

MIRELLA-50-S-PF

~15° spot beam

SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	24 mm
Fastening	socket
ROHS compliant	yes ⓘ

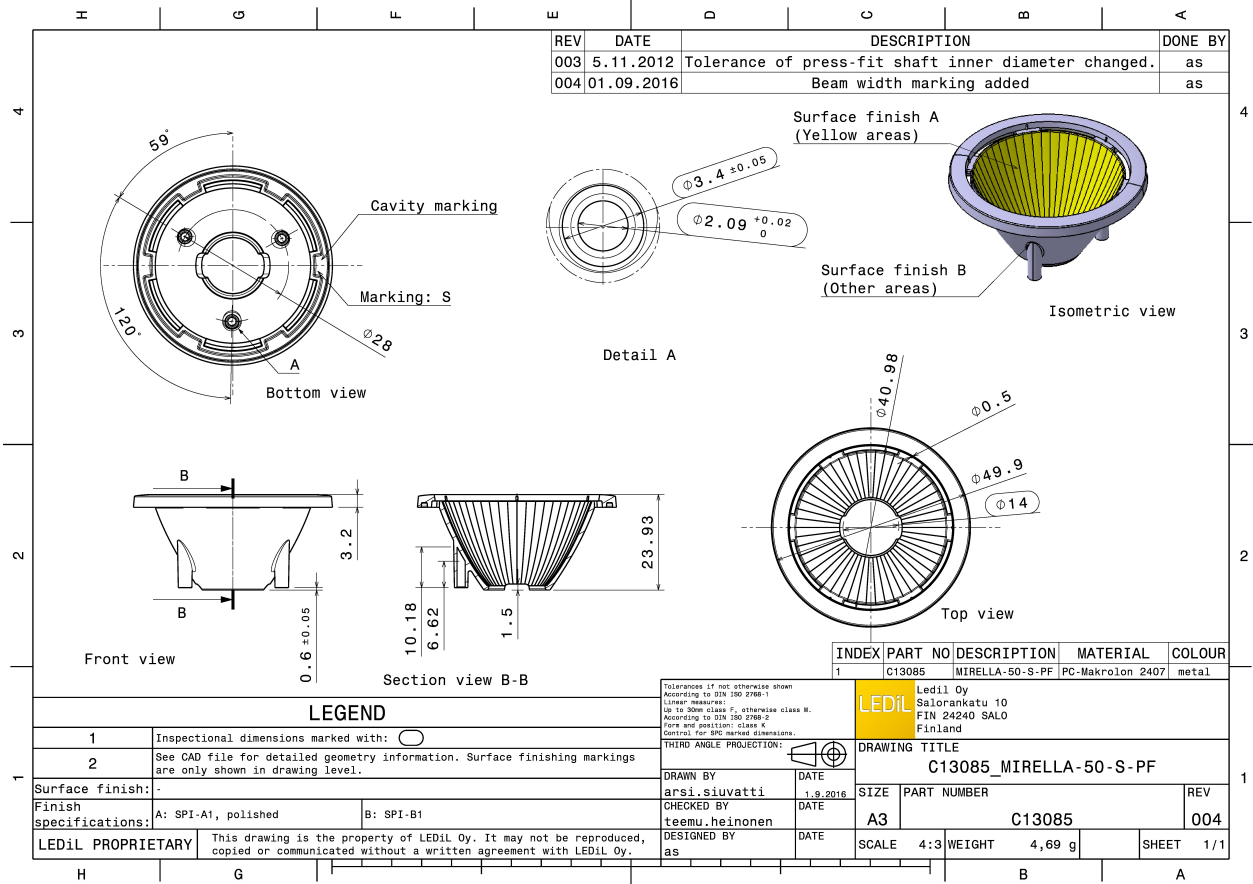
MATERIALS:

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





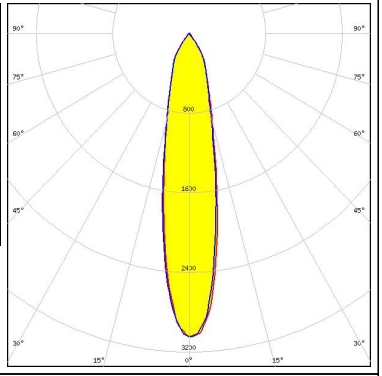


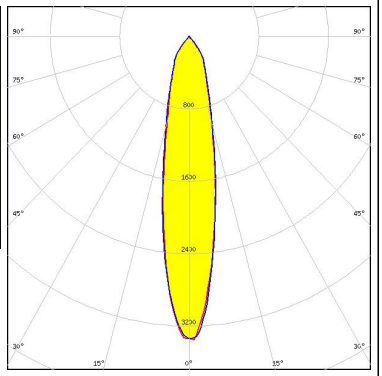


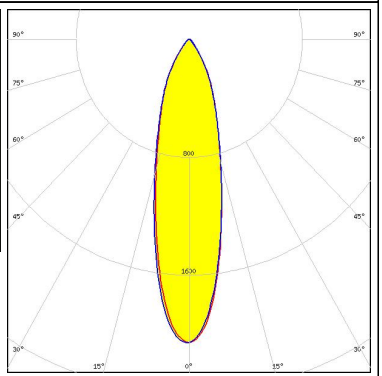

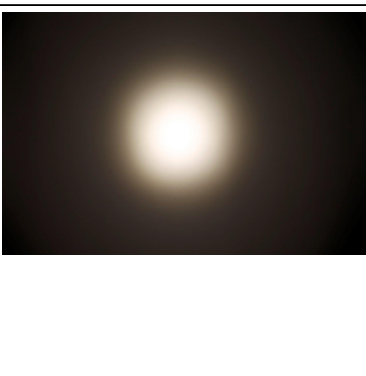
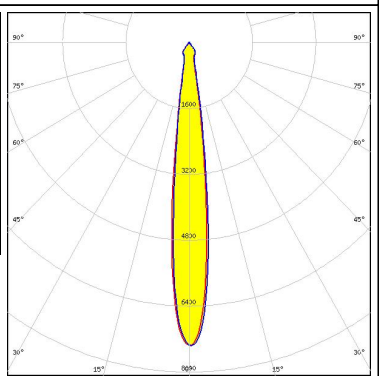
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13085_MIRELLA-50-S-PF » Box size: 480 x 280 x 300 mm	336	112	28	3.0

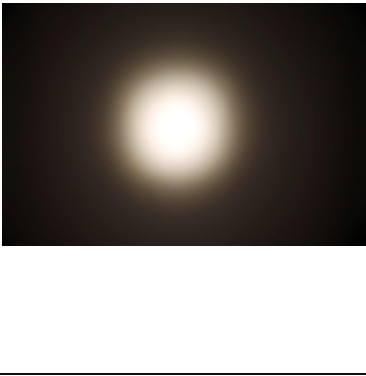
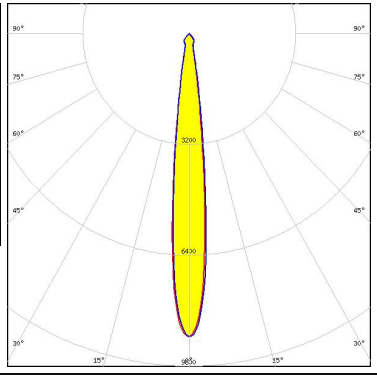



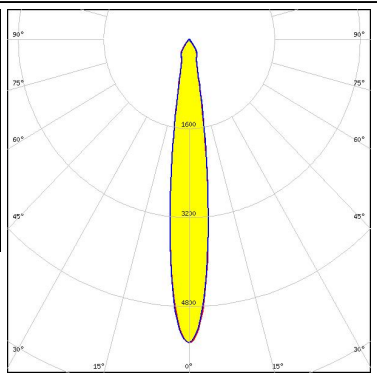
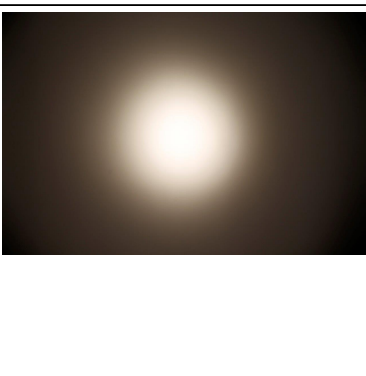
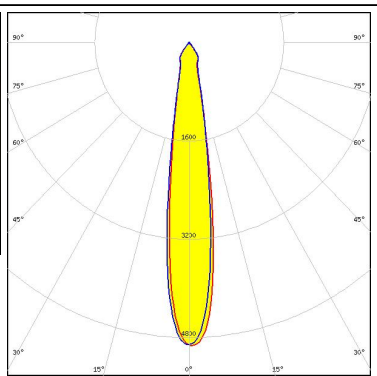


See also our general installation guide: www.ledil.com/installation_guide



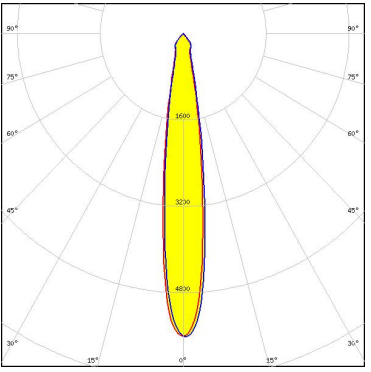

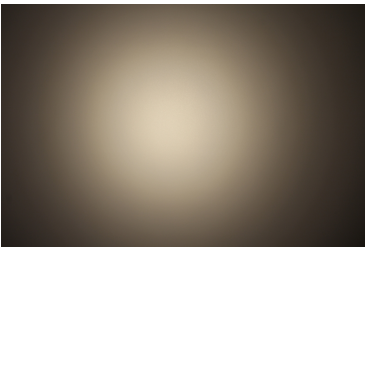



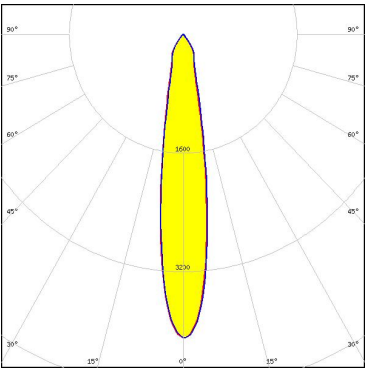



OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V10 Gen7 FWHM / FWTM 21.0° / 61.0° Efficiency 81 % Peak intensity 3.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL</p>		
<p></p> <p>LED V10 Gen7 FWHM / FWTM 21.0° / 61.0° Efficiency 91 % Peak intensity 3.4 cd/m 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 / FWTM 26.0° / 66.0° Efficiency 79 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		
<p></p> <p>LED V6 Gen6 FWHM / FWTM 13.0° / 26.0° Efficiency 84 % Peak intensity 7.4 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL</p>		



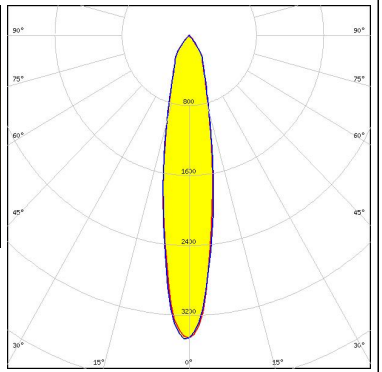


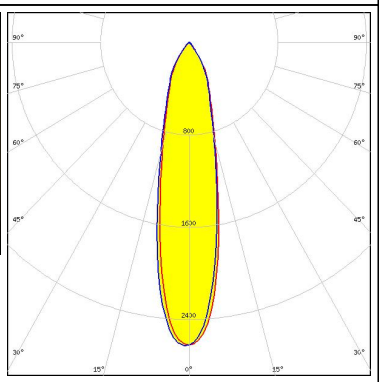


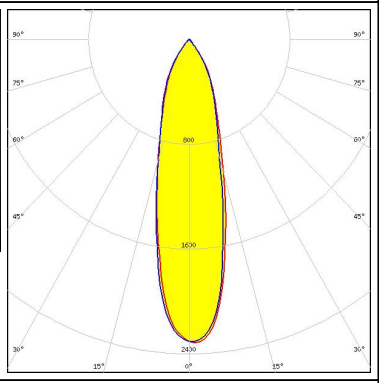


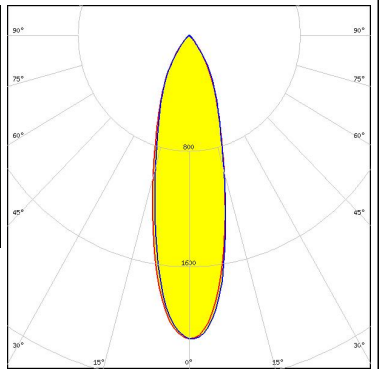
OPTICAL RESULTS (MEASURED):

<p>bridgelux.</p> <p>LED V6 Gen6 FWHM / FWTM 12.0° / 25.0° Efficiency 90 % Peak intensity 8.8 cd/m LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15</p>		
<p>bridgelux.</p> <p>LED V6 Gen6 FWHM / FWTM 18.0° / 52.0° Efficiency 73 % Peak intensity 4.3 cd/m 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 / FWTM 15.0° / 33.0° Efficiency 84 % Peak intensity 5.5 cd/m 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 / FWTM 16.0° / 36.0° Efficiency 84 % Peak intensity 4.9 cd/m LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL</p>		


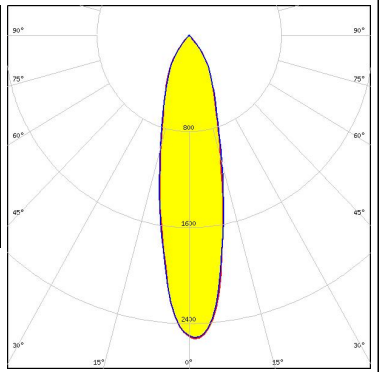

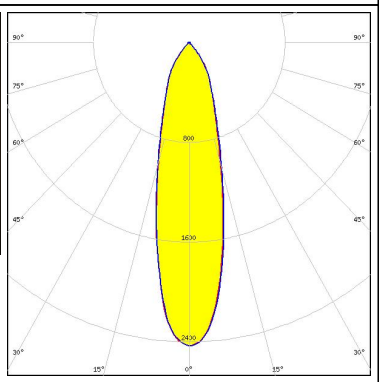

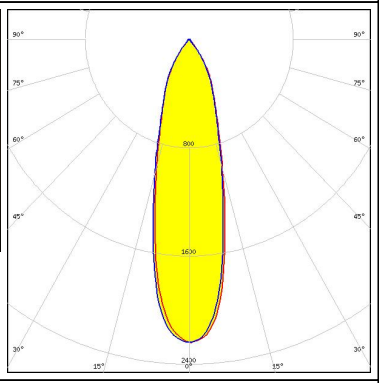

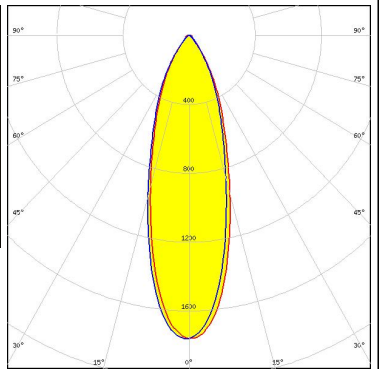
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V8 Gen6 FWHM / FWTM 15.0° / 34.0° Efficiency 90 % Peak intensity 5.6 cd/m LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15</p>		
<p></p> <p>LED V8 Gen6 FWHM / FWTM 20.0° / 62.0° Efficiency 71 % Peak intensity 3.4 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 460 Typ L1</p>		
<p></p> <p>LED V8 Gen6 FWHM / FWTM 18.0° / 44.0° Efficiency 85 % Peak intensity 4.1 cd/m LEDs/each optic 1 Light colour White Required components: C13761_PF-SOCKET-CXA15 C12479_MIRELLA-DL</p>		
<p></p> <p>LED VERO10 FWHM / FWTM 23.0° / 63.0° Efficiency 83 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10 C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

<p></p> <p>LED VERO10 FWHM / FWTM 20.0° / 57.0° Efficiency 88 % Peak intensity 3.5 cd/m LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10</p>		
<p></p> <p>LED VERO10 FWHM / FWTM 23.0° / 63.0° Efficiency 83 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White Required components: C13708_PF-SOCKET-VERO10 C12479_MIRELLA-DL</p>		
<p></p> <p>LED VERO13 FWHM / FWTM 26.0° / 67.0° Efficiency 83 % Peak intensity 2.3 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C13333_MIRELLA-CL</p>		
<p></p> <p>LED VERO13 FWHM / FWTM 28.0° / 68.0° Efficiency 84 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		

OPTICAL RESULTS (MEASURED):

<p>bridgelux.</p> <p>LED VERO13 FWHM / FWTM 25.0° / 69.0° Efficiency 89 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18</p>		
<p>bridgelux.</p> <p>LED Xenio Point 13mm FWHM / FWTM 26.0° / 69.0° Efficiency 87 % Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18</p>		
<p>bridgelux.</p> <p>LED Xenio Point 13mm FWHM / FWTM 27.0° / 67.0° Efficiency 83 % Peak intensity 2.2 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 Xenio Point 13mm FWHM / FWTM 31.0° / 70.0° Efficiency 81 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL</p>		

OPTICAL RESULTS (MEASURED):

CITIZEN

LED CLL01x
FWHM / FWTM 13.0° / 27.0°
Efficiency 84 %
Peak intensity 7.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL



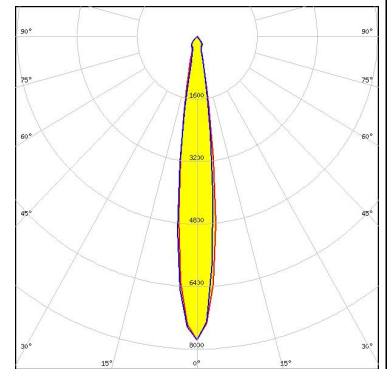
CITIZEN

LED CLL01x
FWHM / FWTM 15.0° / 32.0°
Efficiency 84 %
Peak intensity 5.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL



CITIZEN

LED CLL01x
FWHM / FWTM 14.0° / 27.0°
Efficiency 88 %
Peak intensity 7.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET



CITIZEN

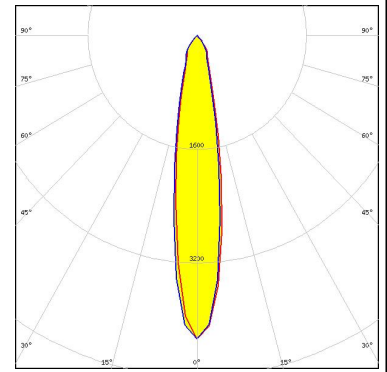
LED CLL02x/CLU02x (LES10)
FWHM / FWTM 20.0° / 54.0°
Efficiency 83 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL



OPTICAL RESULTS (MEASURED):

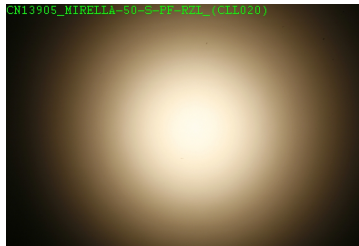
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 19.0° / 46.0°
 Efficiency 87 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 25.0° / 64.0°
 Efficiency %
 Peak intensity 1.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



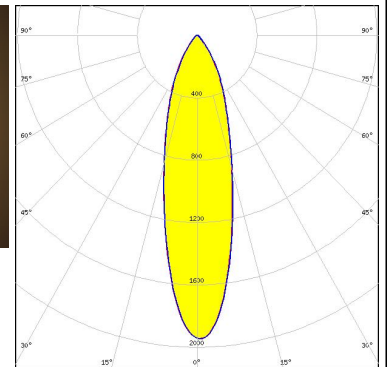
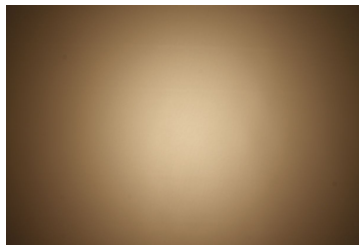
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 18.0° / 43.0°
 Efficiency 83 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



CITIZEN

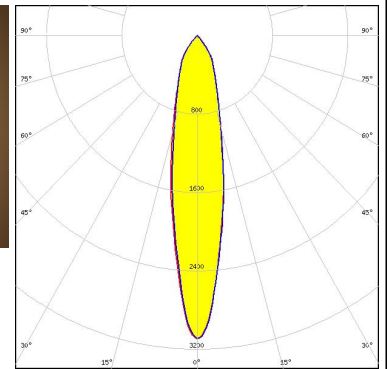
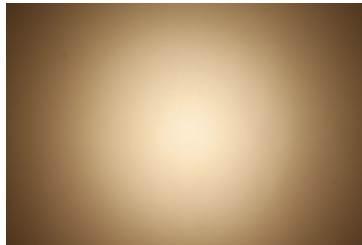
LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 27.0° / 67.0°
 Efficiency 77 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 434 Typ L1



OPTICAL RESULTS (MEASURED):

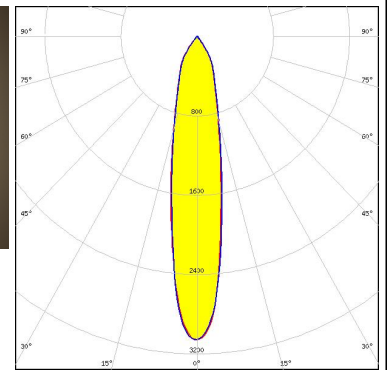
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 21.0° / 63.0°
 Efficiency 84 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



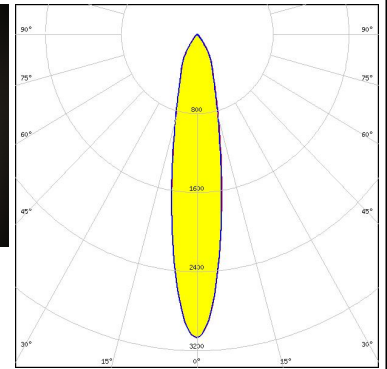
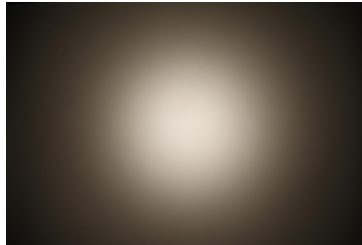
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 20.0° / 61.0°
 Efficiency 80 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 434 Typ L1



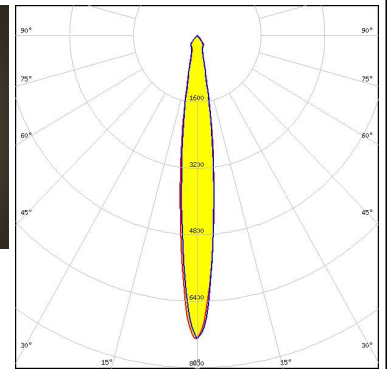
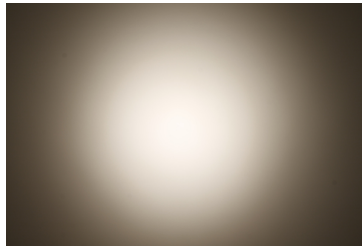
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 20.0° / 58.0°
 Efficiency 79 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 434 Typ L1



CITIZEN

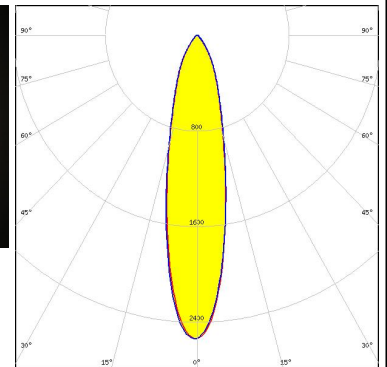
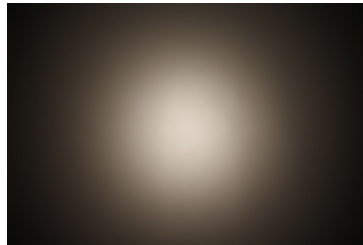
LED CLU700/701/702/703
 FWHM / FWTM 13.0° / 29.0°
 Efficiency 89 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



OPTICAL RESULTS (MEASURED):

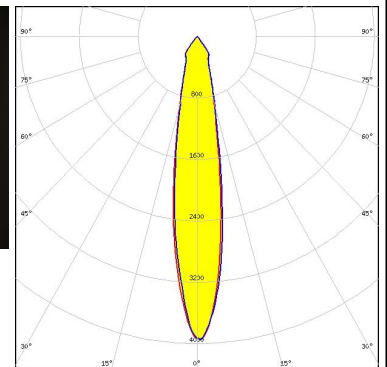
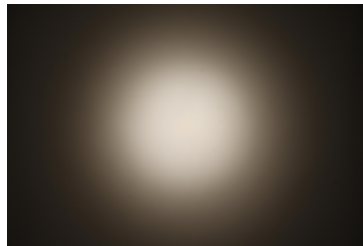
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 23.0° / 61.0°
 Efficiency 82 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



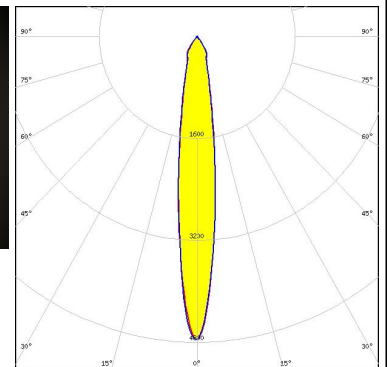
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 19.0° / 47.0°
 Efficiency 84 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1



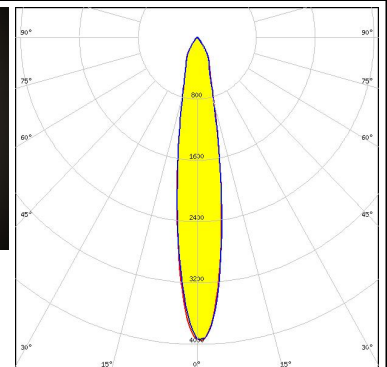
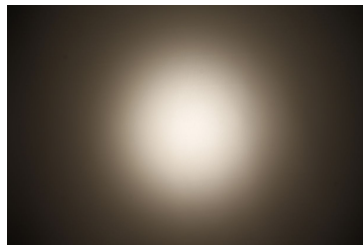
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 14.0° / 40.0°
 Efficiency 79 %
 Peak intensity 4.8 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

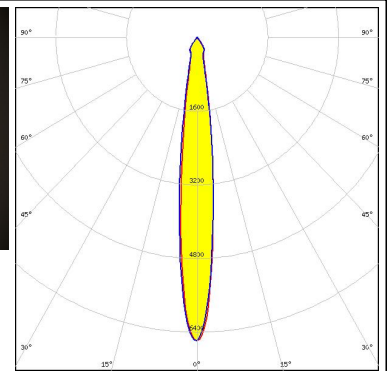
LED CLU700/701/702/703
 FWHM / FWTM 17.0° / 47.0°
 Efficiency 82 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



OPTICAL RESULTS (MEASURED):

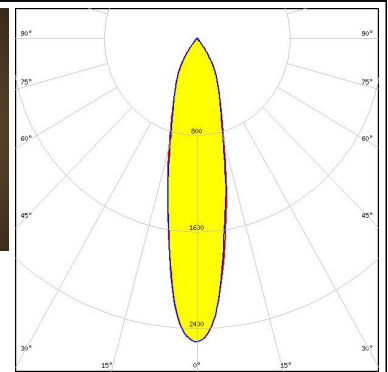
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 13.0° / 30.0°
 Efficiency 83 %
 Peak intensity 6.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



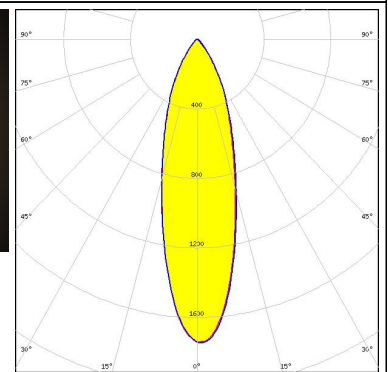
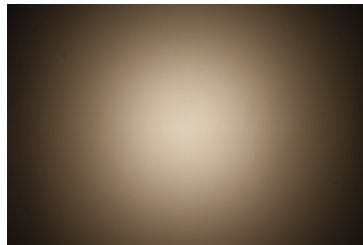
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 23.0° / 64.0°
 Efficiency 77 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 433 Typ L1



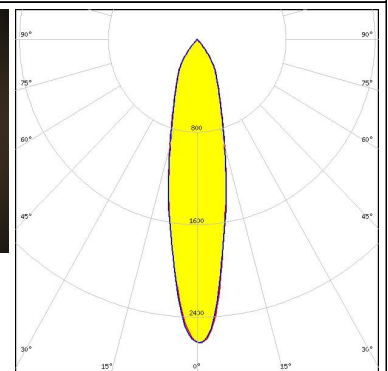
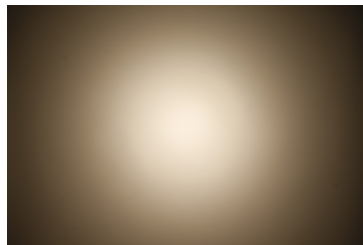
CITIZEN

LED CLU720/721/723
 FWHM / FWTM 29.0° / 69.0°
 Efficiency 75 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 433 Typ L1



CITIZEN

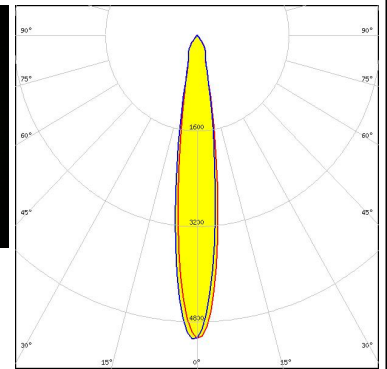
LED CLU720/721/723
 FWHM / FWTM 23.0° / 67.0°
 Efficiency 82 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



OPTICAL RESULTS (MEASURED):



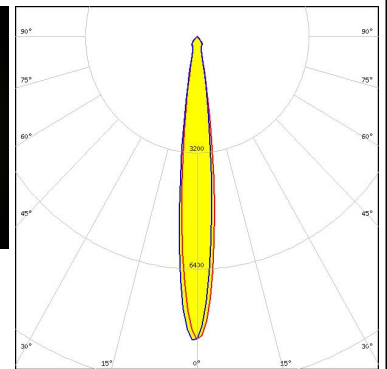
LED CXA/B 13xx
 FWHM / FWTM 15.0° / 36.0°
 Efficiency 81 %
 Peak intensity 5.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C12479_MIRELLA-DL



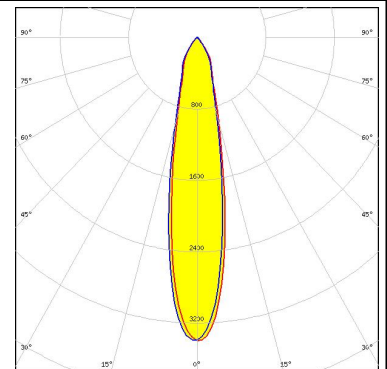
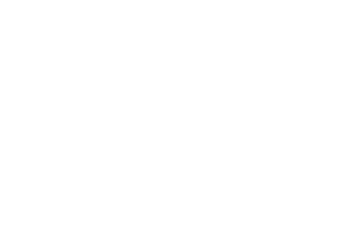
LED CXA/B 13xx
 FWHM / FWTM 12.0° / 25.0°
 Efficiency 82 %
 Peak intensity 8.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C13333_MIRELLA-CL



LED CXA/B 13xx
 FWHM / FWTM 12.0° / 25.0°
 Efficiency 87 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



LED CXA/B 15xx
 FWHM / FWTM 21.0° / 56.0°
 Efficiency 87 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C12479_MIRELLA-DL



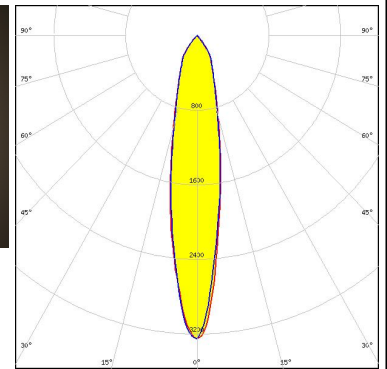
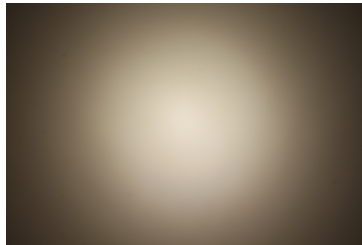
OPTICAL RESULTS (MEASURED):



LED CXA/B 15xx
 FWHM / FWTM 20.0° / 60.0°
 Efficiency 84 %
 Peak intensity 3.3 cd/m
 LEDs/each optic 1
 Light colour White

Required components:

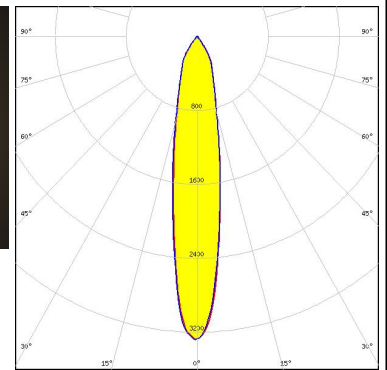
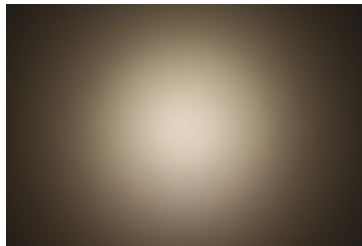
C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 441 Typ L1



LED CXA/B 15xx
 FWHM / FWTM 19.0° / 59.0°
 Efficiency 79 %
 Peak intensity 3.3 cd/m
 LEDs/each optic 1
 Light colour White

Required components:

C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 441 Typ L1



LED CXA/B 15xx
 FWHM / FWTM 19.0° / 47.0°
 Efficiency 84 %
 Peak intensity 4.3 cd/m
 LEDs/each optic 1
 Light colour White

Required components:

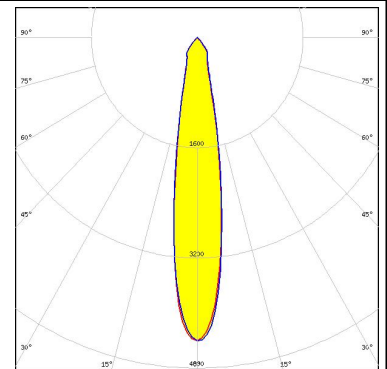
C13761_PF-SOCKET-CXA15
 C13333_MIRELLA-CL



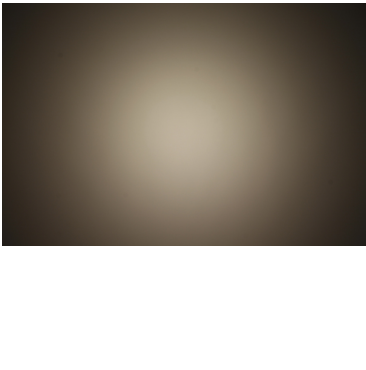
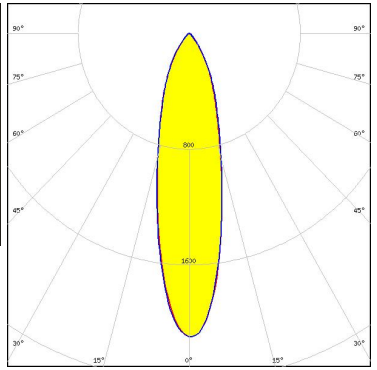

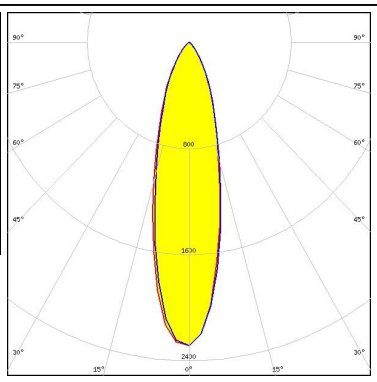

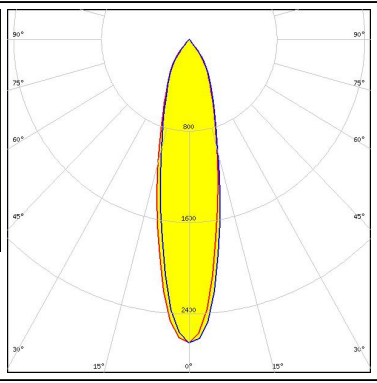
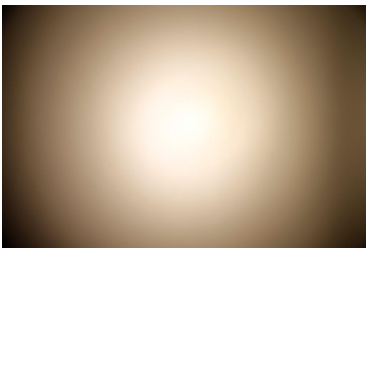
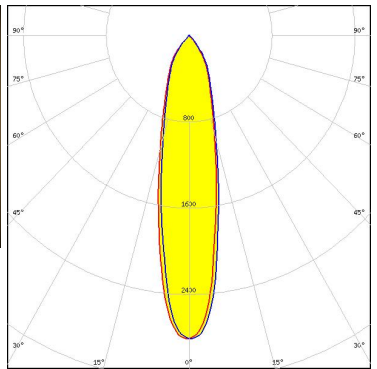
LED CXA/B 15xx
 FWHM / FWTM 18.0° / 43.0°
 Efficiency 91 %
 Peak intensity 4.4 cd/m
 LEDs/each optic 1
 Light colour White

Required components:


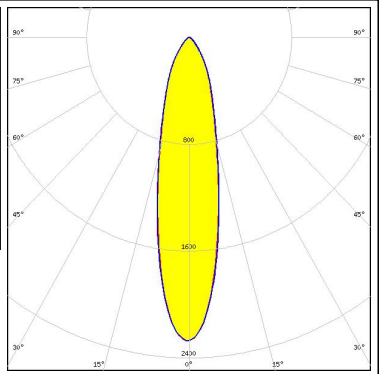

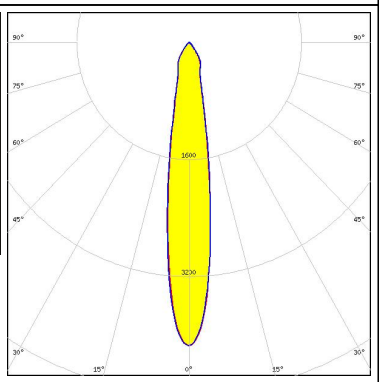

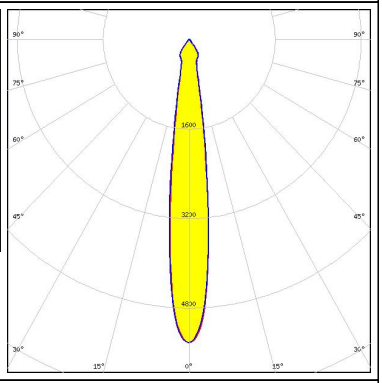

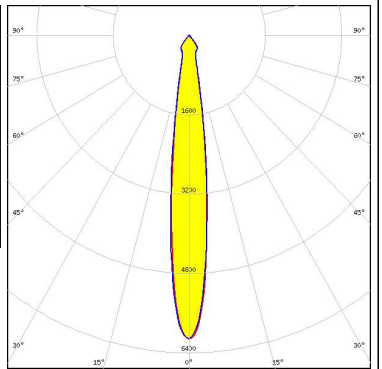
C13761_PF-SOCKET-CXA15



OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED CXA/B 15xx FWHM / FWTM 26.0° / 66.0° Efficiency 77 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 C12479_MIRELLA-DL Bender Wirth: 441 Typ L1</p>		
<p>CREE LEDs</p> <p>LED CXA/B 15xx FWHM / FWTM 27.0° / 65.0° Efficiency 82 % Peak intensity 2.3 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C13723_MIRELLA-RZL</p>		
<p>CREE LEDs</p> <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM / FWTM 25.0° / 68.0° Efficiency 85 % Peak intensity 2.7 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C14115_PF-SOCKET-CXA15-18</p>		
<p>CREE LEDs</p> <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM / FWTM 23.0° / 67.0° Efficiency 89 % Peak intensity 2.8 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: IDEAL: 50-2101CR + 50-2100MR</p>		

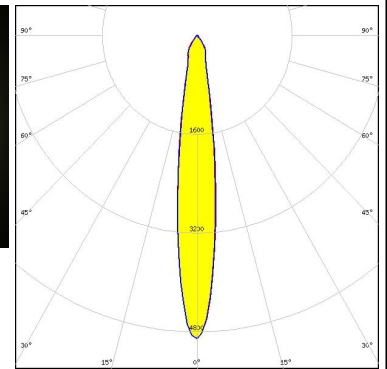
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 24.0° / 65.0° Efficiency 84 % Peak intensity 2.3 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 17.0° / 44.0° Efficiency 87 % Peak intensity 4.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 15.0° / 32.0° Efficiency 87 % Peak intensity 5.4 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED MHD-E/G FWHM / FWTM 14.0° / 31.0° Efficiency 93 % Peak intensity 6.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		

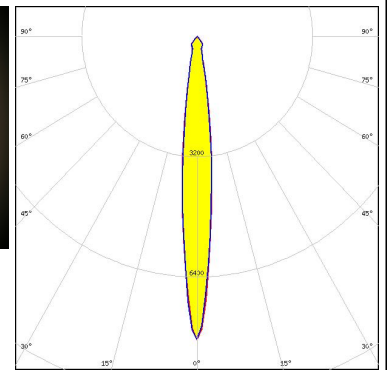
OPTICAL RESULTS (MEASURED):



LED MK-R
 FWHM / FWTM 15.0° / 37.0°
 Efficiency 82 %
 Peak intensity 4.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



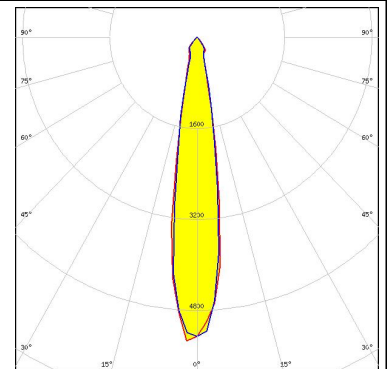
LED MK-R
 FWHM / FWTM 12.0° / 27.0°
 Efficiency 87 %
 Peak intensity 8.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



LED MT-G
 FWHM / FWTM 19.0° / 46.0°
 Efficiency 85 %
 Peak intensity 4.4 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



LED MT-G
 FWHM / FWTM 17.0° / 34.0°
 Efficiency 90 %
 Peak intensity 5.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



OPTICAL RESULTS (MEASURED):



LED MT-G
 FWHM / FWTM 18.0° / 34.0°
 Efficiency 86 %
 Peak intensity 5.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



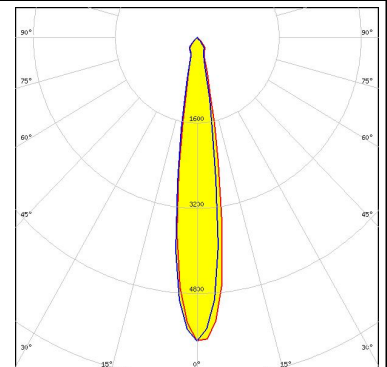
LED MT-G2
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 84 %
 Peak intensity 5.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL




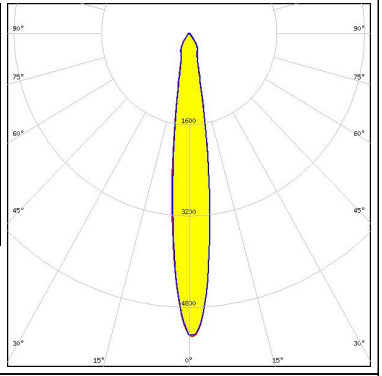

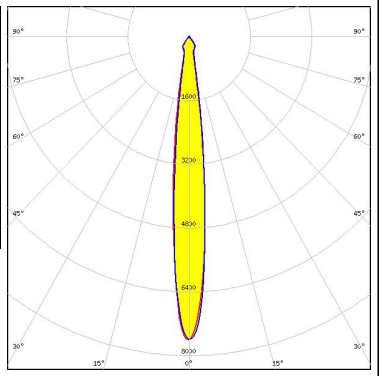

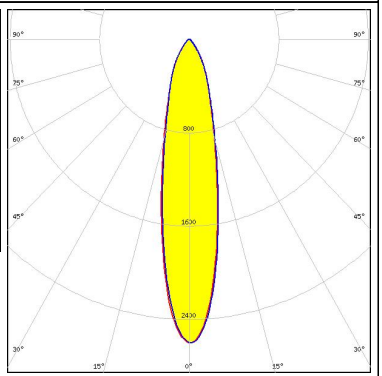

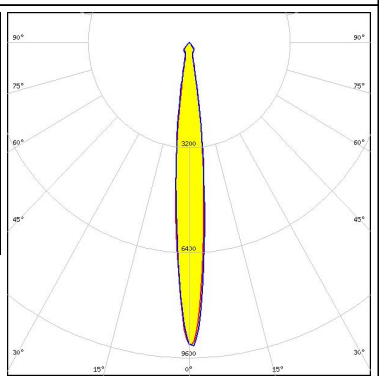
LED MT-G2
 FWHM / FWTM 18.0° / 43.0°
 Efficiency 85 %
 Peak intensity 4.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL




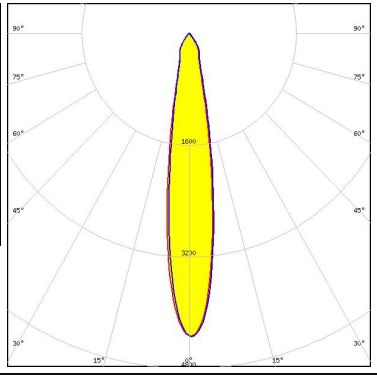

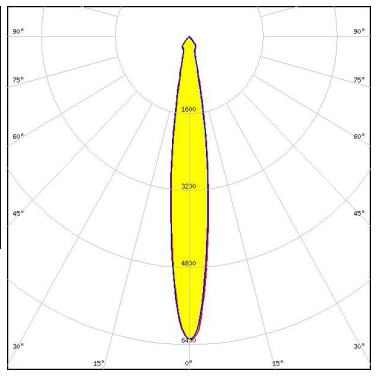

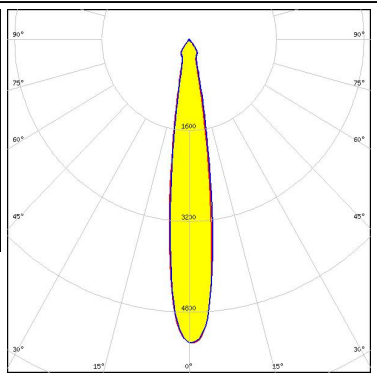
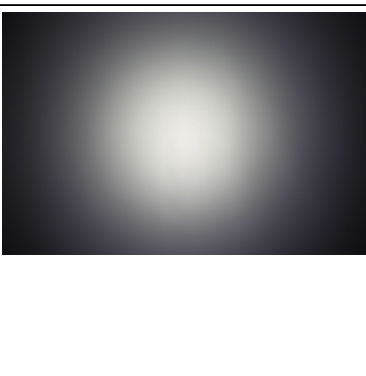
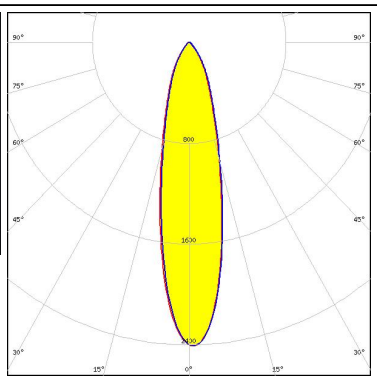
LED MT-G2
 FWHM / FWTM 18.0° / 35.0°
 Efficiency 88 %
 Peak intensity 4.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 15.0° / 34.0° Efficiency 85 % Peak intensity 5.3 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 12.0° / 25.0° Efficiency 84 % Peak intensity 7.6 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 22.0° / 60.0° Efficiency 81 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>CREE LEDs</p> <p>LED XHP50 FWHM / FWTM 11.0° / 23.0° Efficiency 89 % Peak intensity 9.2 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		

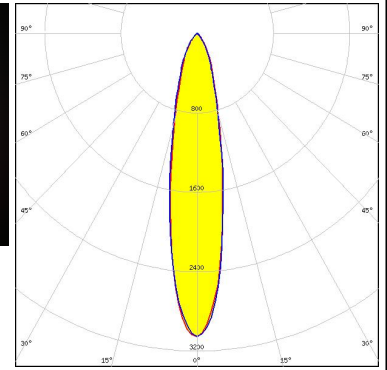
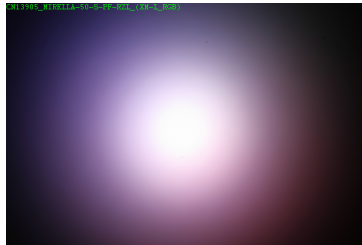
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 17.0° / 40.0° Efficiency 84 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 15.0° / 31.0° Efficiency 89 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 16.0° / 32.0° Efficiency 83 % Peak intensity 5.3 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p>CREE LEDs</p> <p>LED XHP70 FWHM / FWTM 24.0° / 62.0° Efficiency 81 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		

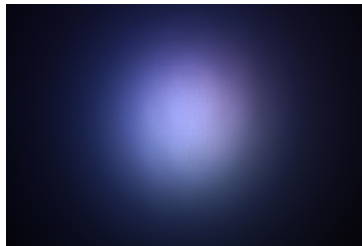
OPTICAL RESULTS (MEASURED):



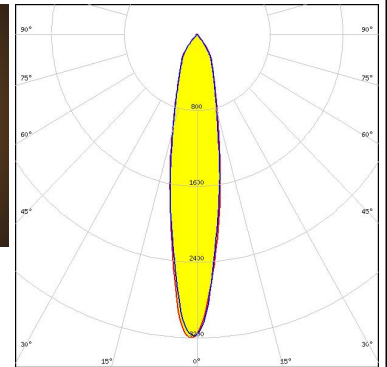
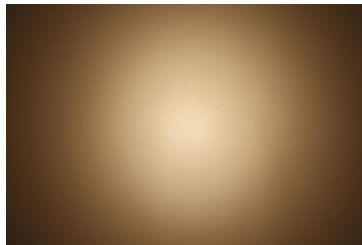
LED XM-L RGBW (XMLCTW)
 FWHM / FWTM 22.0° / 55.0°
 Efficiency 80 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



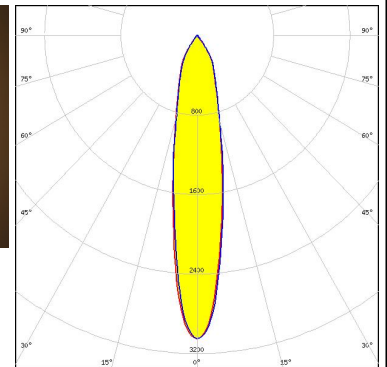
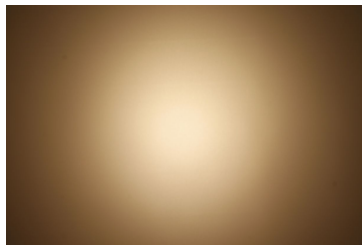
LED XQ-E HI
 FWHM / FWTM 21.0° / 58.0°
 Efficiency 86 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 4
 Light colour RGBW
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



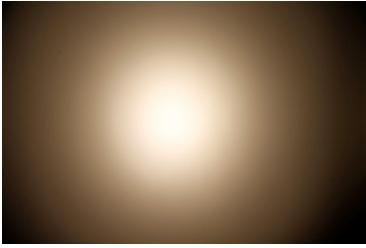
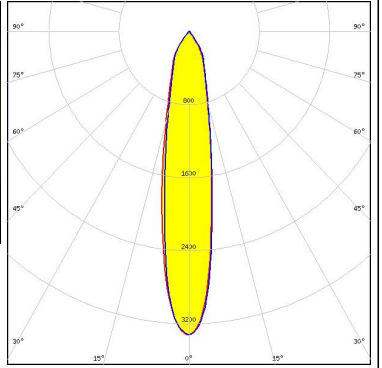
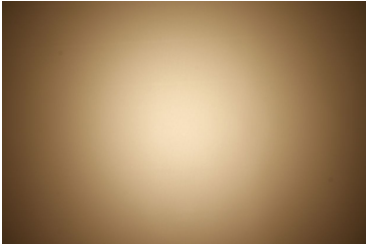
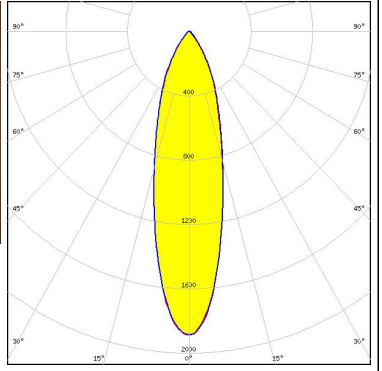
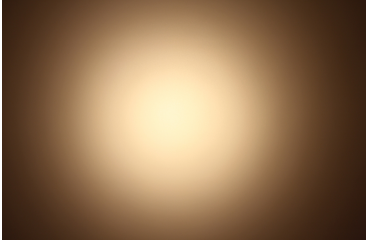
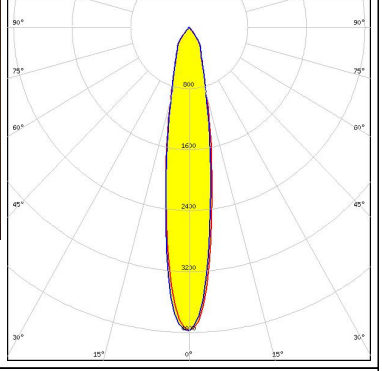
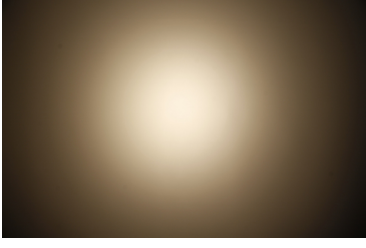
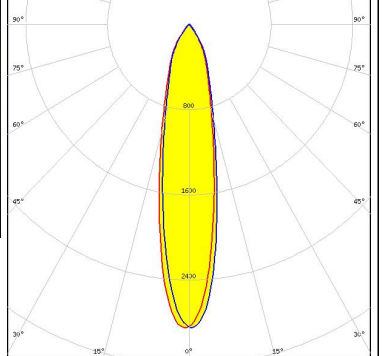
LED LUXEON CoB 1202/1203
 FWHM / FWTM 20.0° / 61.0°
 Efficiency 84 %
 Peak intensity 3.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 438 Typ L1




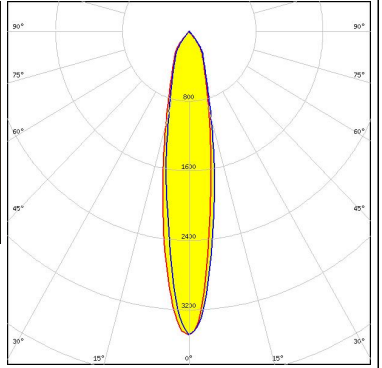

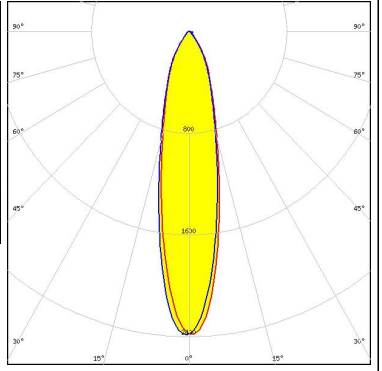
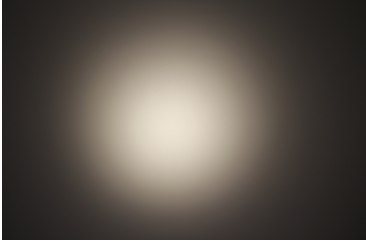

LED LUXEON CoB 1202/1203
 FWHM / FWTM 20.0° / 61.0°
 Efficiency 78 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 438 Typ L1



OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 19.0° / 59.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 27.0° / 67.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.9 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: 438 Typ L1</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 19.0° / 50.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 22.0° / 61.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL IDEAL: 50-2100NC +50-2100MR</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 19.0° / 58.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: IDEAL: 50-2100NC +50-2100MR</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 23.0° / 63.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 2.4 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: 452 Typ L1</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 15.0° / 36.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 5.9 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 CoB 1202s</p> <p>FWHM / FWTM 13.0° / 28.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13761_PF-SOCKET-CXA15 C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

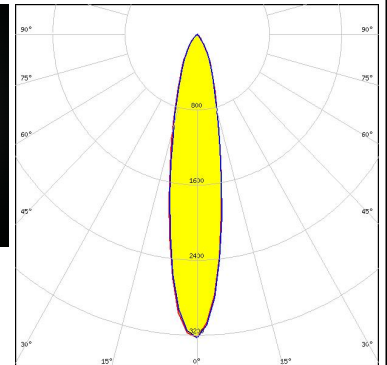
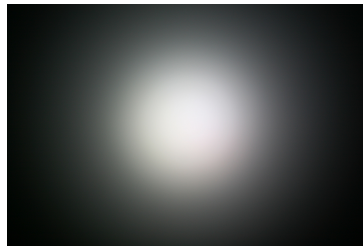
LUMILEDS

LED LUXEON CoB 1202s
 FWHM / FWTM 13.0° / 30.0°
 Efficiency 89 %
 Peak intensity 7.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



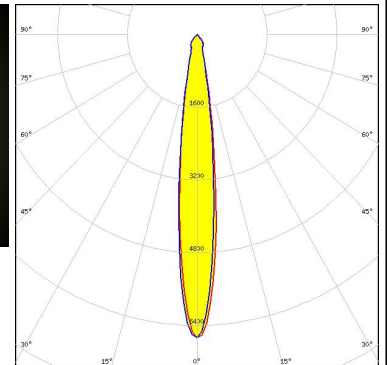
LUMILEDS

LED LUXEON Z
 FWHM / FWTM 21.0° / 54.0°
 Efficiency 78 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 4
 Light colour RGBW
 Required components:
 C13083_PF-SOCKET
 C13723_MIRELLA-RZL



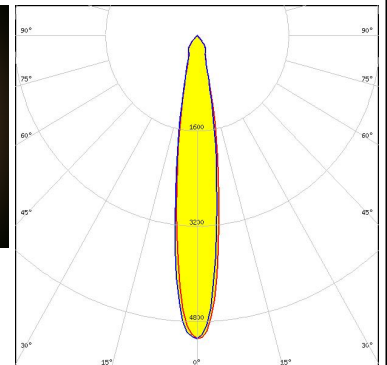
LUMINUS

LED CxM-6 (12x13)
 FWHM / FWTM 14.0° / 32.0°
 Efficiency 86 %
 Peak intensity 6.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET

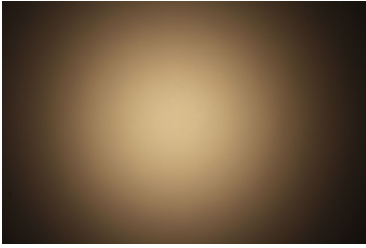
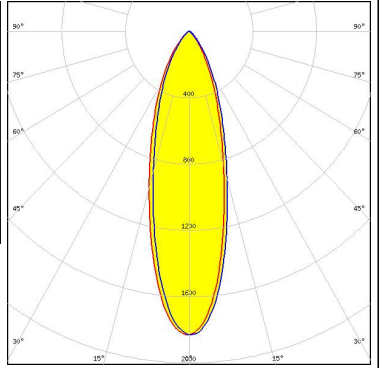
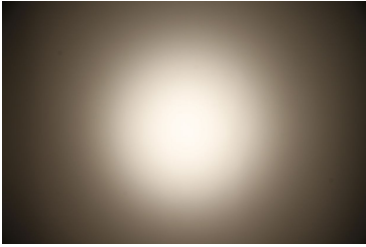
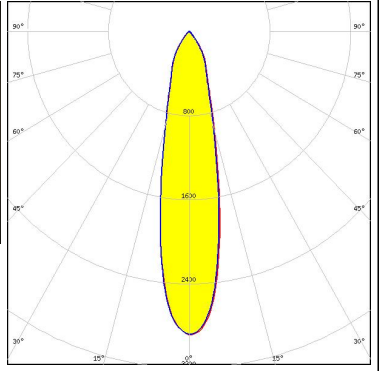

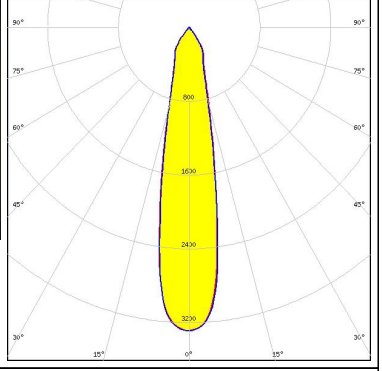
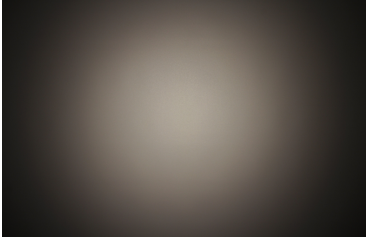
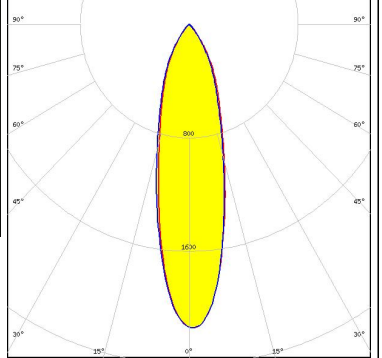


LUMINUS


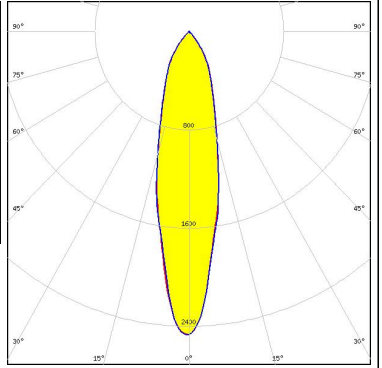
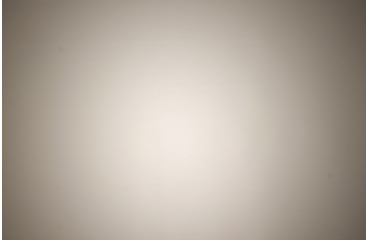
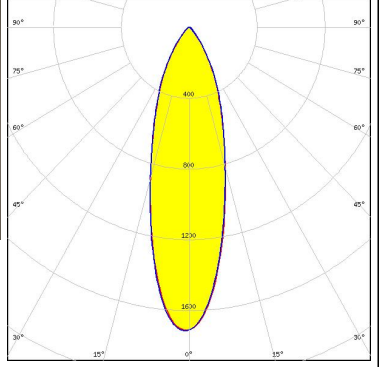

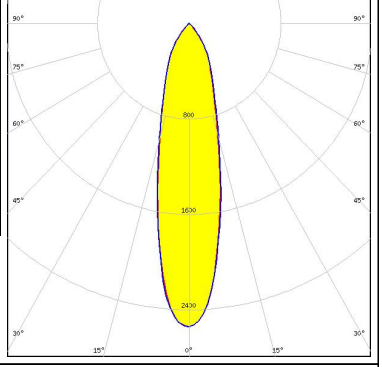

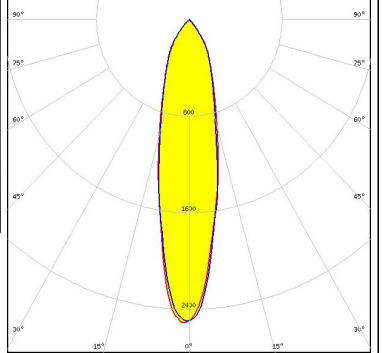
LED CXM-7 (13x13)
 FWHM / FWTM 17.0° / 38.0°
 Efficiency 87 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



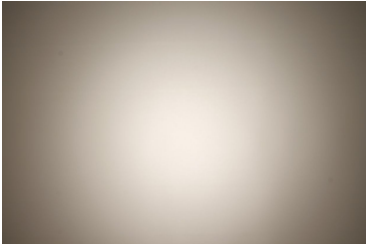
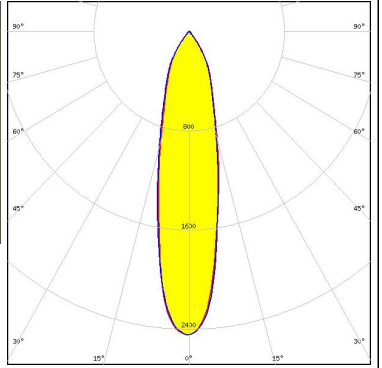
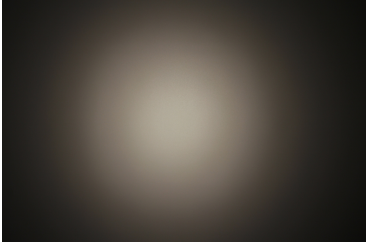
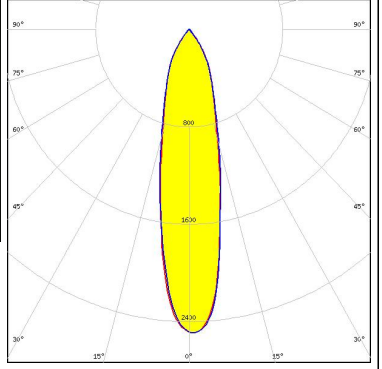
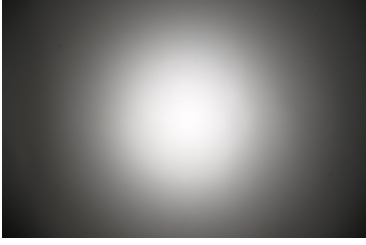
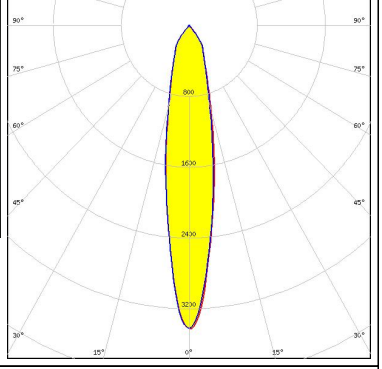

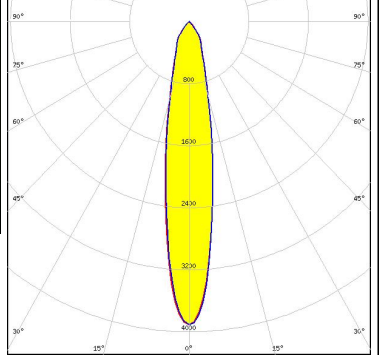
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 30.0° / 70.0° Efficiency 81 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 23.0° / 61.0° Efficiency 86 % Peak intensity 2.9 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 21.0° / 58.0° Efficiency 85 % Peak intensity 3.3 cd/lm LEDs/each optic 1 Light colour White Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM / FWTM 26.0° / 67.0° Efficiency 80 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: C12479_MIRELLA-DL IDEAL: 50-2100NC +50-2100MR</p>		


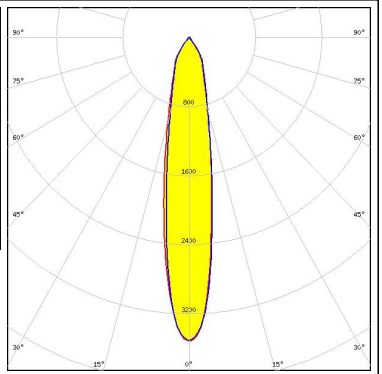

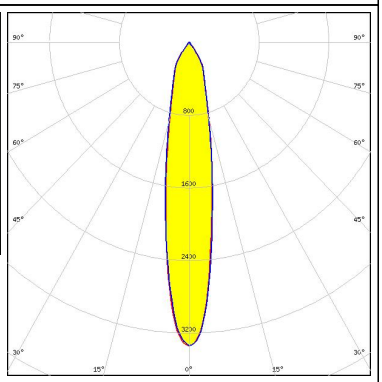

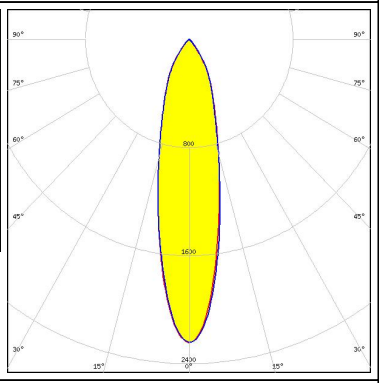

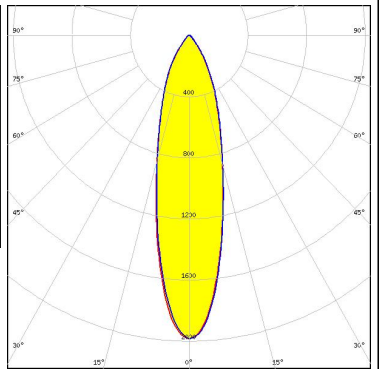
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 25.0° / 68.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 30.0° / 70.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 1.7 cd/m</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: 438 Typ L1</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 25.0° / 68.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 24.0° / 68.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13709_PF-SOCKET-VERO13-18 Bender Wirth: 438 Typ L1</p>		


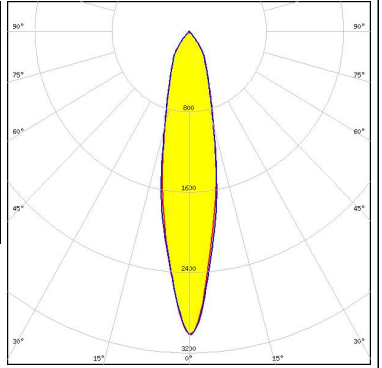





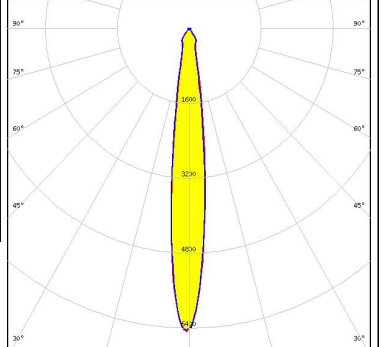
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 11)</p> <p>FWHM / FWTM 24.0° / 65.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 2.4 cd/m</p> <p>LEDs/each optic 1</p> <p>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 11)</p> <p>FWHM / FWTM 24.0° / 65.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 19.0° / 57.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>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)</p> <p>FWHM / FWTM 19.0° / 52.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p>		


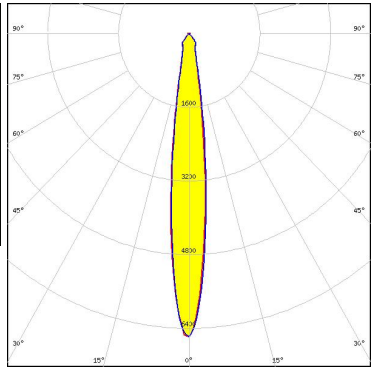
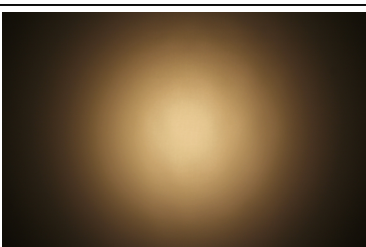
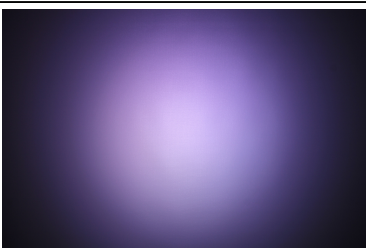
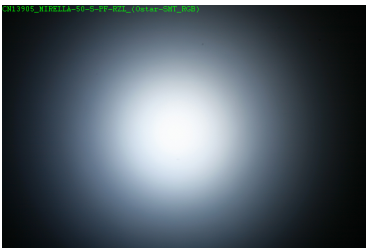
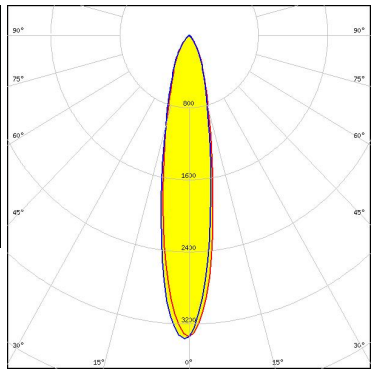
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 18.0° / 56.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13333_MIRELLA-CL IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 18.0° / 58.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 3.3 cd/m</p> <p>LEDs/each optic 1</p> <p>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)</p> <p>FWHM / FWTM 24.0° / 66.0°</p> <p>Efficiency 78 %</p> <p>Peak intensity 2.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C12479_MIRELLA-DL IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 27.0° / 67.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 2 cd/m</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: 438 Typ L1</p>		


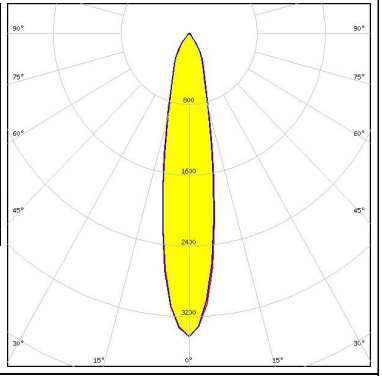

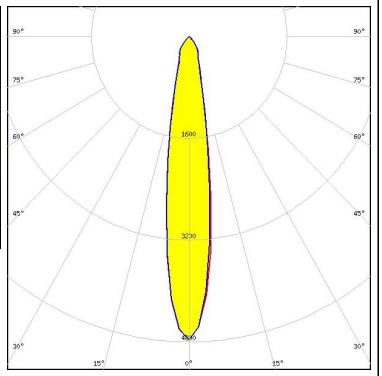

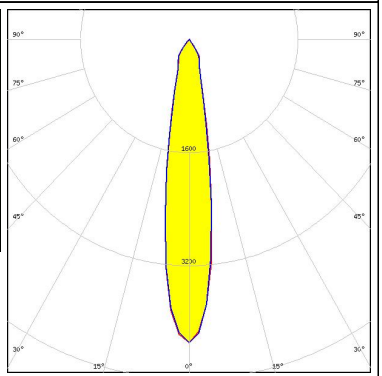
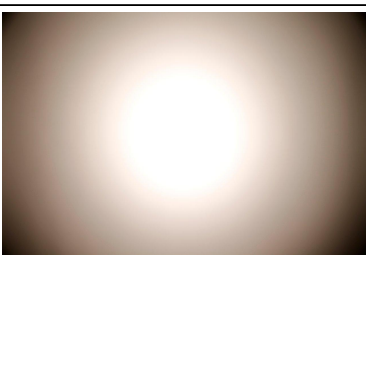
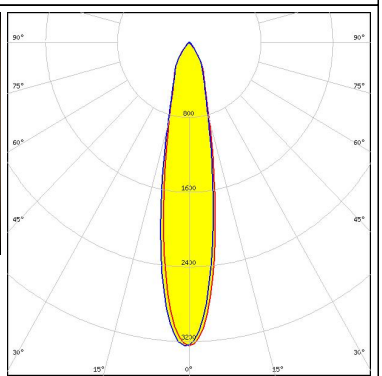
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 22.0° / 64.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: IDEAL: 50-2100NC +50-2100MR</p>		
<p>NICHIA</p> <p>LED NSCxL036A</p> <p>FWHM / FWTM 16.0° / 38.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14037_PF-NSX-SOCKET</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 18.0° / 54.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 3.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 13.0° / 30.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 6.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		

OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 13.0° / 31.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 6.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S10</p> <p>FWHM / FWTM 22.0° / 61.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSTAR Stage (S2WP)</p> <p>FWHM / FWTM 21.0° / 58.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED Ostar-SMT RGB</p> <p>FWHM / FWTM 20.0° / 55.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C13723_MIRELLA-RZL</p>		

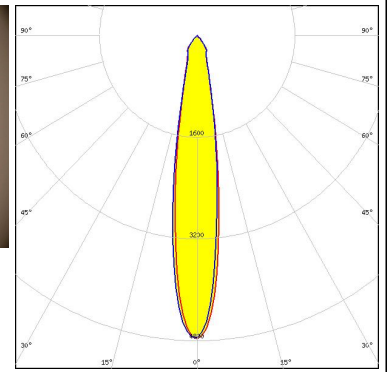
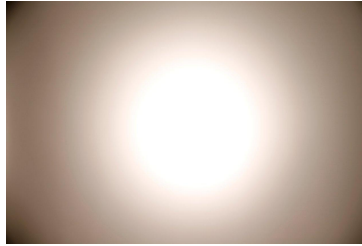
OPTICAL RESULTS (MEASURED):

<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 21.0° / 56.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 18.0° / 42.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 4.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED ZC4/6</p> <p>FWHM / FWTM 19.0° / 44.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 4.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C13333_MIRELLA-CL</p>		
<p>SHARP</p> <p>LED Mini Zenigata (GW6BM)</p> <p>FWHM / FWTM 20.0° / 56.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 3.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C13083_PF-SOCKET C12479_MIRELLA-DL</p>		

OPTICAL RESULTS (MEASURED):

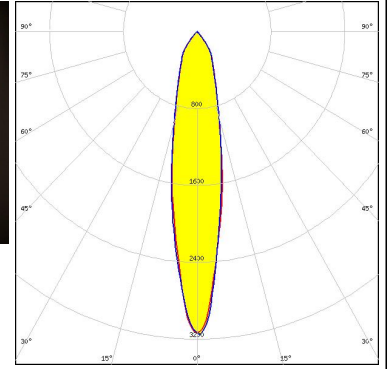
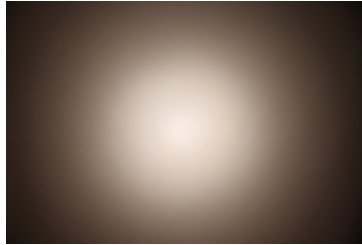
SHARP

LED Mini Zenigata (GW6BM)
FWHM / FWTM 17.0° / 41.0°
Efficiency 91 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13083_PF-SOCKET



XICATO

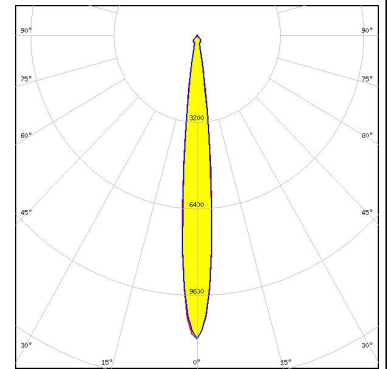
LED XTM - 9mm LES
FWHM / FWTM 20.0° / 61.0°
Efficiency 82 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C14636_XTM-PF-ADAPTER



OPTICAL RESULTS (SIMULATED):



LED XHP50.2
 FWHM / FWTM 11.0° / 22.0°
 Efficiency 90 %
 Peak intensity 11.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON CoB Compact
 FWHM / FWTM 13.0° / 30.0°
 Efficiency 89 %
 Peak intensity 7.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



LED LUXEON CoB Compact
 FWHM / FWTM 15.0° / 36.0°
 Efficiency 84 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C12479_MIRELLA-DL



LED LUXEON CoB Compact
 FWHM / FWTM 23.0° / 63.0°
 Efficiency 79 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 452 Typ L1

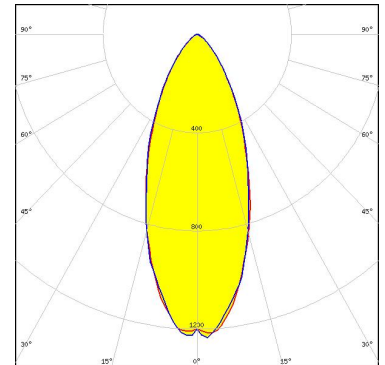
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED LUXEON CoB Compact
 FWHM / FWTM 13.0° / 28.0°
 Efficiency 84 %
 Peak intensity 7.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C13333_MIRELLA-CL

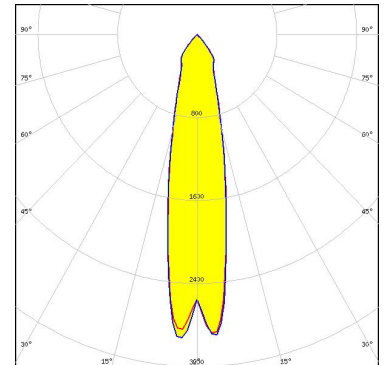
LUMILEDS

LED LUXEON K4
 FWHM / FWTM 42.0° / 87.0°
 Efficiency 84 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15
 C12479_MIRELLA-DL



LUMILEDS

LED LUXEON K4
 FWHM / FWTM 24.0° / 72.0°
 Efficiency 88 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13761_PF-SOCKET-CXA15



LUMINUS

LED CxM-14 (19x19)
 FWHM / FWTM 33.0° / 72.0°
 Efficiency 69 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 433 Typ L1

OPTICAL RESULTS (SIMULATED):

LUMINUS

LED CxM-14 (19x19)
FWHM / FWTM 31.0° / 70.0°
Efficiency 72 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 433 Typ L1

LUMINUS

LED CxM-14 (19x19)
FWHM / FWTM 29.0° / 72.0°
Efficiency 76 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18

LUMINUS

LED CxM-9 (13.5x13.5)
FWHM / FWTM 27.0° / 67.0°
Efficiency 77 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 434 Typ L1

LUMINUS

LED CxM-9 (13.5x13.5)
FWHM / FWTM 20.0° / 61.0°
Efficiency 80 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 434 Typ L1

OPTICAL RESULTS (SIMULATED):

LUMINUS

LED CxM-9 (13.5x13.5)
FWHM / FWTM 21.0° / 63.0°
Efficiency 84 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

NICHIA

LED COB S-Type (LES 7)
FWHM / FWTM 19.0° / 49.0°
Efficiency 87 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 452 Typ L1

NICHIA

LED COB S-Type (LES 7)
FWHM / FWTM 23.0° / 63.0°
Efficiency 79 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 452 Typ L1

NICHIA

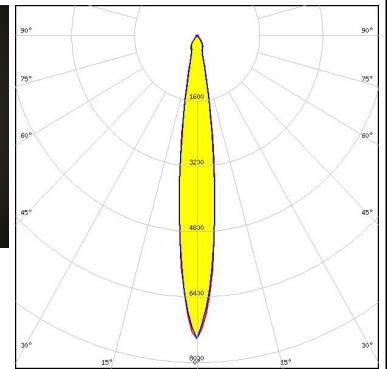
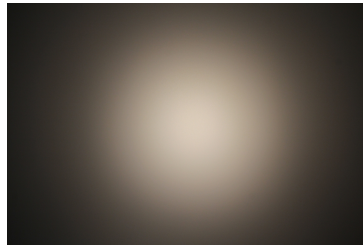
LED COB S-Type (LES 7)
FWHM / FWTM 15.0° / 41.0°
Efficiency 83 %
Peak intensity 4.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 452 Typ L1

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

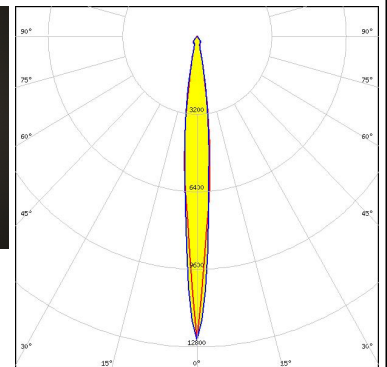
LED Duris S8
 FWHM / FWTM 14.0° / 29.0°
 Efficiency 90 %
 Peak intensity 7.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



OSRAM

Opto Semiconductors

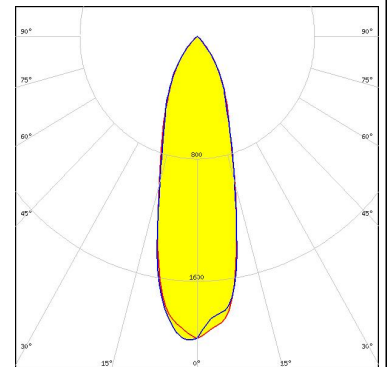
LED Duris S8
 FWHM / FWTM 9.5° / 24.0°
 Efficiency 94 %
 Peak intensity 12.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



OSRAM

Opto Semiconductors

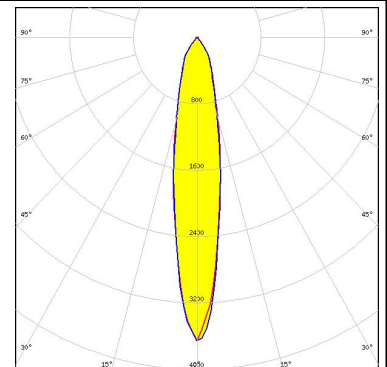
LED Soleriq S15
 FWHM / FWTM 28.0° / 74.0°
 Efficiency 85 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 433 Typ L1



OSRAM

Opto Semiconductors

LED Soleriq S9
 FWHM / FWTM 19.0° / 56.0°
 Efficiency 87 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 434 Typ L1

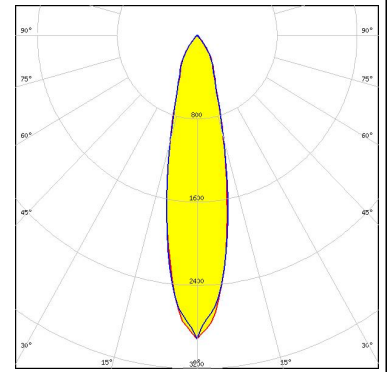


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

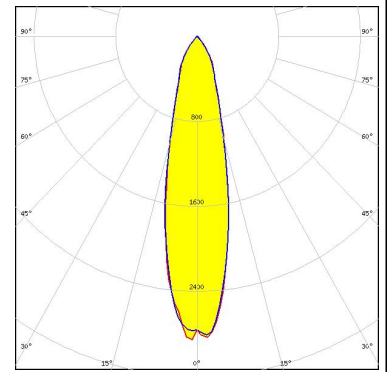
LED Soleriq S9
 FWHM / FWTM 24.0° / 61.0°
 Efficiency 86 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C12479_MIRELLA-DL



OSRAM

Opto Semiconductors

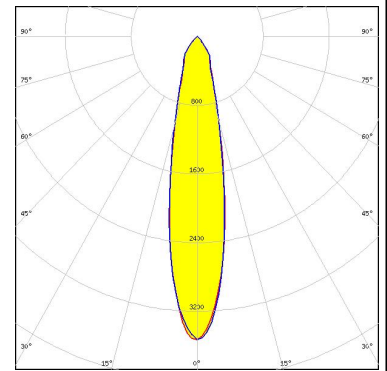
LED Soleriq S9
 FWHM / FWTM 24.0° / 61.0°
 Efficiency 87 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET
 C13333_MIRELLA-CL



OSRAM

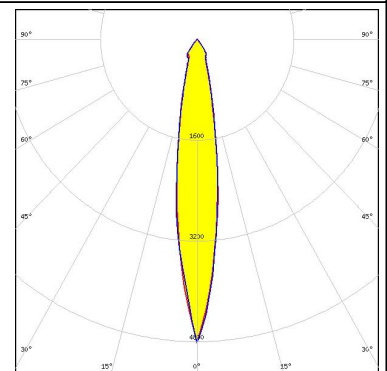
Opto Semiconductors

LED Soleriq S9
 FWHM / FWTM 21.0° / 54.0°
 Efficiency 91 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13083_PF-SOCKET



SAMSUNG

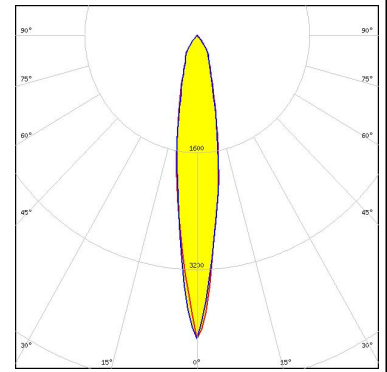
LED LC010C
 FWHM / FWTM 16.0° / 41.0°
 Efficiency 87 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 479 Typ L1



OPTICAL RESULTS (SIMULATED):

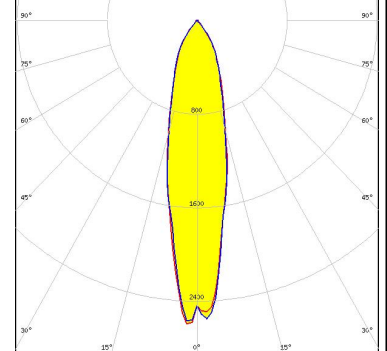
SAMSUNG

LED LC020C
 FWHM / FWTM 16.0° / 49.0°
 Efficiency 86 %
 Peak intensity 4.1 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 / FWTM 23.0° / 66.0°
 Efficiency 84 %
 Peak intensity 2.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 Bender Wirth: 480 Typ L1



SEOUL SEMICONDUCTOR

LED ZC4/6
 FWHM / FWTM 27.0° / 67.0°
 Efficiency 77 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C12479_MIRELLA-DL
 Bender Wirth: 434 Typ L1



SEOUL SEMICONDUCTOR

LED ZC4/6
 FWHM / FWTM 20.0° / 61.0°
 Efficiency 80 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C13709_PF-SOCKET-VERO13-18
 C13333_MIRELLA-CL
 Bender Wirth: 434 Typ L1

OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	ZC4/6
FWHM / FWTM	21.0° / 63.0°
Efficiency	84 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
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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