MIRELLA-50-M-PF

~30° medium beam

TECHNICAL SPECIFICATIONS:

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

MATERIAL SPECIFICATIONS:
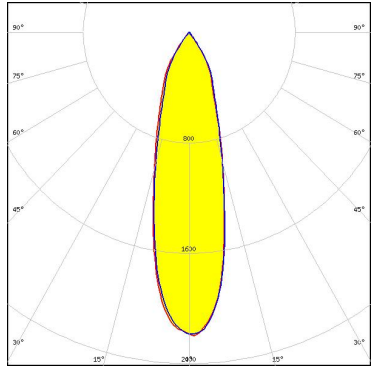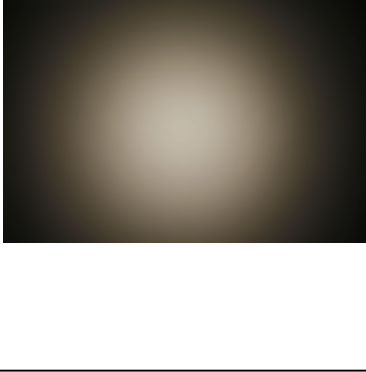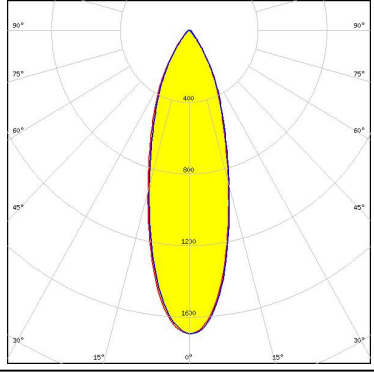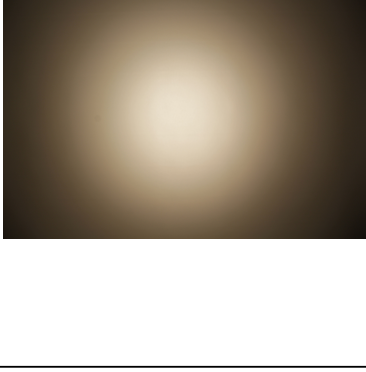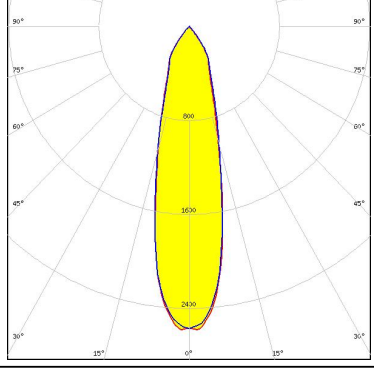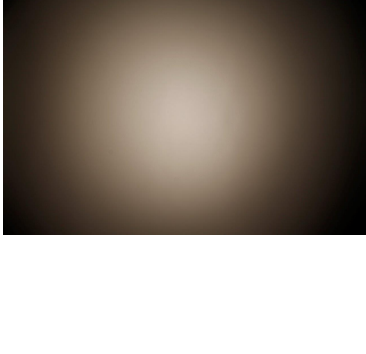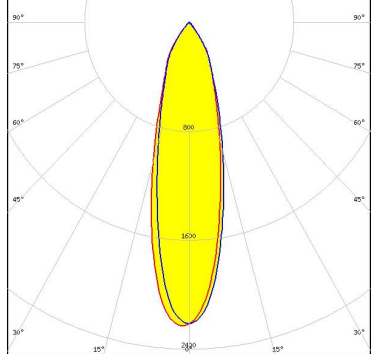
Component	Type	Material	Colour	Finish	Coating
MIRELLA-50-M-PF	Reflector	PC	metal		lacquer
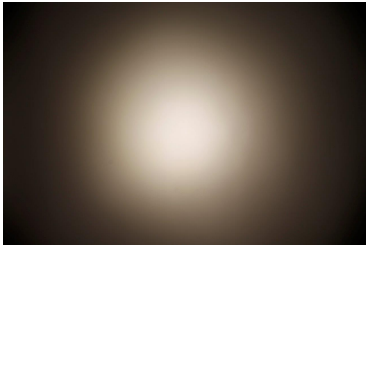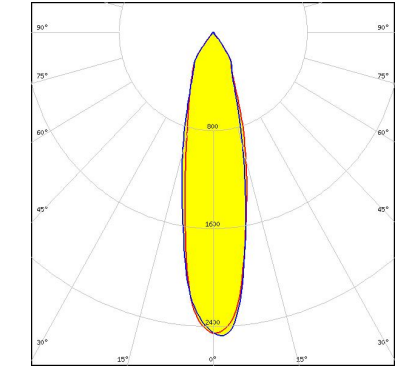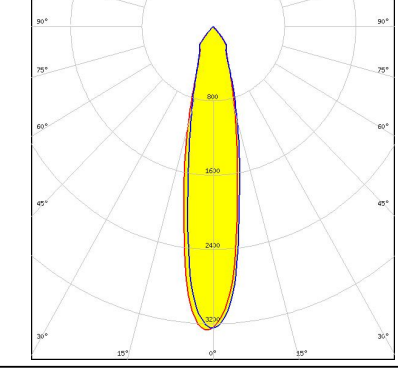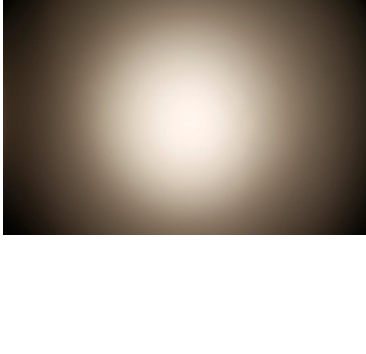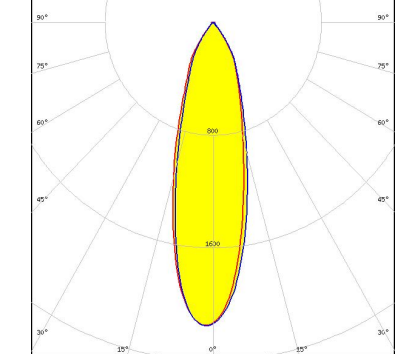
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13086_MIRELLA-50-M-PF	336	112	28	2.8
» Box size: 480 x 280 x 300 mm				
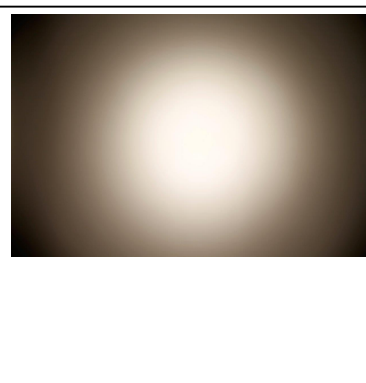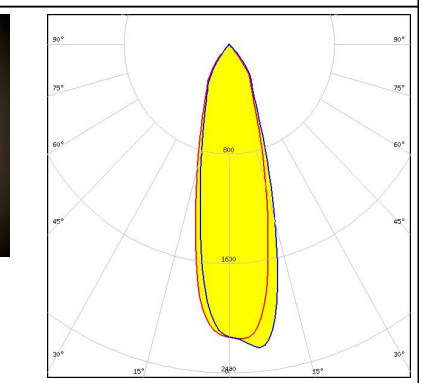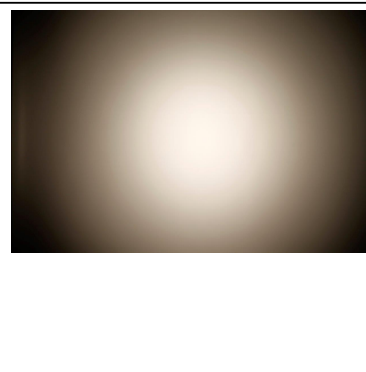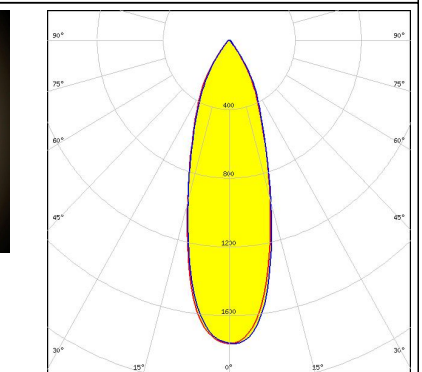
PHOTOMETRIC DATA (MEASURED):

bridgelux	
LED	V10 Gen7
FWHM	28.0°
Efficiency	78 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C13333_MIRELLA-CL	

bridgelux	
LED	V10 Gen7
FWHM	32.0°
Efficiency	77 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	

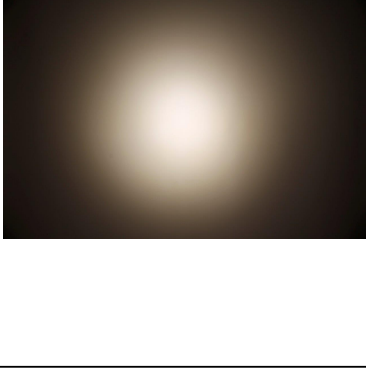|	
bridgelux	
LED	V10 Gen7
FWHM	26.0°
Efficiency	88 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 434 Typ L1	

bridgelux	
LED	V6 Gen6
FWHM	27.0°
Efficiency	82 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13761_PF-SOCKET-CXA15	
C12479_MIRELLA-DL	
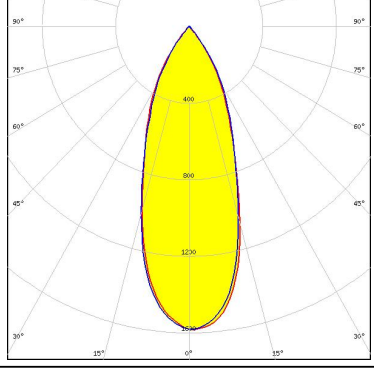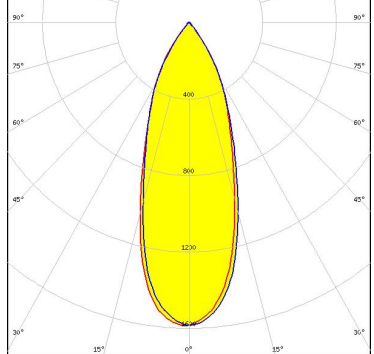
PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	V6 Gen6
FWHM	25.0°
Efficiency	82 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13761_PF-SOCKET-CXA15
  C13333_MIRELLA-CL

bridgelux

LED	V6 Gen6
FWHM	21.0°
Efficiency	75 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  C12479_MIRELLA-DL
  Bender Wirth: 460 Typ L1

bridgelux

LED	V6 Gen6
FWHM	21.0°
Efficiency	88 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13761_PF-SOCKET-CXA15

bridgelux

LED	V8 Gen6
FWHM	28.0°
Efficiency	83 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

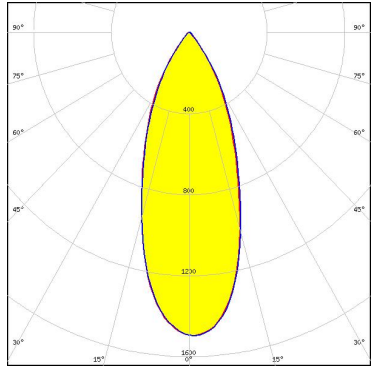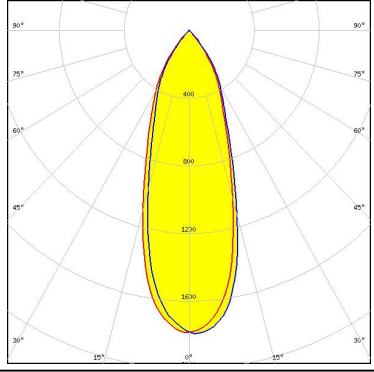Required components:
  C13761_PF-SOCKET-CXA15
  C12479_MIRELLA-DL
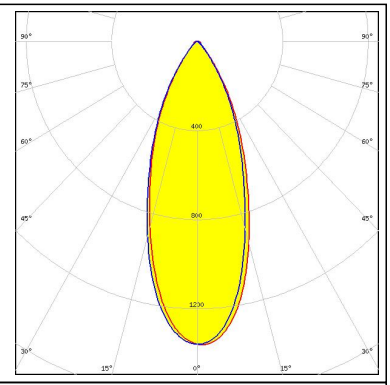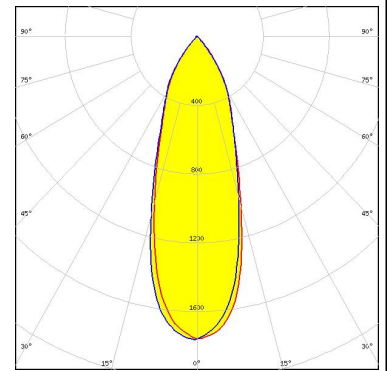
PHOTOMETRIC DATA (MEASURED):

bridgelux	
LED	V8 Gen6
FWHM	26.0°
Efficiency	71 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
C12479_MIRELLA-DL	
Bender Wirth: 460 Typ L1	

bridgelux	
LED	VERO10
FWHM	32.0°
Efficiency	80 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13708_PF-SOCKET-VERO10	
C13333_MIRELLA-CL	

bridgelux	
LED	VERO10
FWHM	28.0°
Efficiency	85 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13708_PF-SOCKET-VERO10	

bridgelux	
LED	VERO10
FWHM	32.0°
Efficiency	80 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13708_PF-SOCKET-VERO10	
C12479_MIRELLA-DL	

PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	VERO13
FWHM	38.0°
Efficiency	82 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  C12479_MIRELLA-DL

bridgelux

LED	VERO13
FWHM	34.0°
Efficiency	88 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18

bridgelux

LED	VERO13
FWHM	37.0°
Efficiency	82 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  C13333_MIRELLA-CL

bridgelux

LED	Xenio Point 13mm
FWHM	36.0°
Efficiency	80 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  C13333_MIRELLA-CL

PHOTOMETRIC DATA (MEASURED):

bridgelux		
LED	Xenio Point 13mm	
FWHM	39.0°	
Efficiency	78 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13709_PF-SOCKET-VERO13-18		
C12479_MIRELLA-DL		

bridgelux		
LED	Xenio Point 13mm	
FWHM	34.0°	
Efficiency	84 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13709_PF-SOCKET-VERO13-18		

CITIZEN		
LED	CLL01x	
FWHM	20.0°	
Efficiency	90 %	
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13083_PF-SOCKET		

CITIZEN		
LED	CLL01x	
FWHM	28.0°	
Efficiency	86 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
C13083_PF-SOCKET		
C12479_MIRELLA-DL		

PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL01x
FWHM	24.0°
Efficiency	86 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	26.0°
Efficiency	84 %
Peak intensity	2.5 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	26.0°
Efficiency	91 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	31.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
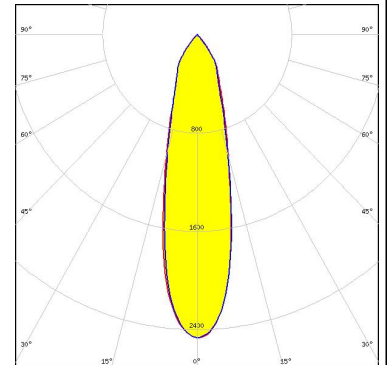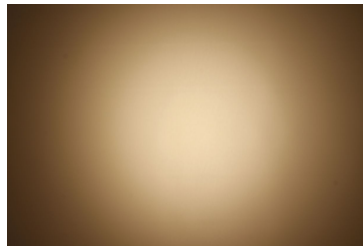 C12479_MIRELLA-DL
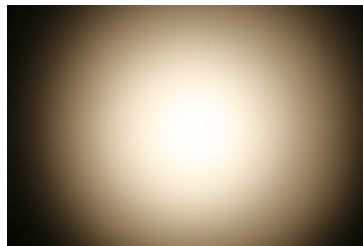
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	28.0°
Efficiency	79 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  C13333_MIRELLA-CL
  Bender Wirth: 434 Typ L1
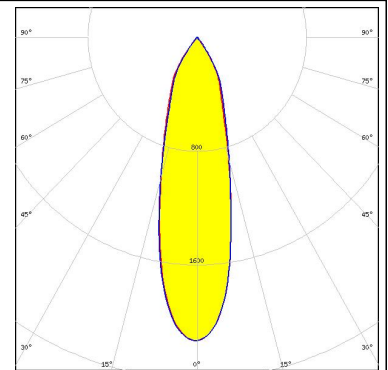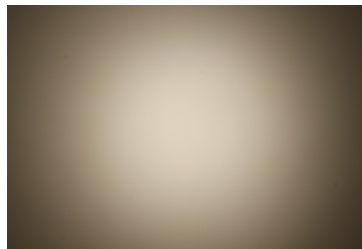
CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	36.0°
Efficiency	%
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13723_MIRELLA-RZL

CN13906_MIRELLA-50-M-PF-RZL_(CLL020)

CITIZEN

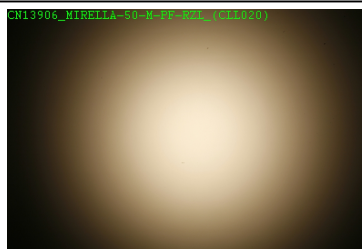|	
LED	CLL02x/CLU02x (LES10)
FWHM	30.0°
Efficiency	87 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL

CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM	33.0°
Efficiency	76 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
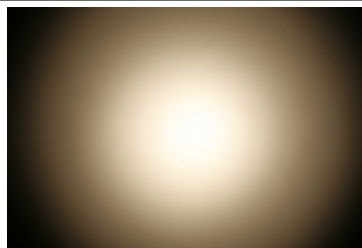 C12479_MIRELLA-DL
  Bender Wirth: 434 Typ L1
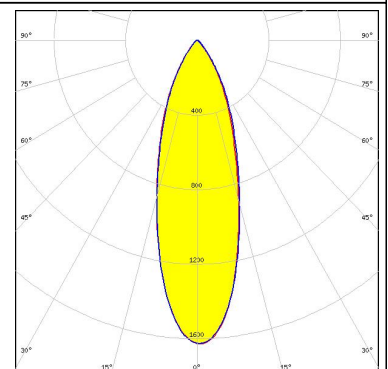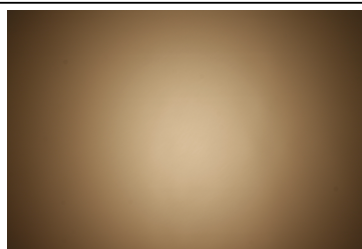
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU700/701/702
FWHM	24.0°
Efficiency	81 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL
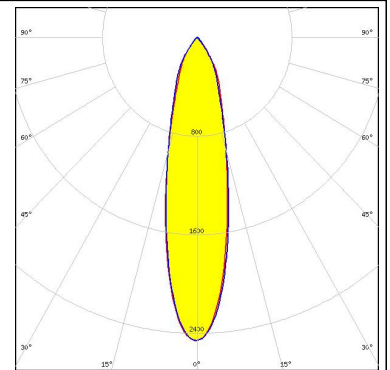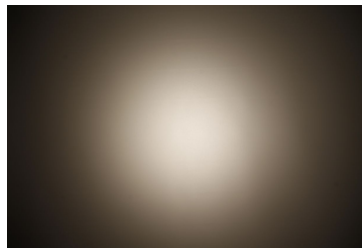
CITIZEN

LED	CLU700/701/702
FWHM	18.0°
Efficiency	82 %
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
FWHM	21.0°
Efficiency	82 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
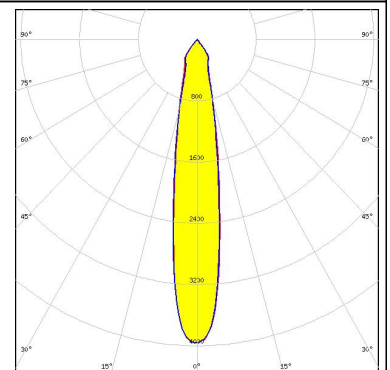 C13083_PF-SOCKET
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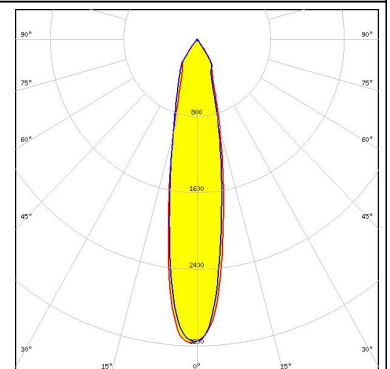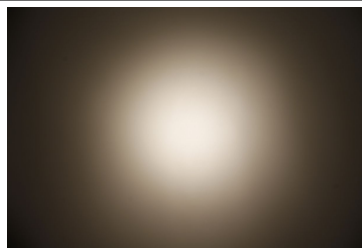
CITIZEN

LED	CLU700/701/702
FWHM	32.0°
Efficiency	81 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13723_MIRELLA-RZL

PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU700/701/702
FWHM	19.0°
Efficiency	78 %
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
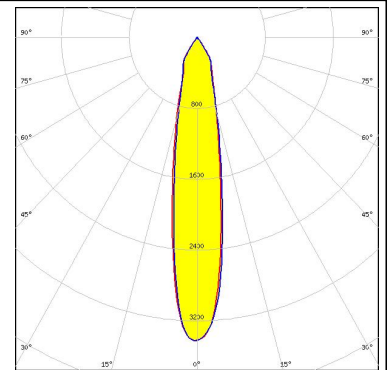
CITIZEN

LED	CLU700/701/702
FWHM	19.0°
Efficiency	87 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET

CITIZEN

LED	CLU700/701/702
FWHM	23.0°
Efficiency	77 %
Peak intensity	2.5 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	CLU720/721
FWHM	36.0°
Efficiency	73 %
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
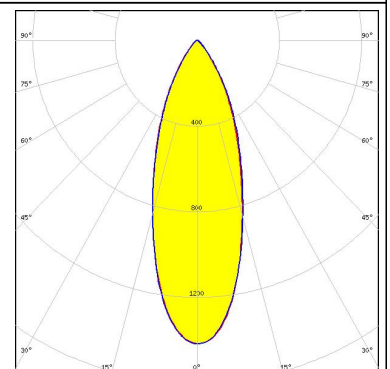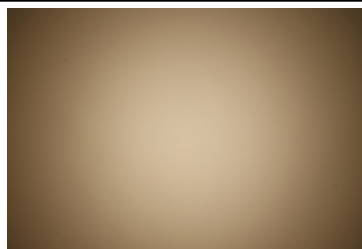
PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLU720/721
FWHM	29.0°
Efficiency	80 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
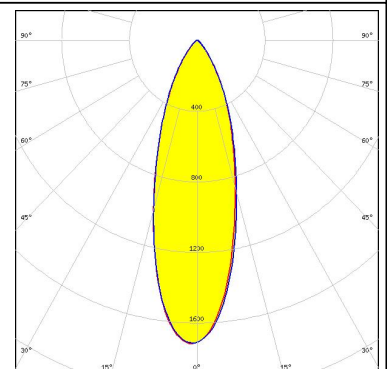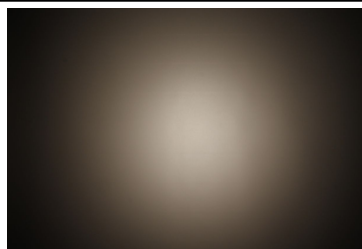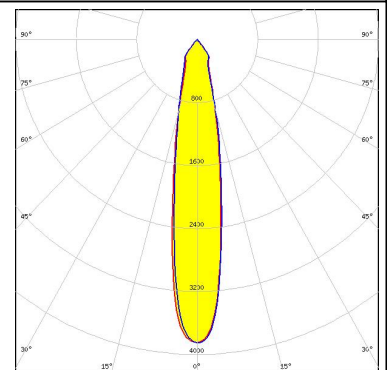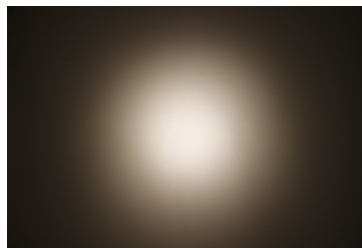C13709_PF-SOCKET-VERO13-18
Bender Wirth: 433 Typ L1

CITIZEN

LED	CLU720/721
FWHM	31.0°
Efficiency	76 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
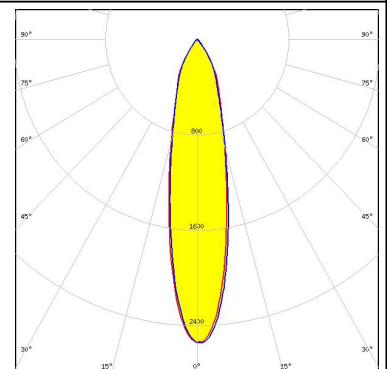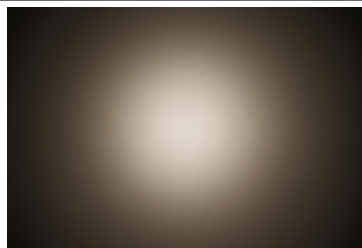C13333_MIRELLA-CL
Bender Wirth: 433 Typ L1

CREE

LED	CXA/B 13xx
FWHM	20.0°
Efficiency	85 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White

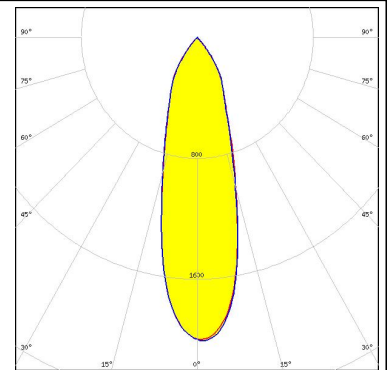Required components:
C13761_PF-SOCKET-CXA15

CREE

LED	CXA/B 13xx
FWHM	26.0°
Efficiency	80 %
Peak intensity	2.4 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 13xx
FWHM	23.0°
Efficiency	81 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13761_PF-SOCKET-CXA15
  C13333_MIRELLA-CL

CREE

LED	CXA/B 15xx
FWHM	31.0°
Efficiency	75 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
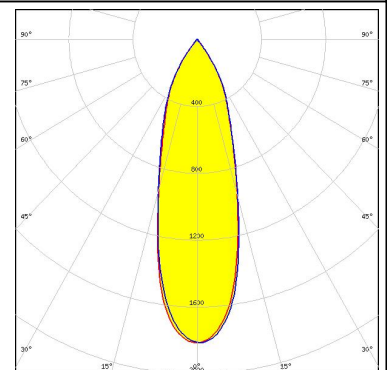 C12479_MIRELLA-DL
  Bender Wirth: 441 Typ L1

CREE

LED	CXA/B 15xx
FWHM	30.0°
Efficiency	83 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13761_PF-SOCKET-CXA15
  C13333_MIRELLA-CL

CREE
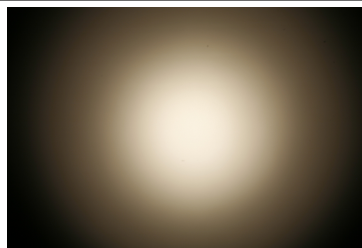
LED	CXA/B 15xx
FWHM	27.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13761_PF-SOCKET-CXA15

PHOTOMETRIC DATA (MEASURED):

CREE
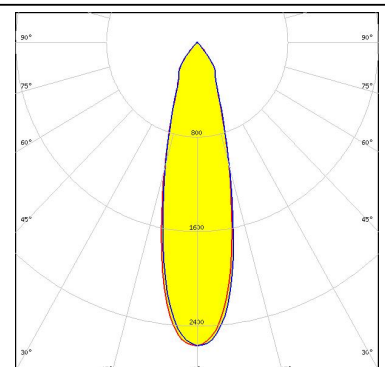
LED	CXA/B 15xx
FWHM	24.0°
Efficiency	83 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

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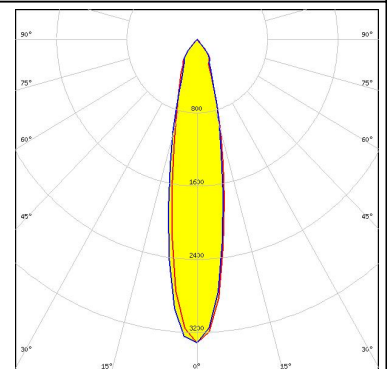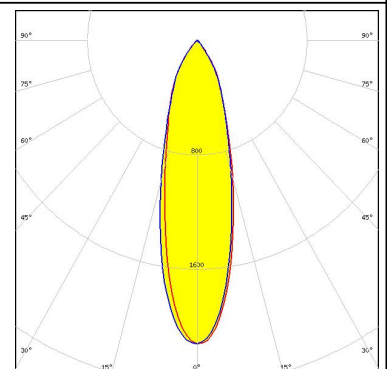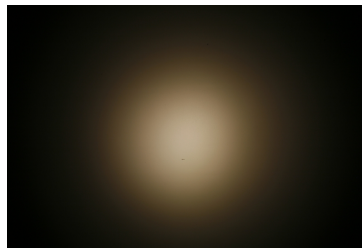   C13709_PF-SOCKET-VERO13-18
   Bender Wirth: 441 Typ L1

CREE
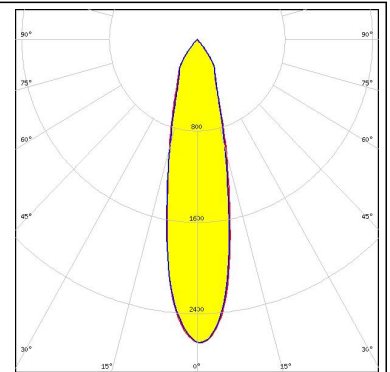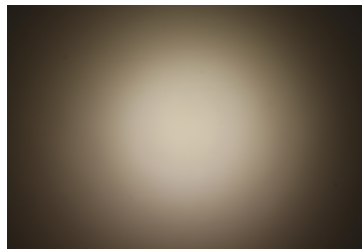
LED	CXA/B 15xx
FWHM	32.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

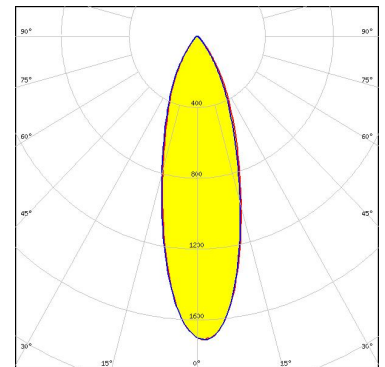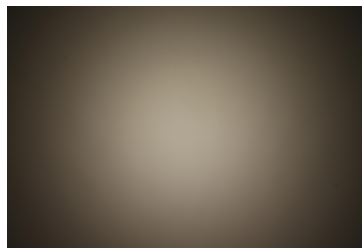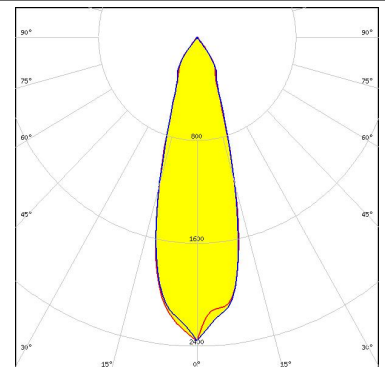Required components:
   C13761_PF-SOCKET-CXA15
   C12479_MIRELLA-DL

CREE
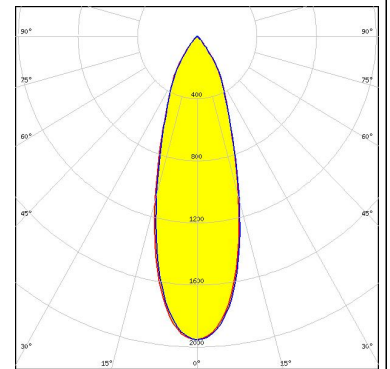
LED	CXA/B 15xx
FWHM	38.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
   C13761_PF-SOCKET-CXA15
   C13723_MIRELLA-RZL

CREE
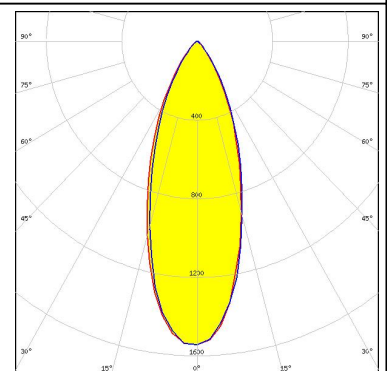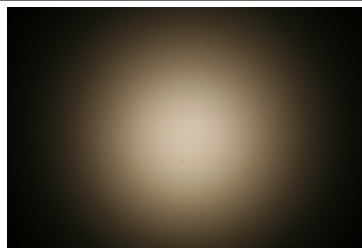
LED	CXA/B 15xx
FWHM	26.0°
Efficiency	78 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

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

PHOTOMETRIC DATA (MEASURED):

CREE⇕
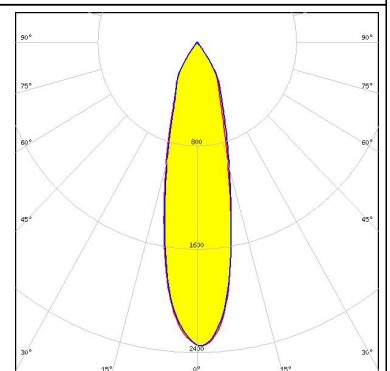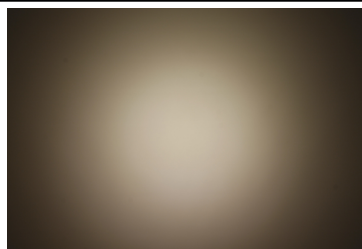
LED	MHD-E/G
FWHM	29.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL

CREE⇕
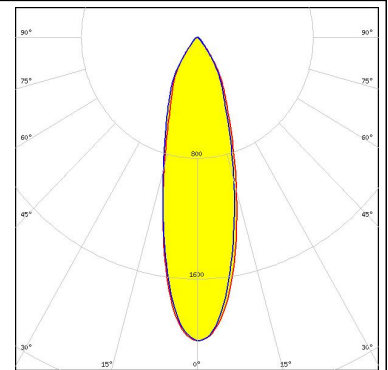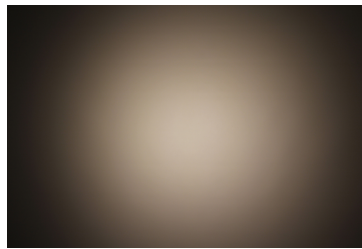
LED	MHD-E/G
FWHM	25.0°
Efficiency	85 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL

CREE⇕
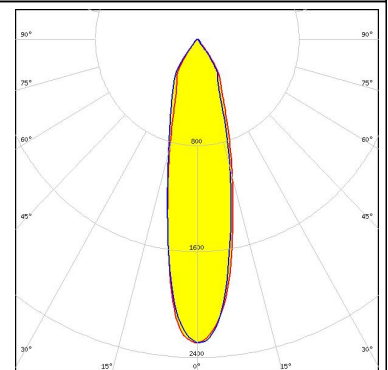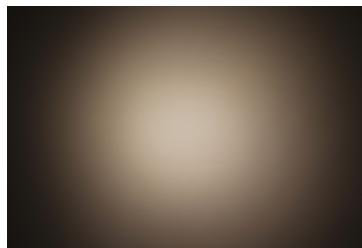
LED	MHD-E/G
FWHM	35.0 + 53.0°
Efficiency	83 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13723_MIRELLA-RZL
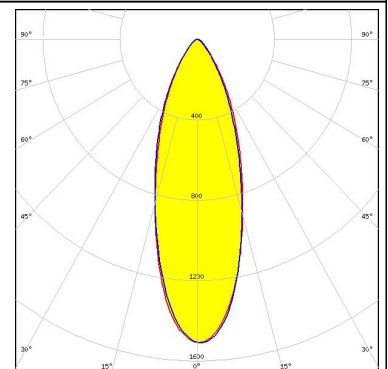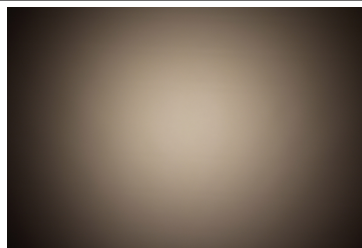
CREE⇕

LED	MHD-E/G
FWHM	23.0°
Efficiency	91 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET

PHOTOMETRIC DATA (MEASURED):

CREE

LED	MK-R
FWHM	23.0°
Efficiency	80 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL
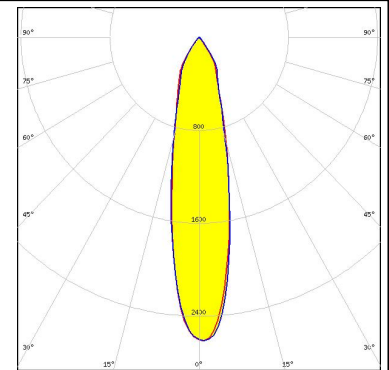
CREE

LED	MT-G
FWHM	36.0°
Efficiency	87 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL

CREE

LED	MT-G
FWHM	34.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL
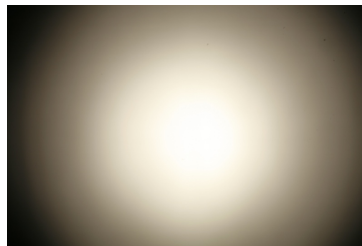
CREE

LED	MT-G
FWHM	28.0°
Efficiency	91 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
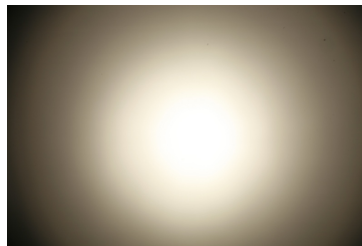
PHOTOMETRIC DATA (MEASURED):

CREE

LED	MT-G2
FWHM	30.0°
Efficiency	87 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL

CREE

LED	MT-G2
FWHM	25.0°
Efficiency	90 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
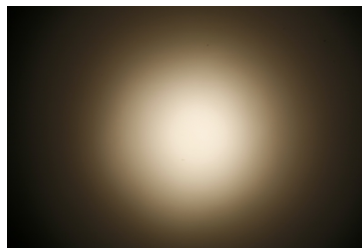
CREE

LED	MT-G2
FWHM	32.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

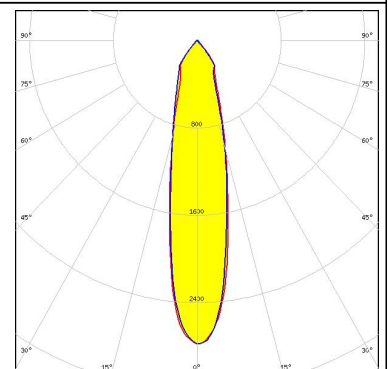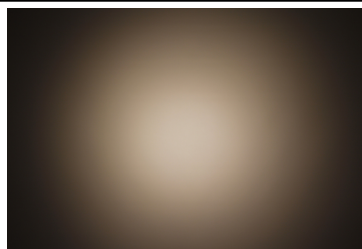Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL
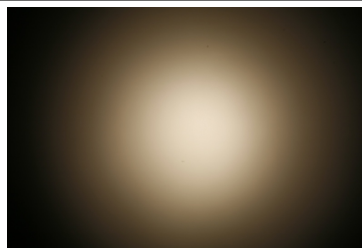
CREE

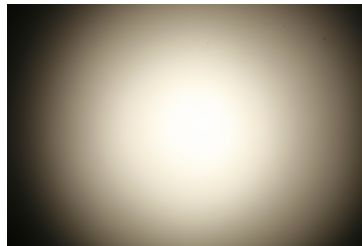|	
LED	XHP50
FWHM	31.0°
Efficiency	81 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL
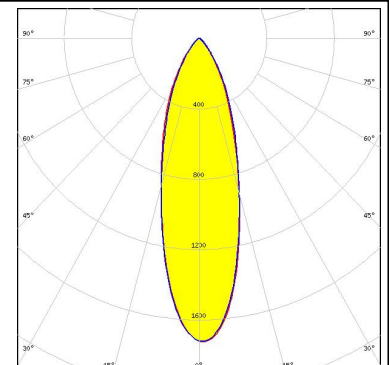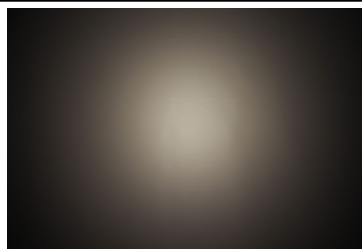
PHOTOMETRIC DATA (MEASURED):

CREE

LED	XHP50
FWHM	18.0°
Efficiency	88 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	
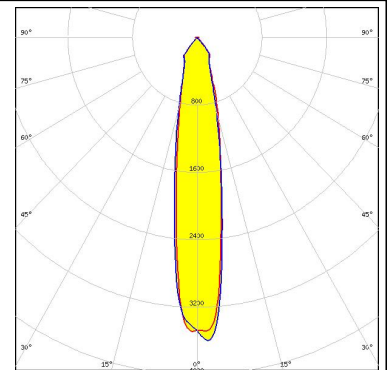
CREE

LED	XHP50
FWHM	24.0°
Efficiency	84 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	

CREE

LED	XHP50
FWHM	21.0°
Efficiency	83 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	
C13333_MIRELLA-CL	
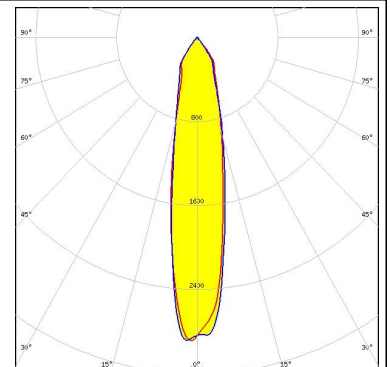
CREE

LED	XHP70
FWHM	24.0°
Efficiency	87 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	

PHOTOMETRIC DATA (MEASURED):

CREE
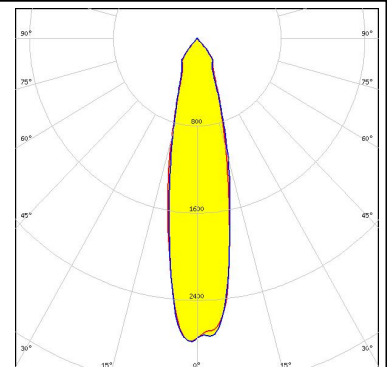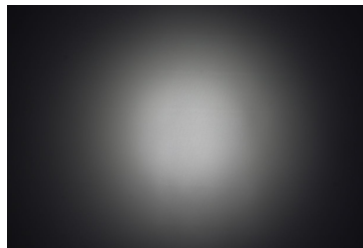
LED	XHP70
FWHM	28.0°
Efficiency	82 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL

CREE
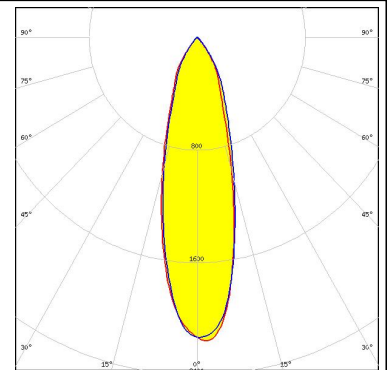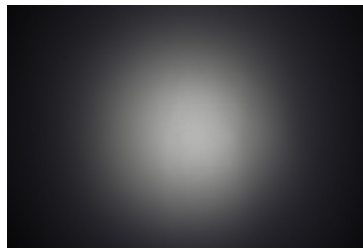
LED	XHP70
FWHM	27.0°
Efficiency	82 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL

CREE
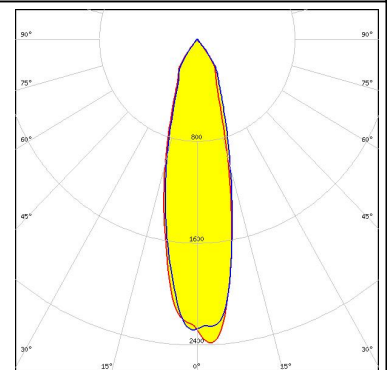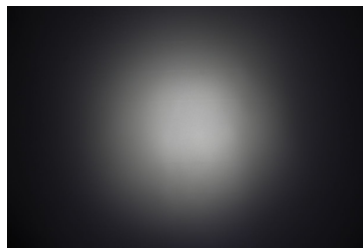
LED	XHP70
FWHM	33.0°
Efficiency	80 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL
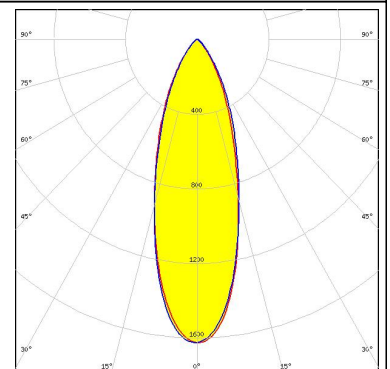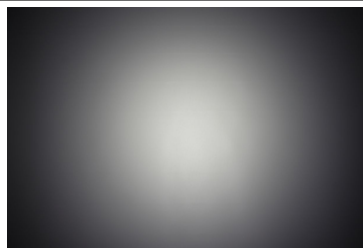
CREE

LED	XM-L RGB
FWHM	31.0°
Efficiency	79 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
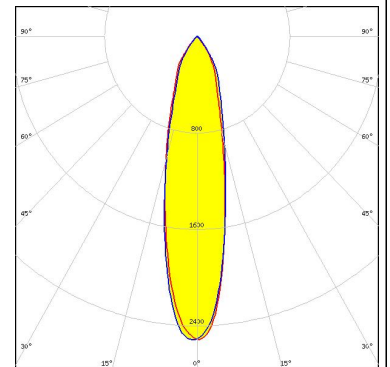C13723_MIRELLA-RZL
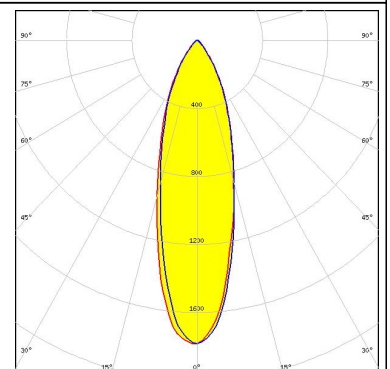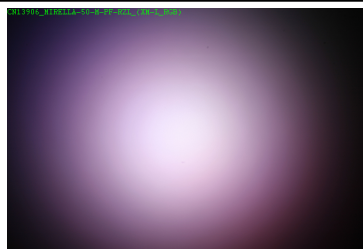
PHOTOMETRIC DATA (MEASURED):

CREE

LED	XQ-E HI
FWHM	30.0°
Efficiency	87 %
Peak intensity	2 cd/lm
LEDs/each optic	4
Light colour	RGBW

Required components:
  C13083_PF-SOCKET
  C13723_MIRELLA-RZL
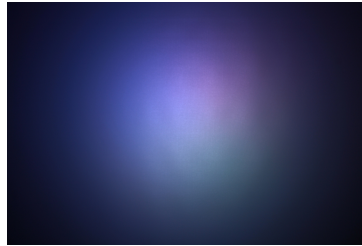
LG Innotek

LED	COB 4W
FWHM	23.0°
Efficiency	90 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET

LG Innotek

LED	COB 4W
FWHM	29.0°
Efficiency	85 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL
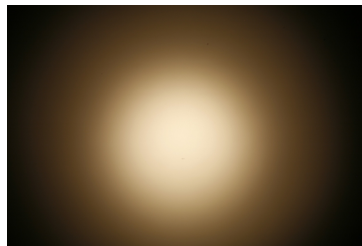
LG Innotek

LED	COB 4W
FWHM	23.0°
Efficiency	85 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL
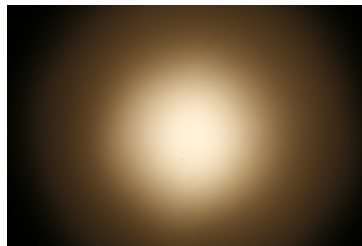
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	27.0°
Efficiency	77 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 438 Typ L1
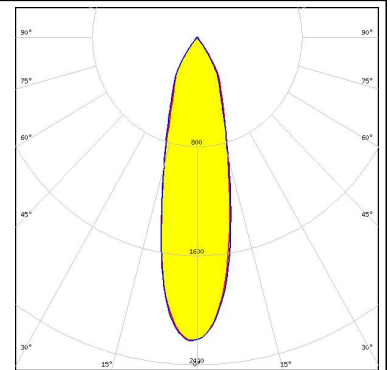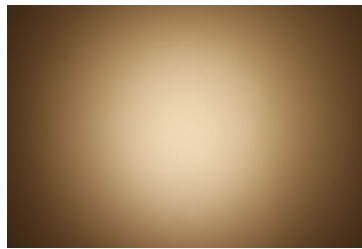
LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	27.0°
Efficiency	87 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C14037_PF-NSX-SOCKET
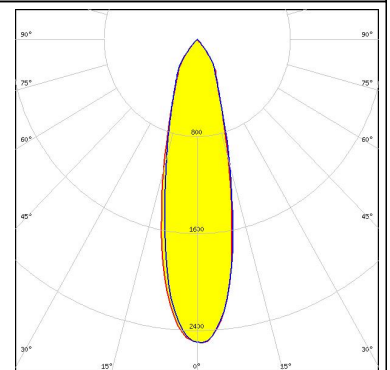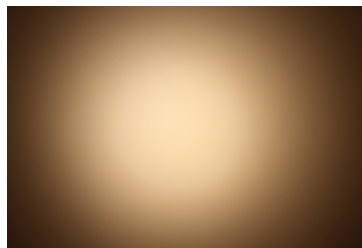
LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	30.0°
Efficiency	82 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C12479_MIRELLA-DL
- IDEAL: 50-2100NC +50-2100MR
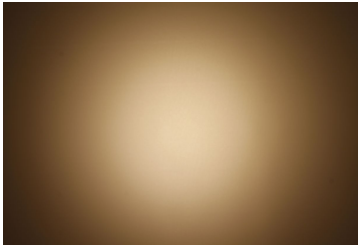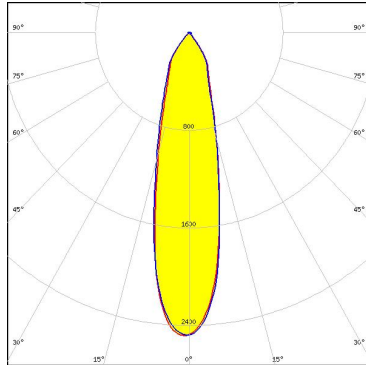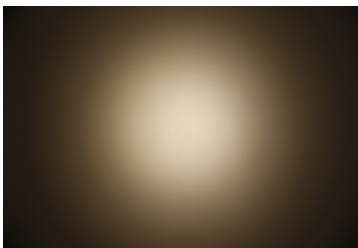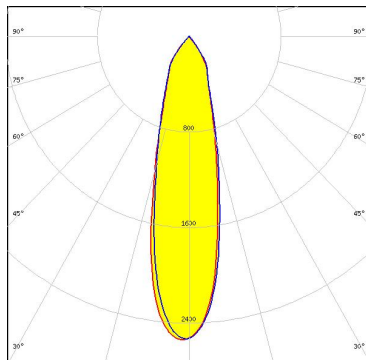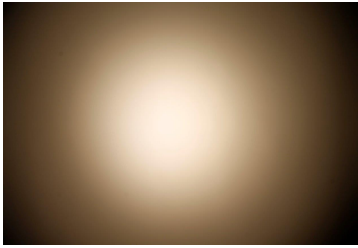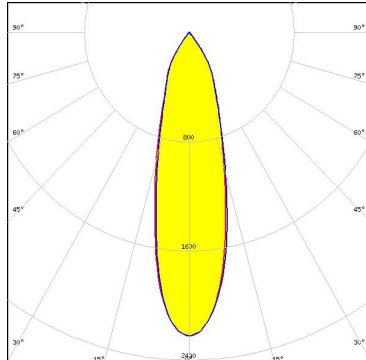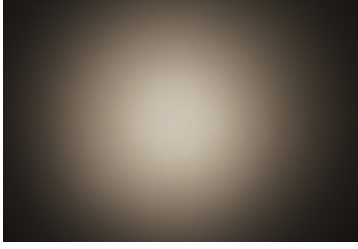
LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	32.0°
Efficiency	75 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C12479_MIRELLA-DL
- Bender Wirth: 438 Typ L1

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	25.0°
Efficiency	82 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  Bender Wirth: 438 Typ L1

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	25.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  IDEAL: 50-2100NC +50-2100MR

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM	28.0°
Efficiency	81 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13333_MIRELLA-CL
  IDEAL: 50-2100NC +50-2100MR

LUMILEDS

LED	LUXEON CoB 1202s
FWHM	26.0°
Efficiency	83 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13761_PF-SOCKET-CXA15
  C12479_MIRELLA-DL

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM	19.0°
Efficiency	81 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
   C13709_PF-SOCKET-VERO13-18
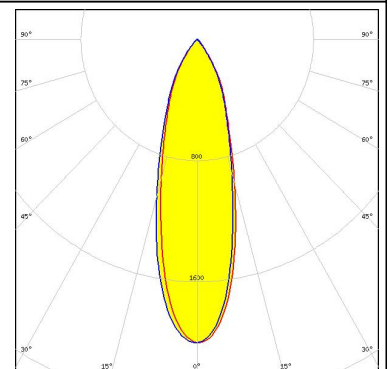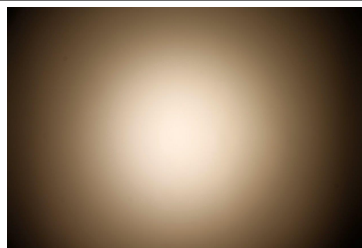   C13333_MIRELLA-CL
   Bender Wirth: 452 Typ L1
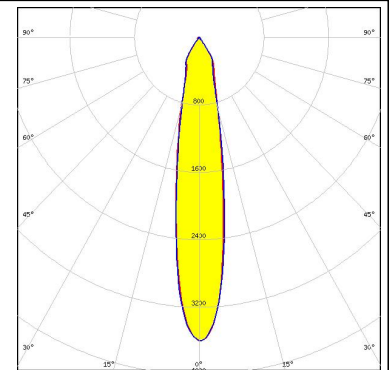
LUMILEDS

LED	LUXEON CoB 1202s
FWHM	25.0°
Efficiency	79 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
   C13709_PF-SOCKET-VERO13-18
   C12479_MIRELLA-DL
   Bender Wirth: 452 Typ L1
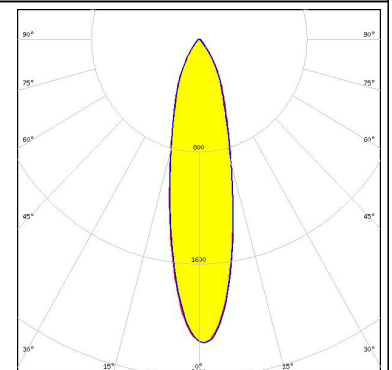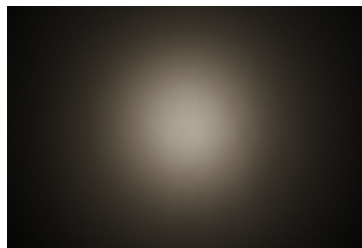
LUMILEDS

LED	LUXEON CoB 1202s
FWHM	17.0°
Efficiency	86 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
   C13709_PF-SOCKET-VERO13-18
   Bender Wirth: 452 Typ L1
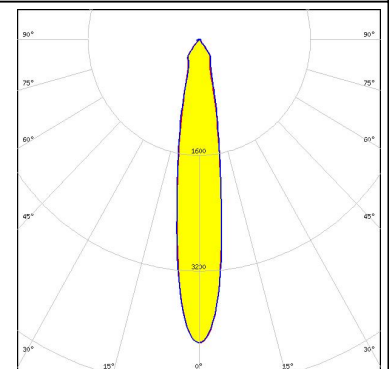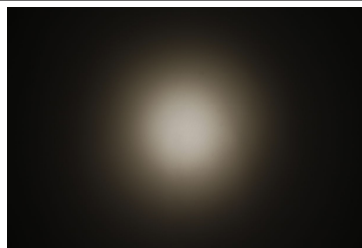
LUMILEDS

LED	LUXEON CoB 1202s
FWHM	20.0°
Efficiency	88 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
   C13761_PF-SOCKET-CXA15

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON CoB 1202s
FWHM	23.0°
Efficiency	83 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13761_PF-SOCKET-CXA15	
C13333_MIRELLA-CL	

LUMILEDS
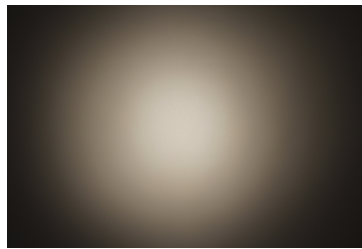
|	
LED	LUXEON Z
FWHM	28.0°
Efficiency	79 %
Peak intensity	2.1 cd/lm
LEDs/each optic	4
Light colour	RGBW
Required components:	
C13083_PF-SOCKET	
C13723_MIRELLA-RZL	

LUMINUS
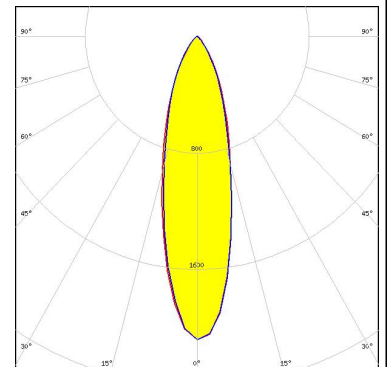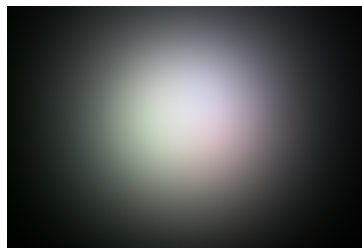
LED	CxM-6 (12x13)
FWHM	23.0°
Efficiency	85 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	

LUMINUS
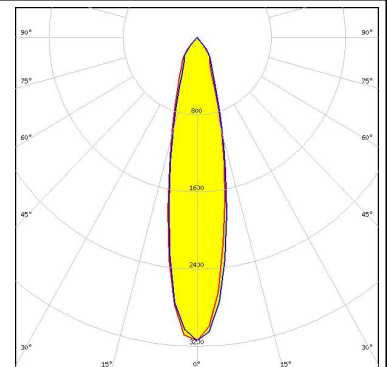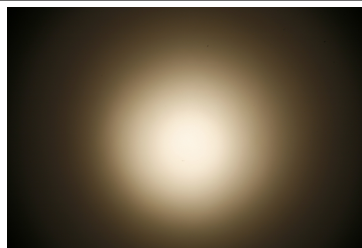
LED	CXM-7 (13x13)
FWHM	26.0°
Efficiency	86 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	

PHOTOMETRIC DATA (MEASURED):

LUMINUS
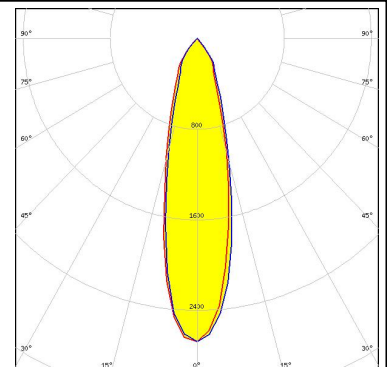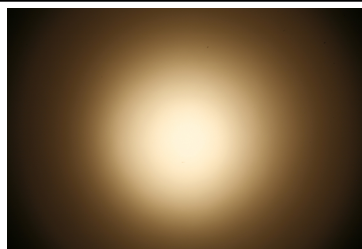
LED	CxM-9 (13.5x13.5)
FWHM	38.0°
Efficiency	82 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13723_MIRELLA-RZL

LUMINUS
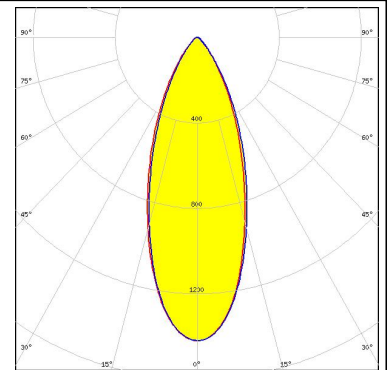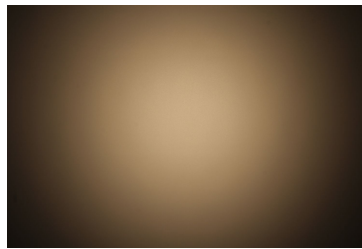
LED	CxM-9 (13.5x13.5)
FWHM	30.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET

LUMINUS
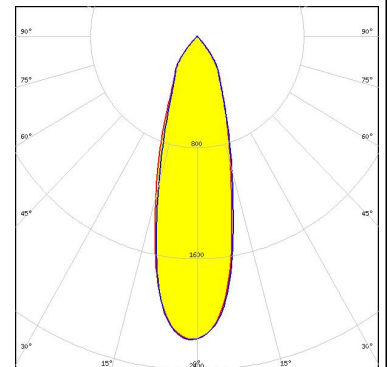
LED	CxM-9 (13.5x13.5)
FWHM	35.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL

LUMINUS
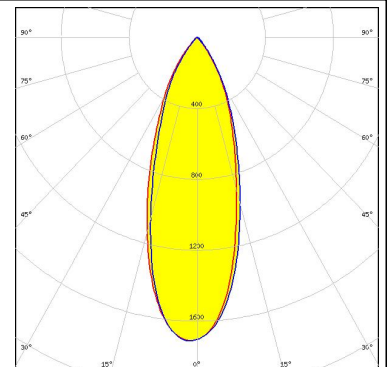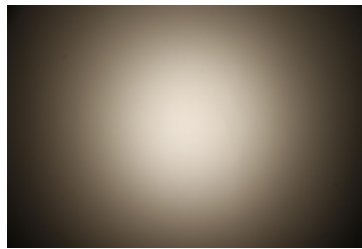
LED	CxM-9 (13.5x13.5)
FWHM	33.0°
Efficiency	84 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL

PHOTOMETRIC DATA (MEASURED):

NICHIA
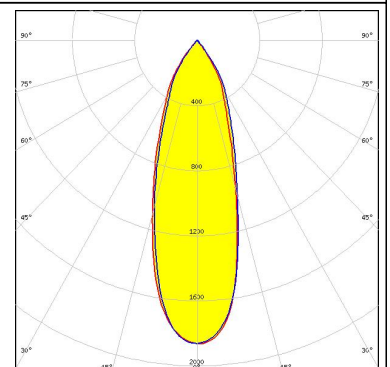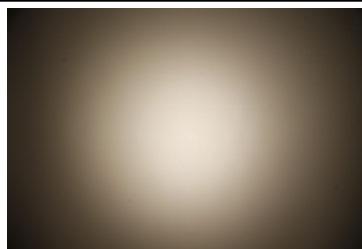
LED	COB L-Type (LES 11)
FWHM	33.0°
Efficiency	77 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
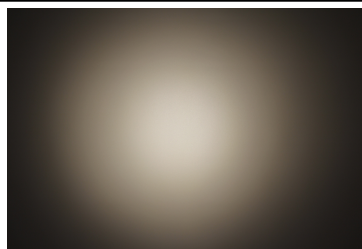C13333_MIRELLA-CL
Bender Wirth: 438 Typ L1

NICHIA
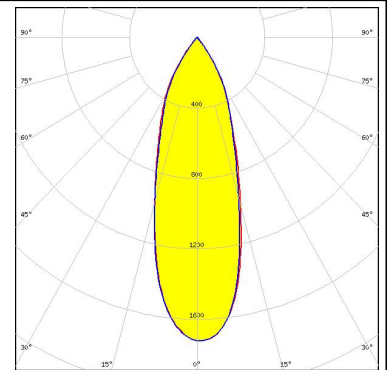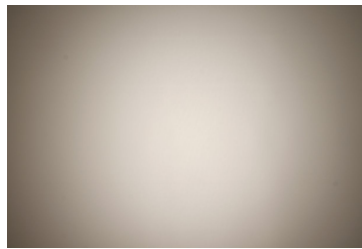
LED	COB L-Type (LES 11)
FWHM	35.0°
Efficiency	80 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C12479_MIRELLA-DL
IDEAL: 50-2100NC +50-2100MR

NICHIA
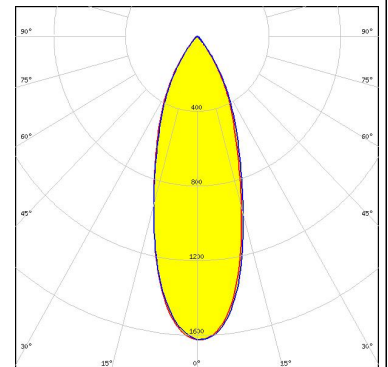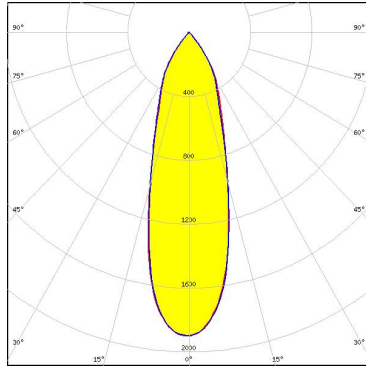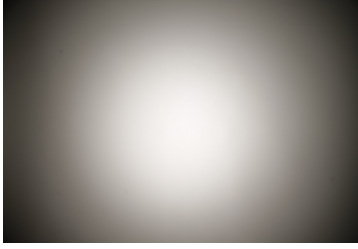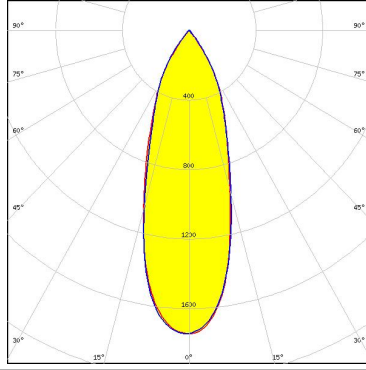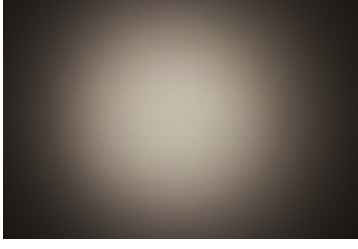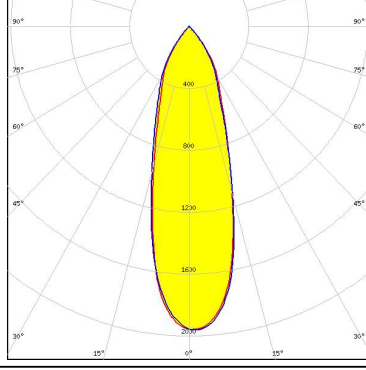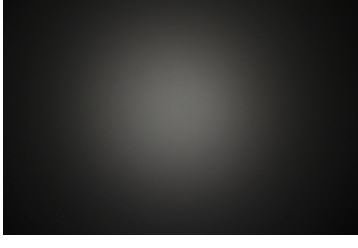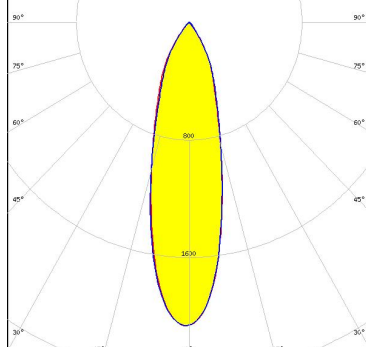
LED	COB L-Type (LES 11)
FWHM	37.0°
Efficiency	76 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 438 Typ L1

NICHIA

LED	COB L-Type (LES 11)
FWHM	35.0°
Efficiency	84 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14037_PF-NSX-SOCKET

PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 11)
FWHM	31.0°
Efficiency	81 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 438 Typ L1

NICHIA

LED	COB L-Type (LES 11)
FWHM	34.0°
Efficiency	81 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL
IDEAL: 50-2100NC +50-2100MR

NICHIA

LED	COB L-Type (LES 11)
FWHM	31.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100NC +50-2100MR

NICHIA

LED	COB L-Type (LES 9)
FWHM	28.0°
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

PHOTOMETRIC DATA (MEASURED):

NICHIA

LED	COB L-Type (LES 9)
FWHM	25.0°
Efficiency	78 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 438 Typ L1

NICHIA

LED	COB L-Type (LES 9)
FWHM	27.0°
Efficiency	82 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13333_MIRELLA-CL
IDEAL: 50-2100NC +50-2100MR

NICHIA
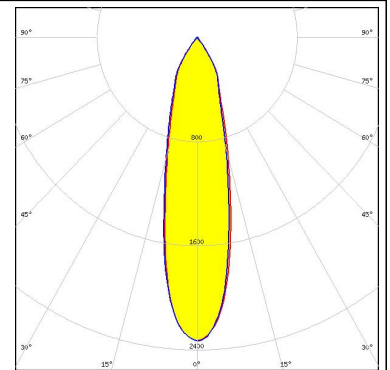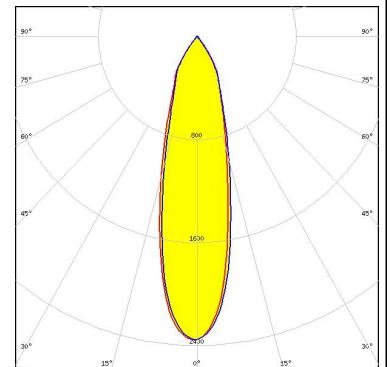
LED	COB L-Type (LES 9)
FWHM	23.0°
Efficiency	76 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2100NC +50-2100MR

NICHIA
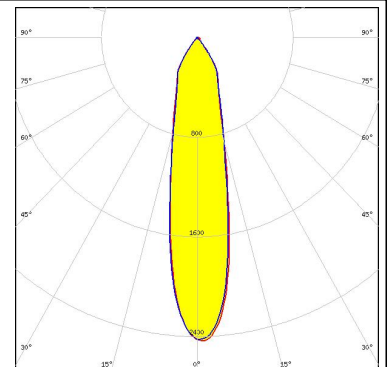
LED	COB L-Type (LES 9)
FWHM	27.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14037_PF-NSX-SOCKET

PHOTOMETRIC DATA (MEASURED):

NICHIA
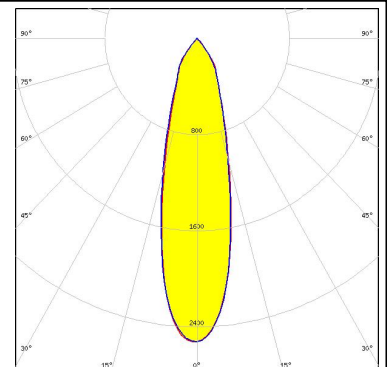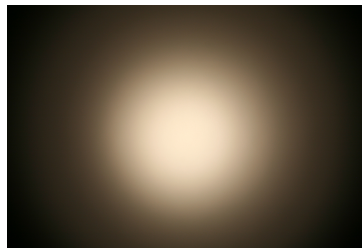
LED	COB L-Type (LES 9)
FWHM	31.0°
Efficiency	76 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
C12479_MIRELLA-DL
Bender Wirth: 438 Typ L1

NICHIA
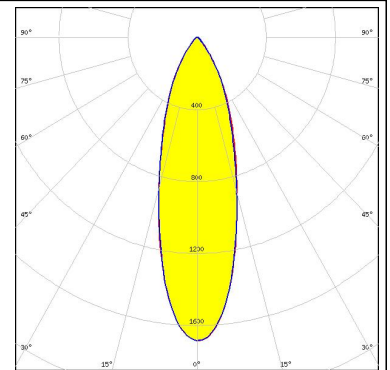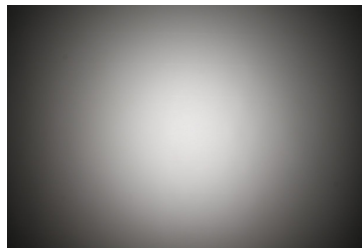
LED	COB L-Type (LES 9)
FWHM	24.0°
Efficiency	84 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
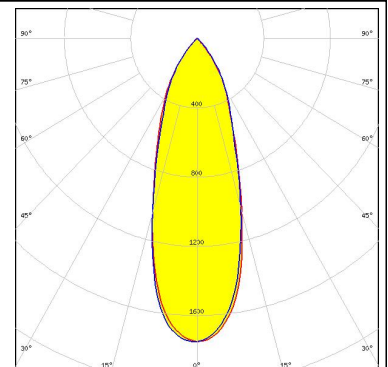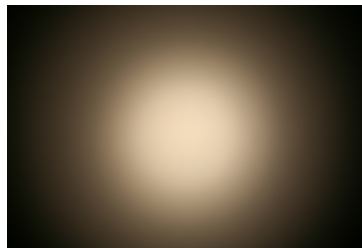C13709_PF-SOCKET-VERO13-18
Bender Wirth: 438 Typ L1

NICHIA
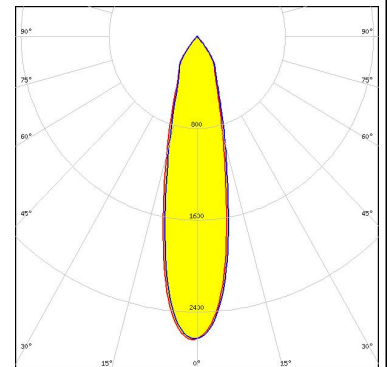
LED	NSCxL036A
FWHM	22.0°
Efficiency	85 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14037_PF-NSX-SOCKET

OSRAM
Opto Semiconductors
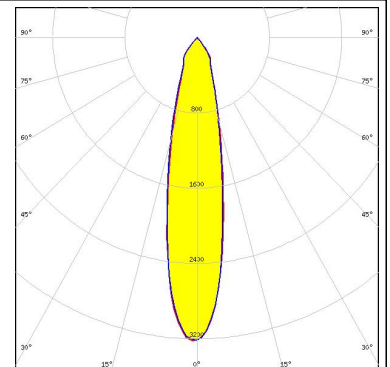
LED	Duris S10
FWHM	25.0°
Efficiency	82 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL
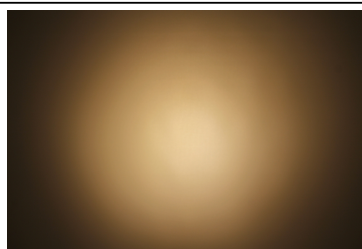
PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED	Duris S10
FWHM	33.0°
Efficiency	81 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL

OSRAM Opto Semiconductors

LED	Duris S10
FWHM	21.0°
Efficiency	87 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
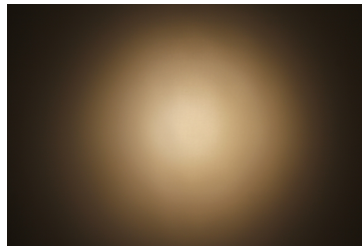
OSRAM Opto Semiconductors

LED	Duris S10
FWHM	31.0°
Efficiency	80 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL
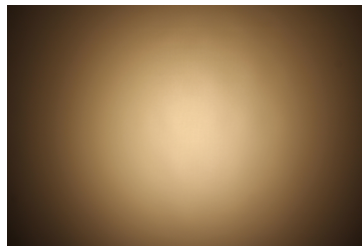
OSRAM Opto Semiconductors

LED	OSTAR Stage (S2WP)
FWHM	27.0°
Efficiency	83 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13723_MIRELLA-RZL
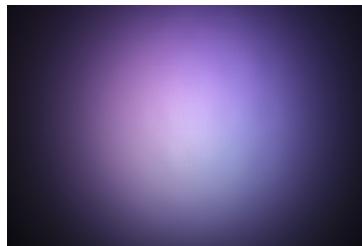
PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED	Ostar-SMT RGB
FWHM	29.0°
Efficiency	80 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13723_MIRELLA-RZL
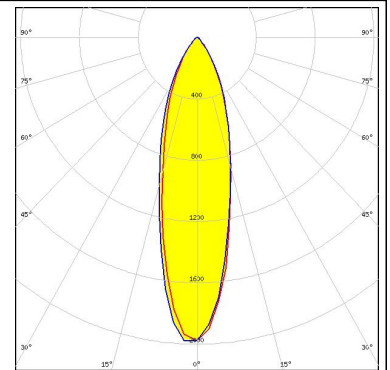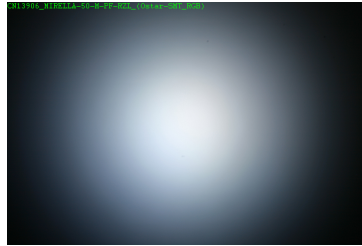
SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	31.0°
Efficiency	82 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C13333_MIRELLA-CL
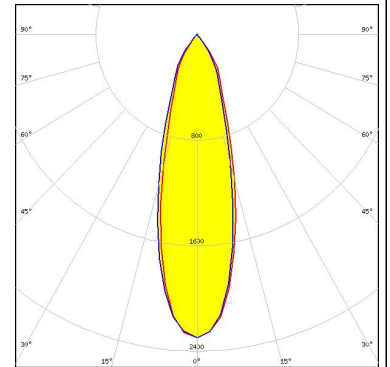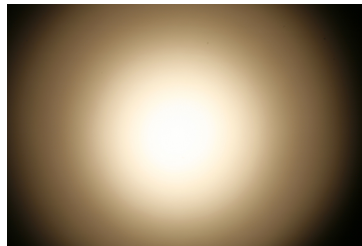
SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
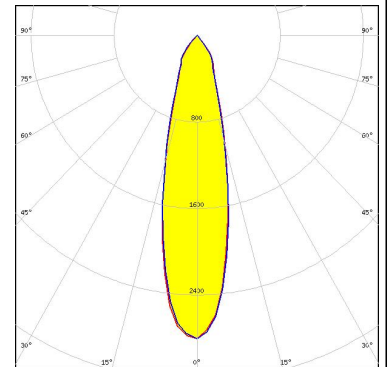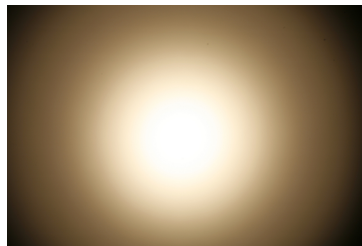
SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	32.0°
Efficiency	83 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13083_PF-SOCKET
  C12479_MIRELLA-DL
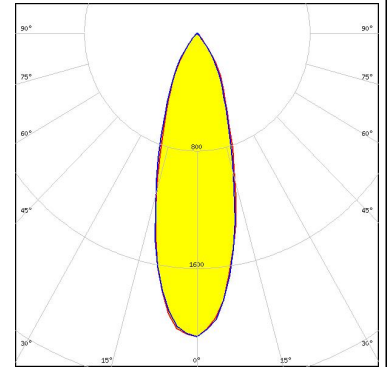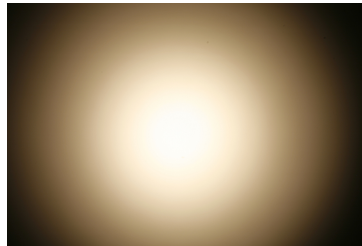
PHOTOMETRIC DATA (MEASURED):

SHARP

LED	Mini Zenigata (GW6BM)
FWHM	25.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
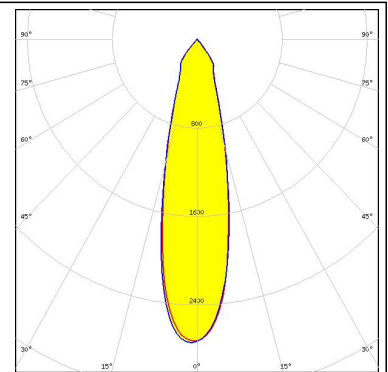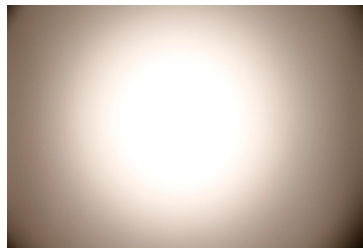
SHARP

LED	Mini Zenigata (GW6BM)
FWHM	30.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C12479_MIRELLA-DL
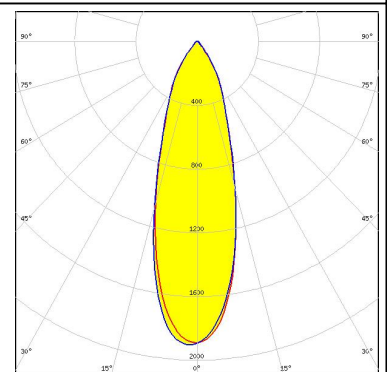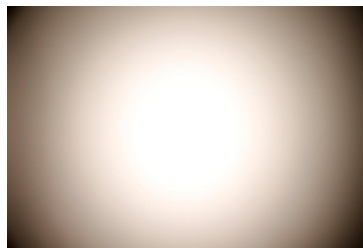
SHARP

LED	Mini Zenigata (GW6BM)
FWHM	28.0°
Efficiency	83 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL
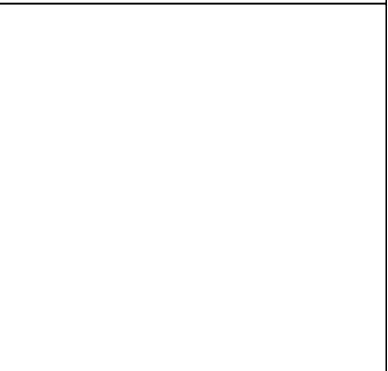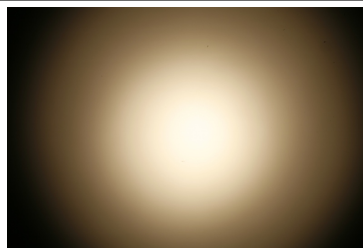
XICATO

LED	XTM - 9mm LES
FWHM	25.0°
Efficiency	82 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14636_XTM-PF-ADAPTER
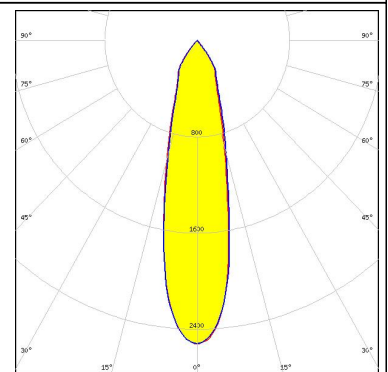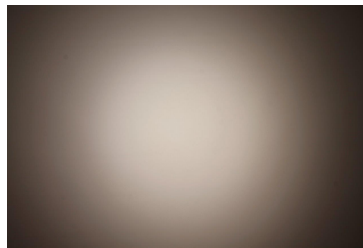
PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON CoB Compact
FWHM	26.0°
Efficiency	83 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13761_PF-SOCKET-CXA15
C12479_MIRELLA-DL

LUMILEDS

LED	LUXEON CoB Compact
FWHM	20.0°
Efficiency	88 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13761_PF-SOCKET-CXA15

LUMILEDS

LED	LUXEON CoB Compact
FWHM	25.0°
Efficiency	79 %
Peak intensity	2.2 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 Compact
FWHM	17.0°
Efficiency	86 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 452 Typ L1

PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON CoB Compact
FWHM	19.0°
Efficiency	81 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13709_PF-SOCKET-VERO13-18
- C13333_MIRELLA-CL
- Bender Wirth: 452 Typ L1

LUMILEDS

LED	LUXEON CoB Compact
FWHM	23.0°
Efficiency	83 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13761_PF-SOCKET-CXA15
- C13333_MIRELLA-CL

LUMILEDS

LED	LUXEON K4
FWHM	44.0°
Efficiency	83 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13761_PF-SOCKET-CXA15
- C12479_MIRELLA-DL

LUMILEDS

LED	LUXEON K4
FWHM	30.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
- C13761_PF-SOCKET-CXA15

PHOTOMETRIC DATA (SIMULATED):

LUMINUS
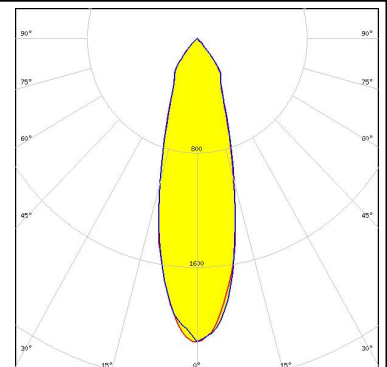
LED	CxM-14 (19x19)
FWHM	42.0°
Efficiency	70 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18
  C12479_MIRELLA-DL
  Bender Wirth: 433 Typ L1

LUMINUS

LED	CxM-14 (19x19)
FWHM	38.0°
Efficiency	75 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
  C13709_PF-SOCKET-VERO13-18

LUMINUS

LED	CxM-14 (19x19)
FWHM	41.0°
Efficiency	71 %
Peak intensity	1.2 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-9 (13.5x13.5)
FWHM	33.0°
Efficiency	76 %
Peak intensity	1.6 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 (SIMULATED):

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM	26.0°
Efficiency	84 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

LUMINUS

LED	CxM-9 (13.5x13.5)
FWHM	28.0°
Efficiency	79 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 434 Typ L1

NICHIA

LED	COB S-Type (LES 7)
FWHM	25.0°
Efficiency	79 %
Peak intensity	2.2 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	17.0°
Efficiency	86 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 452 Typ L1
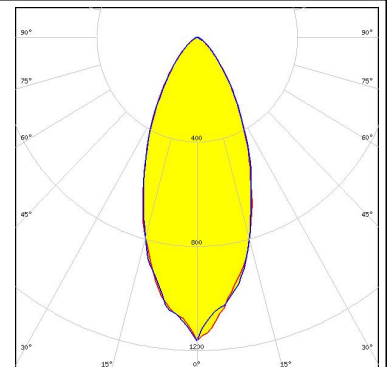
PHOTOMETRIC DATA (SIMULATED):

NICHIA

LED	COB S-Type (LES 7)
FWHM	19.0°
Efficiency	81 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 452 Typ L1

OSRAM
Opto Semiconductors

LED	Soleriq S15
FWHM	38.0°
Efficiency	85 %
Peak intensity	1.6 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	23.0°
Efficiency	88 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

OSRAM
Opto Semiconductors

LED	Soleriq S9
FWHM	32.0°
Efficiency	85 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13083_PF-SOCKET
C13333_MIRELLA-CL

PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

LED	Soleriq S9
FWHM	32.0°
Efficiency	85 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	
C12479_MIRELLA-DL	

OSRAM Opto Semiconductors

LED	Soleriq S9
FWHM	27.0°
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	

OSRAM Opto Semiconductors

LED	Soleriq S9
FWHM	32.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13083_PF-SOCKET	
C13723_MIRELLA-RZL	

SAMSUNG

LED	LC010C
FWHM	17.0°
Efficiency	87 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13709_PF-SOCKET-VERO13-18	
Bender Wirth: 479 Typ L1	

PHOTOMETRIC DATA (SIMULATED):

SAMSUNG

LED	LC020C
FWHM	20.0°
Efficiency	86 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
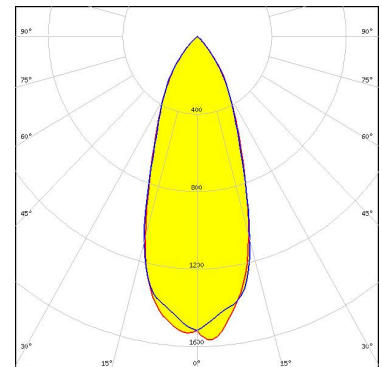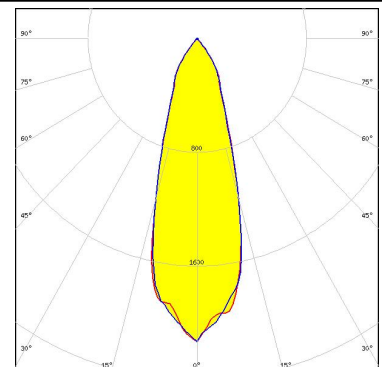C13709_PF-SOCKET-VERO13-18
Bender Wirth: 479 Typ L1
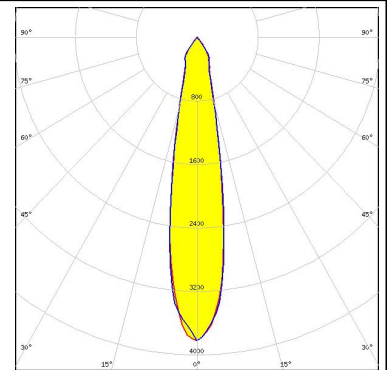
SAMSUNG

LED	LC040C
FWHM	28.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
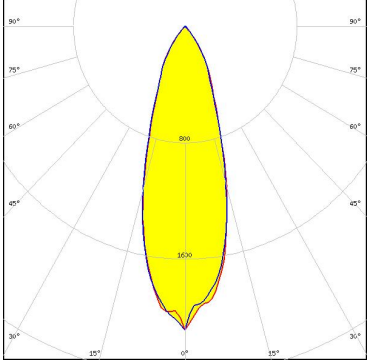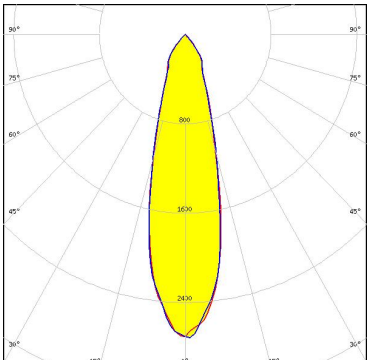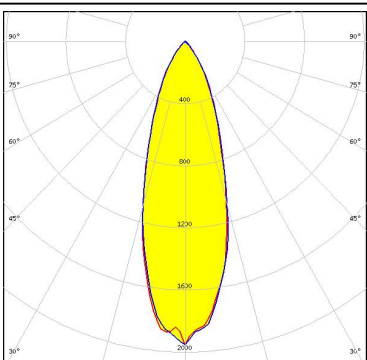C13709_PF-SOCKET-VERO13-18
Bender Wirth: 480 Typ L1
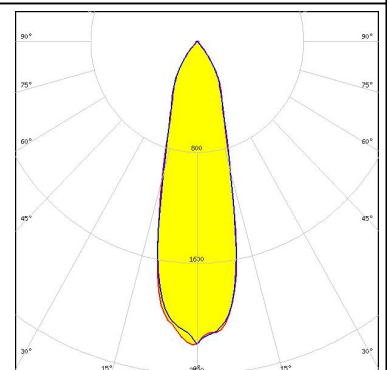
SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	26.0°
Efficiency	84 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
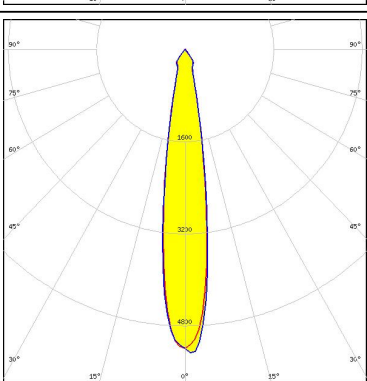C13709_PF-SOCKET-VERO13-18
Bender Wirth: 434 Typ L1

SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	28.0°
Efficiency	79 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13709_PF-SOCKET-VERO13-18
C13333_MIRELLA-CL
Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):

SEOUL
SEOUL SEMICONDUCTOR

LED	ZC4/6
FWHM	33.0°
Efficiency	76 %
Peak intensity	1.6 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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LEDiL Oy
Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.
228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support
www.ledil.com/
where_to_buy

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy