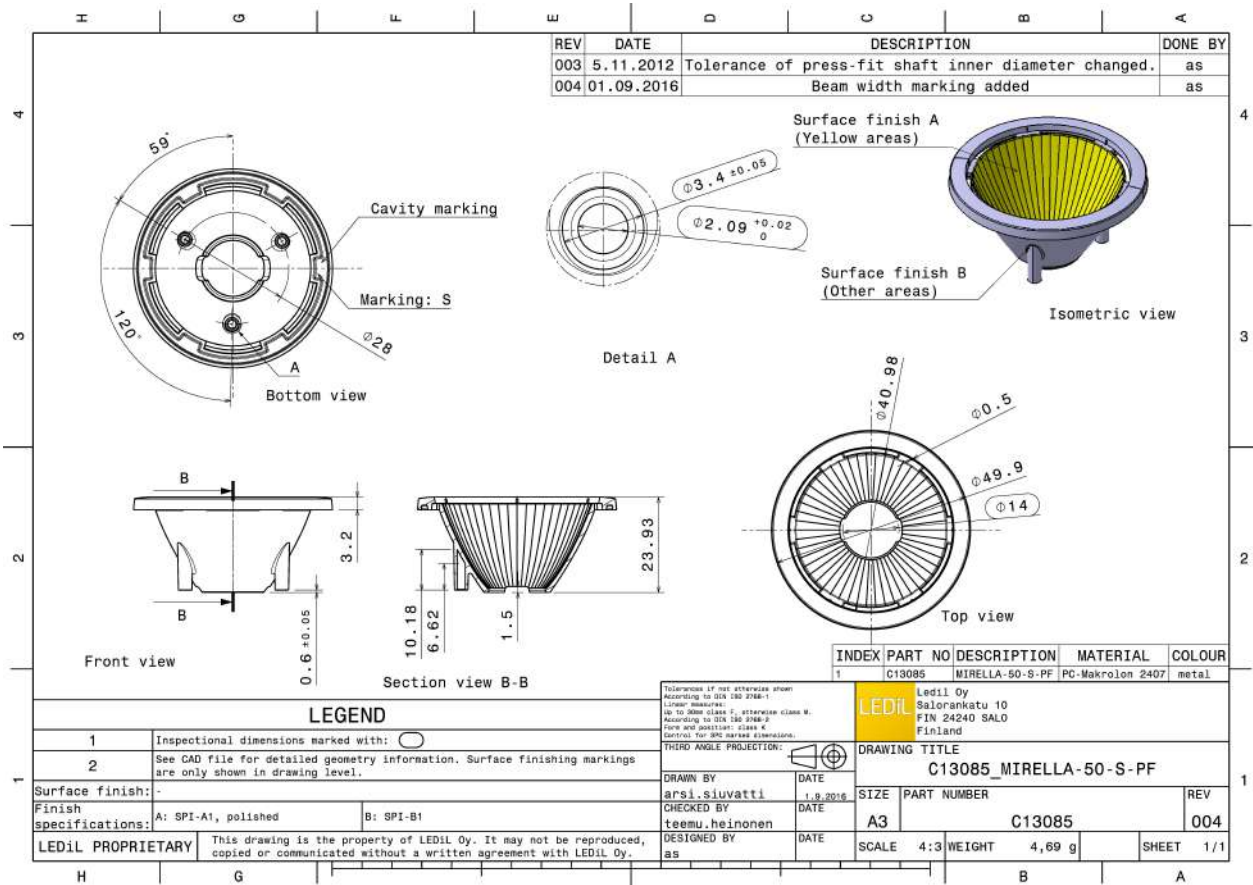
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.9 mm
Height	24 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	3 kg
Quantity in Box	336 pcs
ROHS compliant	yes ⓘ



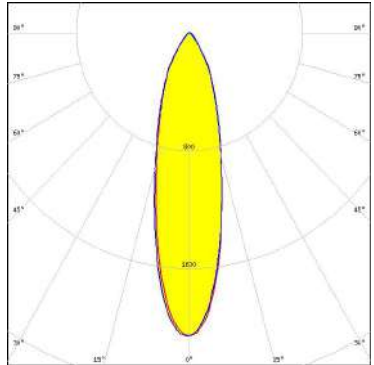


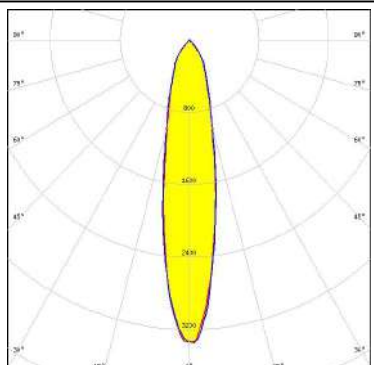


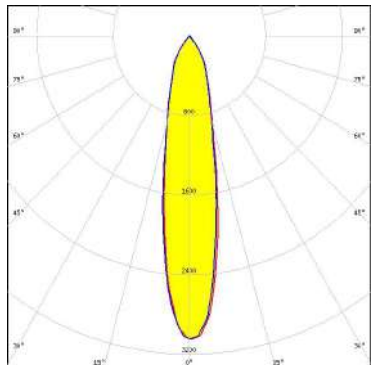


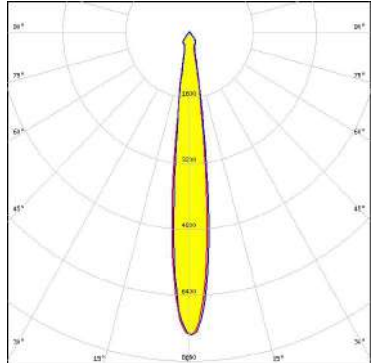


MATERIAL SPECIFICATIONS:


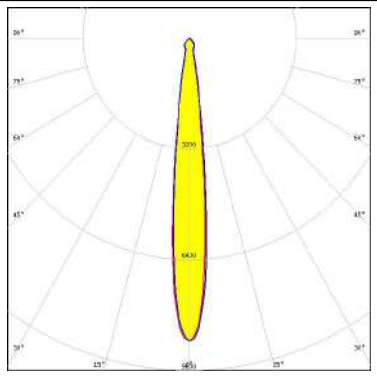



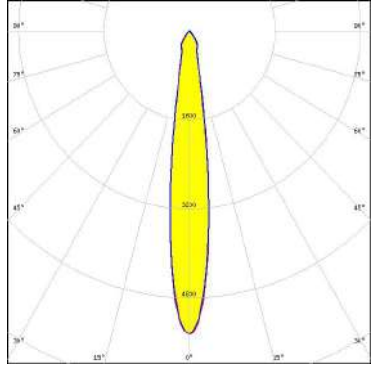

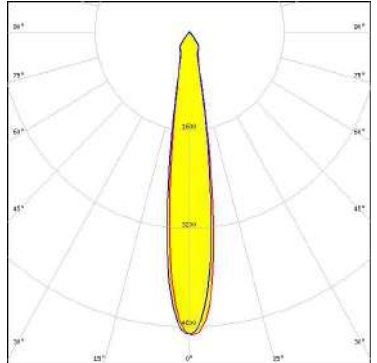
Component	Type	Material	Colour	Coating
MIRELLA-50-S-PF	Reflector	PC	metal	lacquer




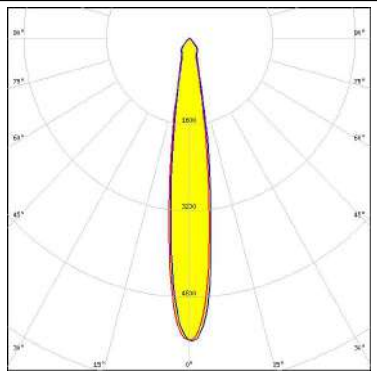
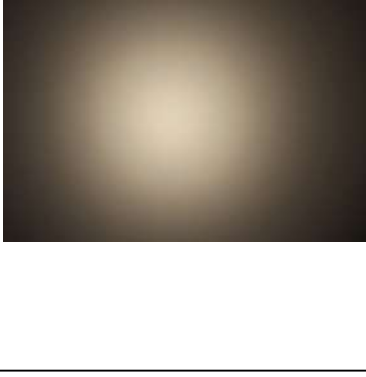


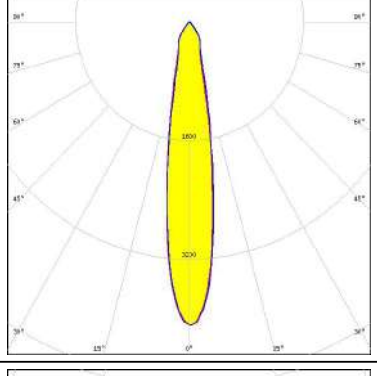

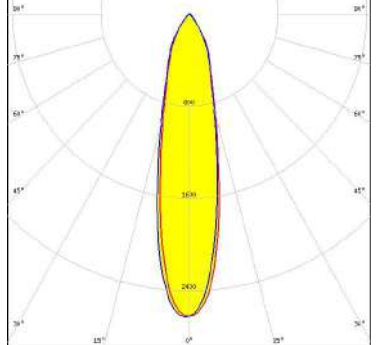
PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED V10 Gen7 FWHM 26.0° Efficiency 79 % Peak intensity 2.100 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		
<p></p> <p>LED V10 Gen7 FWHM 21.0° Efficiency 91 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 486 Typ L1</p>		
<p></p> <p>LED V10 Gen7 FWHM 21.0° Efficiency 81 % Peak intensity 3.100 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL</p>		
<p></p> <p>LED V6 Gen6 FWHM 13.0° Efficiency 84 % Peak intensity 7.400 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL</p>		


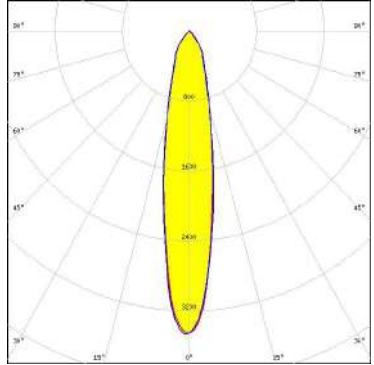
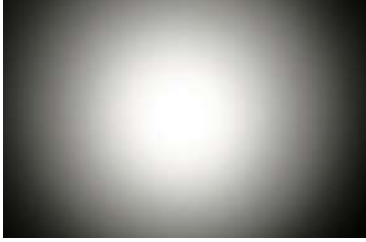
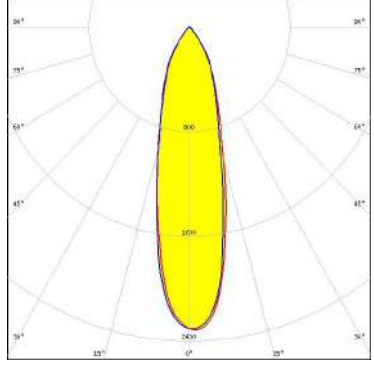

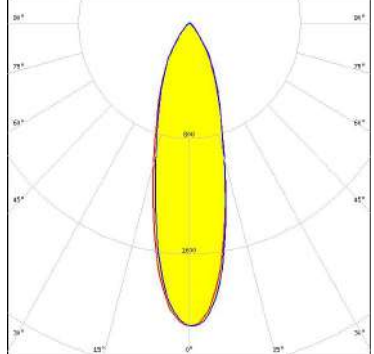
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V6 Gen6 FWHM 12.0° Efficiency 90 % Peak intensity 8.800 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15</p>		
<p>bridgelux.</p> <p>LED V6 Gen6 FWHM 18.0° Efficiency 73 % Peak intensity 4.270 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 460 Typ L1</p>		
<p>bridgelux.</p> <p>LED V6 Gen6 FWHM 15.0° Efficiency 84 % Peak intensity 5.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED V8 Gen6 FWHM 16.0° Efficiency 84 % Peak intensity 4.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL</p>		


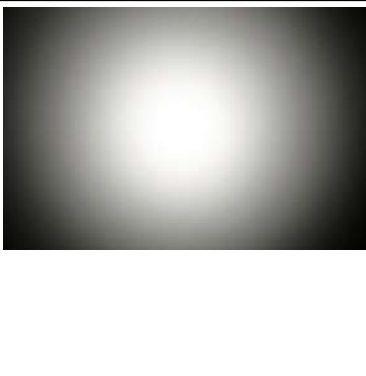
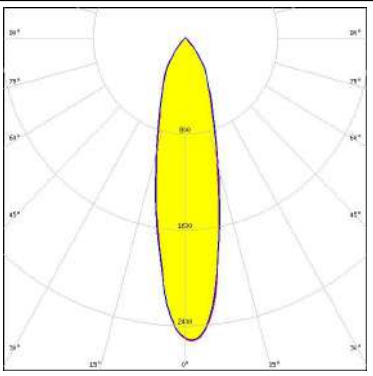

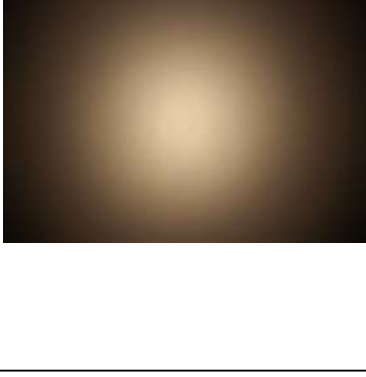
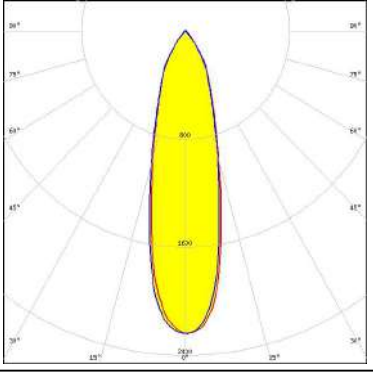

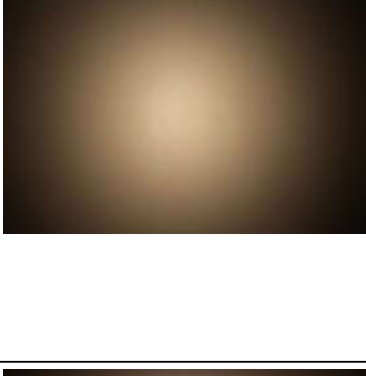
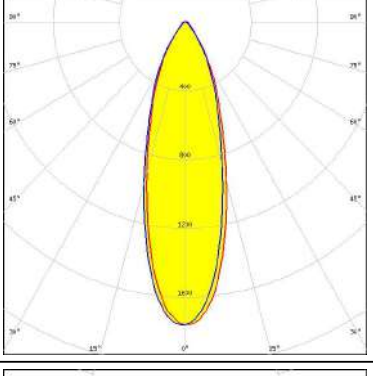


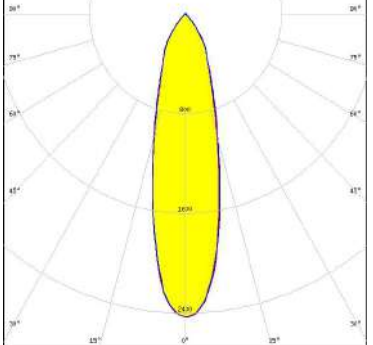
PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V8 Gen6 FWHM 15.0° Efficiency 90 % Peak intensity 5.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15</p>		
<p>bridgelux.</p> <p>LED V8 Gen6 FWHM 20.0° Efficiency 71 % Peak intensity 3.370 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 460 Typ L1</p>		
<p>bridgelux.</p> <p>LED V8 Gen6 FWHM 18.0° Efficiency 85 % Peak intensity 4.100 cd/lm LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C12479_MIRELLA-DL</p>		
<p>bridgelux.</p> <p>LED VERO10 FWHM 23.0° Efficiency 83 % Peak intensity 2.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10 C12479_MIRELLA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED VERO10 FWHM 23.0° Efficiency 83 % Peak intensity 2.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10 C13333_MIRELLA-CL</p>		
<p>bridgelux.</p> <p>LED VERO10 FWHM 20.0° Efficiency 88 % Peak intensity 3.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10</p>		
<p>bridgelux.</p> <p>LED VERO13 FWHM 26.0° Efficiency 83 % Peak intensity 2.320 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL</p>		
<p>bridgelux.</p> <p>LED VERO13 FWHM 28.0° Efficiency 84 % Peak intensity 2.100 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		

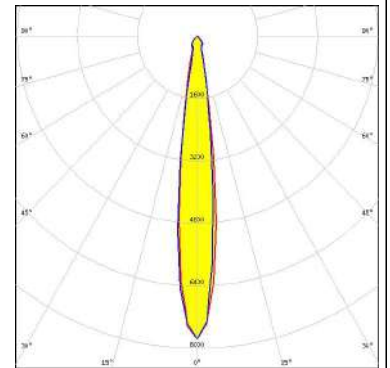
PHOTOMETRIC DATA (MEASURED):

<p></p> <p>LED VERO13 FWHM 25.0° Efficiency 89 % Peak intensity 2.540 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18</p>		
<p></p> <p>LED Xenio Point 13mm FWHM 27.0° Efficiency 83 % Peak intensity 2.240 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL</p>		
<p></p> <p>LED Xenio Point 13mm FWHM 31.0° Efficiency 81 % Peak intensity 1.760 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		
<p></p> <p>LED Xenio Point 13mm FWHM 26.0° Efficiency 87 % Peak intensity 2.400 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18</p>		

PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL01x
 FWHM 14.0°
 Efficiency 88 %
 Peak intensity 7.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



CITIZEN

LED CLL01x
 FWHM 13.0°
 Efficiency 84 %
 Peak intensity 7.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



CITIZEN

LED CLL01x
 FWHM 15.0°
 Efficiency 84 %
 Peak intensity 5.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



CITIZEN

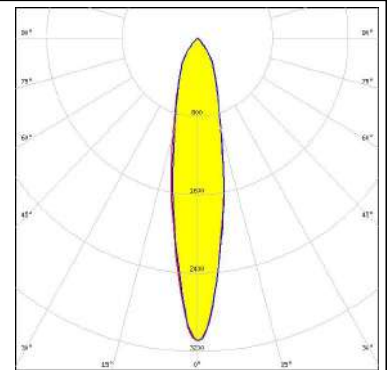
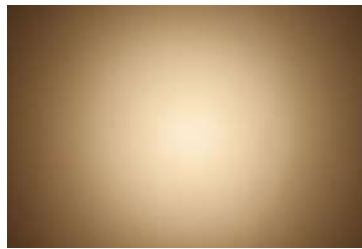
LED CLL02x/CLU02x (LES10)
 FWHM 25.0°
 Efficiency %
 Peak intensity 1.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 21.0°
 Efficiency 84 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



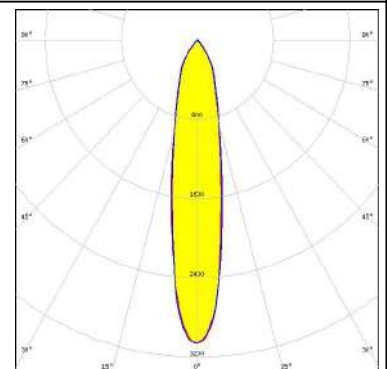
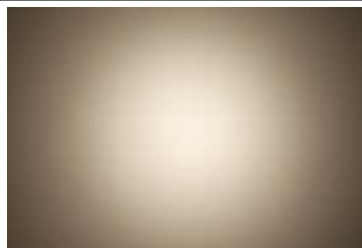
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 18.0°
 Efficiency 83 %
 Peak intensity 5.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



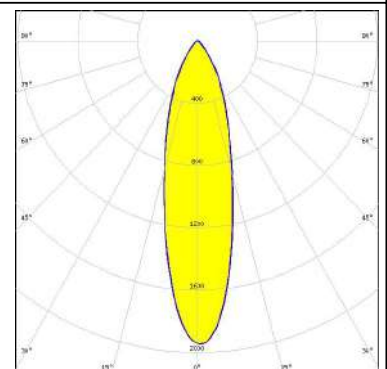
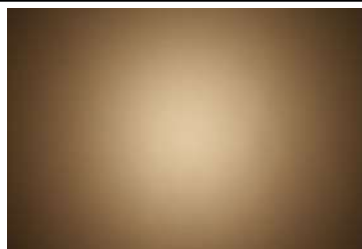
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 20.0°
 Efficiency 80 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 434 Typ L1



CITIZEN

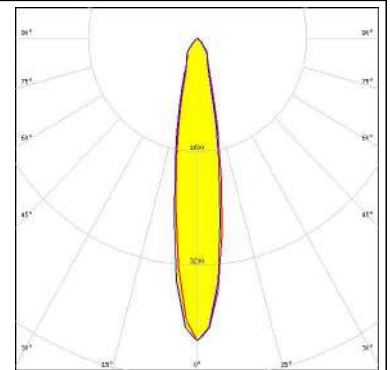
LED CLL02x/CLU02x (LES10)
 FWHM 27.0°
 Efficiency 77 %
 Peak intensity 2.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 19.0°
 Efficiency 87 %
 Peak intensity 4.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



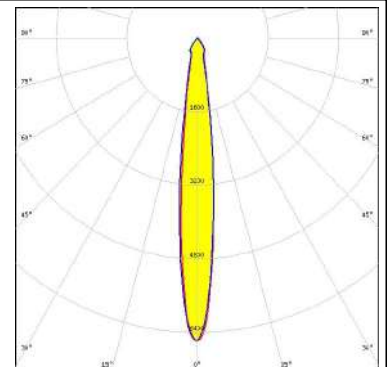
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM 20.0°
 Efficiency 83 %
 Peak intensity 4.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



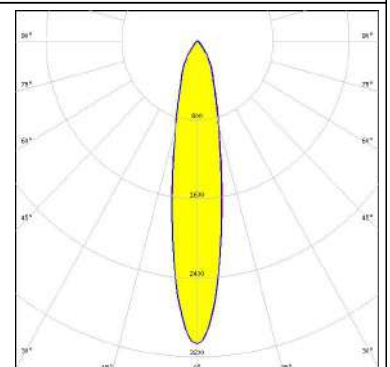
CITIZEN

LED CLU700/701
 FWHM 13.0°
 Efficiency 83 %
 Peak intensity 6.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



CITIZEN

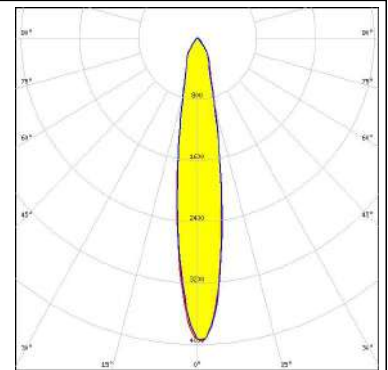
LED CLU700/701
 FWHM 20.0°
 Efficiency 79 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 434 Typ L1



PHOTOMETRIC DATA (MEASURED):

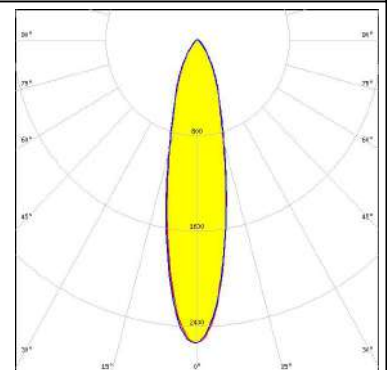
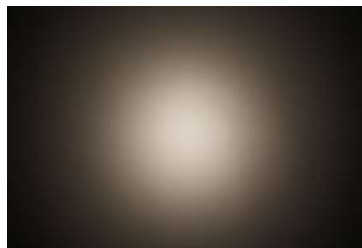
CITIZEN

LED CLU700/701
 FWHM 17.0°
 Efficiency 82 %
 Peak intensity 4.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



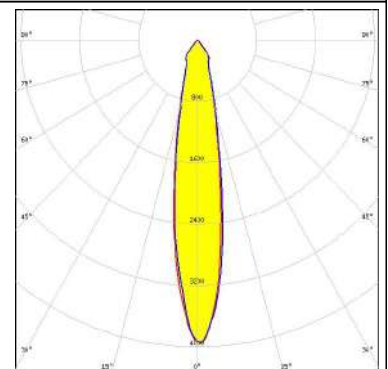
CITIZEN

LED CLU700/701
 FWHM 23.0°
 Efficiency 82 %
 Peak intensity 2.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



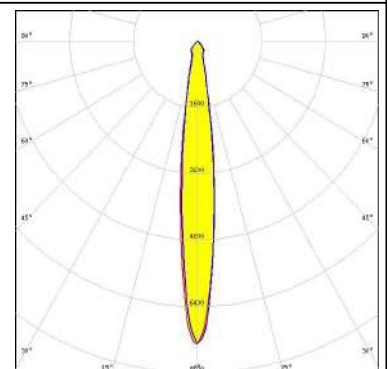
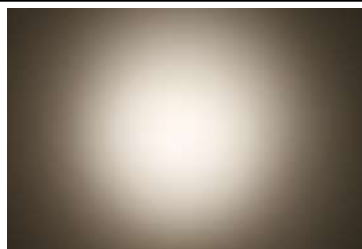
CITIZEN

LED CLU700/701
 FWHM 19.0°
 Efficiency 84 %
 Peak intensity 4.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



CITIZEN

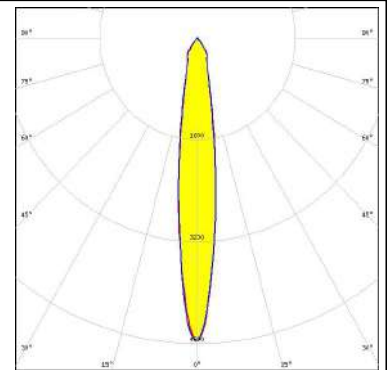
LED CLU700/701
 FWHM 13.0°
 Efficiency 89 %
 Peak intensity 7.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



PHOTOMETRIC DATA (MEASURED):

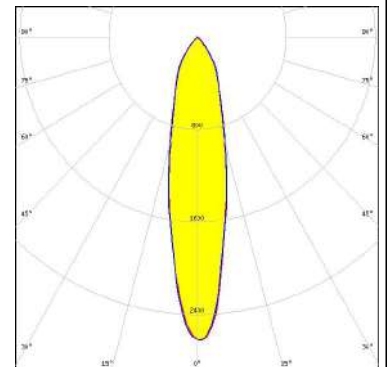
CITIZEN

LED CLU700/701
 FWHM 14.0°
 Efficiency 79 %
 Peak intensity 4.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 434 Typ L1



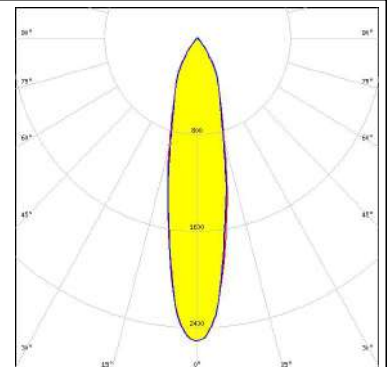
CITIZEN

LED CLU720/721
 FWHM 23.0°
 Efficiency 82 %
 Peak intensity 2.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



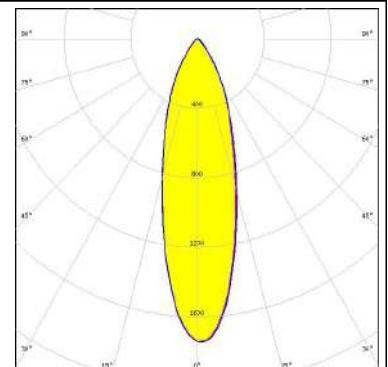
CITIZEN

LED CLU720/721
 FWHM 23.0°
 Efficiency 77 %
 Peak intensity 2.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 433 Typ L1



CITIZEN

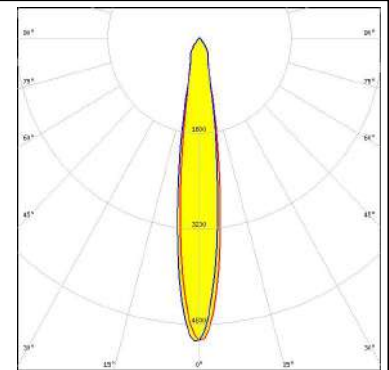
LED CLU720/721
 FWHM 29.0°
 Efficiency 75 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 433 Typ L1



PHOTOMETRIC DATA (MEASURED):



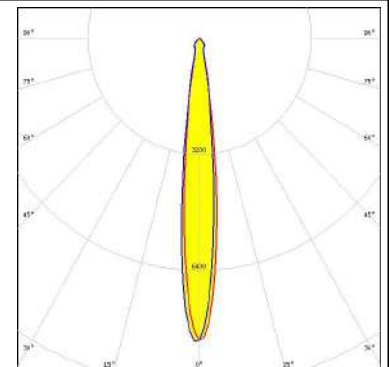
LED CXA/B 13xx
 FWHM 15.0°
 Efficiency 81 %
 Peak intensity 5.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C12479_MIRELLA-DL



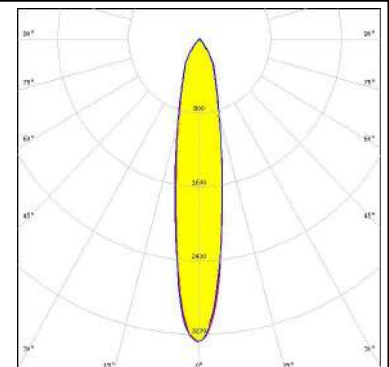
LED CXA/B 13xx
 FWHM 12.0°
 Efficiency 82 %
 Peak intensity 8.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C13333_MIRELLA-CL



LED CXA/B 13xx
 FWHM 12.0°
 Efficiency 87 %
 Peak intensity 9.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



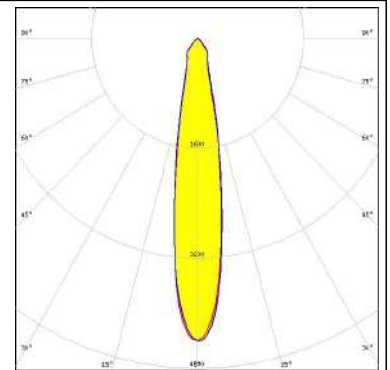
LED CXA/B 15xx
 FWHM 19.0°
 Efficiency 79 %
 Peak intensity 3.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 441 Typ L1



PHOTOMETRIC DATA (MEASURED):

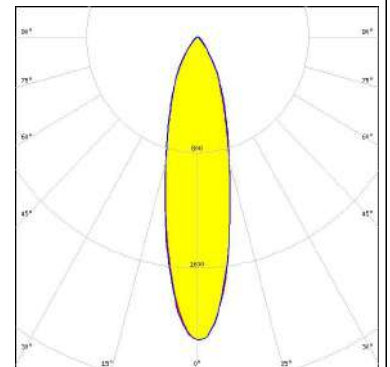
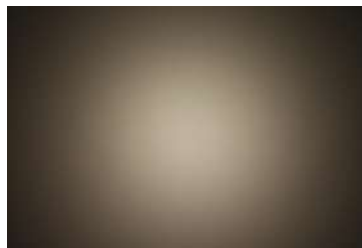
CREE

LED CXA/B 15xx
 FWHM 18.0°
 Efficiency 91 %
 Peak intensity 4.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



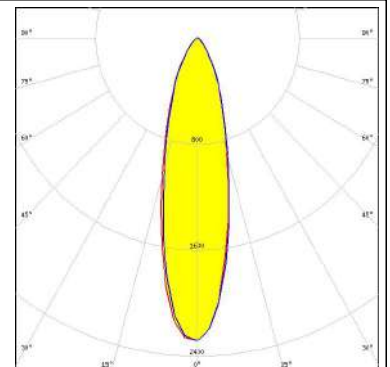
CREE

LED CXA/B 15xx
 FWHM 26.0°
 Efficiency 77 %
 Peak intensity 2.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 441 Typ L1



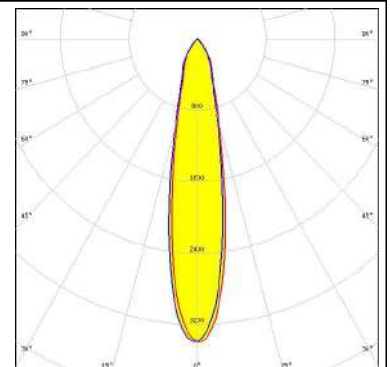
CREE

LED CXA/B 15xx
 FWHM 27.0°
 Efficiency 82 %
 Peak intensity 2.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C13723_MIRELLA-RZL



CREE

LED CXA/B 15xx
 FWHM 21.0°
 Efficiency 87 %
 Peak intensity 3.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

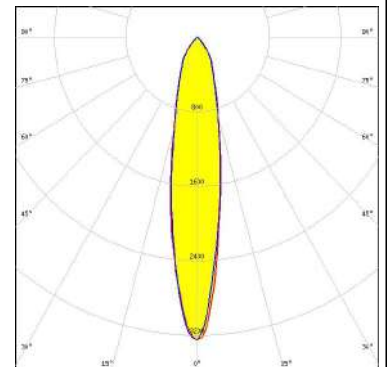
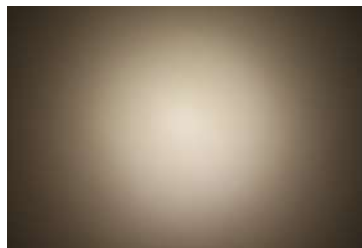
CREE

LED CXA/B 15xx
 FWHM 19.0°
 Efficiency 84 %
 Peak intensity 4.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C13333_MIRELLA-CL



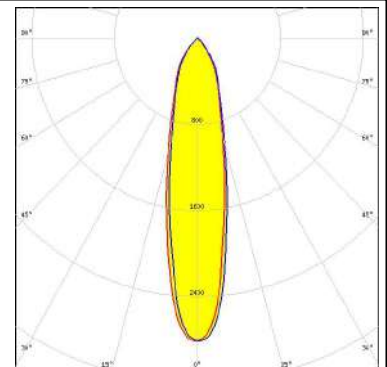
CREE

LED CXA/B 15xx
 FWHM 20.0°
 Efficiency 84 %
 Peak intensity 3.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 441 Typ L1



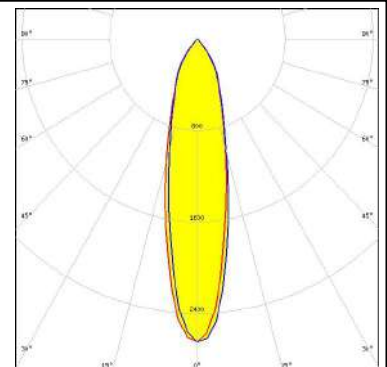
CREE

LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 23.0°
 Efficiency 89 %
 Peak intensity 2.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 IDEAL: 50-2101CR + 50-2100MR



CREE

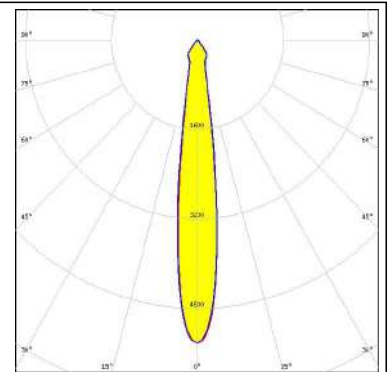
LED CXA/B 1816 & CXA/B 1820 & CXA 1850
 FWHM 25.0°
 Efficiency 85 %
 Peak intensity 2.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14115_PF-SOCKET-CXA15-18



PHOTOMETRIC DATA (MEASURED):

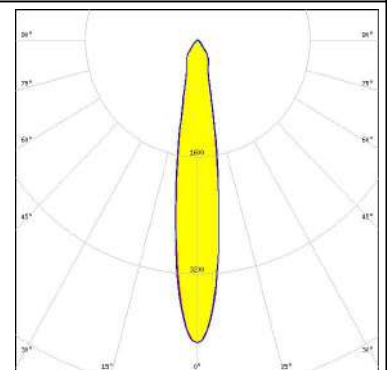
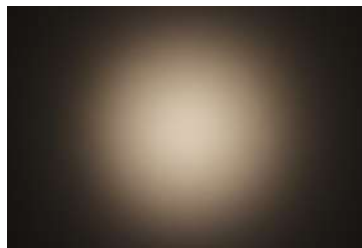
CREE ⇄

LED MHD-E/G
 FWHM 15.0°
 Efficiency 87 %
 Peak intensity 5.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



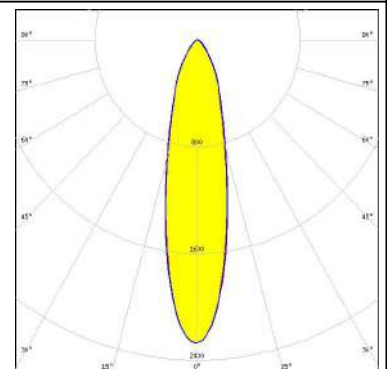
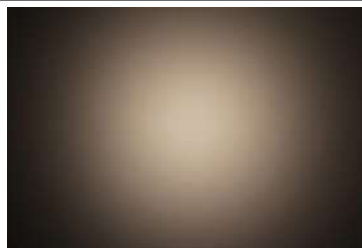
CREE ⇄

LED MHD-E/G
 FWHM 17.0°
 Efficiency 87 %
 Peak intensity 4.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



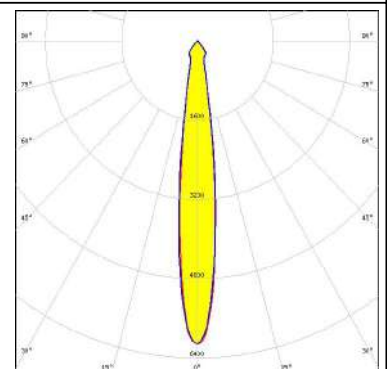
CREE ⇄

LED MHD-E/G
 FWHM 24.0°
 Efficiency 84 %
 Peak intensity 2.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



CREE ⇄

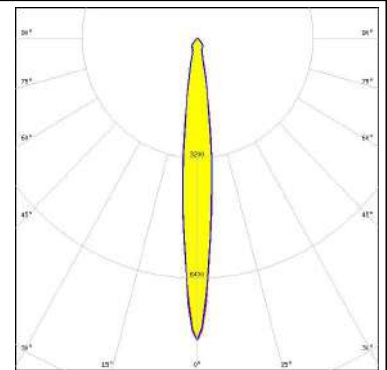
LED MHD-E/G
 FWHM 14.0°
 Efficiency 93 %
 Peak intensity 6.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



PHOTOMETRIC DATA (MEASURED):

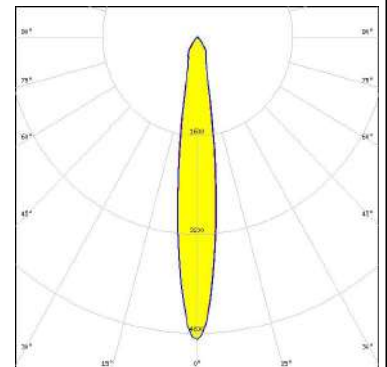
CREE

LED MK-R
 FWHM 12.0°
 Efficiency 87 %
 Peak intensity 8.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



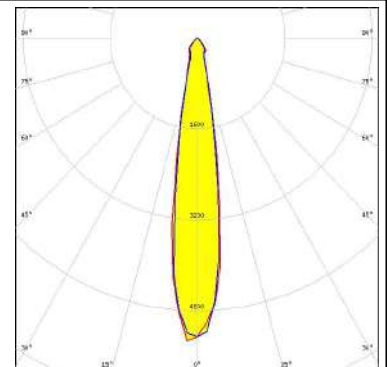
CREE

LED MK-R
 FWHM 15.0°
 Efficiency 82 %
 Peak intensity 4.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



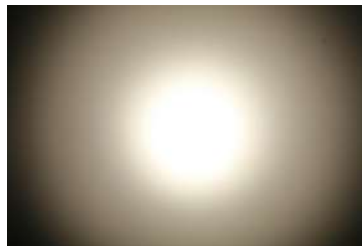
CREE

LED MT-G
 FWHM 17.0°
 Efficiency 90 %
 Peak intensity 5.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



CREE

LED MT-G
 FWHM 19.0°
 Efficiency 85 %
 Peak intensity 4.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):

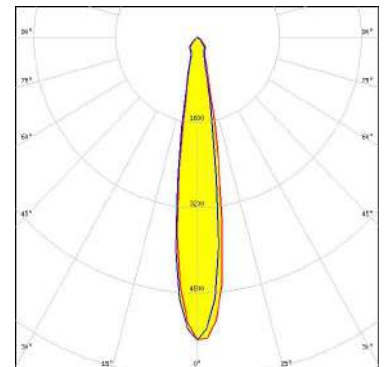
CREE ⇄

LED MT-G
FWHM 18.0°
Efficiency 86 %
Peak intensity 5.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL



CREE ⇄

LED MT-G2
FWHM 18.0°
Efficiency 88 %
Peak intensity 4.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET



CREE ⇄

LED MT-G2
FWHM 18.0°
Efficiency 85 %
Peak intensity 4.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL



CREE ⇄

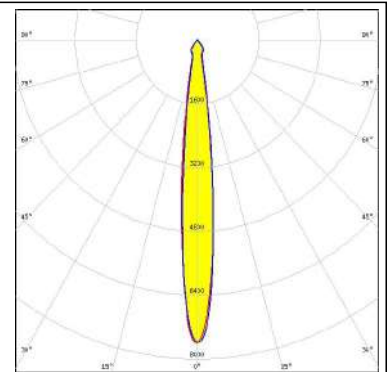
LED MT-G2
FWHM 16.0°
Efficiency 84 %
Peak intensity 5.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL



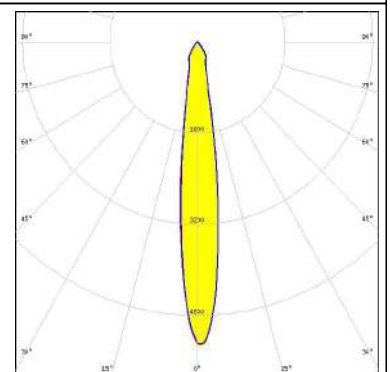
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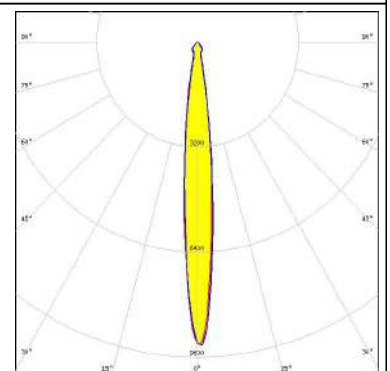
LED XHP50
 FWHM 12.0°
 Efficiency 84 %
 Peak intensity 7.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



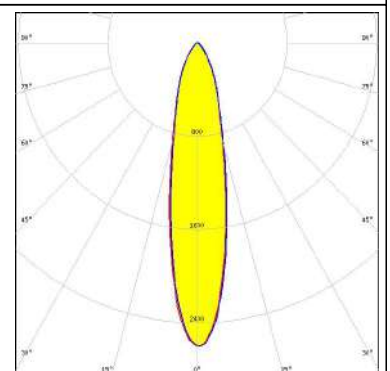
LED XHP50
 FWHM 15.0°
 Efficiency 85 %
 Peak intensity 5.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



LED XHP50
 FWHM 11.0°
 Efficiency 89 %
 Peak intensity 9.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



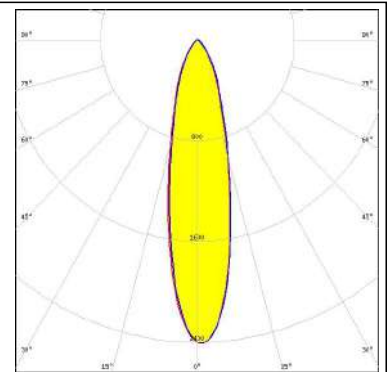
LED XHP50
 FWHM 22.0°
 Efficiency 81 %
 Peak intensity 2.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



PHOTOMETRIC DATA (MEASURED):

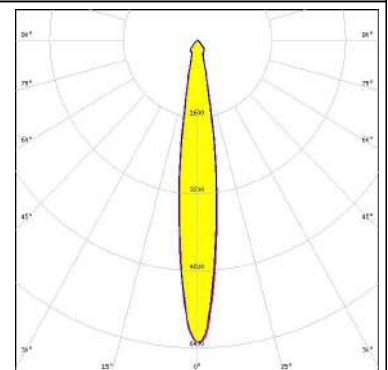
CREE ⇄

LED XHP70
 FWHM 24.0°
 Efficiency 81 %
 Peak intensity 2.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



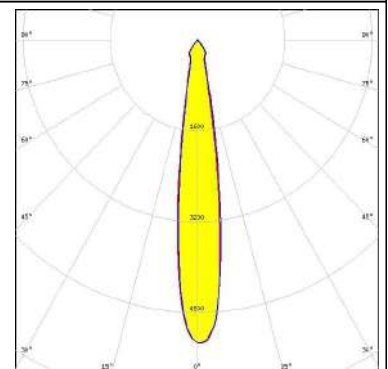
CREE ⇄

LED XHP70
 FWHM 15.0°
 Efficiency 89 %
 Peak intensity 0.630 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



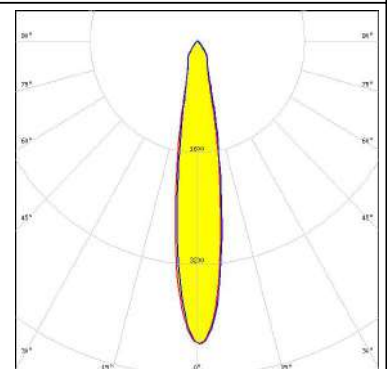
CREE ⇄

LED XHP70
 FWHM 16.0°
 Efficiency 83 %
 Peak intensity 5.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



CREE ⇄

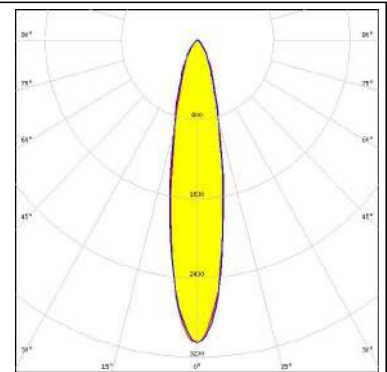
LED XHP70
 FWHM 17.0°
 Efficiency 84 %
 Peak intensity 4.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



PHOTOMETRIC DATA (MEASURED):



LED XM-L RGB
FWHM 22.0°
Efficiency 80 %
Peak intensity 3.060 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL



LED XQ-E HI
FWHM 21.0°
Efficiency 86 %
Peak intensity 3.140 cd/lm
LEDs/each optic 4
Light colour RGBW
Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL



LED COB 4W
FWHM 13.0°
Efficiency 84 %
Peak intensity 7.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL



LED COB 4W
FWHM 14.0°
Efficiency 91 %
Peak intensity 6.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET



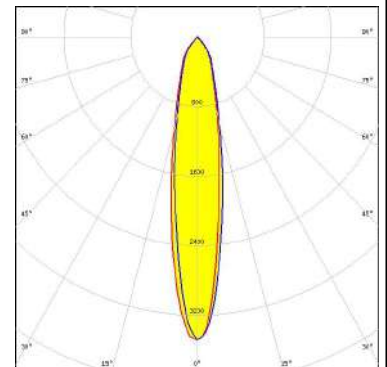
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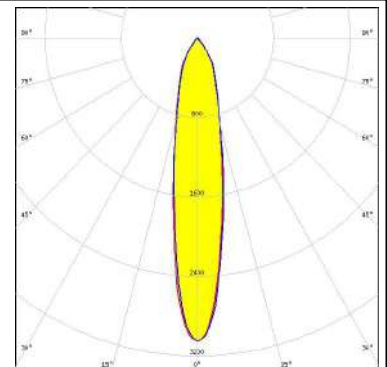
LED COB 4W
FWHM 14.0°
Efficiency 86 %
Peak intensity 4.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



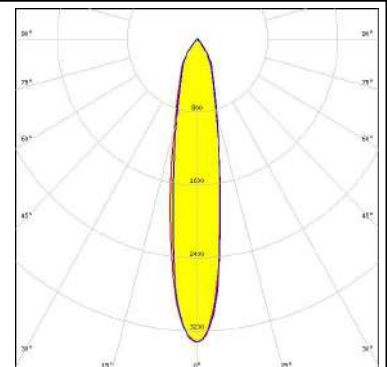
LED LUXEON CoB 1202/1203
FWHM 19.0°
Efficiency 88 %
Peak intensity 3.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 IDEAL: 50-2100NC +50-2100MR



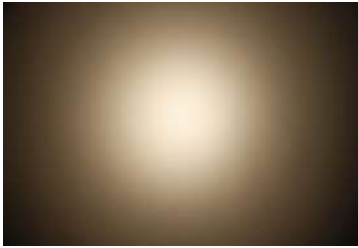
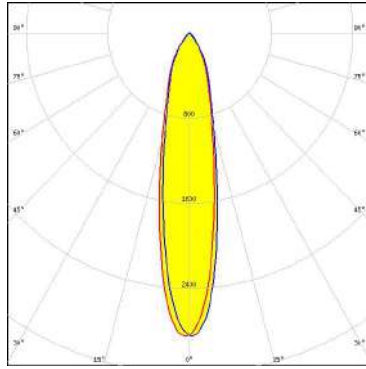

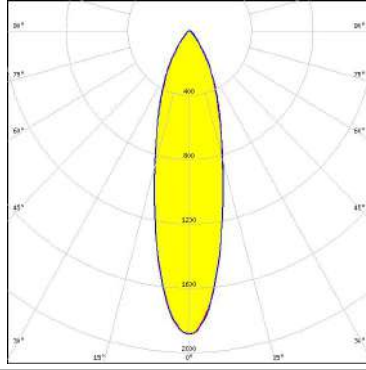

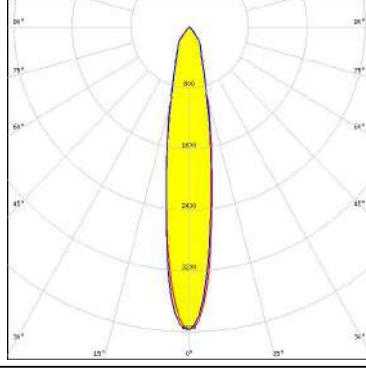

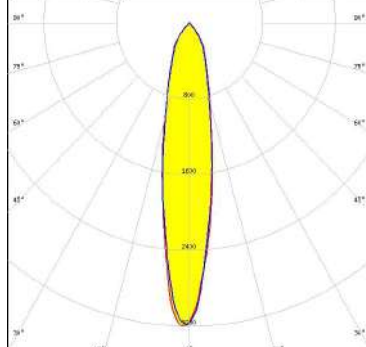
LED LUXEON CoB 1202/1203
FWHM 20.0°
Efficiency 78 %
Peak intensity 3.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 438 Typ L1



LED LUXEON CoB 1202/1203
FWHM 19.0°
Efficiency 82 %
Peak intensity 3.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13333_MIRELLA-CL
 IDEAL: 50-2100NC +50-2100MR



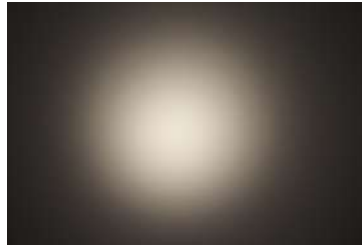
PHOTOMETRIC DATA (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM 22.0° Efficiency 83 % Peak intensity 2.900 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL IDEAL: 50-2100NC +50-2100MR</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM 27.0° Efficiency 76 % Peak intensity 1.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM 19.0° Efficiency 87 % Peak intensity 4.000 cd/lm LEDs/each optic 1 Light colour White Required components: C14037_PF-NSX-SOCKET</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203 FWHM 20.0° Efficiency 84 % Peak intensity 3.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1</p>		

PHOTOMETRIC DATA (MEASURED):

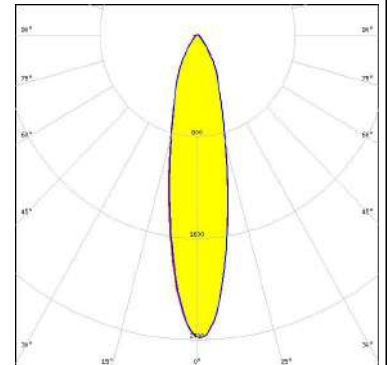
LUMILEDS

LED LUXEON CoB 1202s
FWHM 15.0°
Efficiency 84 %
Peak intensity 5.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13761_PF-SOCKET-CXA15
C12479_MIRELLA-DL



LUMILEDS

LED LUXEON CoB 1202s
FWHM 23.0°
Efficiency 79 %
Peak intensity 2.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 452 Typ L1



LUMILEDS

LED LUXEON CoB 1202s
FWHM 13.0°
Efficiency 84 %
Peak intensity 7.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13761_PF-SOCKET-CXA15
C13333_MIRELLA-CL



LUMILEDS

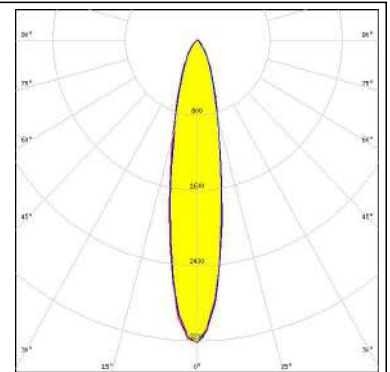
LED LUXEON CoB 1202s
FWHM 13.0°
Efficiency 89 %
Peak intensity 7.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13761_PF-SOCKET-CXA15



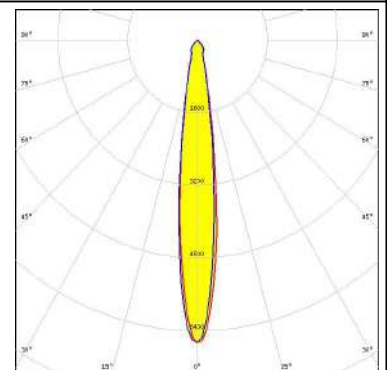
PHOTOMETRIC DATA (MEASURED):



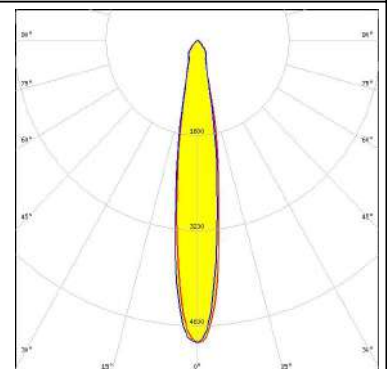
LED LUXEON Z
FWHM 21.0°
Efficiency 78 %
Peak intensity 3.200 cd/lm
LEDs/each optic 4
Light colour RGBW
Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



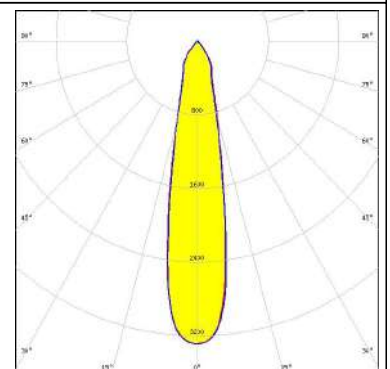
LED CXM-6
FWHM 14.0°
Efficiency 86 %
Peak intensity 6.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13083_PF-SOCKET



LED CXM-7
FWHM 17.0°
Efficiency 87 %
Peak intensity 5.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13083_PF-SOCKET



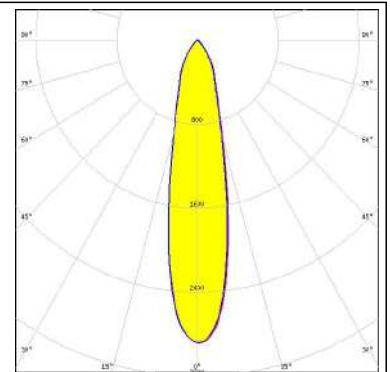
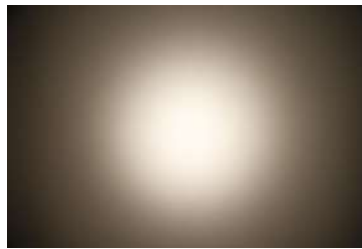
LED CXM-9
FWHM 21.0°
Efficiency 85 %
Peak intensity 3.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



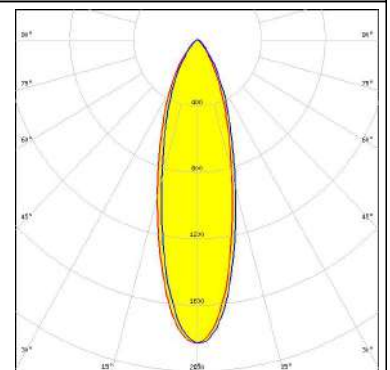
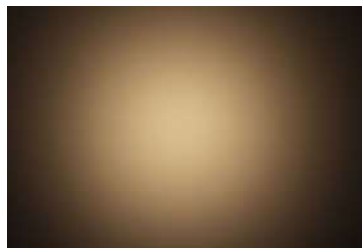
PHOTOMETRIC DATA (MEASURED):



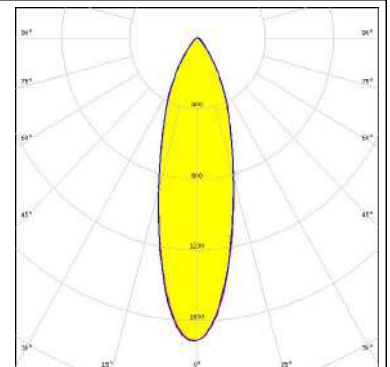
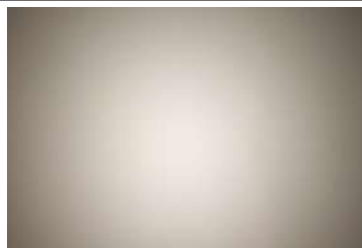
LED CXM-9
 FWHM 23.0°
 Efficiency 86 %
 Peak intensity 2.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



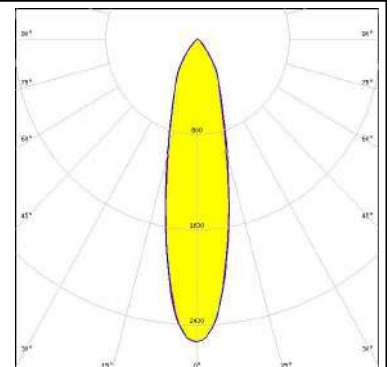
LED CXM-9
 FWHM 30.0°
 Efficiency 81 %
 Peak intensity 1.800 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL




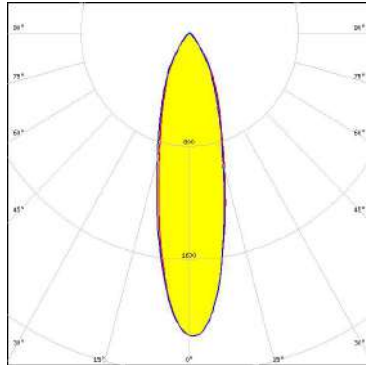

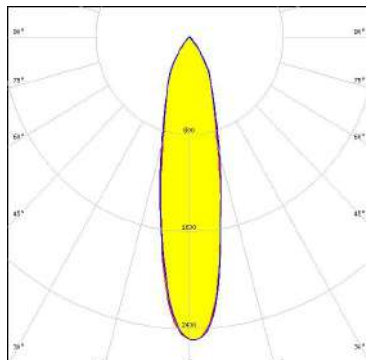
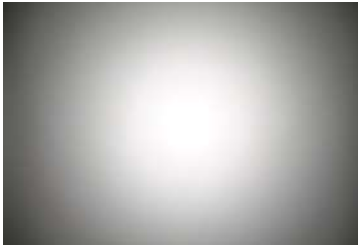
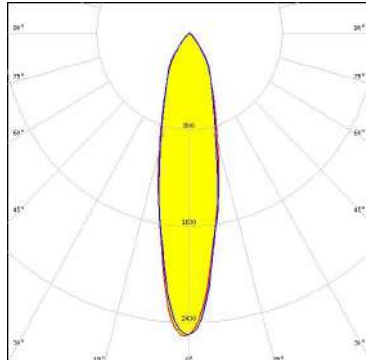

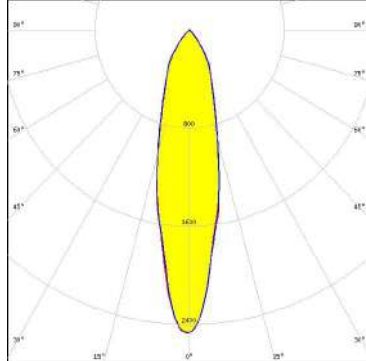
LED COB L-Type (LES 11)
 FWHM 30.0°
 Efficiency 76 %
 Peak intensity 1.700 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 438 Typ L1




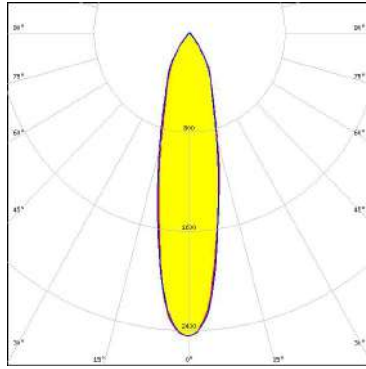
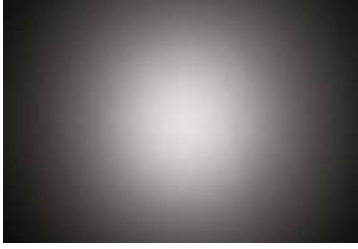
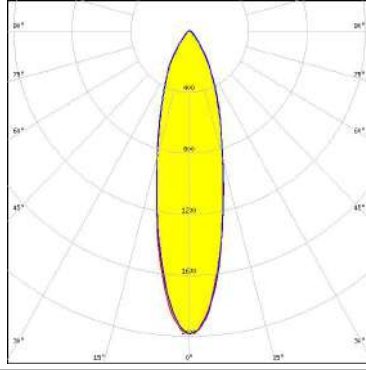
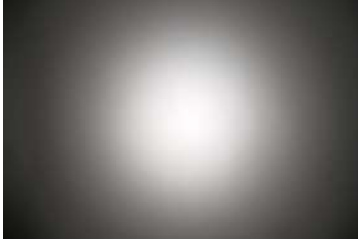
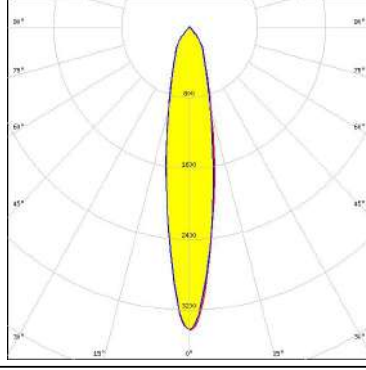

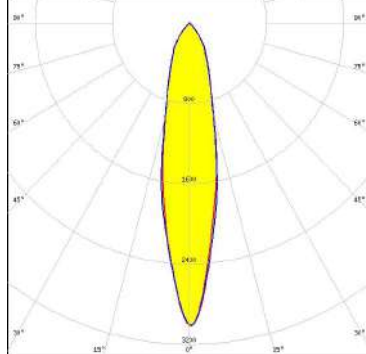
LED COB L-Type (LES 11)
 FWHM 25.0°
 Efficiency 86 %
 Peak intensity 2.540 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 26.0° Efficiency 80 % Peak intensity 2.100 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 24.0° Efficiency 81 % Peak intensity 2.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 24.0° Efficiency 81 % Peak intensity 2.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 25.0° Efficiency 83 % Peak intensity 2.500 cd/lm LEDs/each optic 1 Light colour White Required components: IDEAL: 50-2100NC +50-2100MR</p>		

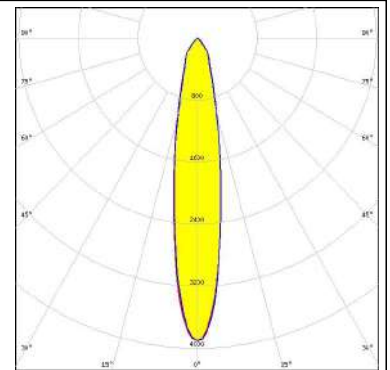
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM 24.0° Efficiency 78 % Peak intensity 2.400 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM 27.0° Efficiency 77 % Peak intensity 2.000 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM 19.0° Efficiency 85 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9) FWHM 22.0° Efficiency 84 % Peak intensity 3.000 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: IDEAL: 50-2100NC +50-2100MR</p>		

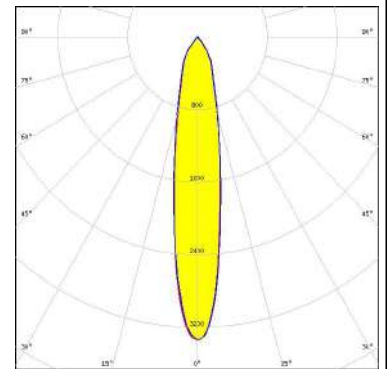
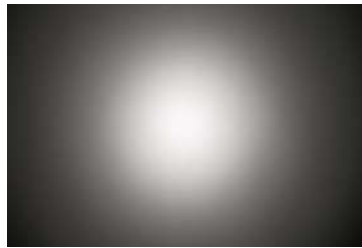
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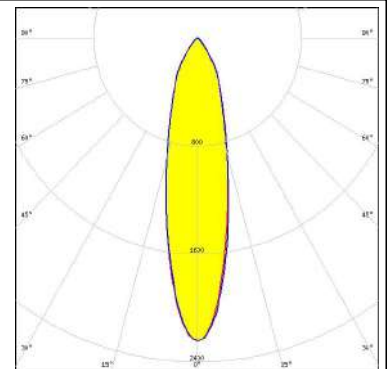
LED COB L-Type (LES 9)
 FWHM 19.0°
 Efficiency 88 %
 Peak intensity 3.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C14037_PF-NSX-SOCKET



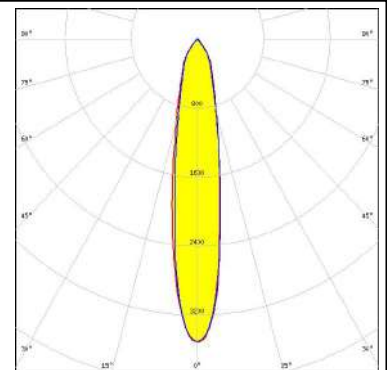
LED COB L-Type (LES 9)
 FWHM 18.0°
 Efficiency 80 %
 Peak intensity 3.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 438 Typ L1





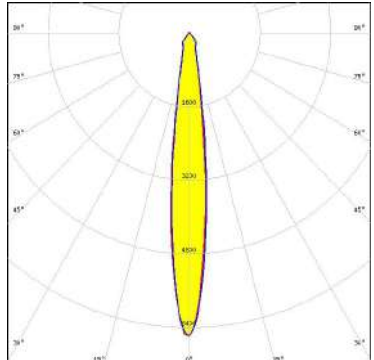

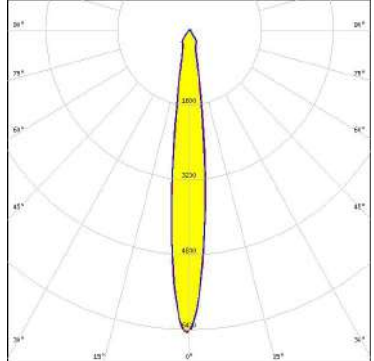
LED COB L-Type (LES 9)
 FWHM 24.0°
 Efficiency 78 %
 Peak intensity 2.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C12479_MIRELLA-DL
 IDEAL: 50-2100NC +50-2100MR



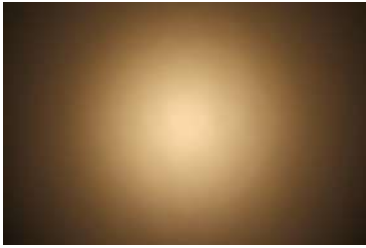
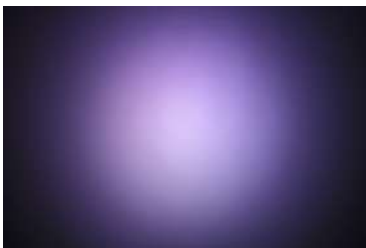

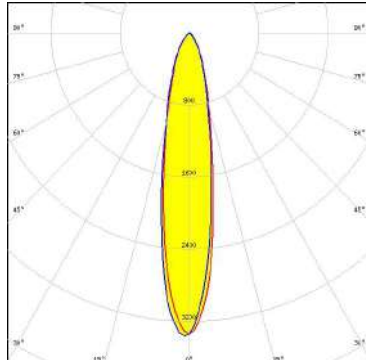

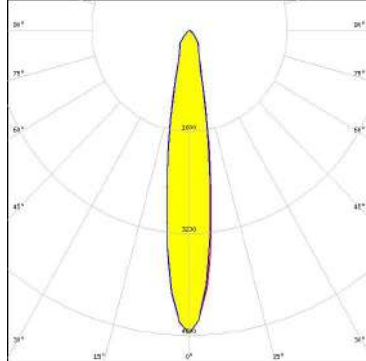
LED COB L-Type (LES 9)
 FWHM 18.0°
 Efficiency 83 %
 Peak intensity 3.500 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13333_MIRELLA-CL
 IDEAL: 50-2100NC +50-2100MR





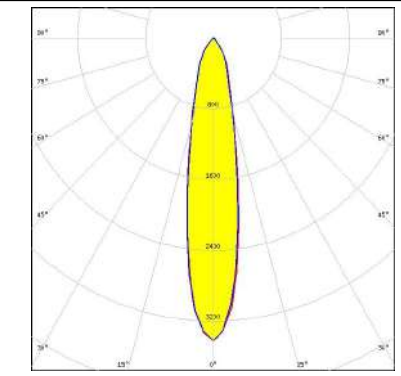

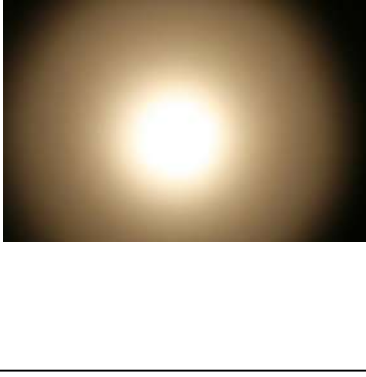
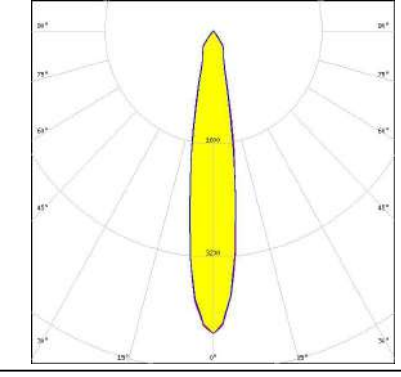
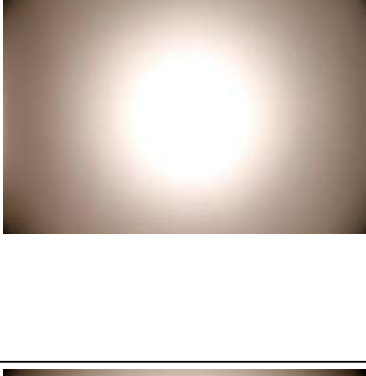
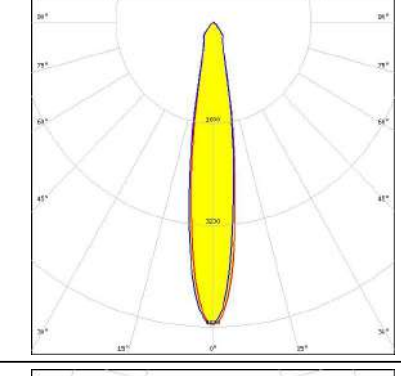
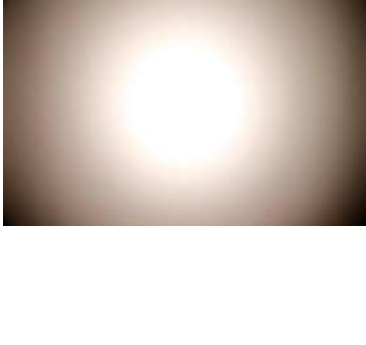
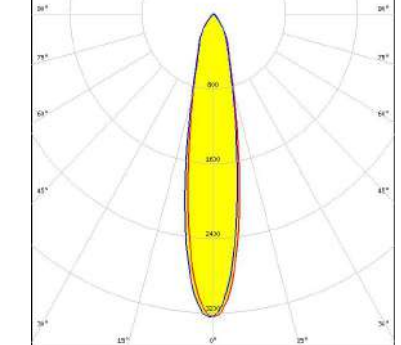
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED NSCxL036A FWHM 16.0° Efficiency 86 % Peak intensity 5.060 cd/lm LEDs/each optic 1 Light colour White Required components: C14037_PF-NSX-SOCKET</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris S10 FWHM 22.0° Efficiency 82 % Peak intensity 3.000 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris S10 FWHM 13.0° Efficiency 87 % Peak intensity 6.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET</p>	 
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED Duris S10 FWHM 13.0° Efficiency 81 % Peak intensity 6.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>	 

PHOTOMETRIC DATA (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10 FWHM 18.0° Efficiency 80 % Peak intensity 3.600 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSTAR Stage (S2WP) FWHM 21.0° Efficiency 83 % Peak intensity 3.340 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Ostar-SMT RGB FWHM 20.0° Efficiency 82 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 18.0° Efficiency 88 % Peak intensity 4.800 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET</p>		

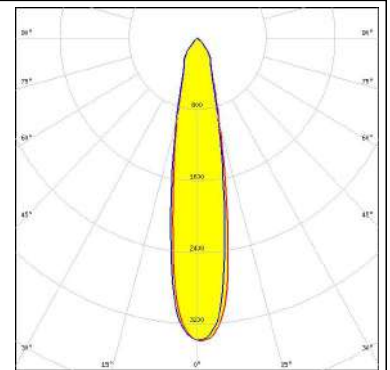
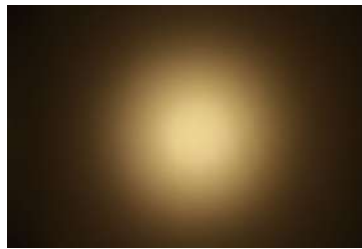
PHOTOMETRIC DATA (MEASURED):

<p> SEUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 21.0° Efficiency 83 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p> SEUL SEMICONDUCTOR</p> <p>LED ZC4/6 FWHM 19.0° Efficiency 83 % Peak intensity 4.300 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW6BM) FWHM 17.0° Efficiency 91 % Peak intensity 4.800 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW6BM) FWHM 20.0° Efficiency 84 % Peak intensity 3.200 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		

PHOTOMETRIC DATA (MEASURED):

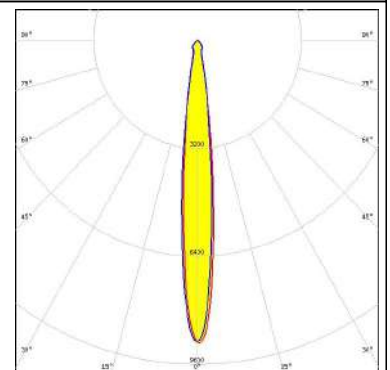
TRIDONIC

LED SLE G5 LES11
FWHM 21.0°
Efficiency 88 %
Peak intensity 3.390 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET



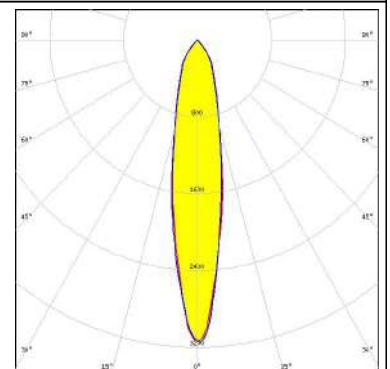
TRIDONIC

LED SLE G5 LES6
FWHM 12.0°
Efficiency 89 %
Peak intensity 8.980 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET



XICATO

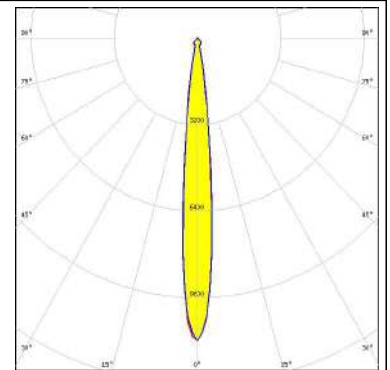
LED XTM - 9mm LES
FWHM 20.0°
Efficiency 82 %
Peak intensity 3.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER



PHOTOMETRIC DATA (SIMULATED):



LED XHP50.2
FWHM 11.0°
Efficiency 90 %
Peak intensity 11.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON CoB Compact
FWHM 13.0°
Efficiency 84 %
Peak intensity 7.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13761_PF-SOCKET-CXA15
C13333_MIRELLA-CL

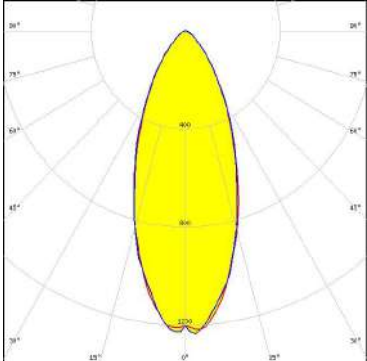
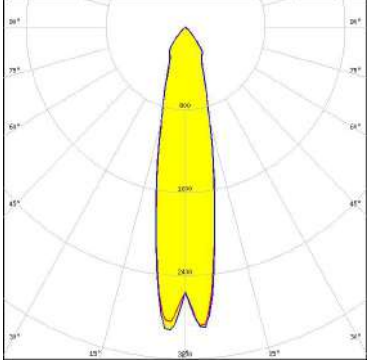


LED LUXEON CoB Compact
FWHM 13.0°
Efficiency 89 %
Peak intensity 7.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13761_PF-SOCKET-CXA15




LED LUXEON CoB Compact
FWHM 23.0°
Efficiency 79 %
Peak intensity 2.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 452 Typ L1


PHOTOMETRIC DATA (SIMULATED):


<p>LUMILEDS</p> <p>LED LUXEON CoB Compact</p> <p>FWHM 15.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 4.800 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C12479_MIRELLA-DL</p>	
<p>LUMILEDS</p> <p>LED LUXEON K4</p> <p>FWHM 42.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.210 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C12479_MIRELLA-DL</p>	
<p>LUMILEDS</p> <p>LED LUXEON K4</p> <p>FWHM 24.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.880 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15</p>	
<p>LUMINUS</p> <p>LED CXM-14</p> <p>FWHM 33.0°</p> <p>Efficiency 69 %</p> <p>Peak intensity 1.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 433 Typ L1</p>	

PHOTOMETRIC DATA (SIMULATED):


LED CXM-14
FWHM 29.0°
Efficiency 76 %
Peak intensity 1.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18


LED CXM-14
FWHM 31.0°
Efficiency 72 %
Peak intensity 1.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 433 Typ L1


LED CXM-9
FWHM 21.0°
Efficiency 84 %
Peak intensity 3.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1


LED CXM-9
FWHM 20.0°
Efficiency 80 %
Peak intensity 3.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):



LED CXM-9
FWHM 27.0°
Efficiency 77 %
Peak intensity 2.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 434 Typ L1



LED COB S-Type (LES 7)
FWHM 19.0°
Efficiency 87 %
Peak intensity 3.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 452 Typ L1


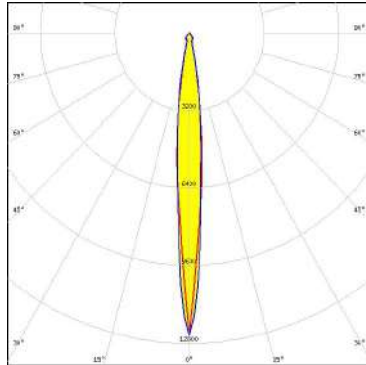
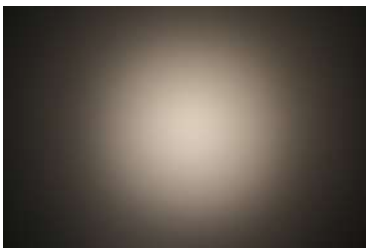
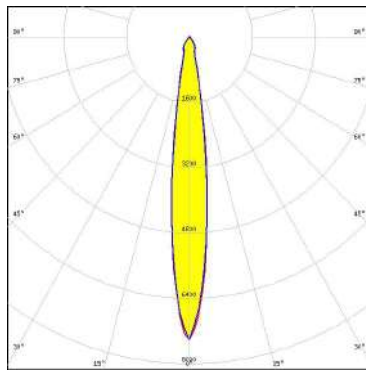

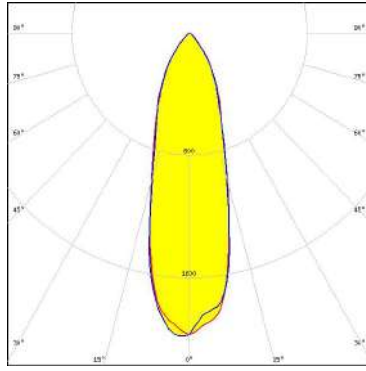

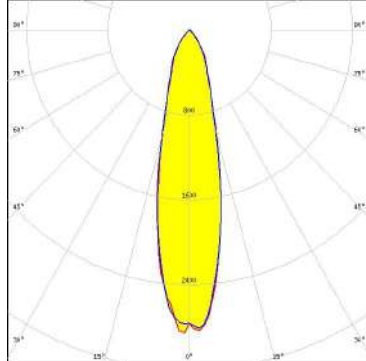


LED COB S-Type (LES 7)
FWHM 15.0°
Efficiency 83 %
Peak intensity 4.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 452 Typ L1

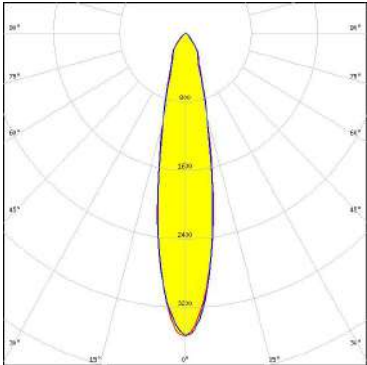
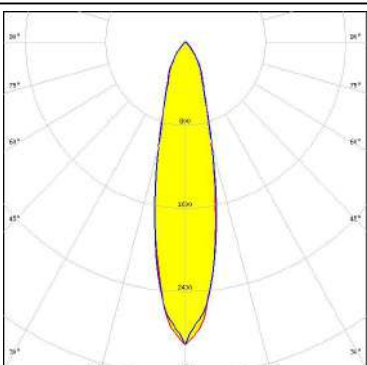
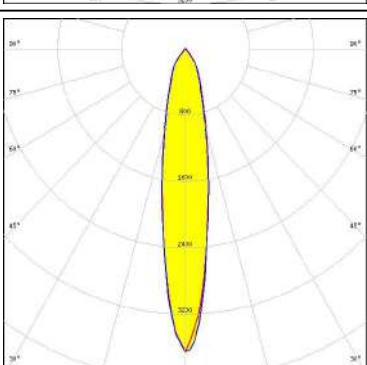
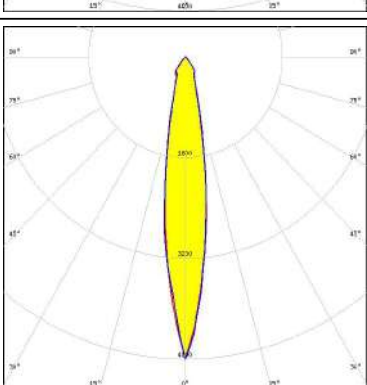


LED COB S-Type (LES 7)
FWHM 23.0°
Efficiency 79 %
Peak intensity 2.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 452 Typ L1

PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8 FWHM 9.5° Efficiency 94 % Peak intensity 12.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S8 FWHM 14.0° Efficiency 90 % Peak intensity 7.400 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S15 FWHM 28.0° Efficiency 85 % Peak intensity 1.990 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 433 Typ L1</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S9 FWHM 24.0° Efficiency 87 % Peak intensity 2.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		

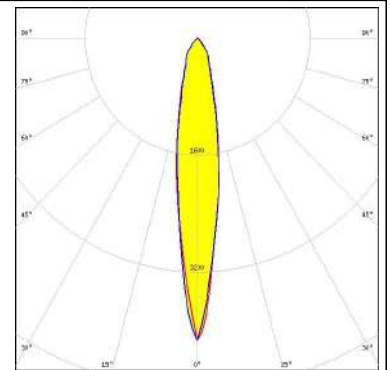
PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Osram Semiconductors</p> <p>LED Soleriq S9 FWHM 21.0° Efficiency 91 % Peak intensity 3.500 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET</p>	
<p>OSRAM Osram Semiconductors</p> <p>LED Soleriq S9 FWHM 24.0° Efficiency 86 % Peak intensity 2.900 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>	
<p>OSRAM Osram Semiconductors</p> <p>LED Soleriq S9 FWHM 19.0° Efficiency 87 % Peak intensity 3.700 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 434 Typ L1</p>	
<p>SAMSUNG</p> <p>LED LC010C FWHM 16.0° Efficiency 87 % Peak intensity 4.800 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 479 Typ L1</p>	

PHOTOMETRIC DATA (SIMULATED):

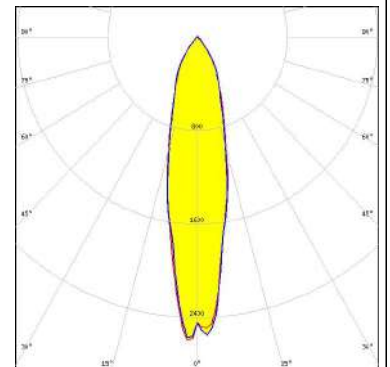
SAMSUNG

LED LC020C
 FWHM 16.0°
 Efficiency 86 %
 Peak intensity 4.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 479 Typ L1



SAMSUNG

LED LC040C
 FWHM 23.0°
 Efficiency 84 %
 Peak intensity 2.600 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 480 Typ L1




SEOL SEMICONDUCTOR
 LED ZC4/6
 FWHM 21.0°
 Efficiency 84 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



SEOL SEMICONDUCTOR
 LED ZC4/6
 FWHM 20.0°
 Efficiency 80 %
 Peak intensity 3.100 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):

	
SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM	27.0°
Efficiency	77 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	
Bender Wirth: 434 Typ L1	

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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