

BROOKE-G2-S

~20° spot beam compatible with LEDiL HEKLA.

SPECIFICATION:

Dimensions	Ø 45.0 mm
Height	18.9 mm
Fastening	socket
ROHS compliant	yes ⓘ

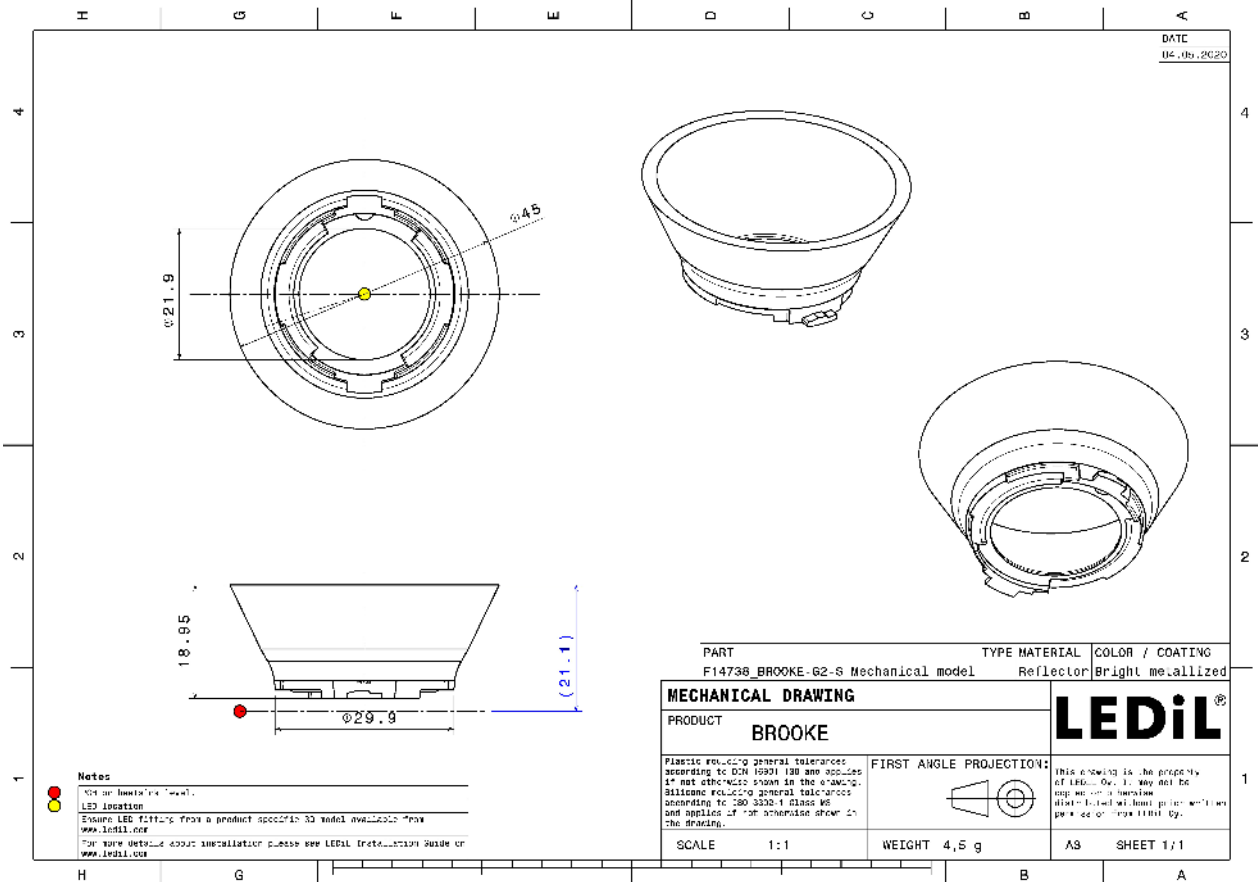
MATERIALS:

Component	Type	Material	Colour	Finish	Coating
BROOKE-G2-S	Reflector	PC	metal		HMDS





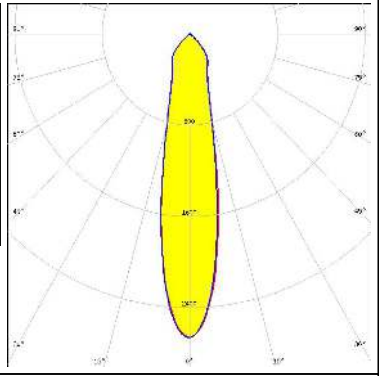


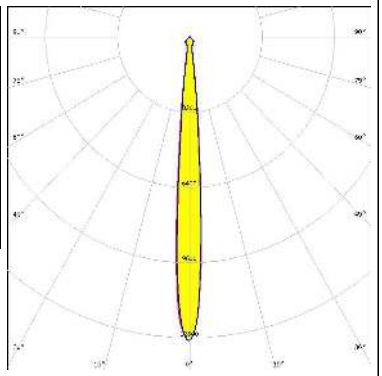


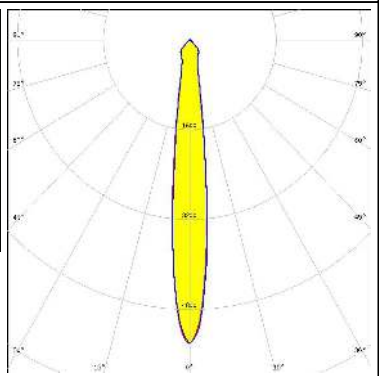

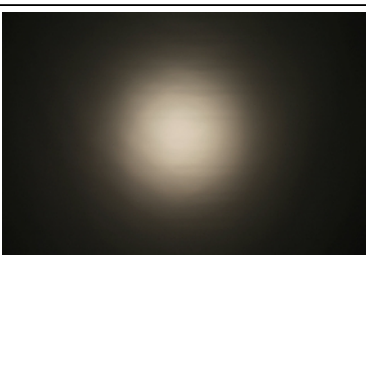
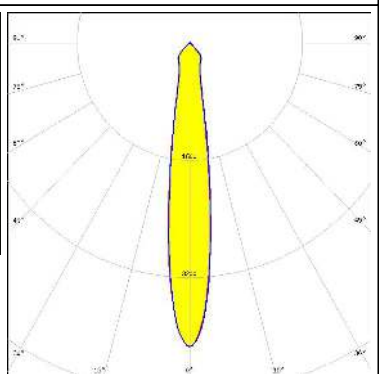
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F14738_BROOKE-G2-S » Box size: 480 x 280 x 300 mm	720	45	45	4.8



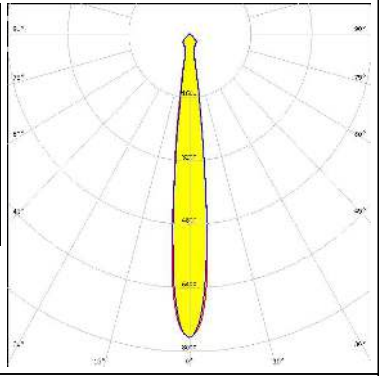


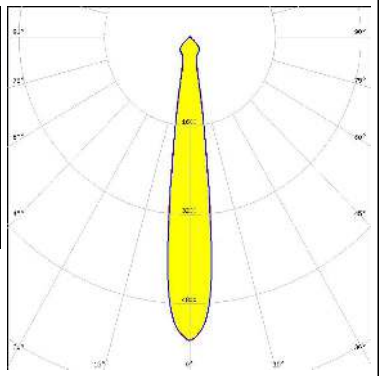


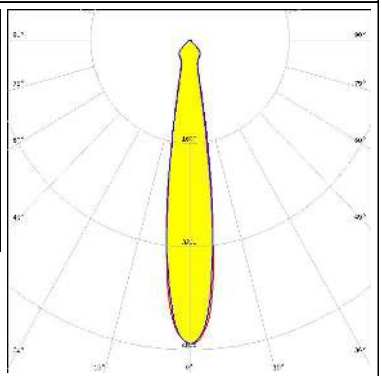


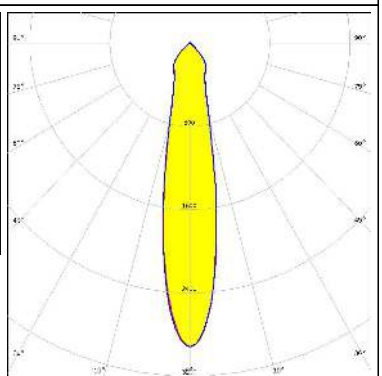


See also our general installation guide: www.ledil.com/installation_guide



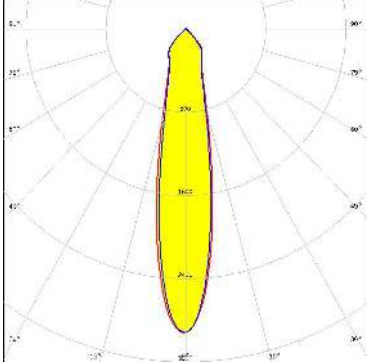


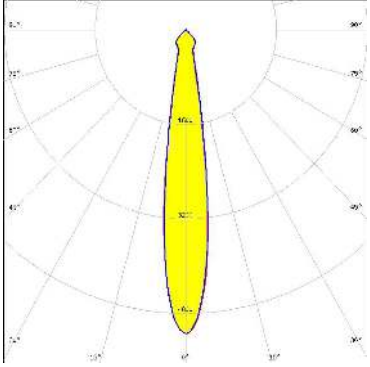

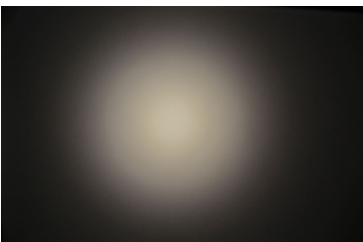
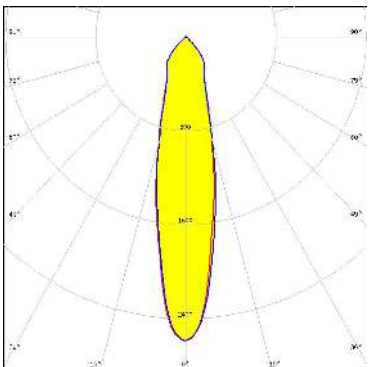

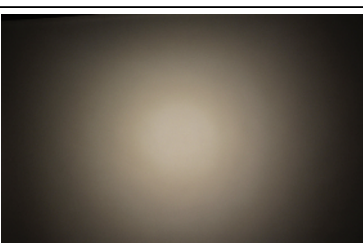
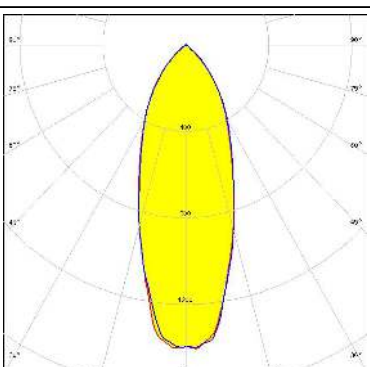
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V10 Gen7 FWHM / FWTM 22.0° / 74.0° Efficiency 88 % Peak intensity 2.7 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS</p>		
<p></p> <p>LED V4 HD Gen 7 FWHM / FWTM 8.8° / 16.5° Efficiency 94 % Peak intensity 12.9 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V4 HD Gen 7 FWHM / FWTM 13.0° / 32.0° Efficiency 90 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: F15253_HEKLA-SOCKET-A C14658_BARBARA-RZ-LENS</p>		
<p></p> <p>LED V6 HD Gen 7 FWHM / FWTM 16.0° / 41.0° Efficiency 89 % Peak intensity 4.1 cd/lm LEDs/each optic 1 Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS</p>		



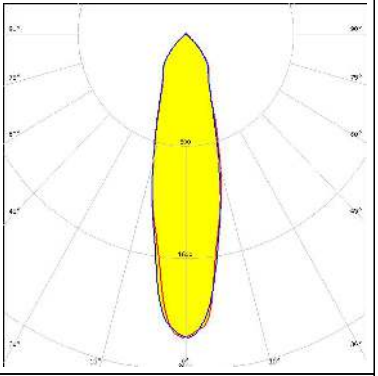

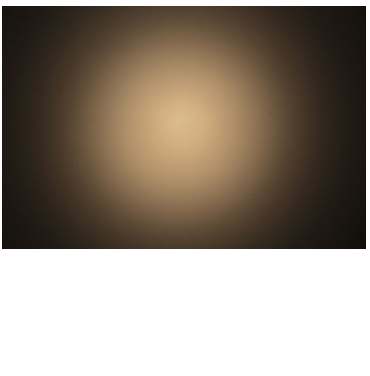
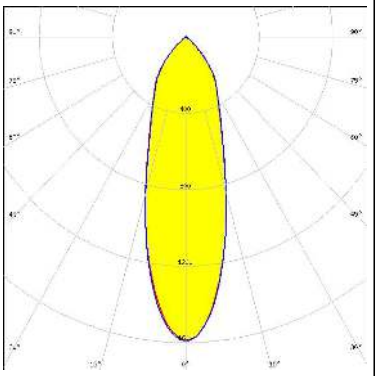


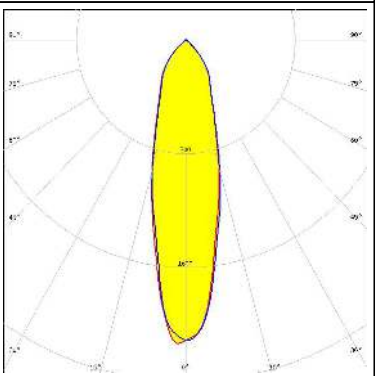

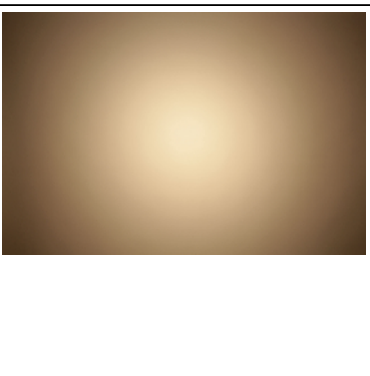
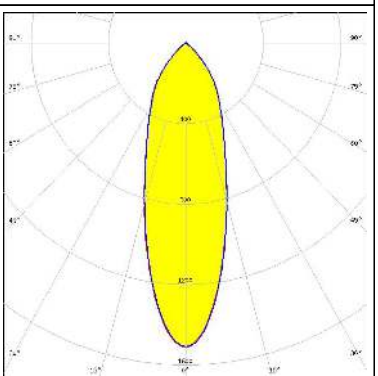
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V6 HD Gen 7 FWHM / FWTM 12.0° / 23.0° Efficiency 94 % Peak intensity 7.7 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V8 Gen 8 FWHM / FWTM 15.0° / 29.0° Efficiency 96 % Peak intensity 5.5 cd/m LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A</p>		
<p></p> <p>LED V9 HD Gen7 FWHM / FWTM 17.0° / 33.0° Efficiency 94 % Peak intensity 4.7 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p></p> <p>LED V9 HD Gen7 FWHM / FWTM 21.0° / 65.0° Efficiency 87 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I C14658_BARBARA-RZ-LENS</p>		



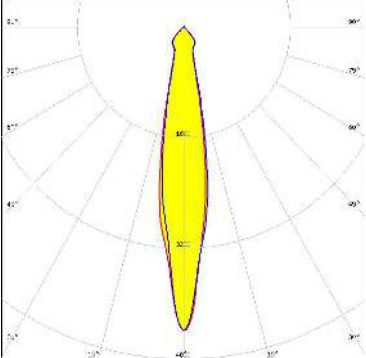


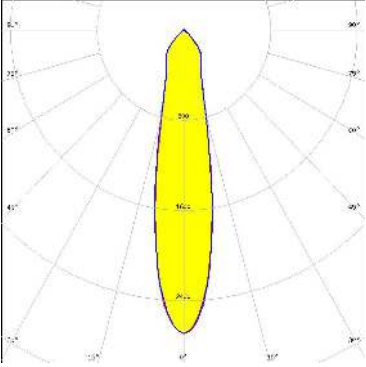

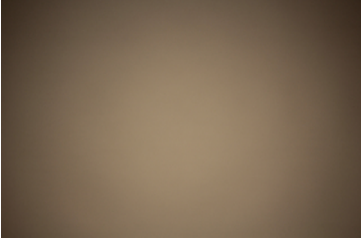
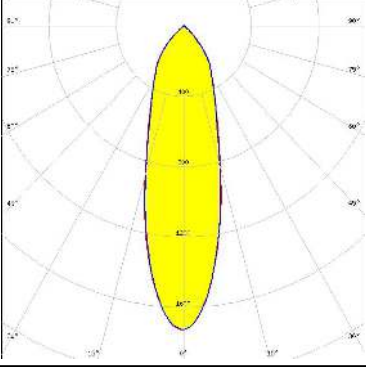


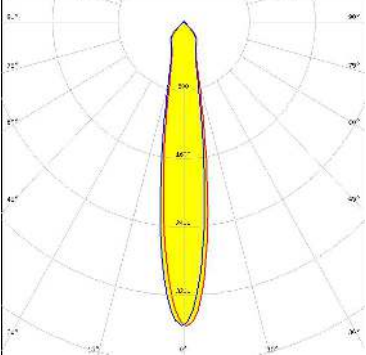
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED VERO10 FWHM / FWTM 21.0° / 70.0° Efficiency 92 % Peak intensity 2.9 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: F15616_HEKLA-SOCKET-F C14658_BARBARA-RZ-LENS</p>		
<p></p> <p>LED VERO10 FWHM / FWTM 16.0° / 33.0° Efficiency 94 % Peak intensity 5.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: F15616_HEKLA-SOCKET-F</p>		
<p></p> <p>LED VERO13 FWHM / FWTM 23.0° / 76.0° Efficiency 90 % Peak intensity 2.6 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>		
<p></p> <p>LED VERO18 FWHM / FWTM 38.0° / 87.0° Efficiency 89 % Peak intensity 1.4 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>		


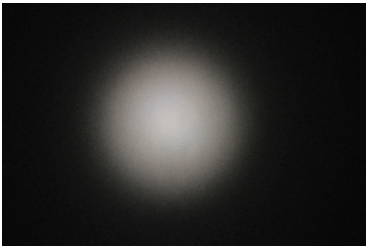
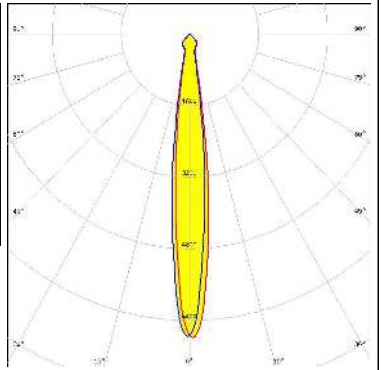

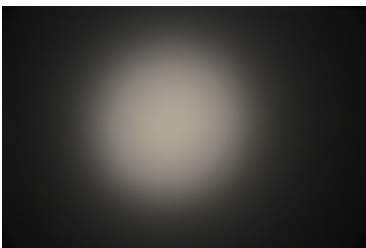
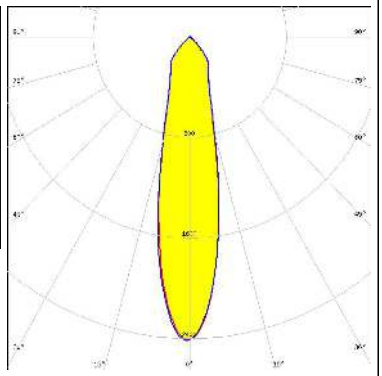

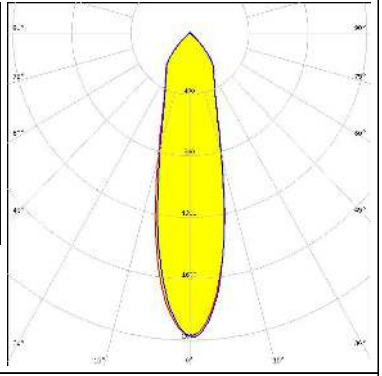
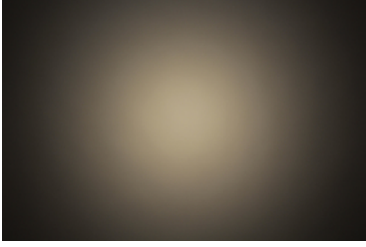
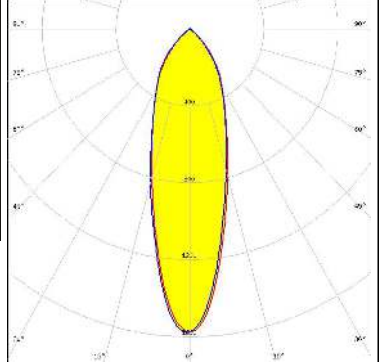
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta DTW 13mm (21W) FWHM / FWTM 27.0° / 80.0° Efficiency 90 % Peak intensity 2.2 cd/m 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 DTW 13mm (21W) FWHM / FWTM 32.0° / 85.0° Efficiency 85 % Peak intensity 1.6 cd/m LEDs/each optic 1 Light colour Tunable White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta DTW 15mm (33W) FWHM / FWTM 27.0° / 79.0° Efficiency 91 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 491 Typ L8</p>		
<p></p> <p>LED Vesta DTW 15mm (33W) FWHM / FWTM 33.0° / 85.0° Efficiency 84 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 491 Typ L8</p>		

OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta DTW 9mm (4W/6W/12W)</p> <p>FWHM / FWTM 18.0° / 38.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.4 cd/m</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></p> <p>LED Vesta DTW 9mm (4W/6W/12W)</p> <p>FWHM / FWTM 22.0° / 72.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 2.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 490 Typ L8</p>		
<p></p> <p>LED Vesta TW 13mm (25W) CSP</p> <p>FWHM / FWTM 30.0° / 82.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 492 Typ L8</p>		
<p></p> <p>LED Vesta TW 6mm DP</p> <p>FWHM / FWTM 17.0° / 49.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 504 Typ L8</p>		

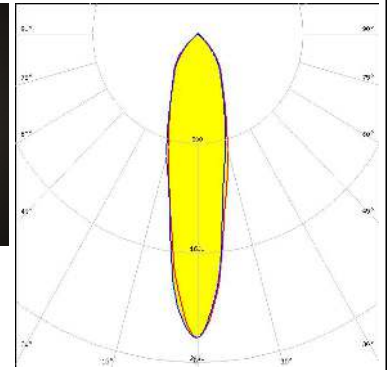
OPTICAL RESULTS (MEASURED):

<p></p> <p>LED Vesta TW 6mm DP FWHM / FWTM 13.0° / 26.0° Efficiency 90 % Peak intensity 6.8 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 504 Typ L8</p>		
<p></p> <p>LED Vesta TW 9mm (12W) CSP FWHM / FWTM 23.0° / 76.0° Efficiency 85 % Peak intensity 2.4 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 489 Typ L8</p>		
<p>CITIZEN</p> <p>LED CLC020 Series (Dim-To-Warm) FWHM / FWTM 26.0° / 81.0° Efficiency 84 % Peak intensity 2 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 487 Typ L8</p>		
<p>CITIZEN</p> <p>LED CLC030 Series (Dim-To-Warm) FWHM / FWTM 30.0° / 84.0° Efficiency % Peak intensity 1.6 cd/m LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 436 Typ L8</p>		

OPTICAL RESULTS (MEASURED):

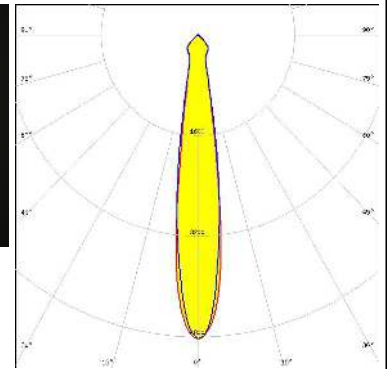
CITIZEN

LED CLLC030 Series (Dim-To-Warm)
 FWHM / FWTM 23.0° / 78.0°
 Efficiency 89 %
 Peak intensity 2.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K



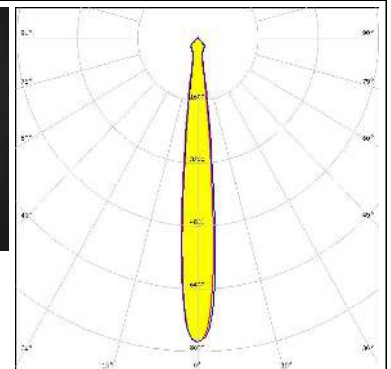
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 94 %
 Peak intensity 4.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



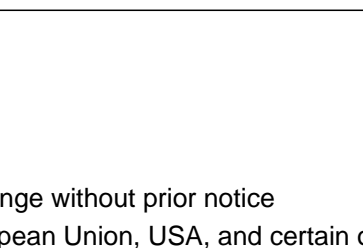
CITIZEN

LED CLL02x/CLU02x (LES10)
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 94 %
 Peak intensity 4.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



CITIZEN

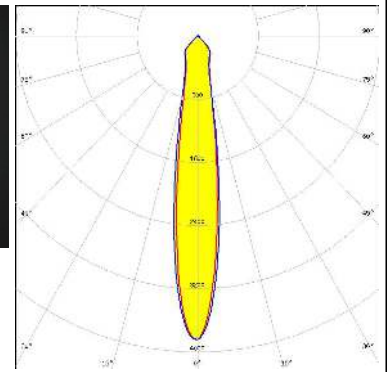
LED CLU700/701/702/703
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 94 %
 Peak intensity 7.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

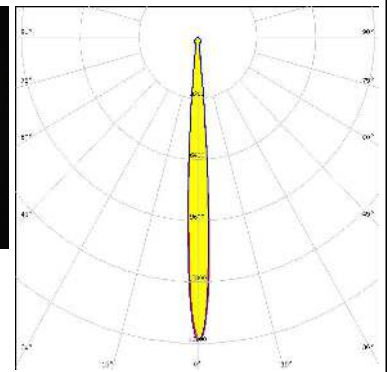
CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 17.0° / 47.0°
 Efficiency 90 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



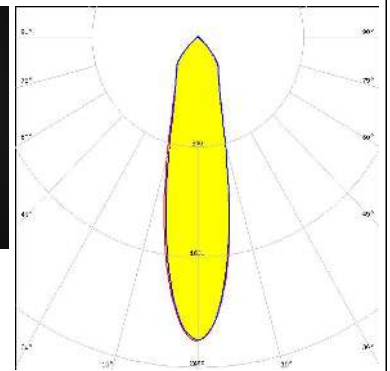
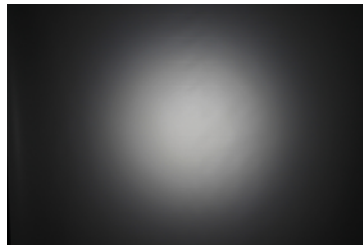
CITIZEN

LED CLU7A2/7A3
 FWHM / FWTM 8.0° / 15.0°
 Efficiency 94 %
 Peak intensity 15.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



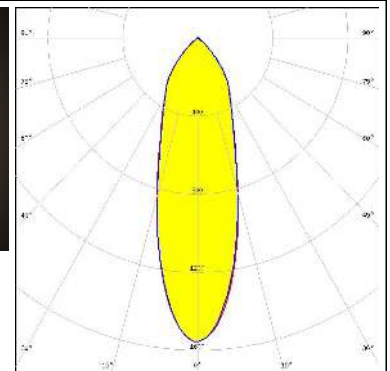
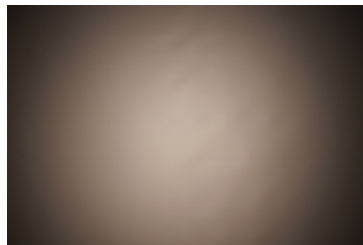
CITIZEN

LED LCN-C01B (Tunable White)
 FWHM / FWTM 25.0° / 79.0°
 Efficiency 86 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 481 Typ L8



CITIZEN

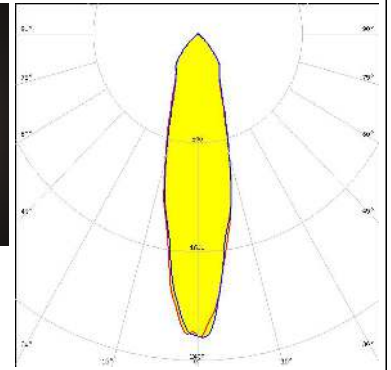
LED LCN-C02B (Tunable White)
 FWHM / FWTM 32.0° / 85.0°
 Efficiency 84 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 481 Typ L8



OPTICAL RESULTS (MEASURED):

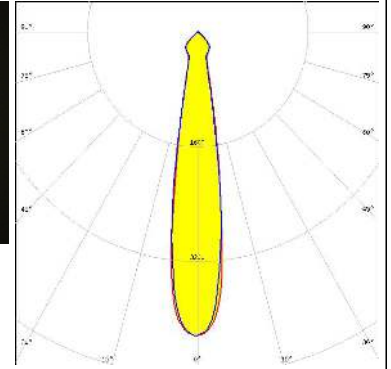
CITIZEN

LED LCN-C02B (Tunable White)
 FWHM / FWTM 27.0° / 79.0°
 Efficiency 89 %
 Peak intensity 2.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K



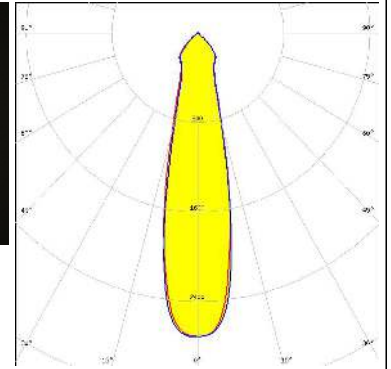
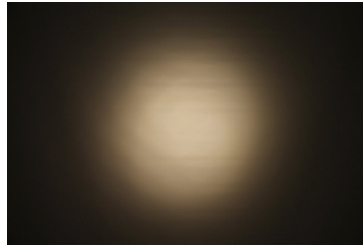
CREE LED

LED CMA1516
 FWHM / FWTM 18.0° / 36.0°
 Efficiency 94 %
 Peak intensity 4.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15256_HEKLA-SOCKET-D



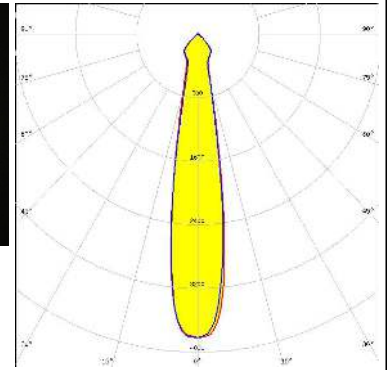
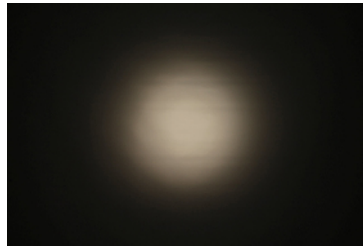
CREE LED

LED CMA1825
 FWHM / FWTM 24.0° / 76.0°
 Efficiency 94 %
 Peak intensity 2.7 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15254_HEKLA-SOCKET-B


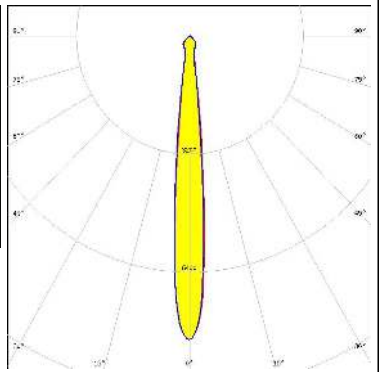

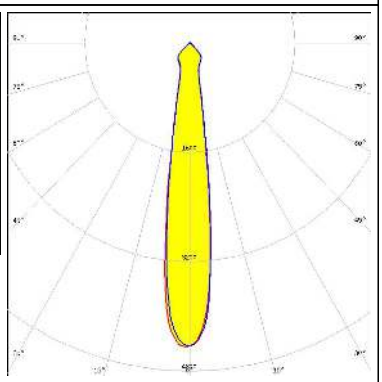

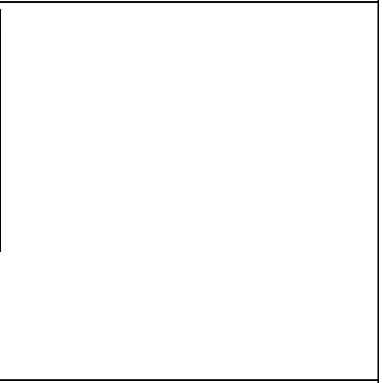

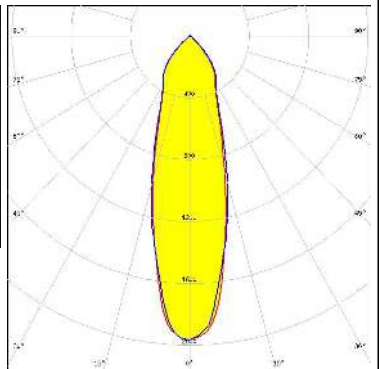


CREE LED


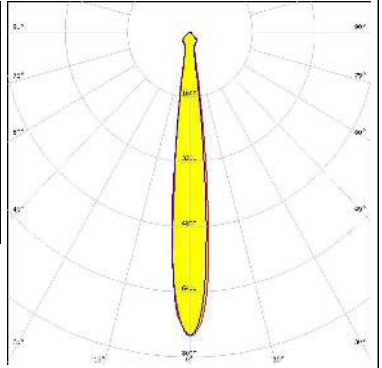
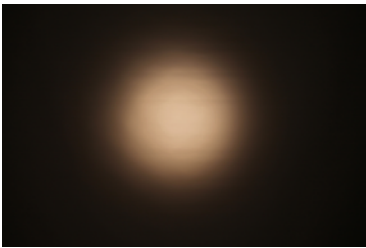
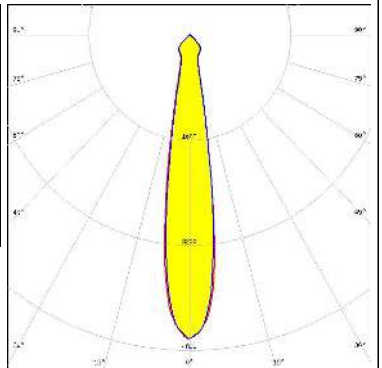
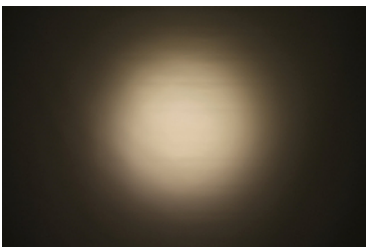
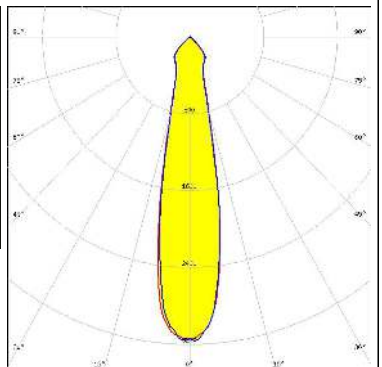
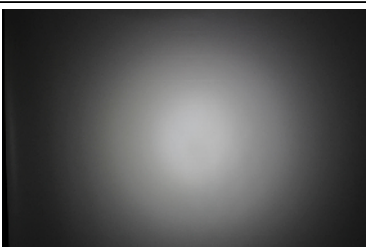
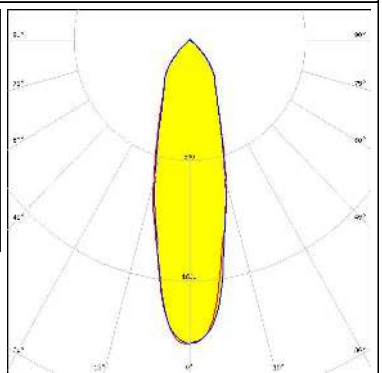
LED CMT14xx
 FWHM / FWTM 19.0° / 41.0°
 Efficiency 95 %
 Peak intensity 3.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



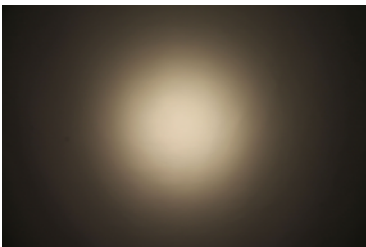
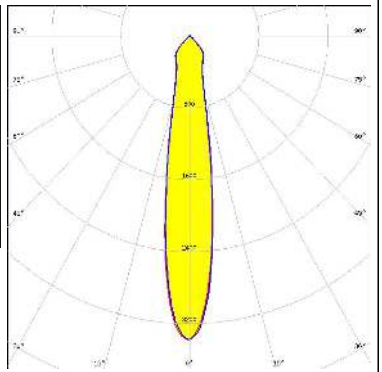

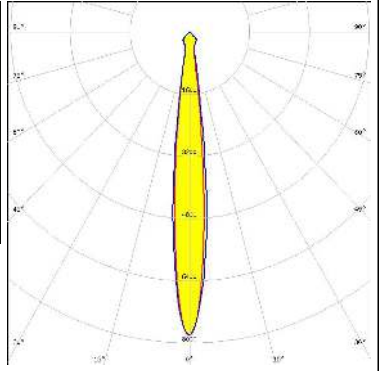

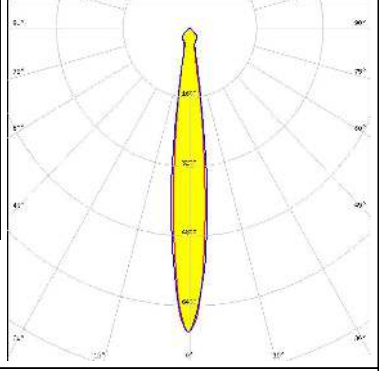

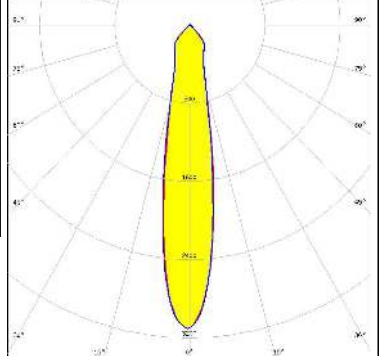
OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>LED CXA/B 13xx FWHM / FWTM 11.0° / 22.0° Efficiency 94 % Peak intensity 8.2 cd/lm LEDs/each optic 1 Light colour White Required components: F15956_HEKLA-SOCKET-J</p>		
<p>CREE LED</p> <p>LED CXA/B 15xx FWHM / FWTM 16.0° / 36.0° Efficiency 94 % Peak intensity 4.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15256_HEKLA-SOCKET-D</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 35.0° / 87.0° Efficiency 84 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 637a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L08 (Gen2) FWHM / FWTM 29.0° / 83.0° Efficiency 92 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: Bender Wirth: 637a Hekla</p>		


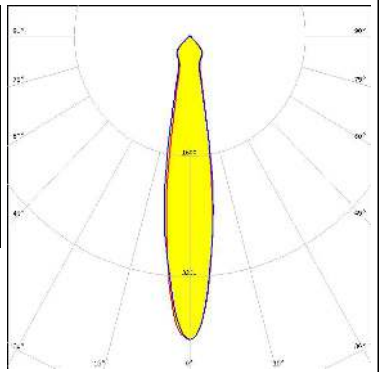

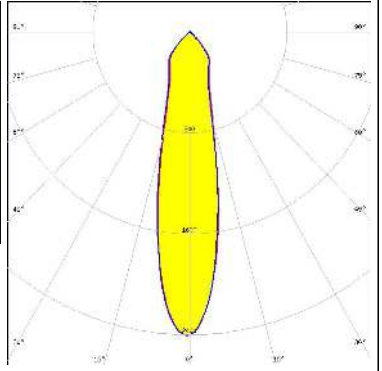
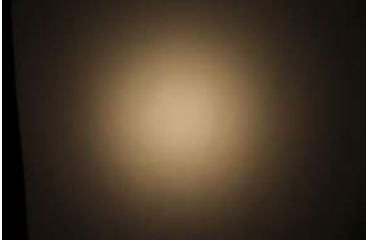
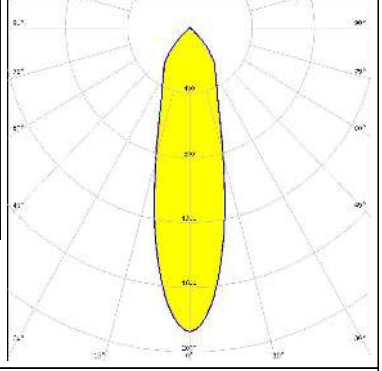

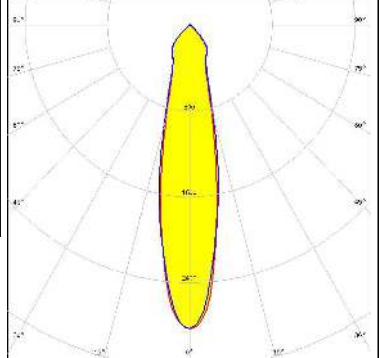
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CoB 1202HD</p> <p>FWHM / FWTM 13.0° / 23.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 7.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1204HD</p> <p>FWHM / FWTM 18.0° / 35.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 4.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1205HD</p> <p>FWHM / FWTM 22.0° / 58.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>		
<p>LUMILEDS</p> <p>LED LUXEON CoB 1208</p> <p>FWHM / FWTM 29.0° / 82.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 632a Hekla XL</p>		

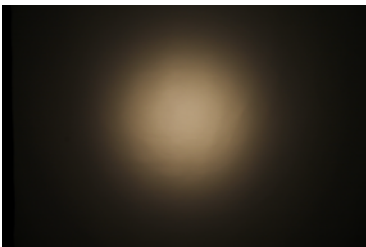
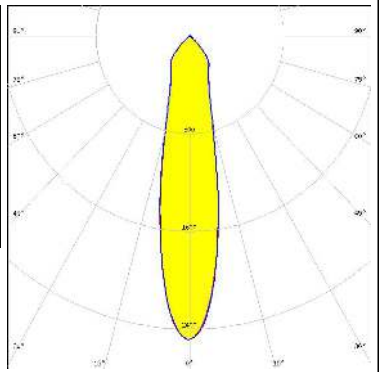

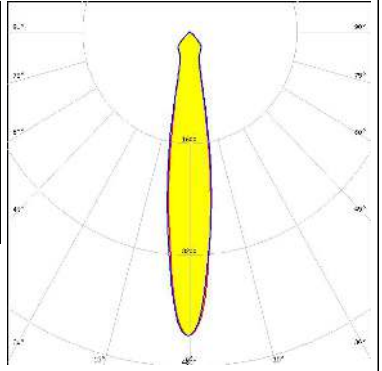

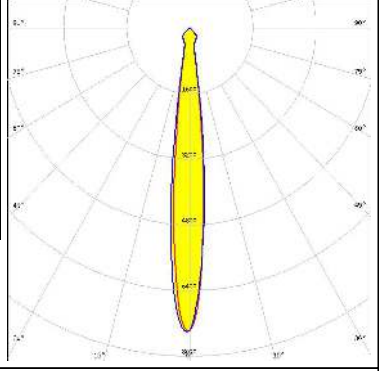

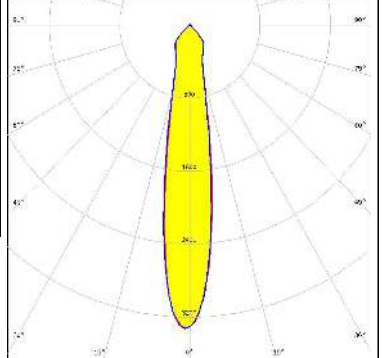
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 18.0° / 54.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H4</p> <p>FWHM / FWTM 13.0° / 23.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 7.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 14.0° / 25.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6</p> <p>FWHM / FWTM 20.0° / 60.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		


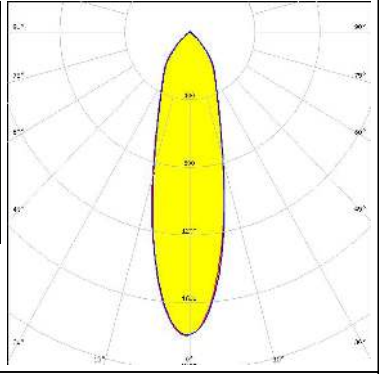

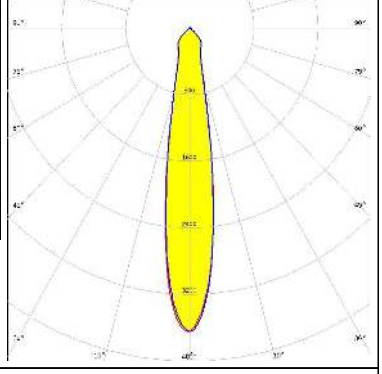

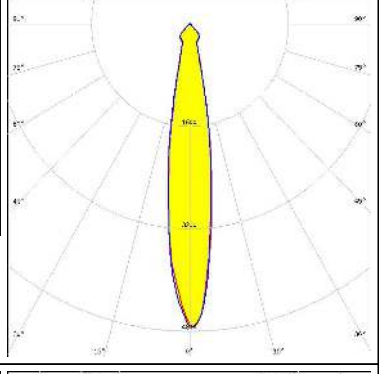

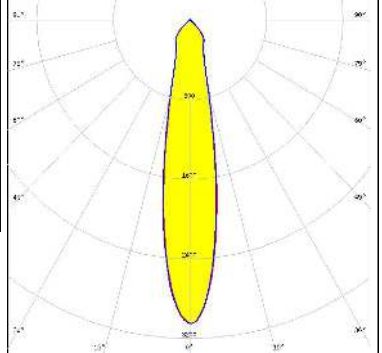
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 18.0° / 40.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB - HD S04H9</p> <p>FWHM / FWTM 23.0° / 78.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 28.0° / 83.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 637a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB L04 / L05 (Gen2)</p> <p>FWHM / FWTM 23.0° / 75.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 637a Hekla</p>		


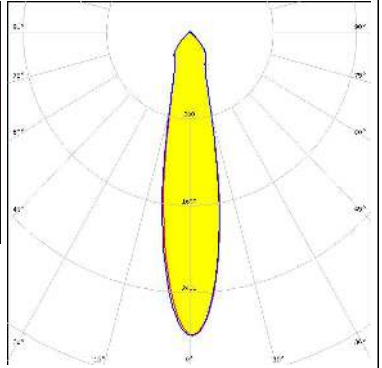

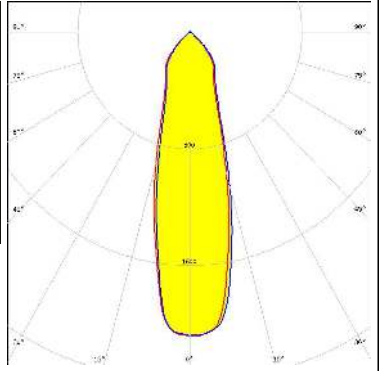

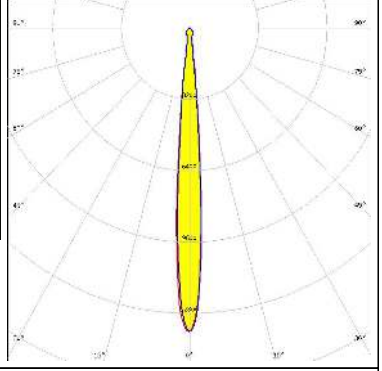

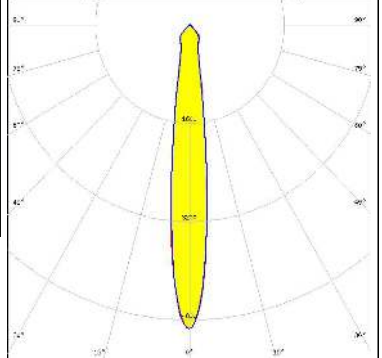
OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 23.0° / 77.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 2.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 641a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 17.0° / 38.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 641a Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 7.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 634c Hekla</p>		
<p>LUMILEDS</p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 19.0° / 56.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C14658_BARBARA-RZ-LENS Bender Wirth: 634c Hekla</p>		


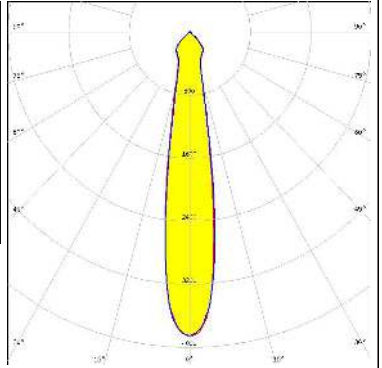

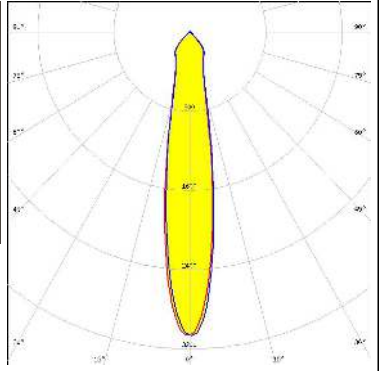

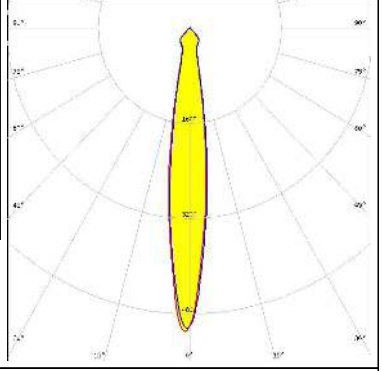
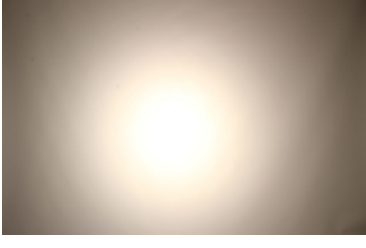
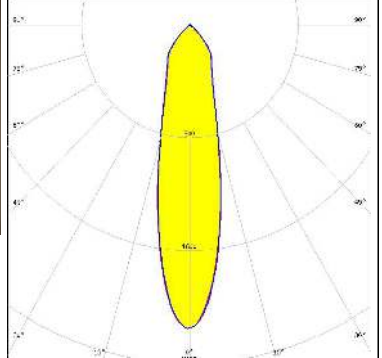
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CDM-14 (Dim-To-Warm)</p> <p>FWHM / FWTM 28.0° / 81.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 1.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 491 Typ L8</p>		
<p>LUMINUS</p> <p>LED CDM-6 (Dim-To-Warm)</p> <p>FWHM / FWTM 18.0° / 45.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.6 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 490 Typ L8</p>		
<p>LUMINUS</p> <p>LED CDM-9 (Dim-To-Warm)</p> <p>FWHM / FWTM 17.0° / 35.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 4.8 cd/m</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 21.0° / 56.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 490 Typ L8</p>		

OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CTM-9 (Tunable White)</p> <p>FWHM / FWTM 22.0° / 65.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 495 Typ L8</p>		
<p>LUMINUS</p> <p>LED CxM-14 (19x19)</p> <p>FWHM / FWTM 29.0° / 83.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>		
<p>LUMINUS</p> <p>LED CXM-4</p> <p>FWHM / FWTM 9.0° / 16.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 13.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>LUMINUS</p> <p>LED CXM-4</p> <p>FWHM / FWTM 14.0° / 35.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 4.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C C14658_BARBARA-RZ-LENS</p>		

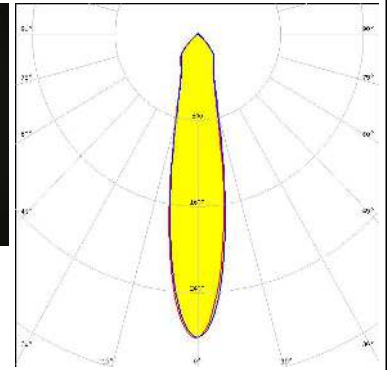
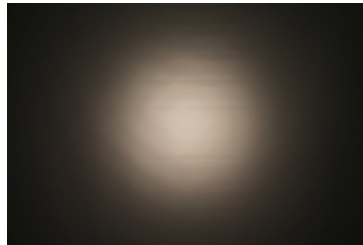
OPTICAL RESULTS (MEASURED):

<p>LUMINUS</p> <p>LED CxM-9 (13.5x13.5)</p> <p>FWHM / FWTM 18.0° / 44.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 3.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p>NICHIA</p> <p>LED NJCWL024Z-V1MT: COB L-Type Tunable White</p> <p>FWHM / FWTM 18.0° / 57.0°</p> <p>Efficiency 81 %</p> <p>Peak intensity 3.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 497 Typ L8</p>		
<p>NICHIA</p> <p>LED NJCWL024Z-V1MT: COB L-Type Tunable White</p> <p>FWHM / FWTM 15.0° / 31.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 497 Typ L8</p>		
<p>NICHIA</p> <p>LED NVCWJ024Z-V1MT: COB J-Type Tunable White</p> <p>FWHM / FWTM 25.0° / 79.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 498 Typ L2</p>		

OPTICAL RESULTS (MEASURED):

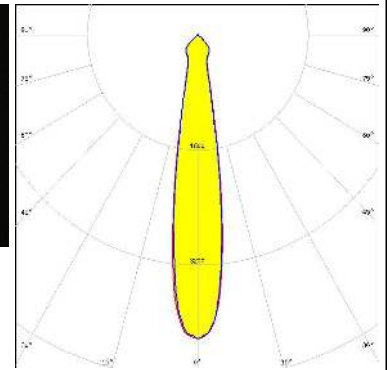
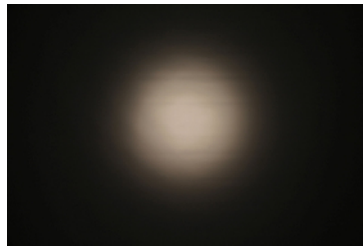
PHILIPS

LED Fortimo SLM L09 CoB
 FWHM / FWTM 21.0° / 70.0°
 Efficiency 89 %
 Peak intensity 2.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H
 C14658_BARBARA-RZ-LENS



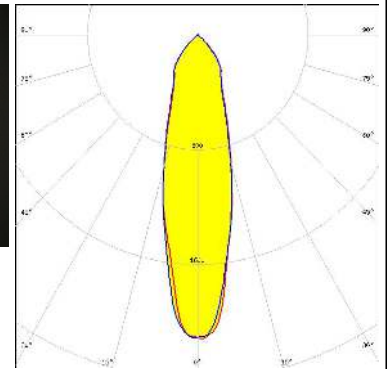
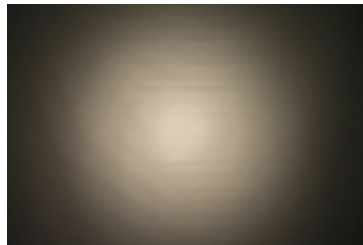
PHILIPS

LED Fortimo SLM L09 CoB
 FWHM / FWTM 18.0° / 38.0°
 Efficiency 94 %
 Peak intensity 4.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15858_HEKLA-SOCKET-H



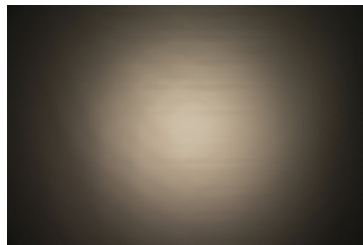
PHILIPS

LED Fortimo SLM L13 CoB
 FWHM / FWTM 27.0° / 80.0°
 Efficiency 89 %
 Peak intensity 2.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 432 Typ L8



PHILIPS

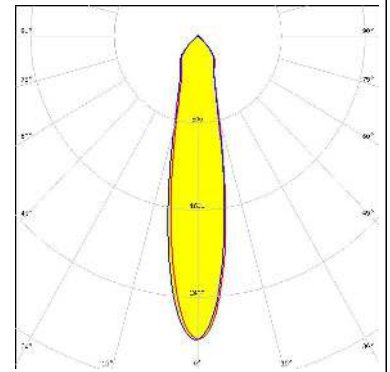
LED Fortimo SLM L13 CoB
 FWHM / FWTM 32.0° / 85.0°
 Efficiency 85 %
 Peak intensity 1.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 432 Typ L8



OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 22.0° / 70.0°
 Efficiency 90 %
 Peak intensity 2.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS

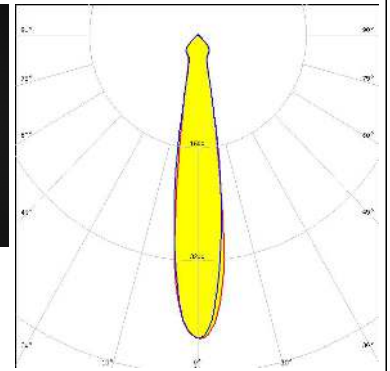


SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 18.0° / 37.0°
 Efficiency 94 %
 Peak intensity 4.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C

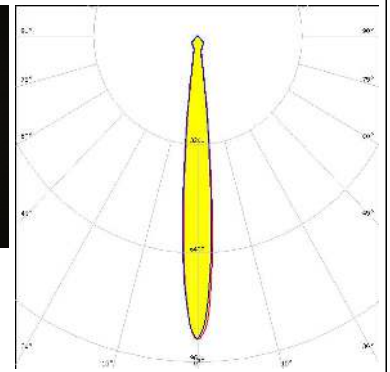
SAMSUNG

LED LC003D / LC006D / LC009D / LC013D
 FWHM / FWTM 18.0° / 37.0°
 Efficiency 94 %
 Peak intensity 4.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



SAMSUNG

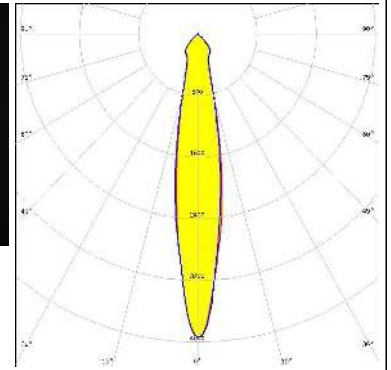
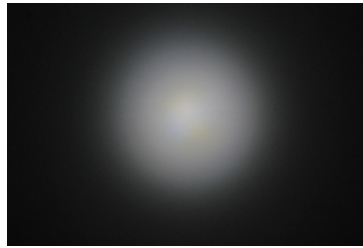
LED LC010C G2
 FWHM / FWTM 11.0° / 20.0°
 Efficiency 93 %
 Peak intensity 9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

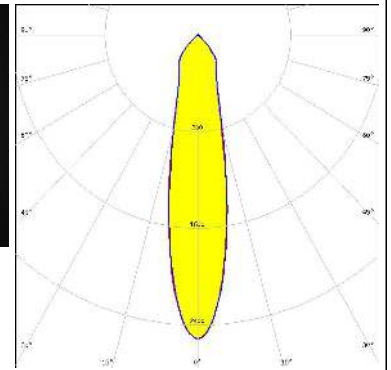
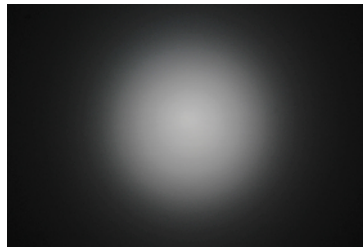
SAMSUNG

LED LC010T (Tunable White)
 FWHM / FWTM 18.0° / 43.0°
 Efficiency 91 %
 Peak intensity 3.9 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



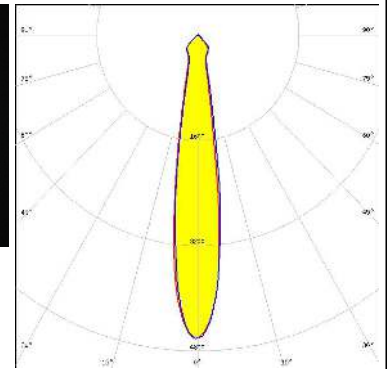
SAMSUNG

LED LC010T (Tunable White)
 FWHM / FWTM 23.0° / 75.0°
 Efficiency 86 %
 Peak intensity 2.5 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 501 Typ L8



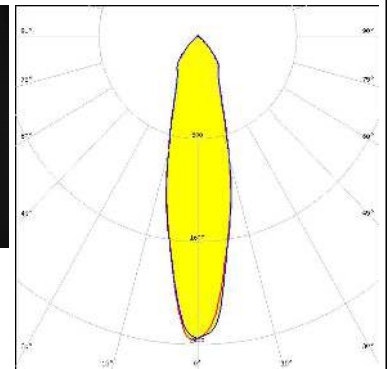
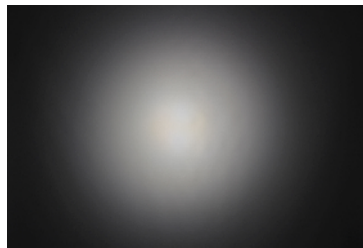
SAMSUNG

LED LC020C G2
 FWHM / FWTM 17.0° / 35.0°
 Efficiency 94 %
 Peak intensity 4.6 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



SAMSUNG

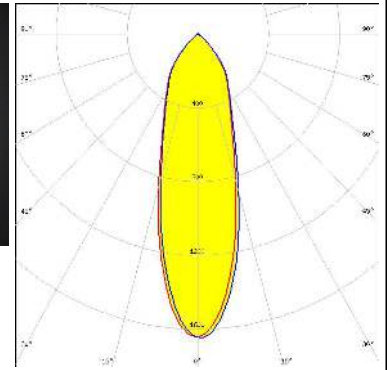
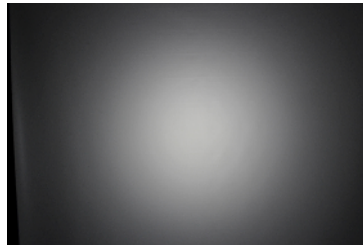
LED LC020T (Tunable white)
 FWHM / FWTM 26.0° / 78.0°
 Efficiency 90 %
 Peak intensity 2.4 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 Bender Wirth: 501 Typ L8



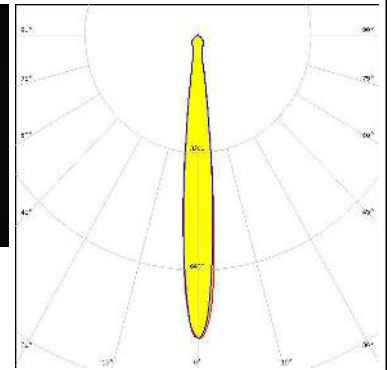
OPTICAL RESULTS (MEASURED):

SAMSUNG

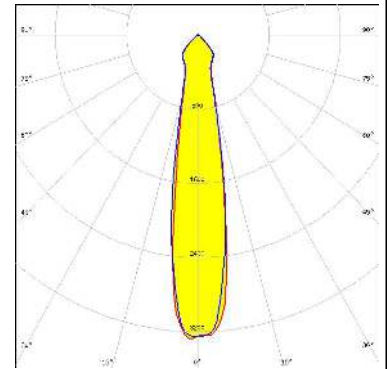
LED LC020T (Tunable white)
 FWHM / FWTM 31.0° / 84.0°
 Efficiency 85 %
 Peak intensity 1.6 cd/m
 LEDs/each optic 1
 Light colour Tunable White
 Required components:
 C16142_HEKLA-SOCKET-K
 C14658_BARBARA-RZ-LENS
 Bender Wirth: 501 Typ L8



SEOUL SEMICONDUCTOR
 LED MJT COB LES 6
 FWHM / FWTM 11.0° / 22.0°
 Efficiency 93 %
 Peak intensity 8.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C

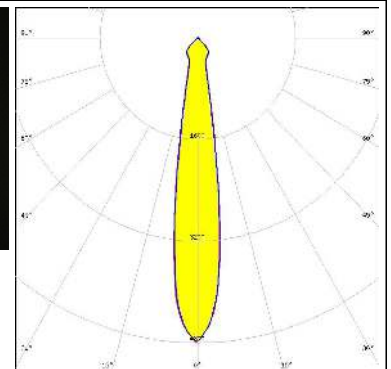


SEOUL SEMICONDUCTOR
 LED MJT COB LES 9.8
 FWHM / FWTM 20.0° / 58.0°
 Efficiency 92 %
 Peak intensity 3.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



TRIDONIC

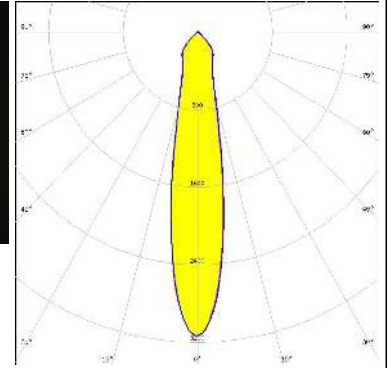
LED SLE G7 LES09
 FWHM / FWTM 17.0° / 34.0°
 Efficiency 94 %
 Peak intensity 4.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

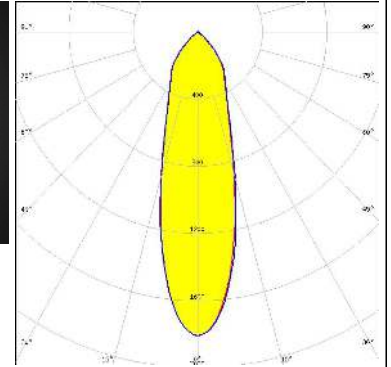
TRIDONIC

LED SLE G7 LES09
 FWHM / FWTM 20.0° / 63.0°
 Efficiency 91 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



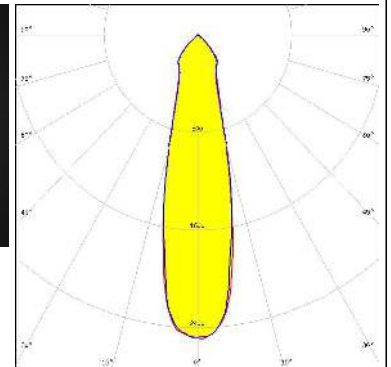
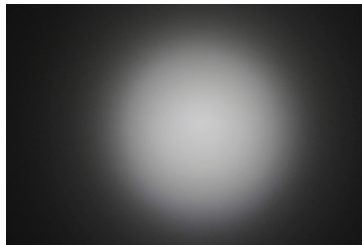
TRIDONIC

LED SLE G7 LES13
 FWHM / FWTM 29.0° / 83.0°
 Efficiency 87 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I
 C14658_BARBARA-RZ-LENS



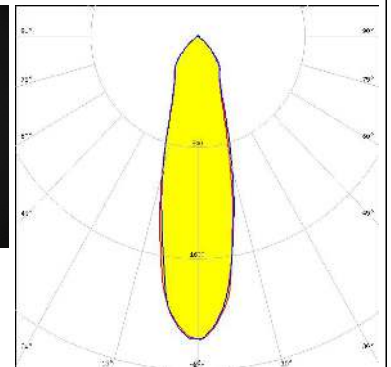
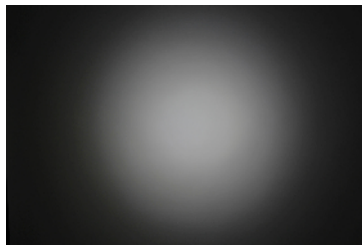
TRIDONIC

LED SLE G7 LES13
 FWHM / FWTM 26.0° / 78.0°
 Efficiency 94 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



TRIDONIC

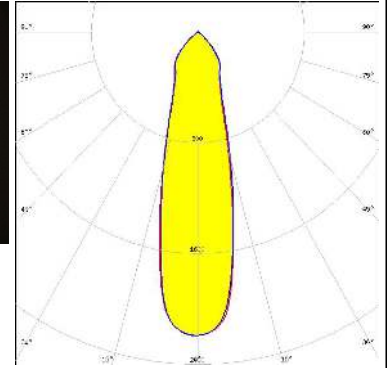
LED SLE G7 LES15
 FWHM / FWTM 28.0° / 81.0°
 Efficiency 94 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



OPTICAL RESULTS (MEASURED):

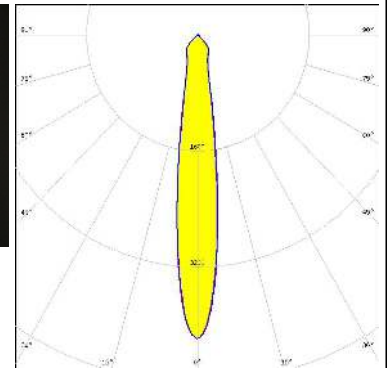
XICATO

LED XOB 14.5 mm
 FWHM / FWTM 27.0° / 82.0°
 Efficiency 94 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15859_HEKLA-SOCKET-I



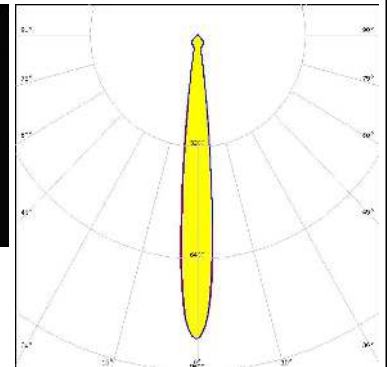
XICATO

LED XOB 6 mm
 FWHM / FWTM 15.0° / 41.0°
 Efficiency 88 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



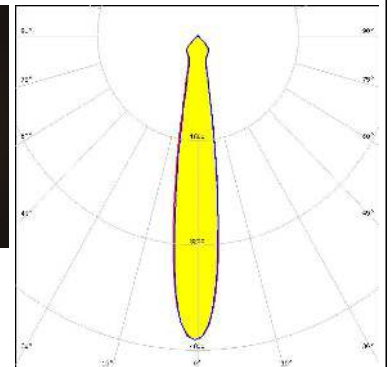
XICATO

LED XOB 6 mm
 FWHM / FWTM 11.0° / 21.0°
 Efficiency 94 %
 Peak intensity 8.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



XICATO

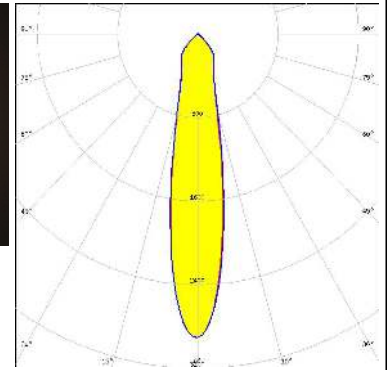
LED XOB 9.8 mm
 FWHM / FWTM 16.0° / 35.0°
 Efficiency 94 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C



OPTICAL RESULTS (MEASURED):

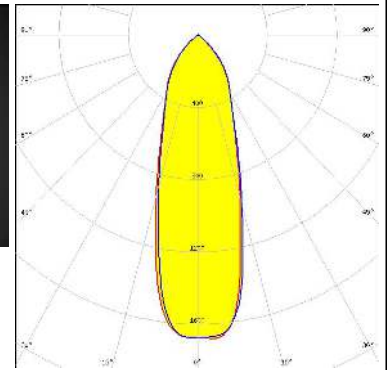
XICATO

LED XOB 9.8 mm
 FWHM / FWTM 21.0° / 69.0°
 Efficiency 90 %
 Peak intensity 2.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 F15255_HEKLA-SOCKET-C
 C14658_BARBARA-RZ-LENS



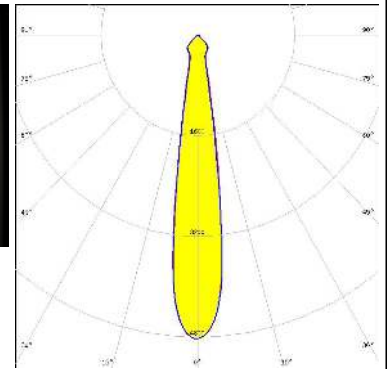
XICATO

LED XTM - 19mm LES
 FWHM / FWTM 33.0° / 86.0°
 Efficiency 92 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C15743_XTM-ADAPTER-50-B




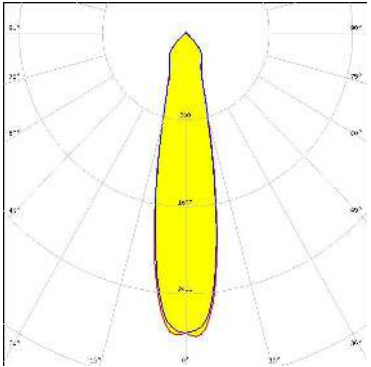



XICATO


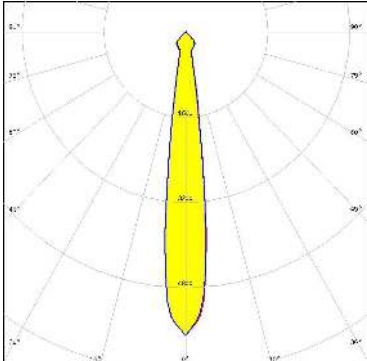

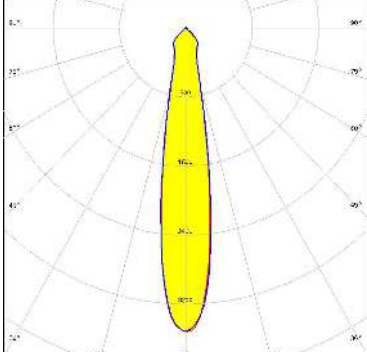


LED XTM - 9mm LES
 FWHM / FWTM 17.0° / 33.0°
 Efficiency 94 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 C15743_XTM-ADAPTER-50-B



OPTICAL RESULTS (SIMULATED):

		
LED	V10 Gen6	
FWHM / FWTM	15.0°	
Efficiency	0 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
F14988_HEKLA-SOCKET-E		
		
LED	V10 Gen6	
FWHM / FWTM	15.0° / 32.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required components:		
F14988_HEKLA-SOCKET-E		
		
LED	V13 Gen6	
FWHM / FWTM	24.0° / 70.0°	
Efficiency	92 %	
Peak intensity	2.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
F14988_HEKLA-SOCKET-E		
		
LED	V8 Gen6	
FWHM / FWTM	15.0° / 32.0°	
Efficiency	0 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
F15253_HEKLA-SOCKET-A		

OPTICAL RESULTS (SIMULATED):

<p></p> <p>LED V8 Gen7</p> <p>FWHM / FWTM 14.0° / 28.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 5.7 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 Vesta TW 9mm (9W) DP</p> <p>FWHM / FWTM 18.0° / 45.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K C14658_BARBARA-RZ-LENS Bender Wirth: 489 Typ L8</p>	
<p></p> <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850</p> <p>FWHM / FWTM 22.0°</p> <p>Efficiency %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15254_HEKLA-SOCKET-B</p>	
<p></p> <p>LED CXA/B 1816 & CXA/B 1820 & CXA 1850</p> <p>FWHM / FWTM 22.0°</p> <p>Efficiency 0 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15254_HEKLA-SOCKET-B</p>	

OPTICAL RESULTS (SIMULATED):

<p>LUMINUS</p> <p>LED CXM-3 FWHM / FWTM 6.0° / 12.0° Efficiency 93 % Peak intensity 25.2 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 434 Typ L8</p>	
<p>LUMINUS</p> <p>LED CXM-4 FWHM / FWTM 8.0° / 16.0° Efficiency 92 % Peak intensity 15.2 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>	
<p>LUMINUS</p> <p>LED CxM-6 (13.5x13.5) FWHM / FWTM 12.0° / 24.0° Efficiency 93 % Peak intensity 7.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C</p>	
<p>NICHIA</p> <p>LED COB L-Type (LES 11) FWHM / FWTM 20.0° / 51.0° Efficiency 93 % Peak intensity 3.3 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H</p>	

OPTICAL RESULTS (SIMULATED):

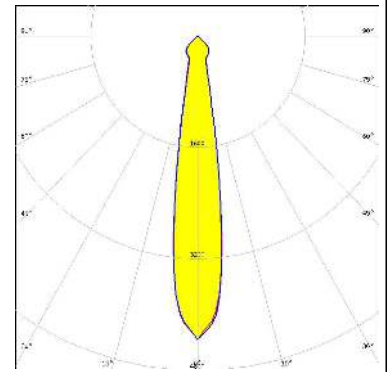
<p>NICHIA</p> <p>LED COB L-Type (LES 9)</p> <p>FWHM / FWTM 16.0° / 30.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 5.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15858_HEKLA-SOCKET-H</p>	
<p>NICHIA</p> <p>LED COB T-Type</p> <p>FWHM / FWTM 12.0° / 21.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>	
<p>NICHIA</p> <p>LED NFSWE11A</p> <p>FWHM / FWTM 14.0° / 28.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 5.7 cd/lm</p> <p>LEDs/each optic 30</p> <p>Light colour White</p> <p>Required components: C16142_HEKLA-SOCKET-K</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Soleriq S13 19x19</p> <p>FWHM / FWTM 23.9° / 70.4°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM

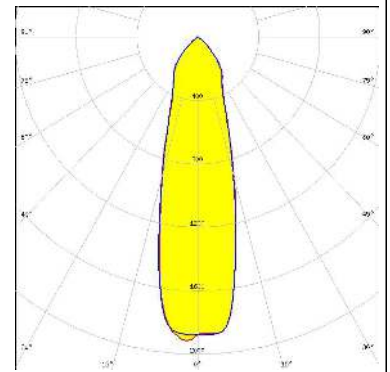
Opto Semiconductors

LED Soleriq S9
FWHM / FWTM 17.4° / 36.5°
Efficiency 93 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15255_HEKLA-SOCKET-C



SAMSUNG

LED LC016D / LC019D / LC026D / LC033D
FWHM / FWTM 29.0° / 82.1°
Efficiency 88 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
F15859_HEKLA-SOCKET-I



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

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