

## CARMEN-S-C

~14° spot beam. Assembly with holder C compatible with LEDiL HEKLA.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 69.5 mm
Height	41.5 mm
Fastening	socket
ROHS compliant	yes ⓘ

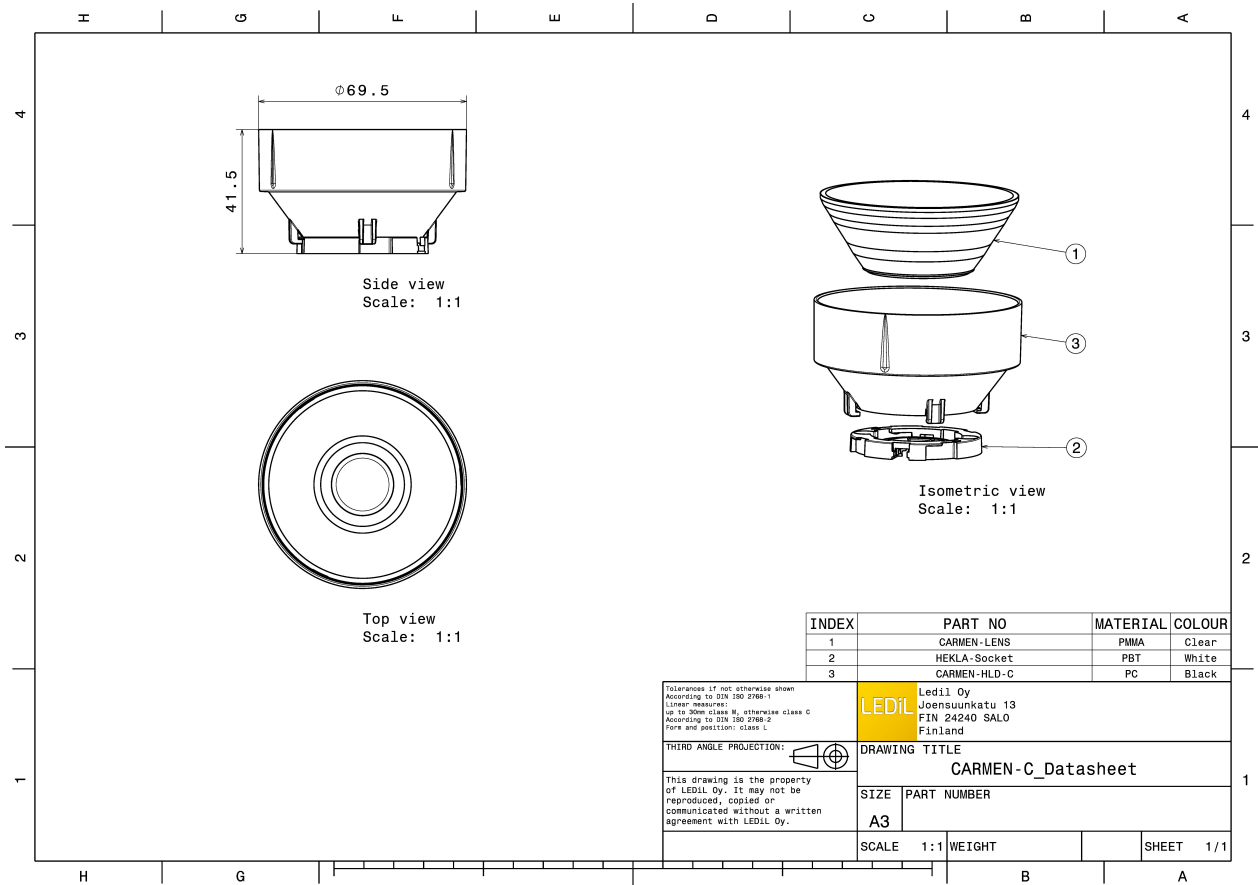
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP15774_CARMEN-S-C	Single lens	150	150	15	4.5
» Box size: 476 x 273 x 292 mm					

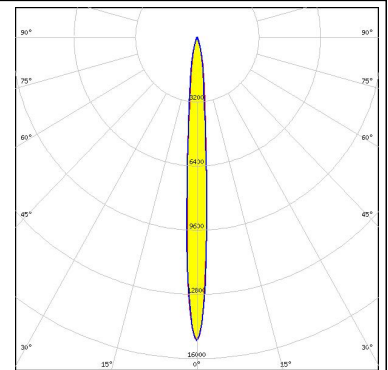
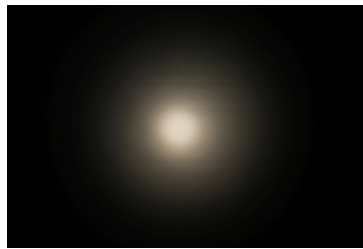




#### PHOTOMETRIC DATA (MEASURED):

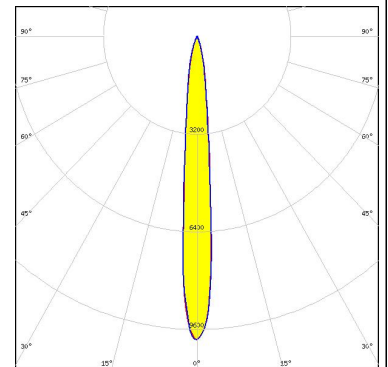
bridgelux.

LED V4 HD  
FWHM 8.0°  
Efficiency 78 %  
Peak intensity 15 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15253\_HEKLA-SOCKET-A



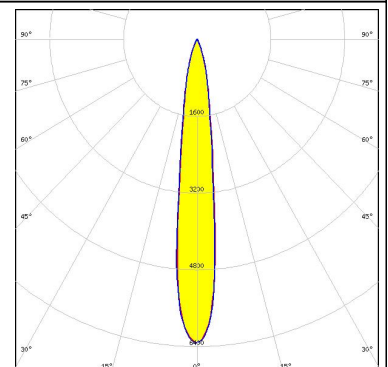
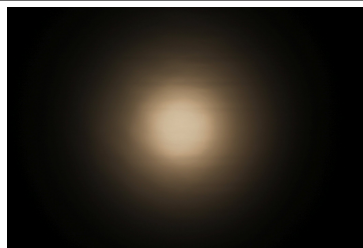
bridgelux.

LED V6 HD  
FWHM 10.0°  
Efficiency 75 %  
Peak intensity 9.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



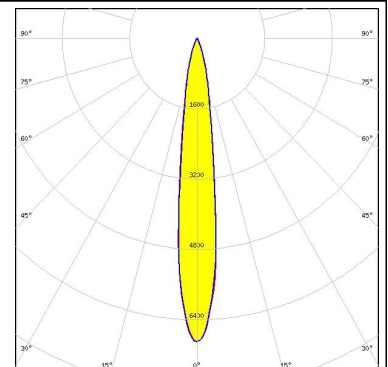
bridgelux.

LED V9 HD  
FWHM 14.0°  
Efficiency 72 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



bridgelux.

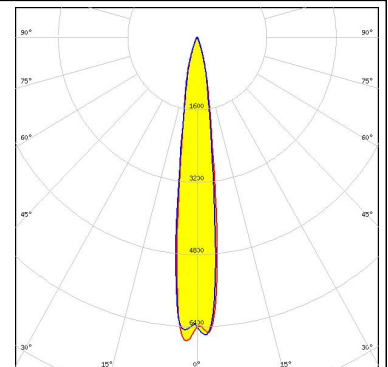
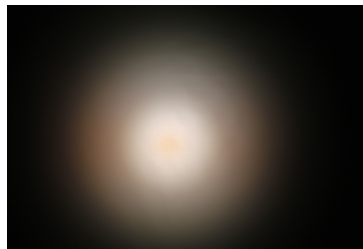
LED VERO10  
FWHM 14.0°  
Efficiency 75 %  
Peak intensity 6.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15616\_HEKLA-SOCKET-F



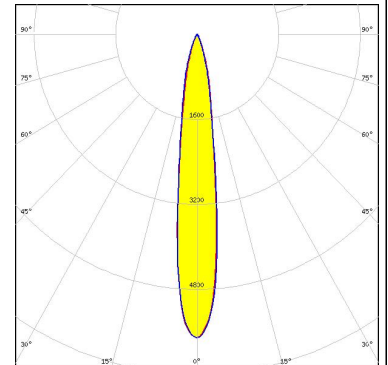
#### PHOTOMETRIC DATA (MEASURED):



LED Vesta DTW 9mm (4W/6W/12W)  
 FWHM 14.0°  
 Efficiency 71 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 490 Typ L8

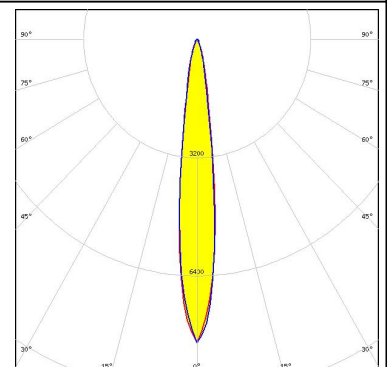
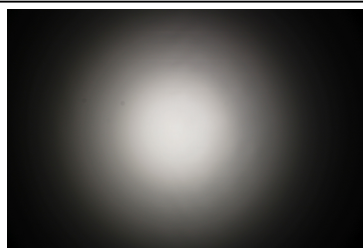


LED Vesta TW 9mm (9W) DP  
 FWHM 15.0°  
 Efficiency 71 %  
 Peak intensity 5.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 489 Typ L8



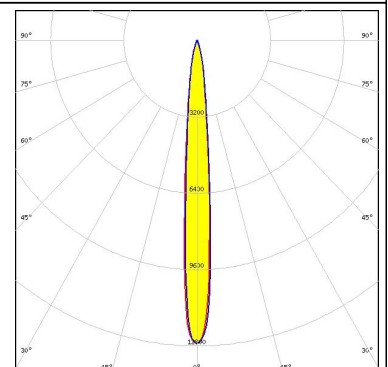
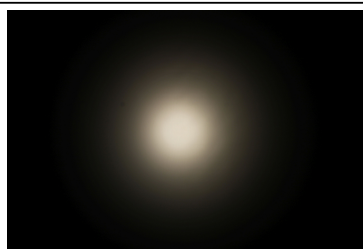
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 15.0°  
 Efficiency 74 %  
 Peak intensity 6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### CITIZEN

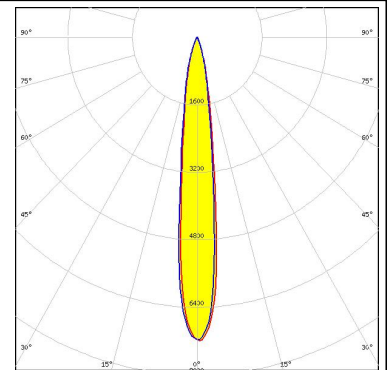
LED CLU700/701/702  
 FWHM 10.0°  
 Efficiency 78 %  
 Peak intensity 12.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### PHOTOMETRIC DATA (MEASURED):

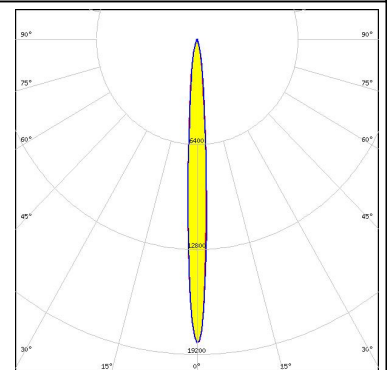
#### CITIZEN

LED CLU710/711  
FWHM 13.0°  
Efficiency 73 %  
Peak intensity 7.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



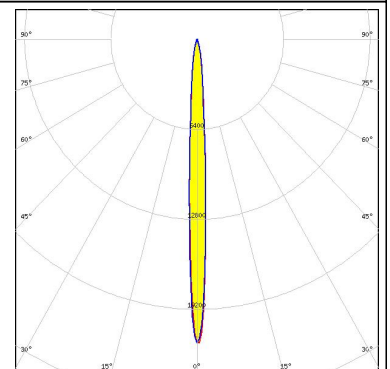
#### CITIZEN

LED CLU7A2 (LES 4.2mm)  
FWHM 7.0°  
Efficiency 80 %  
Peak intensity 18.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



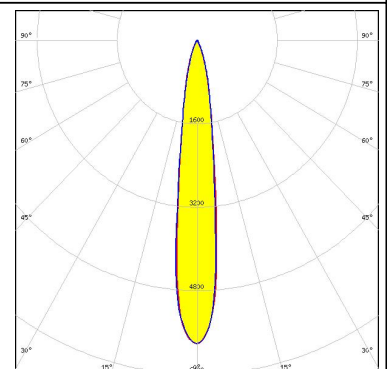
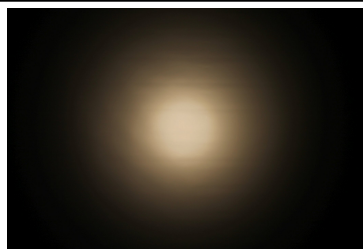
#### CITIZEN

LED CLU7B2  
FWHM 6.0°  
Efficiency 80 %  
Peak intensity 21.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



#### CREE

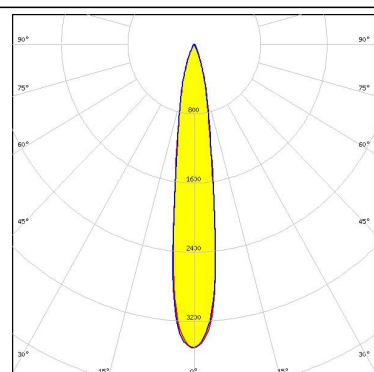
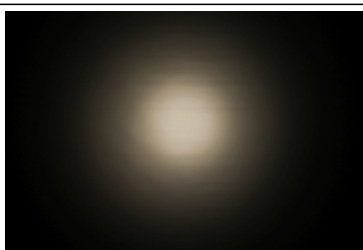
LED CMA1516  
FWHM 14.0°  
Efficiency 72 %  
Peak intensity 5.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15256\_HEKLA-SOCKET-D



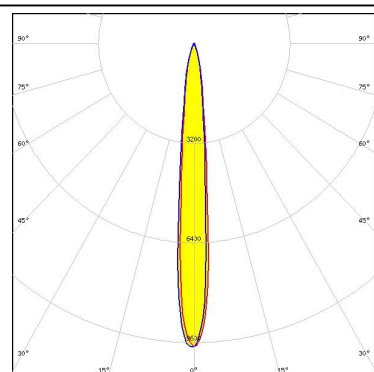
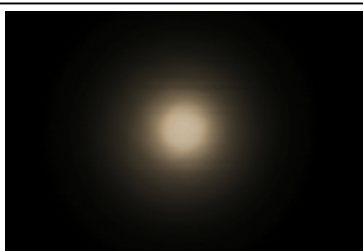
#### PHOTOMETRIC DATA (MEASURED):



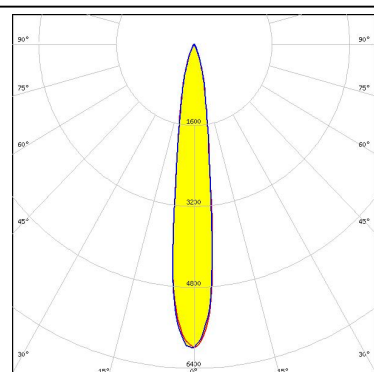
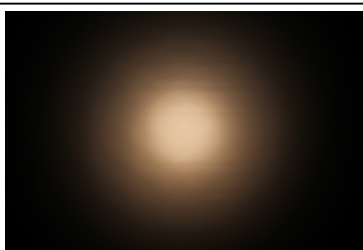
LED CMT14xx  
FWHM 15.0°  
Efficiency 48 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



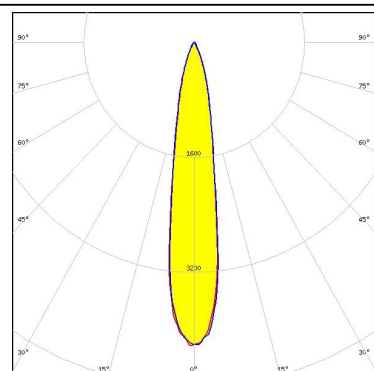
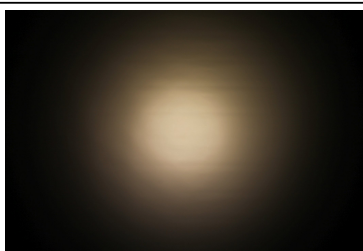
LED LUXEON CoB 1202HD  
FWHM 10.0°  
Efficiency 75 %  
Peak intensity 9.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



LED LUXEON CoB 1204HD  
FWHM 14.0°  
Efficiency 73 %  
Peak intensity 6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15858\_HEKLA-SOCKET-H



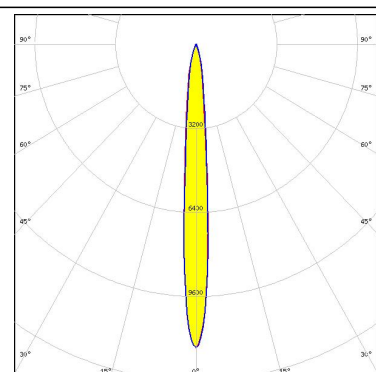
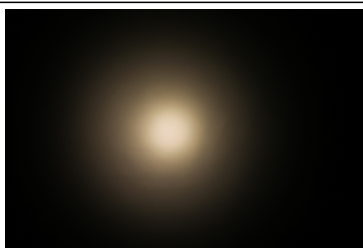
LED LUXEON CoB 1205HD  
FWHM 17.0°  
Efficiency 69 %  
Peak intensity 4.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15858\_HEKLA-SOCKET-H



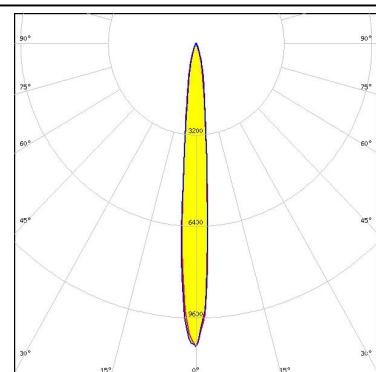
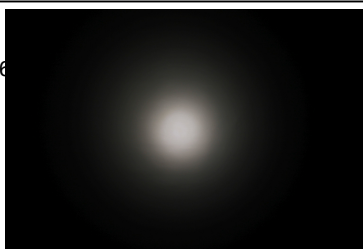
#### PHOTOMETRIC DATA (MEASURED):



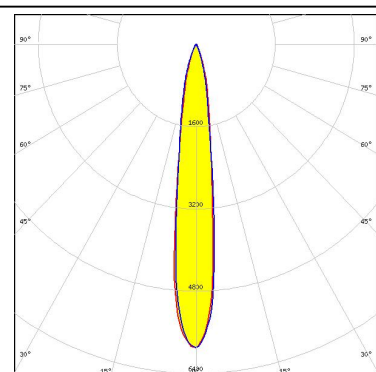
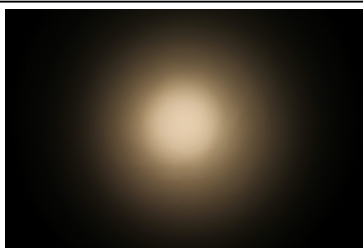
LED LUXEON CX Plus CoB - HD S01H4  
 FWHM 9.0°  
 Efficiency 75 %  
 Peak intensity 11.6 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



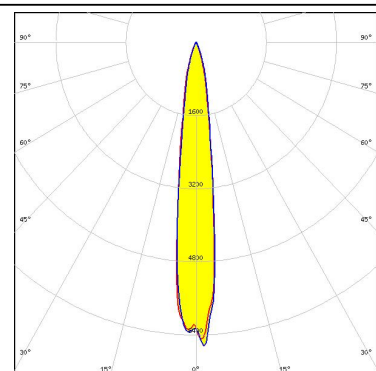
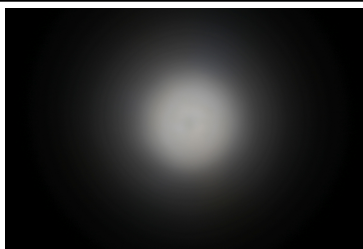
LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6  
 FWHM 10.0°  
 Efficiency 75 %  
 Peak intensity 10.6 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S04H9  
 FWHM 14.0°  
 Efficiency 72 %  
 Peak intensity 5.9 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 634c Hekla



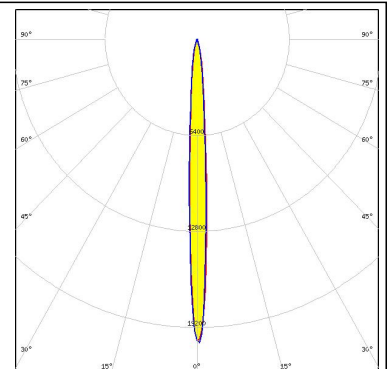
LED CDM-9 (Dim-To-Warm)  
 FWHM 14.0°  
 Efficiency 71 %  
 Peak intensity 6.7 cd/Im  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 490 Typ L8



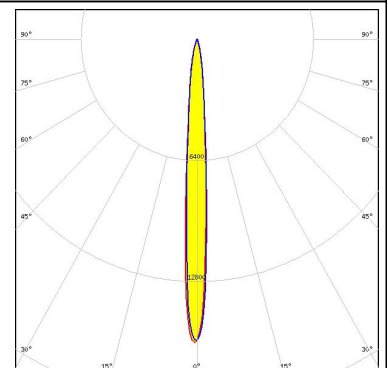
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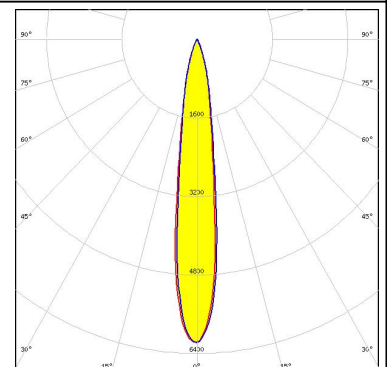
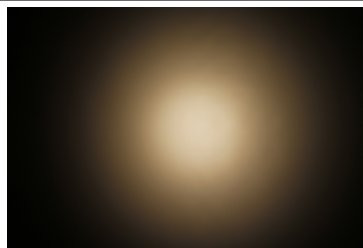
LED CXM-3  
FWHM 7.0°  
Efficiency 80 %  
Peak intensity 20.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



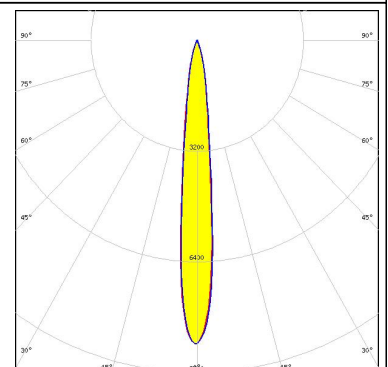
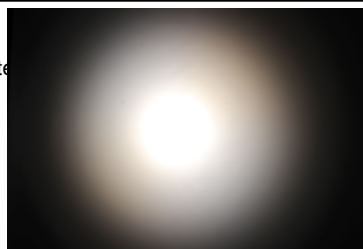
LED CXM-4  
FWHM 8.0°  
Efficiency 78 %  
Peak intensity 16 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



LED CxM-9 (13.5x13.5)  
FWHM 15.0°  
Efficiency 74 %  
Peak intensity 6.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



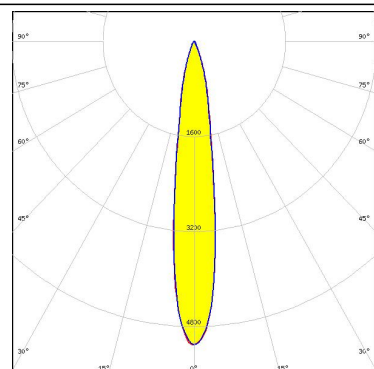
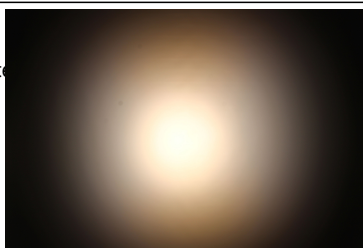
LED NJCWL024Z-V1MT: COB L-Type Tunable White  
FWHM 12.0°  
Efficiency 71 %  
Peak intensity 8.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 497 Typ L8



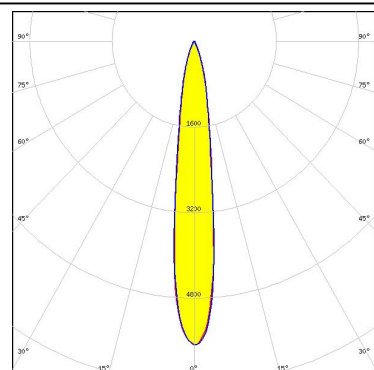
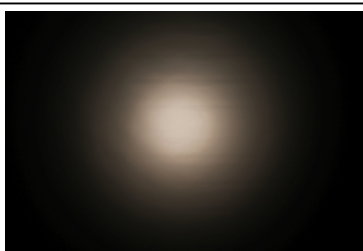
#### PHOTOMETRIC DATA (MEASURED):



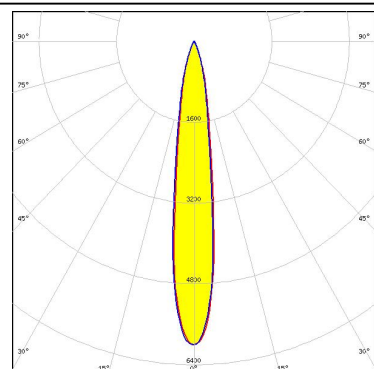
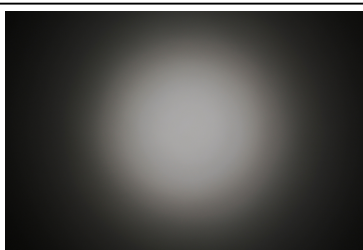
LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM 16.0°  
 Efficiency 69 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 498 Typ L8



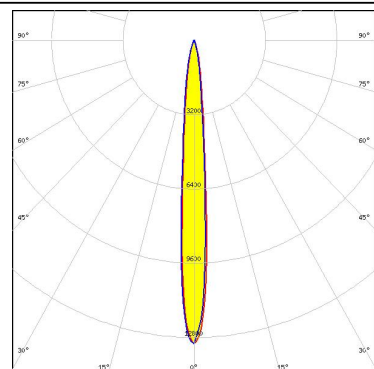
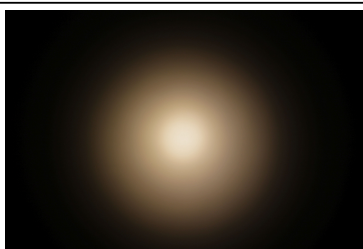
LED Fortimo SLM L09 CoB  
 FWHM 15.0°  
 Efficiency 72 %  
 Peak intensity 5.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



LED LC003D / LC006D / LC009D / LC013D  
 FWHM 15.0°  
 Efficiency 74 %  
 Peak intensity 6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



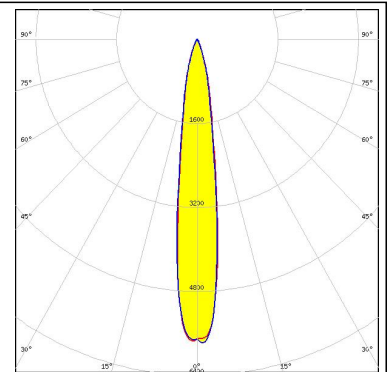
LED LC010C G2  
 FWHM 9.0°  
 Efficiency 77 %  
 Peak intensity 13.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### PHOTOMETRIC DATA (MEASURED):

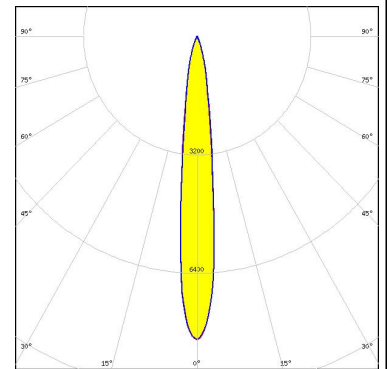
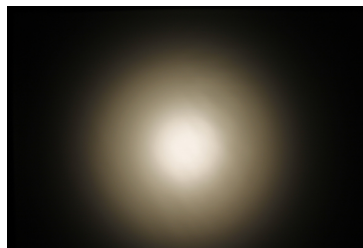
#### SAMSUNG

LED LC010T (Tunable White)  
 FWHM 15.0°  
 Efficiency 71 %  
 Peak intensity 5.8 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



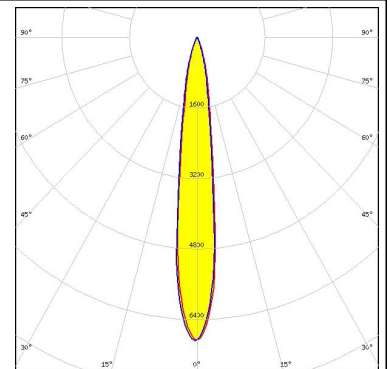
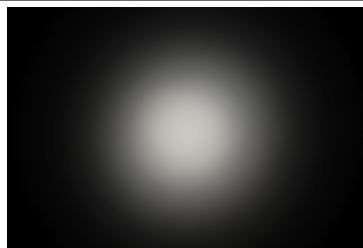
#### SAMSUNG

LED LC020C  
 FWHM 12.0°  
 Efficiency 76 %  
 Peak intensity 8.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



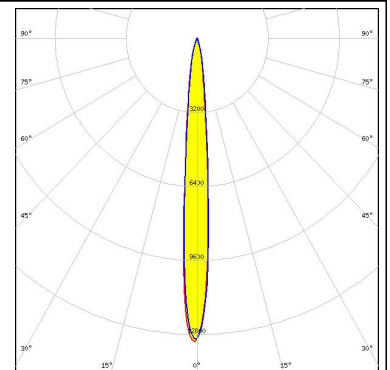
#### SAMSUNG

LED LC020C G2  
 FWHM 14.0°  
 Efficiency 74 %  
 Peak intensity 6.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I


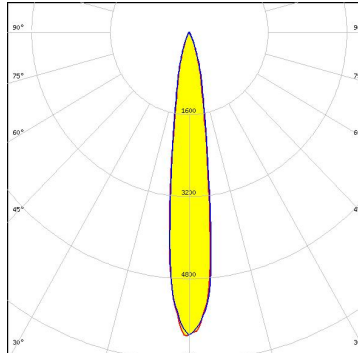

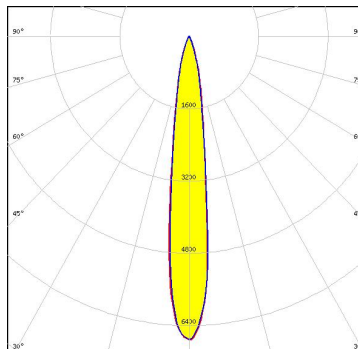
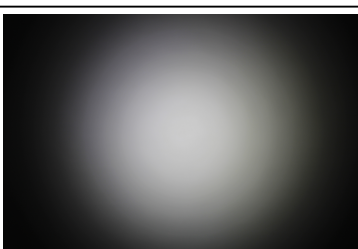
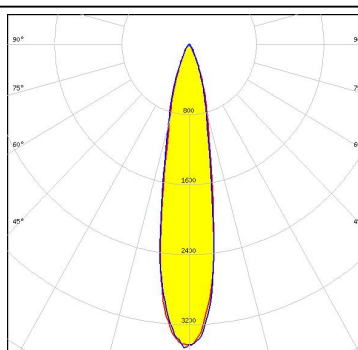
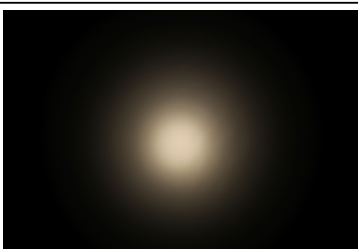
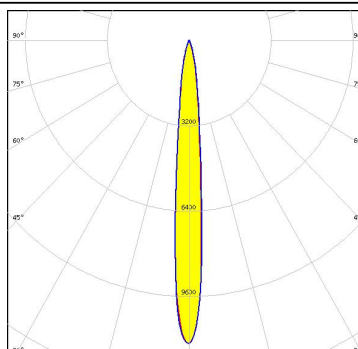


SEOL SEMICONDUCTOR

LED MJT COB LES 6  
 FWHM 9.0°  
 Efficiency 76 %  
 Peak intensity 13.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



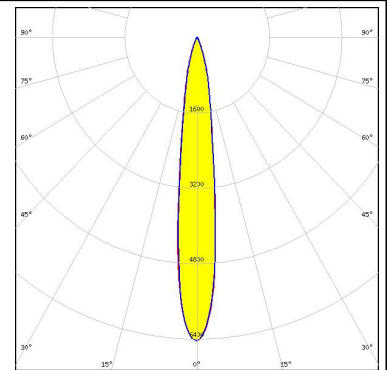
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED MJT COB LES 9.8 FWHM 15.0° Efficiency 72 % Peak intensity 5.9 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G7 LES09 FWHM 14.0° Efficiency 74 % Peak intensity 6.7 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p><b>TRIDONIC</b></p> <p>LED SLE G7 LES13 FWHM 20.0° Efficiency 69 % Peak intensity 3.5 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		
<p><b>XICATO</b></p> <p>LED XOB 6 mm FWHM 10.0° Efficiency 76 % Peak intensity 11.4 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		

## PHOTOMETRIC DATA (MEASURED):

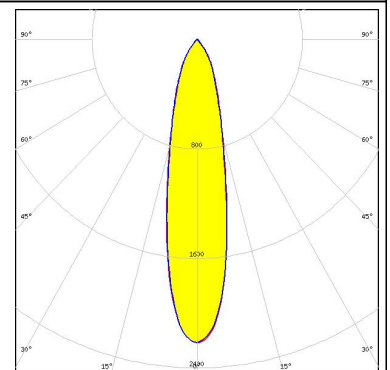
### XICATO

LED XOB 9.8 mm  
FWHM 14.0°  
Efficiency 74 %  
Peak intensity 6.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



### XICATO

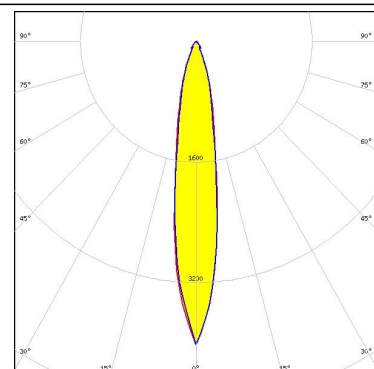
LED XTM - 19mm LES  
FWHM 23.0°  
Efficiency 66 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16058\_XTM-ADAPTER-50-C



#### PHOTOMETRIC DATA (SIMULATED):

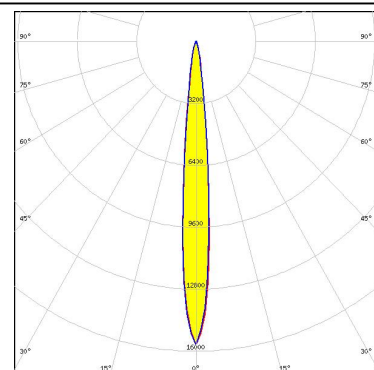


LED VERO13  
FWHM 16.0°  
Efficiency 70 %  
Peak intensity 4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K

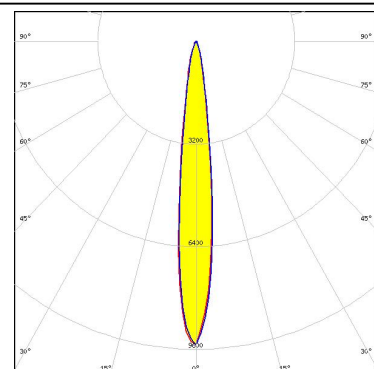


#### CITIZEN

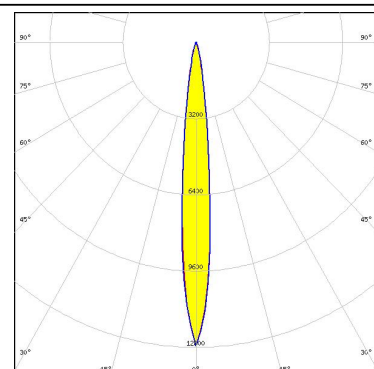
LED CLU700/701/702  
FWHM 10.4°  
Efficiency 0 %  
Peak intensity 15.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



LED CXA/B 15xx  
FWHM 12.9°  
Efficiency 0 %  
Peak intensity 9.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15256\_HEKLA-SOCKET-D



LED COB T-Type  
FWHM 11.0°  
Efficiency 78 %  
Peak intensity 12.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



### 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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