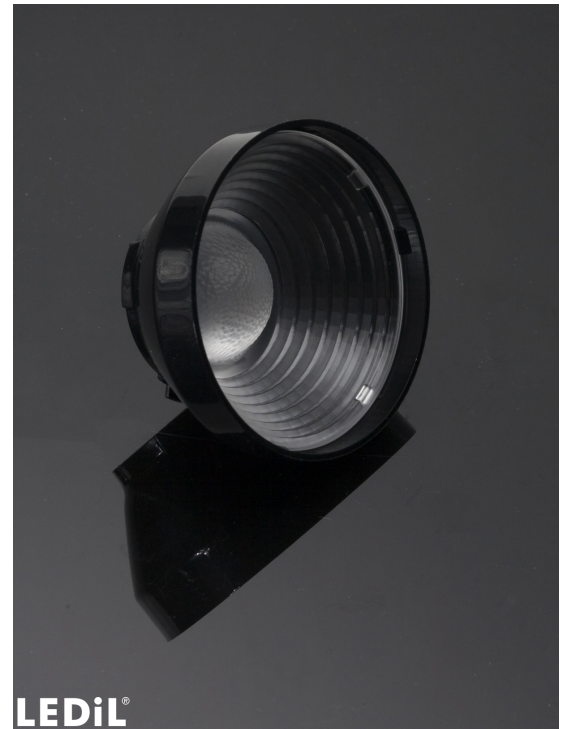


CARMEN-50-W-C

~55° wide beam. Assembly with holder C compatible with LEDiL HEKLA.

SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	25.5 mm
Fastening	socket
ROHS compliant	yes ⓘ

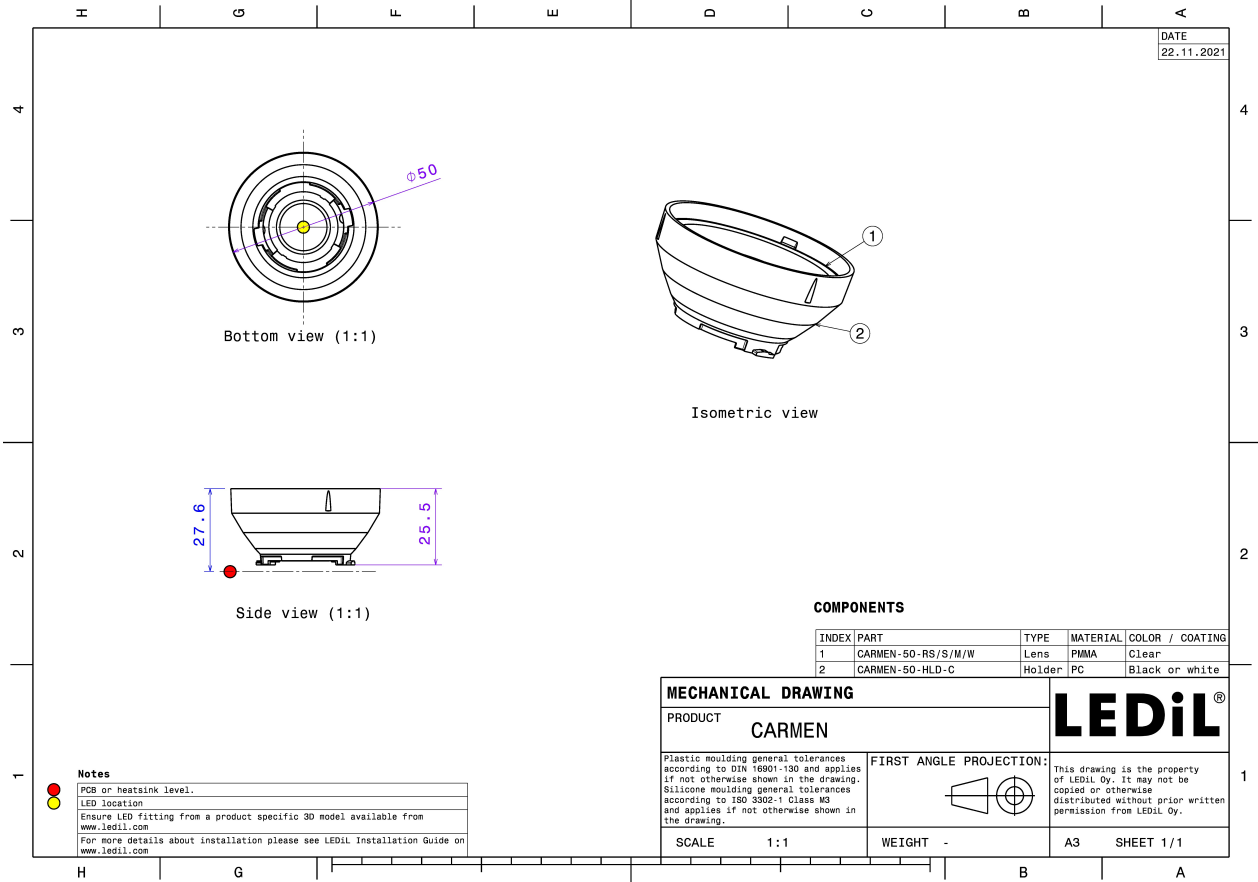


MATERIALS:

Component	Type	Material	Colour	Finish
CARMEN-50-W	Single lens	PMMA	clear	
CARMEN-50-HLD-C	Holder	PC	black	



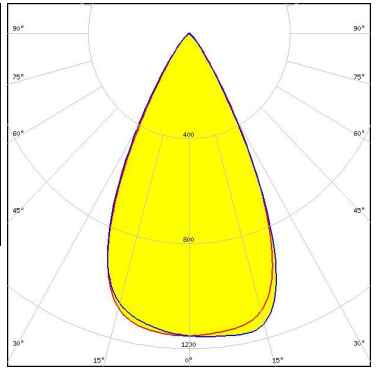


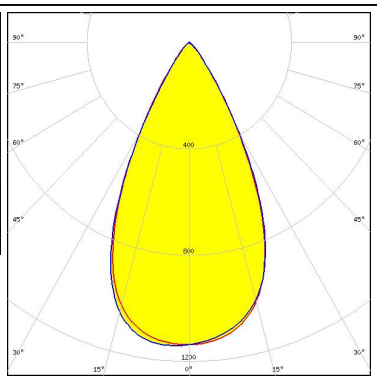

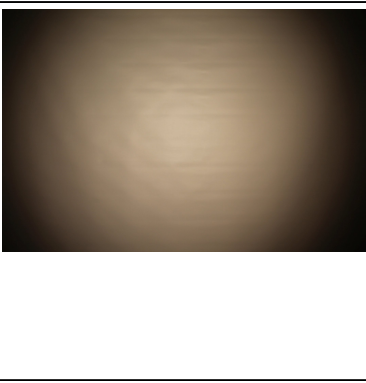
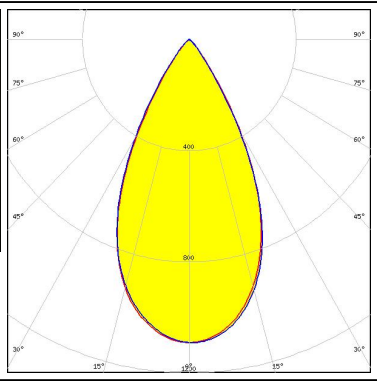


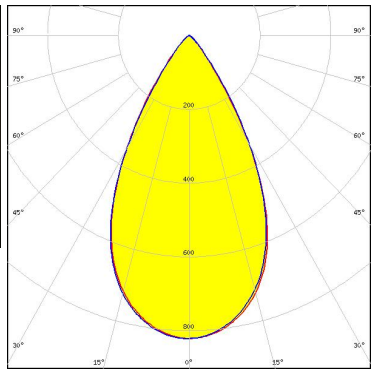
ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CP16109_CARMEN-50-W-C » Box size: 476 x 273 x 292 mm	Single lens	308	112	28	5.7



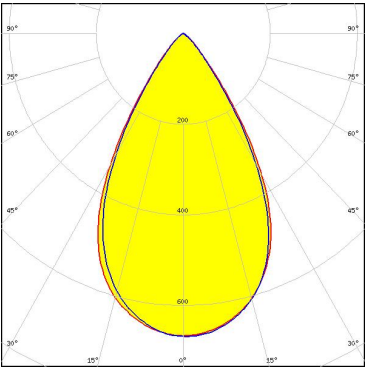


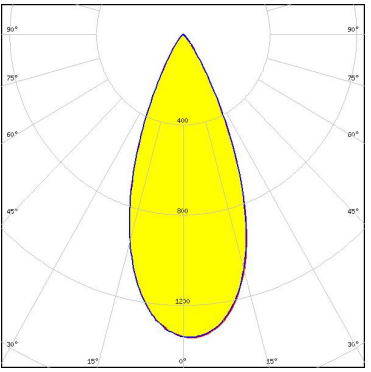

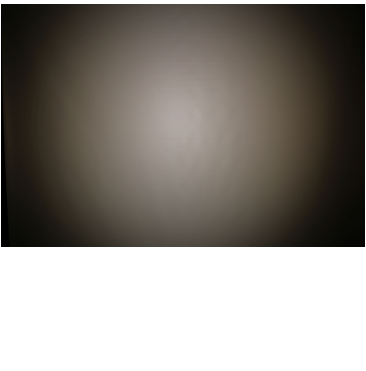
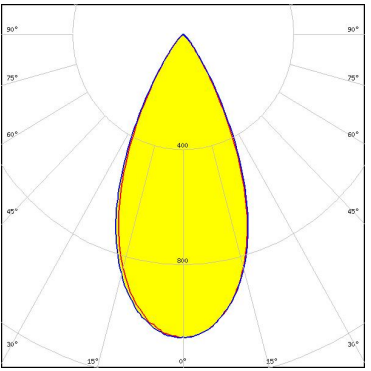

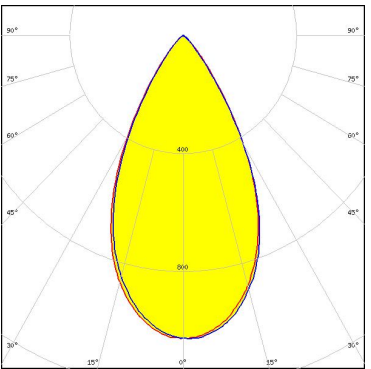


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V4 HD Gen 7</p> <p>FWHM / FWTM 54.0° / 75.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V6 HD Gen 7</p> <p>FWHM / FWTM 53.0° / 76.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V9 HD Gen7</p> <p>FWHM / FWTM 53.0° / 76.0°</p> <p>Efficiency 80 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED VERO13</p> <p>FWHM / FWTM 56.0° / 80.0°</p> <p>Efficiency 68 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>		

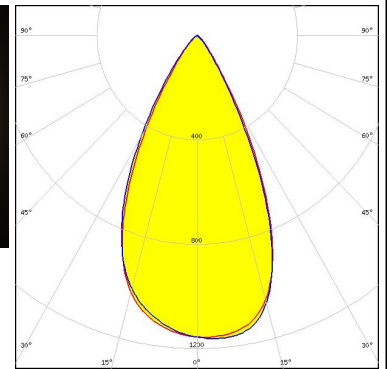
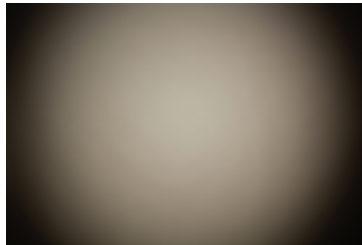
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta DTW 13mm (21W) FWHM / FWTM 60.0° / 85.0° Efficiency 62 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 43.0° / 67.0° Efficiency 71 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (9W) DP FWHM / FWTM 48.0° / 73.0° Efficiency 68 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 489 Typ L8</p>		
<p>CITIZEN</p> <p>LED CLL02x/CLU02x (LES10) FWHM / FWTM 54.0° / 81.0° Efficiency 80 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

OPTICAL RESULTS (MEASURED):

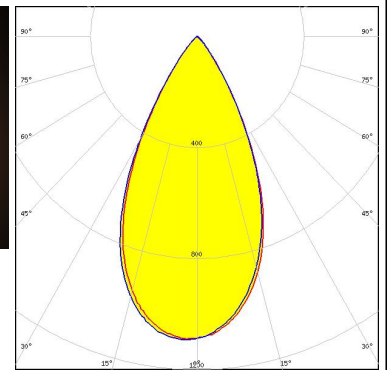
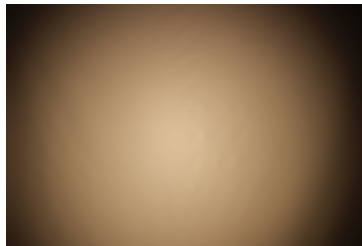
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 52.0° / 76.0°
 Efficiency 85 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



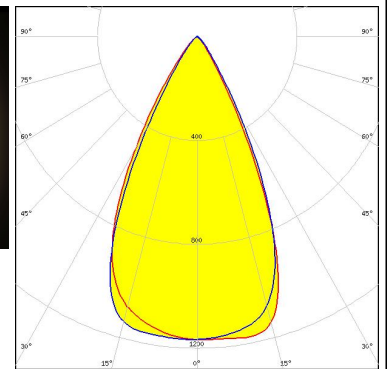
CITIZEN

LED CLU710/711
 FWHM / FWTM 52.0° / 77.0°
 Efficiency 78 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



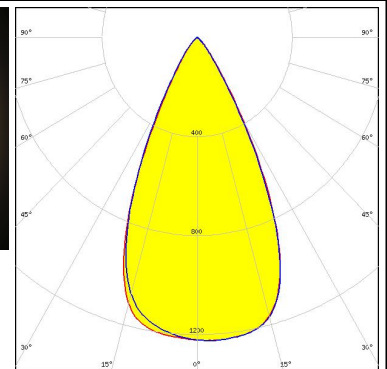
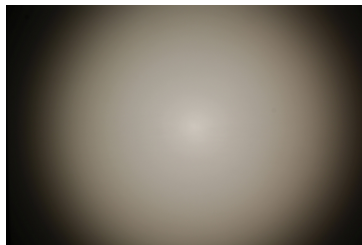
CITIZEN

LED CLU7A2/7A3
 FWHM / FWTM 53.0° / 73.0°
 Efficiency 87 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C

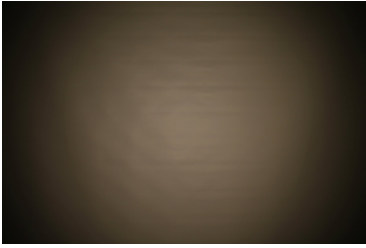
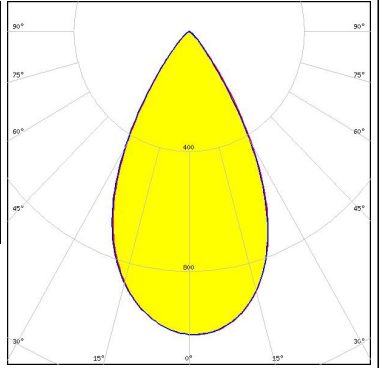

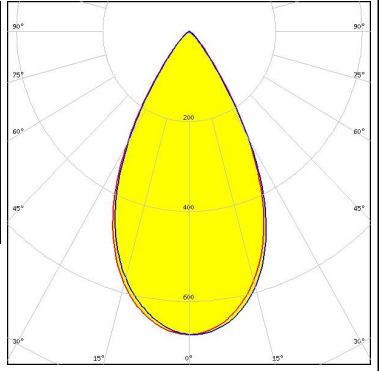
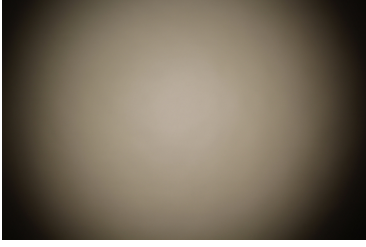
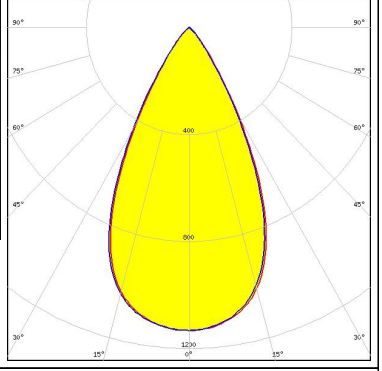
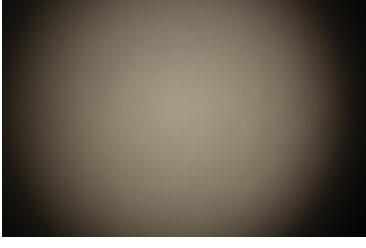
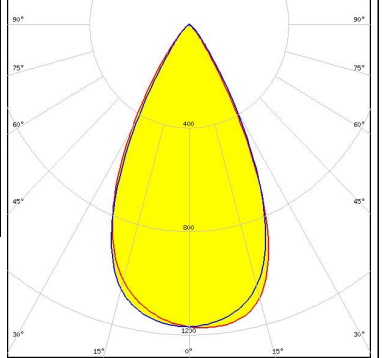


CITIZEN

LED CLU7B2
 FWHM / FWTM 51.0° / 72.0°
 Efficiency 85 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



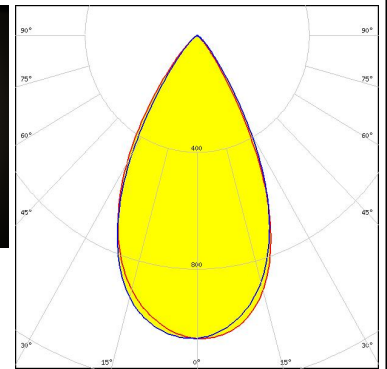
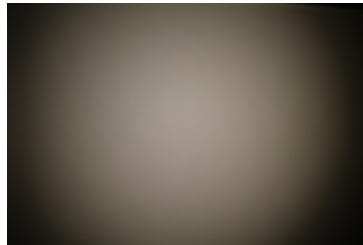
OPTICAL RESULTS (MEASURED):

<p>CREE LEDs</p> <p>LED CMA1516 FWHM / FWTM 57.0° / 81.0° Efficiency 83 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: F15256_HEKLA-SOCKET-D</p>		
<p>CREE LEDs</p> <p>LED CMT14xx FWHM / FWTM 55.0° / 81.0° Efficiency 54 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>CREE LEDs</p> <p>LED CXA/B 13xx FWHM / FWTM 54.0° / 77.0° Efficiency 86 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J</p>		
<p>CREE LEDs</p> <p>LED CXA/B 13xx FWHM / FWTM 54.0° / 76.0° Efficiency 88 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J</p>		

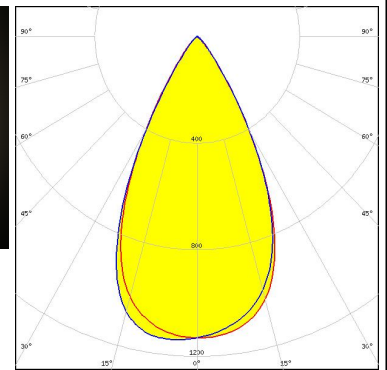
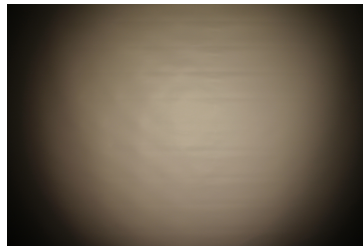
OPTICAL RESULTS (MEASURED):



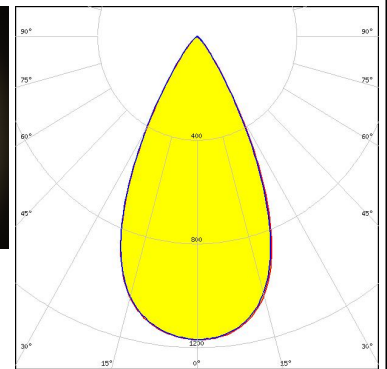
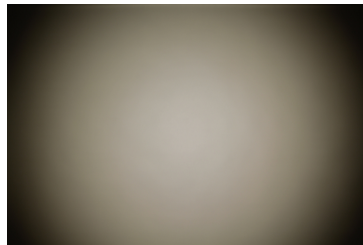
LED CXA/B 15xx
 FWHM / FWTM 56.0° / 81.0°
 Efficiency 84 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15256_HEKLA-SOCKET-D



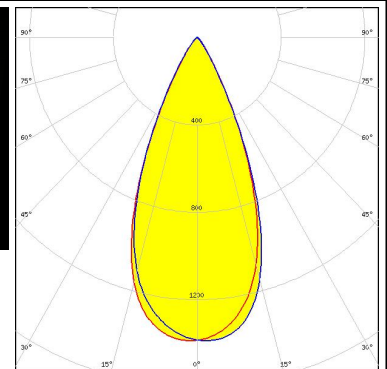
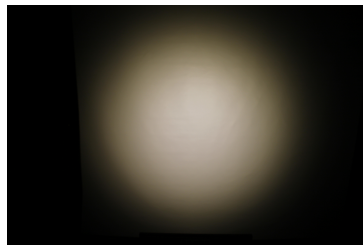
LED LUXEON CoB 1202HD
 FWHM / FWTM 54.0° / 76.0°
 Efficiency 85 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



LED LUXEON CoB 1202s
 FWHM / FWTM 52.0° / 75.0°
 Efficiency 85 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15848_HEKLA-SOCKET-G



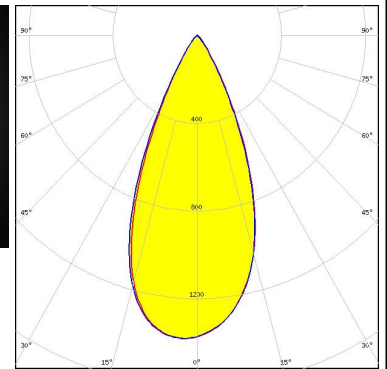
LED LUXEON CX Plus CoB - HD S01H4
 FWHM / FWTM 45.0° / 67.0°
 Efficiency 78 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



OPTICAL RESULTS (MEASURED):

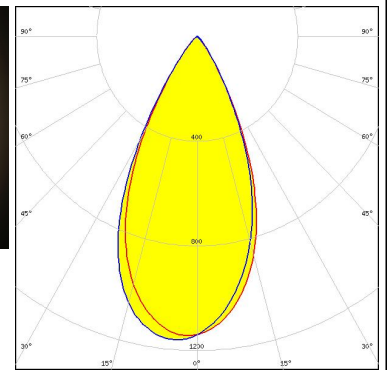
LUMILEDS

LED LUXEON CX Plus CoB - HD S02H6
 FWHM / FWTM 45.0° / 68.0°
 Efficiency 77 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



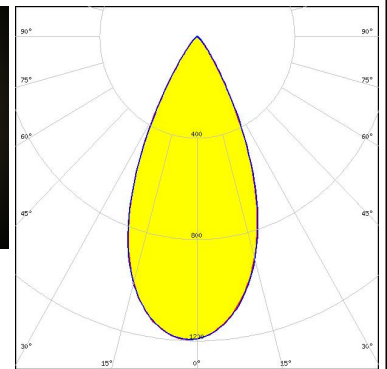
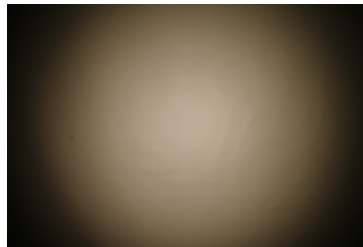
LUMILEDS

LED LUXEON CX Plus CoB - HD S04H9
 FWHM / FWTM 49.0° / 74.0°
 Efficiency 76 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



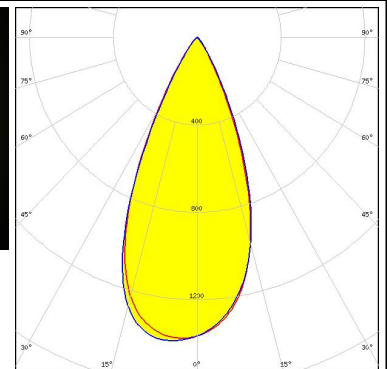
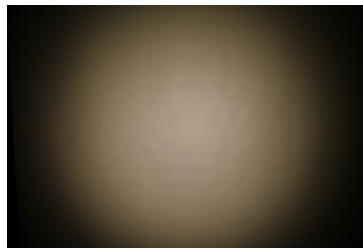
LUMILEDS

LED LUXEON CX Plus CoB M02 / M03 (Gen2)
 FWHM / FWTM 48.0° / 72.0°
 Efficiency 75 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 641a Hekla


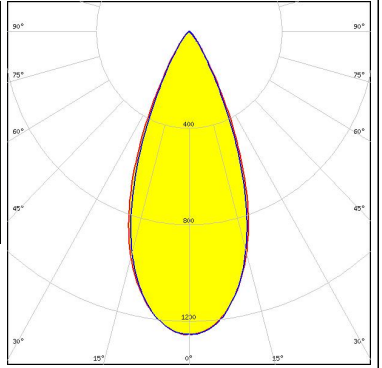
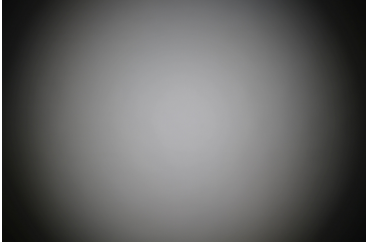
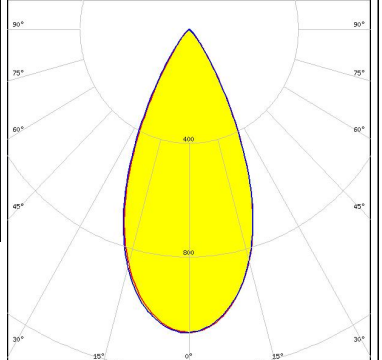
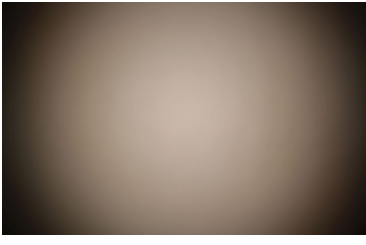
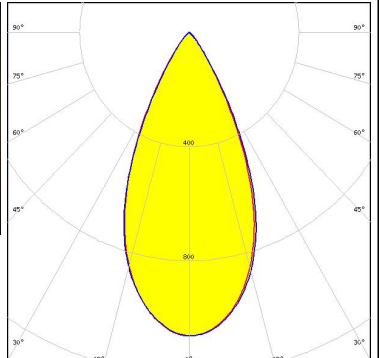
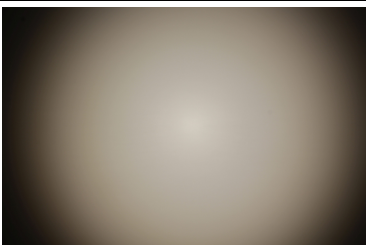
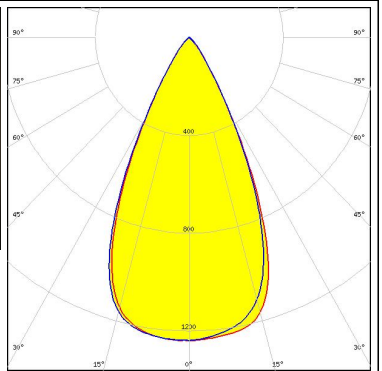


LUMILEDS


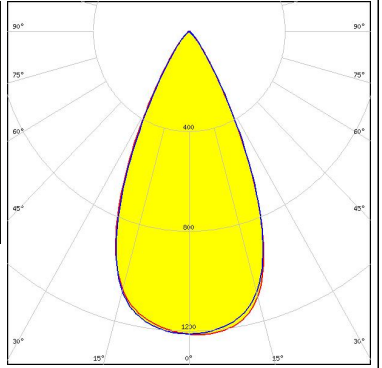
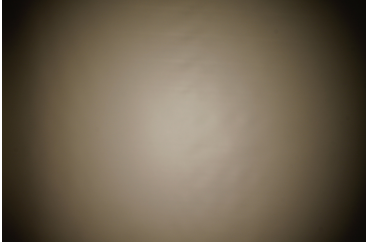
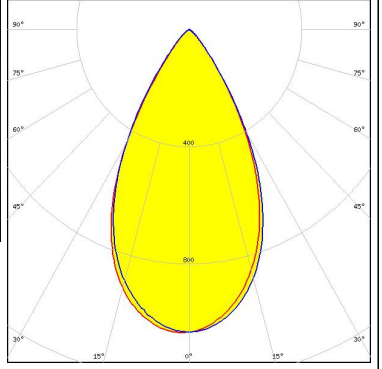
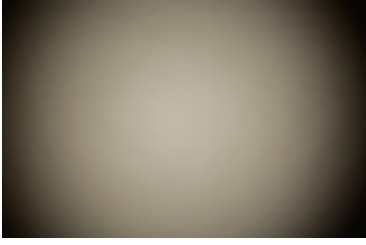
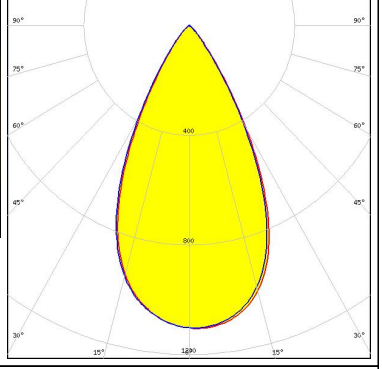
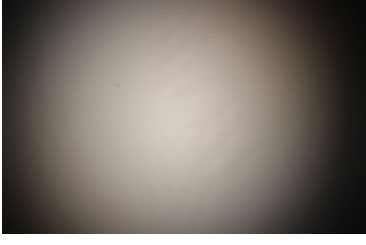
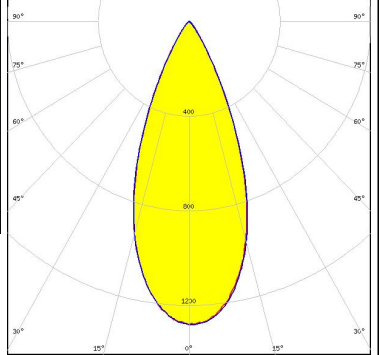
LED LUXEON CX Plus CoB S01 (Gen2)
 FWHM / FWTM 45.0° / 67.0°
 Efficiency 78 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 634c Hekla



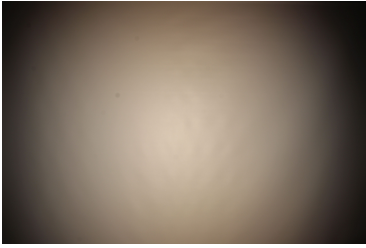
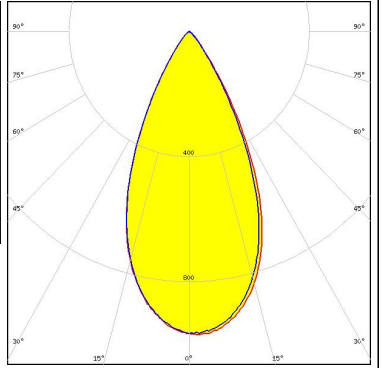

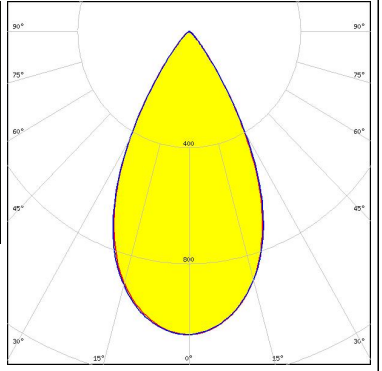
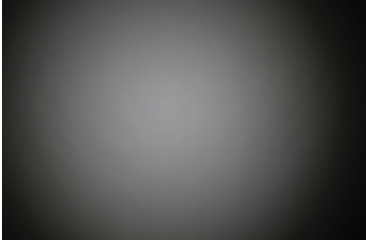
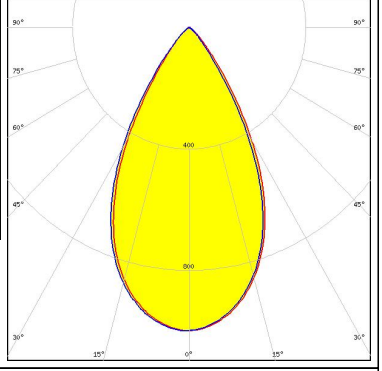
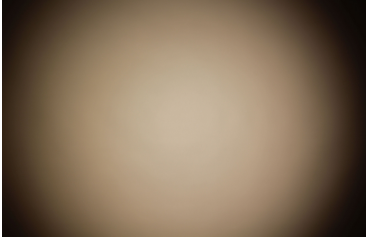
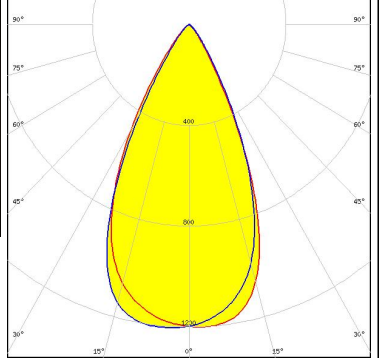
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CDM-6 (Dim-To-Warm)</p> <p>FWHM / FWTM 44.0° / 68.0°</p> <p>Efficiency 68 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 490 Typ L8</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM / FWTM 48.0° / 72.0°</p> <p>Efficiency 67 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 490 Typ L8</p>		
<p>LUMINUS</p> <p>LED CTM-9 (Tunable White)</p> <p>FWHM / FWTM 48.0° / 72.0°</p> <p>Efficiency 67 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 495 Typ L8</p>		
<p>LUMINUS</p> <p>LED CXM-3</p> <p>FWHM / FWTM 51.0° / 73.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CXM-4 FWHM / FWTM 50.0° / 73.0° Efficiency 83 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5) FWHM / FWTM 55.0° / 81.0° Efficiency 83 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>NICHIA</p> <p>LED COB S-Type (LES 7) FWHM / FWTM 53.0° / 78.0° Efficiency 83 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15848_HEKLA-SOCKET-G</p>		
<p>NICHIA</p> <p>LED NJCWL024Z-V1MT: COB L-Type Tunable White FWHM / FWTM 42.0° / 67.0° Efficiency 66 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 497 Typ L8</p>		

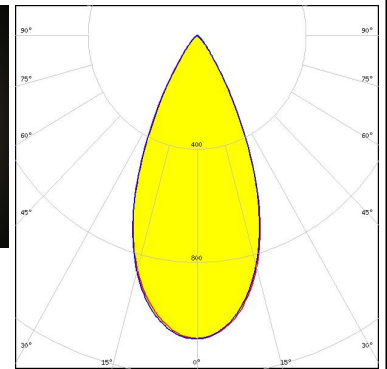
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM / FWTM 49.0° / 74.0°</p> <p>Efficiency 65 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 498 Typ L8</p>		
<p>PHILIPS</p> <p>LED Fortimo SLM L09 CoB</p> <p>FWHM / FWTM 55.0° / 79.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p>SAMSUNG</p> <p>LED LC003D / LC006D / LC009D / LC013D</p> <p>FWHM / FWTM 56.0° / 82.0°</p> <p>Efficiency 82 %</p> <p>Peak intensity 1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>SAMSUNG</p> <p>LED LC010C G2</p> <p>FWHM / FWTM 51.0° / 74.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		

OPTICAL RESULTS (MEASURED):

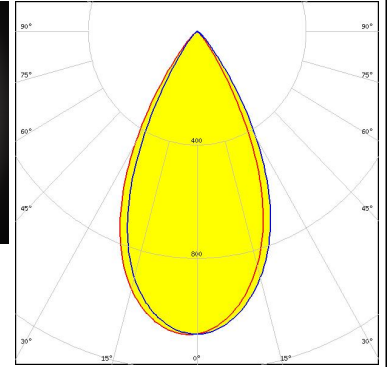
SAMSUNG

LED LC010T (Tunable White)
 FWHM / FWTM 47.0° / 72.0°
 Efficiency 67 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



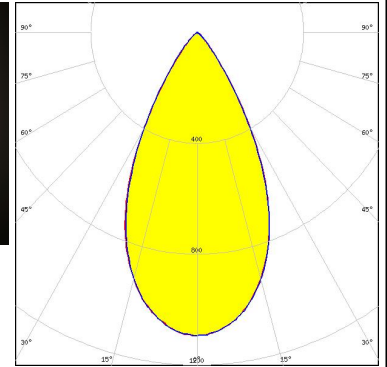
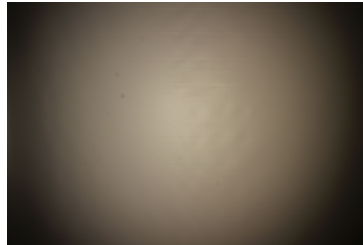
SAMSUNG

LED LC020C G2
 FWHM / FWTM 53.0° / 77.0°
 Efficiency 79 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



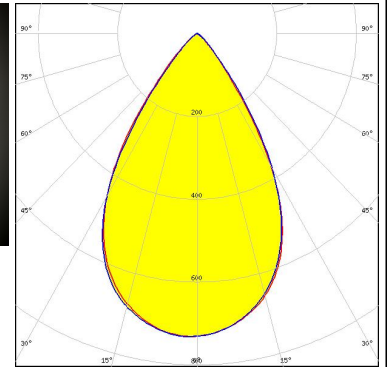
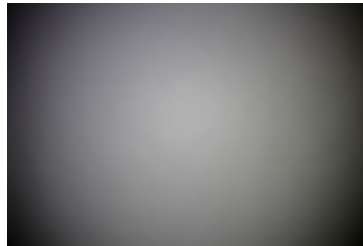
TRIDONIC

LED SLE G7 LES09
 FWHM / FWTM 53.0° / 79.0°
 Efficiency 82 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



TRIDONIC

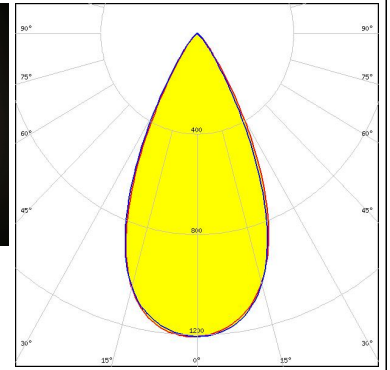
LED SLE G7 LES13
 FWHM / FWTM 64.0° / 87.0°
 Efficiency 73 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



OPTICAL RESULTS (MEASURED):

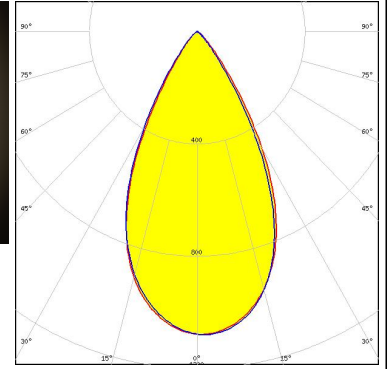
XICATO

LED XOB 6 mm
FWHM / FWTM 50.0° / 73.0°
Efficiency 82 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C


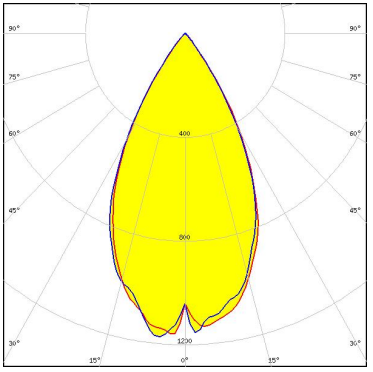

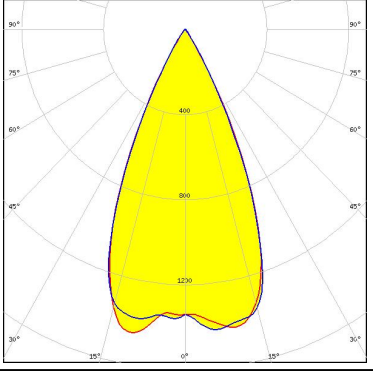

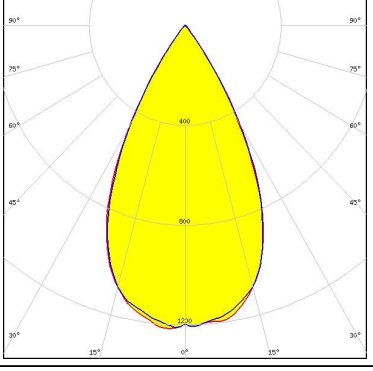

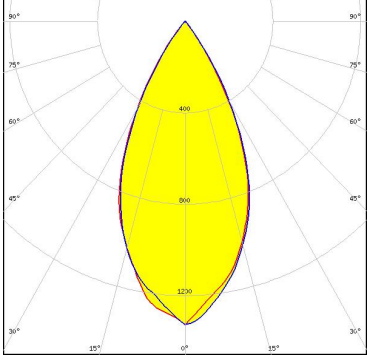


XICATO

LED XOB 9.8 mm
FWHM / FWTM 54.0° / 79.0°
Efficiency 83 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



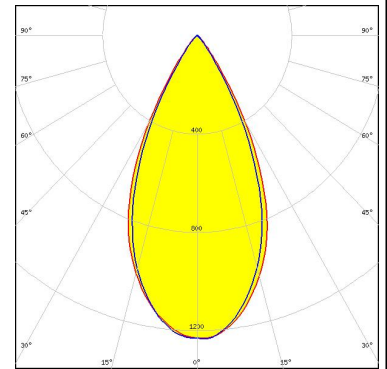
OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V10 Gen7</p> <p>FWHM / FWTM 54.0° / 76.0°</p> <p>Efficiency 84 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>	
<p></p> <p>LED V6 Gen6</p> <p>FWHM / FWTM 46.0° / 63.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED V8 Gen7</p> <p>FWHM / FWTM 54.0° / 74.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>	
<p></p> <p>LED VERO10</p> <p>FWHM / FWTM 49.0° / 73.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15616_HEKLA-SOCKET-F</p>	

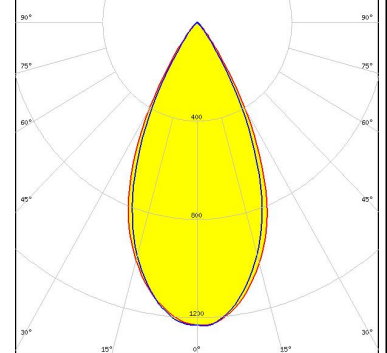
OPTICAL RESULTS (SIMULATED):



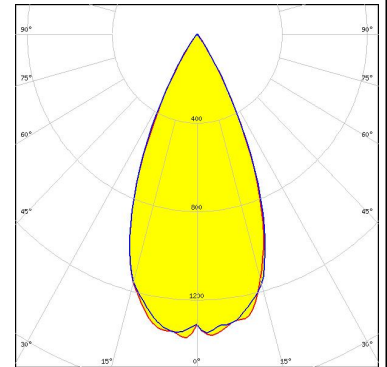
LED COB L-Type (LES 11)
FWHM / FWTM 65.0° / 87.0°
Efficiency 84 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15858_HEKLA-SOCKET-H



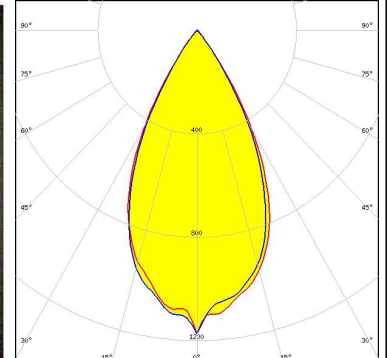
LED COB L-Type (LES 9)
FWHM / FWTM 62.0° / 81.0°
Efficiency 89 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15858_HEKLA-SOCKET-H



LED COB S-Type (LES 6)
FWHM / FWTM 48.0° / 67.0°
Efficiency 79 %
Peak intensity 1.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F15848_HEKLA-SOCKET-G



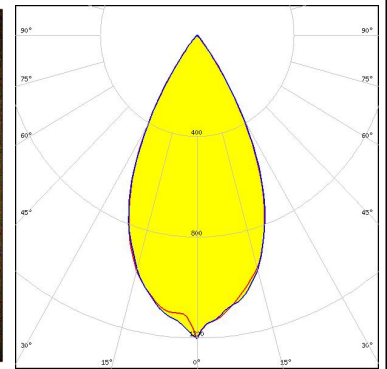
LED LC003D / LC006D / LC009D / LC013D
FWHM / FWTM 53.0° / 75.0°
Efficiency 79 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:
 F17435_HEKLA-G2-C



OPTICAL RESULTS (SIMULATED):

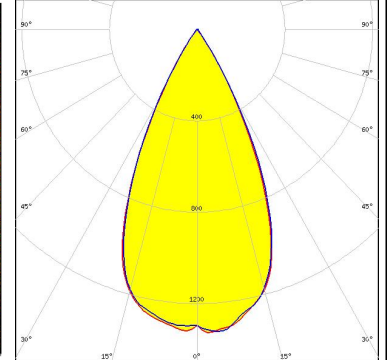
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 52.0° / 74.0°
 Efficiency 80 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C



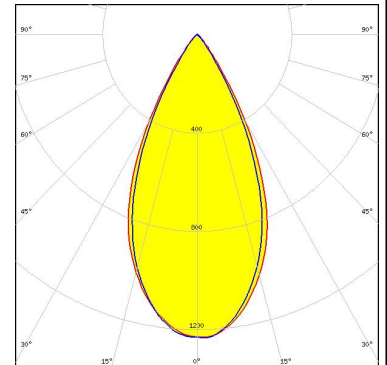
SAMSUNG

LED LC010C
 FWHM / FWTM 51.0° / 68.0°
 Efficiency 84 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C



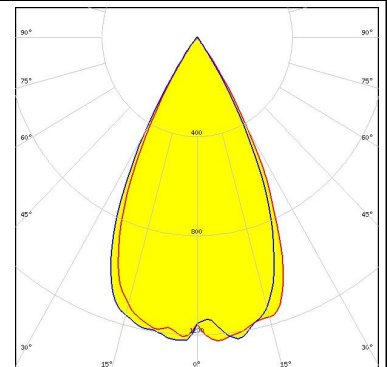
SAMSUNG

LED LH231B
 FWHM / FWTM 50.0° / 73.0°
 Efficiency 82 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 7
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C


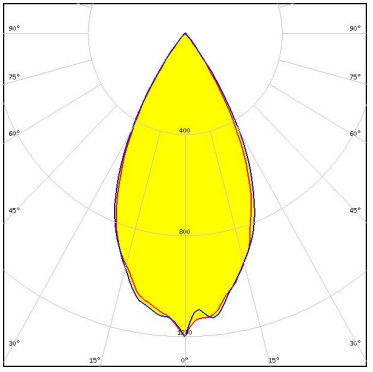


SEOUL SEMICONDUCTOR

LED MJT COB LES 6
 FWHM / FWTM 53.0° / 70.0°
 Efficiency 86 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F17435_HEKLA-G2-C



OPTICAL RESULTS (SIMULATED):

<p> SEOL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8</p> <p>FWHM / FWTM 53.0° / 75.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17435_HEKLA-G2-C</p>	
<p>XICATO</p> <p>LED XTM - 9mm LES</p> <p>FWHM / FWTM 55.0° / 76.0 + 6.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C15743_XTM-ADAPTER-50-B</p>	