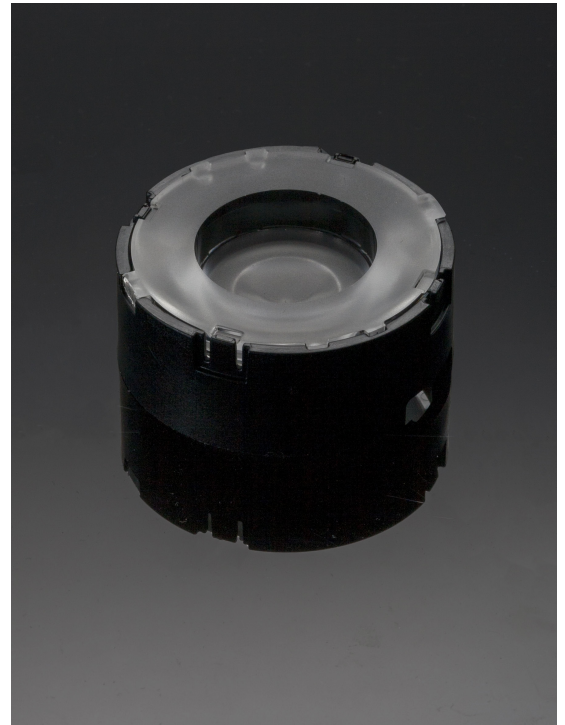


## WINNIE-S-C

~20° spot beam with holder C compatible with  
LEDiL HEKLA

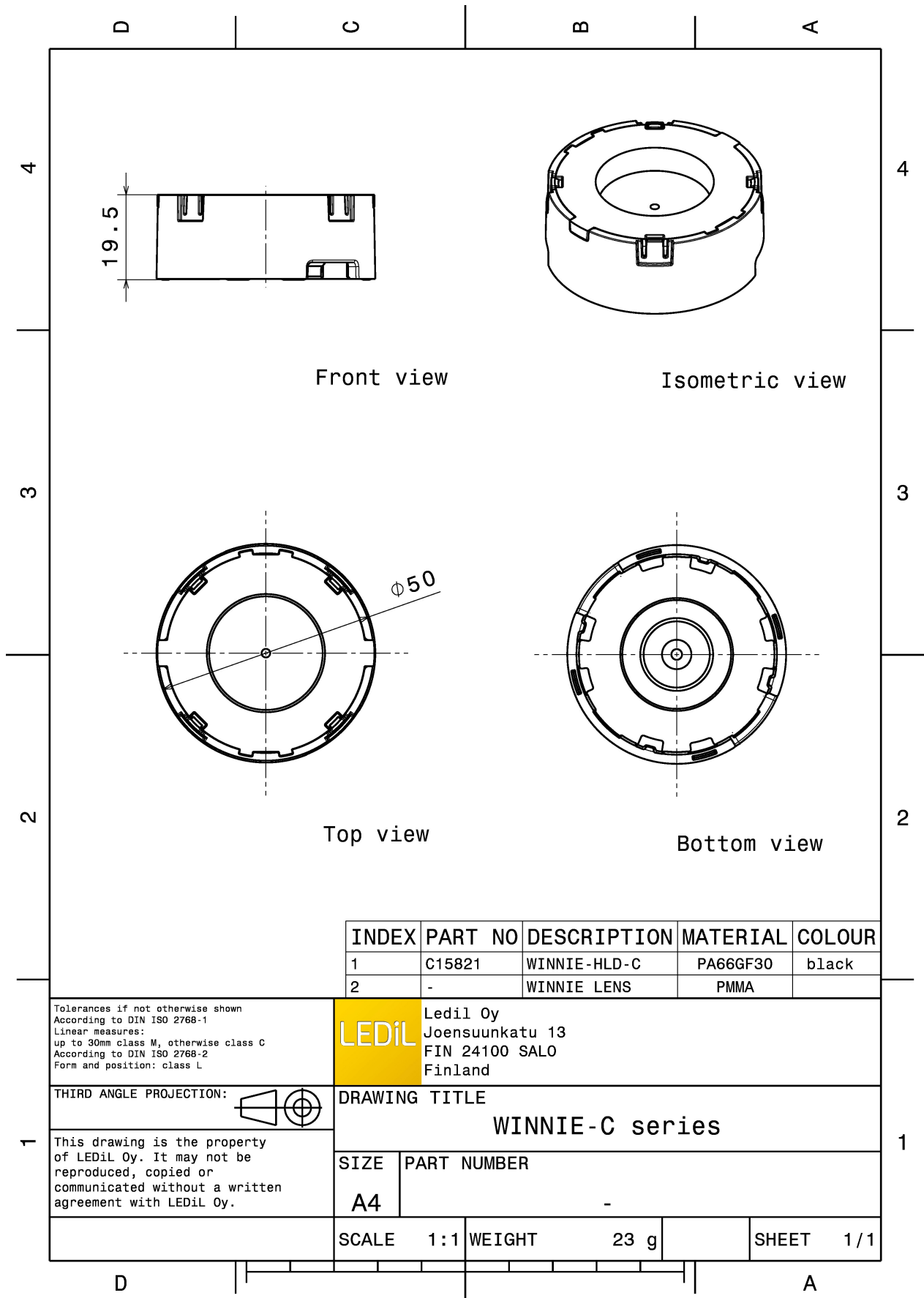
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 50.0 mm
Height	19.5 mm
Fastening	socket
Colour	black
Box size	
Box weight	0 kg
Quantity in Box	364 pcs
ROHS compliant	yes ⓘ


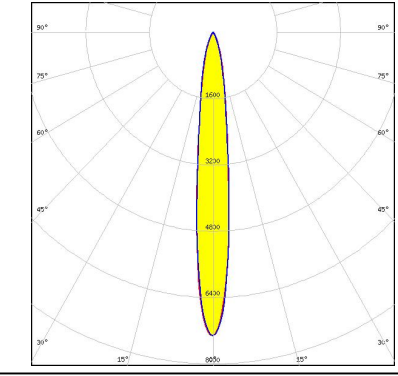
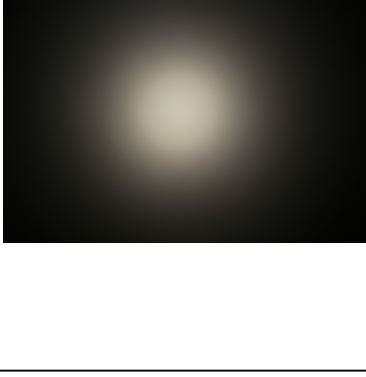
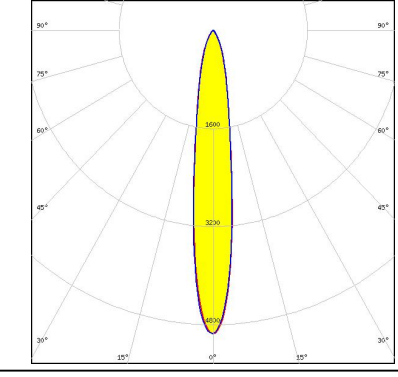
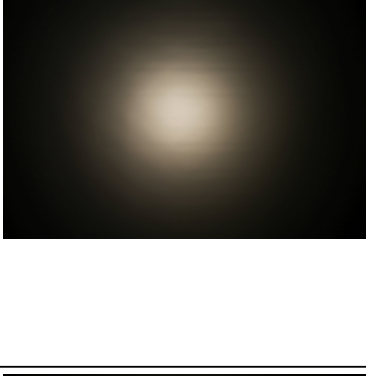
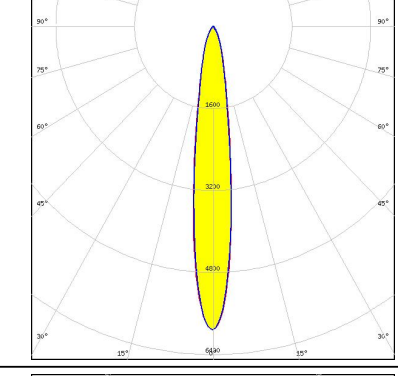

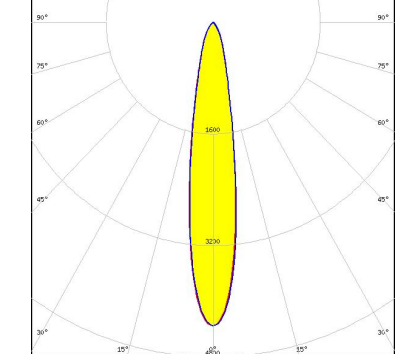


### MATERIAL SPECIFICATIONS:


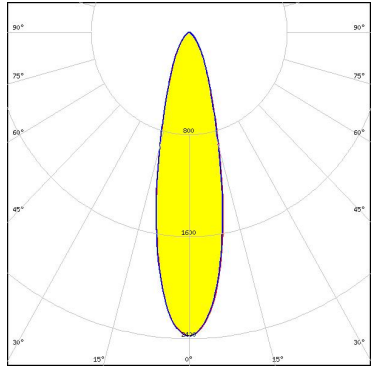
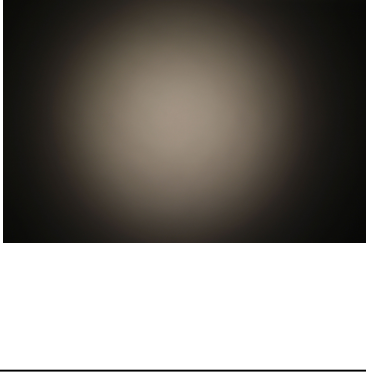
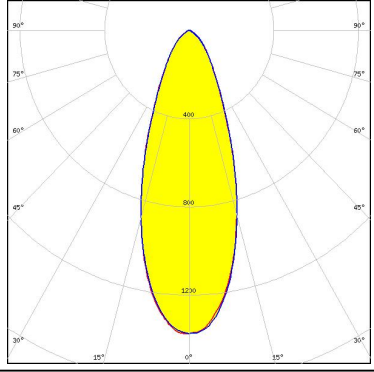

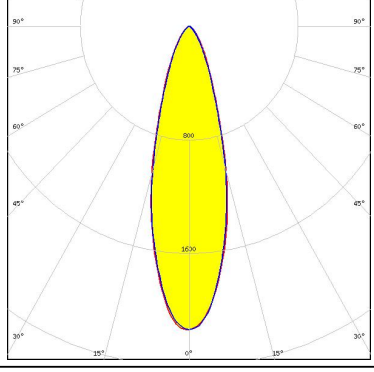

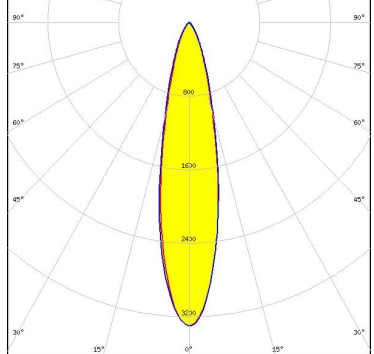
Component	Type	Material	Colour
WINNIE-S	Single lens	PMMA	clear
WINNIE-HLD-C	Holder	PC	black



#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V4 HD FWHM 13.0° Efficiency 87 % Peak intensity 7.300 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A</p>		
<p>bridgelux.</p> <p>LED V6 Gen6 FWHM 15.0° Efficiency 84 % Peak intensity 5.000 cd/lm LEDs/each optic 1 Light colour White Required components: F15253_HEKLA-SOCKET-A</p>		
<p>bridgelux.</p> <p>LED V6 HD FWHM 15.0° Efficiency 87 % Peak intensity 5.900 cd/lm LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C</p>		
<p>bridgelux.</p> <p>LED V9 HD FWHM 18.0° Efficiency 86 % Peak intensity 4.400 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I</p>		

#### PHOTOMETRIC DATA (MEASURED):

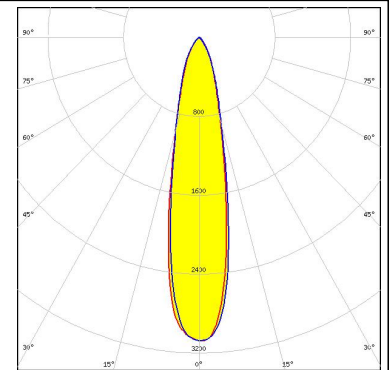
<p>bridgelux.</p> <p>LED VERO13            FWHM 26.0°            Efficiency 83 %            Peak intensity 2.400 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>		
<p>bridgelux.</p> <p>LED VERO18            FWHM 37.0°            Efficiency 81 %            Peak intensity 1.400 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>		
<p>bridgelux.</p> <p>LED Vesta TW 13mm (25W) CSP            FWHM 29.0°            Efficiency 82 %            Peak intensity 2.100 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            Bender Wirth: 492 Typ L8</p>		
<p>bridgelux.</p> <p>LED Vesta TW 9mm (12W) CSP            FWHM 23.0°            Efficiency 84 %            Peak intensity 3.300 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K</p>		



#### PHOTOMETRIC DATA (MEASURED):

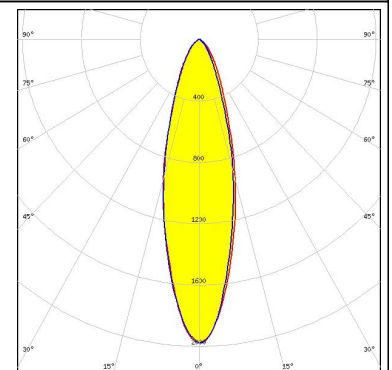
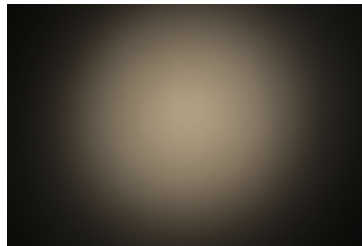
#### CITIZEN

LED CLC020 Series (Dim-To-Warm)  
 FWHM 22.0°  
 Efficiency 83 %  
 Peak intensity 3.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



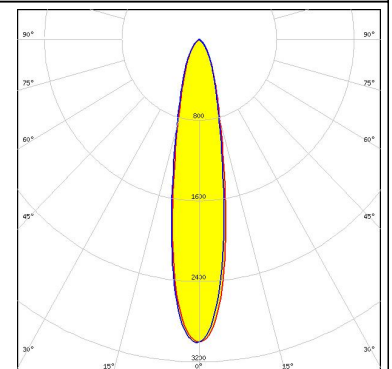
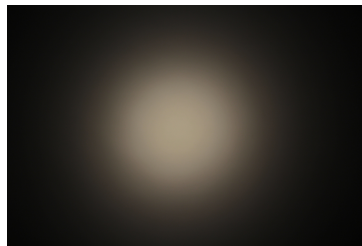
#### CITIZEN

LED CLC030 Series (Dim-To-Warm)  
 FWHM 29.0°  
 Efficiency 80 %  
 Peak intensity 2.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K



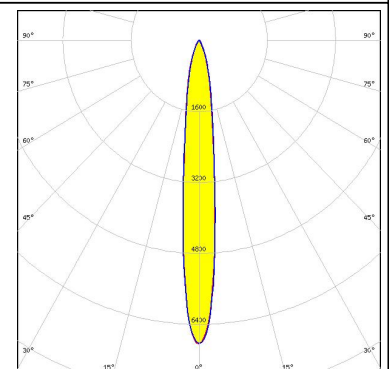
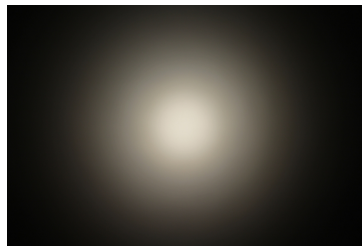
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 20.0°  
 Efficiency 81 %  
 Peak intensity 3.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### CITIZEN

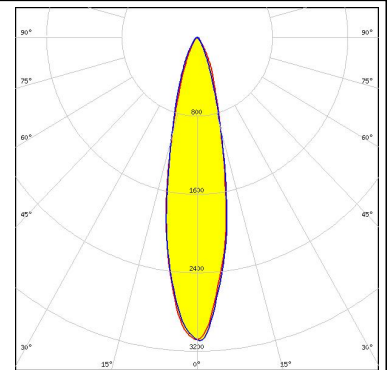
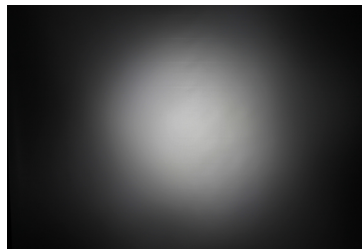
LED CLU7A2 (LES 4.2mm)  
 FWHM 13.0°  
 Efficiency 85 %  
 Peak intensity 6.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### PHOTOMETRIC DATA (MEASURED):

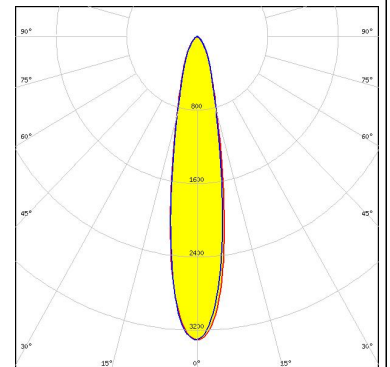
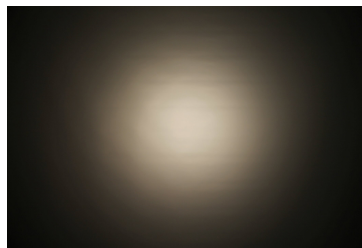
#### CITIZEN

LED LCN-C01B (Tunable White)  
 FWHM 23.0°  
 Efficiency 83 %  
 Peak intensity 3.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 481 Typ L8



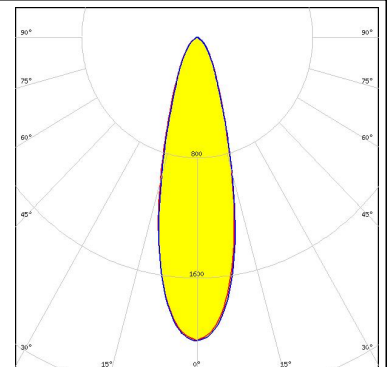
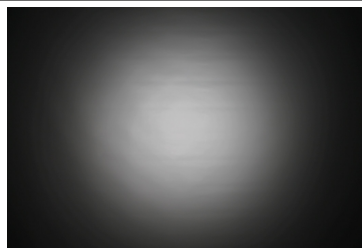
#### CREE

LED CMT14xx  
 FWHM 20.0°  
 Efficiency 85 %  
 Peak intensity 3.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



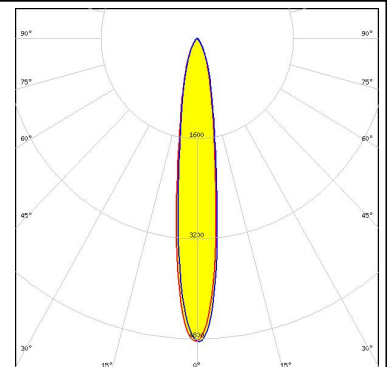
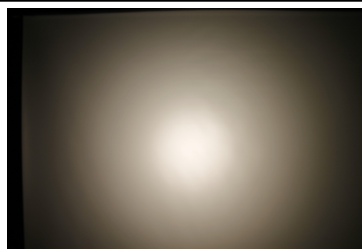
#### CREE

LED CMT19xx  
 FWHM 29.0°  
 Efficiency 83 %  
 Peak intensity 2.018 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I


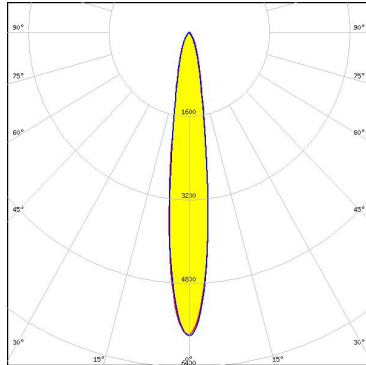
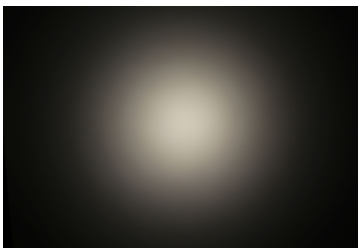
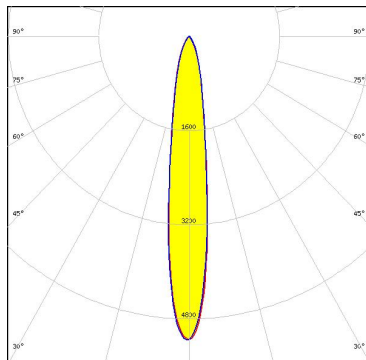

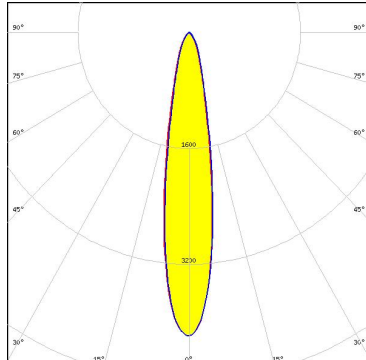
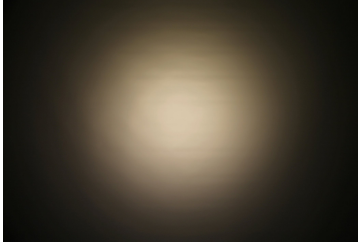
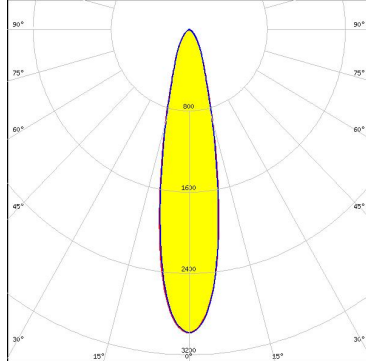


#### CREE

LED CXA/B 13xx  
 FWHM 15.0°  
 Efficiency 85 %  
 Peak intensity 4.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15956\_HEKLA-SOCKET-J



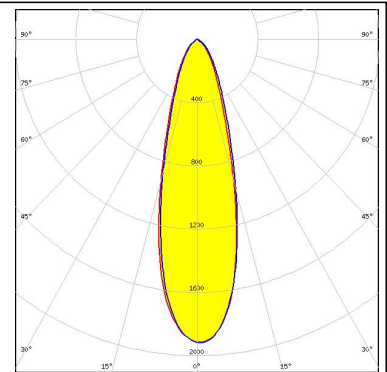
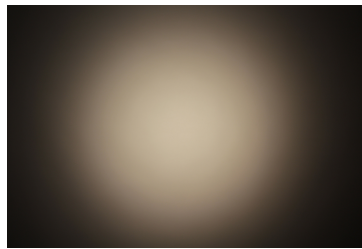
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202HD            FWHM 15.0°            Efficiency 87 %            Peak intensity 5.803 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15848_HEKLA-SOCKET-G</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s            FWHM 15.0°            Efficiency 85 %            Peak intensity 5.200 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15848_HEKLA-SOCKET-G</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1204HD            FWHM 18.0°            Efficiency 87 %            Peak intensity 4.200 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15858_HEKLA-SOCKET-H</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1205HD            FWHM 22.0°            Efficiency 85 %            Peak intensity 3.000 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15858_HEKLA-SOCKET-H</p>		

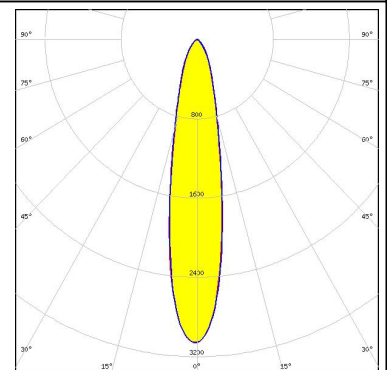
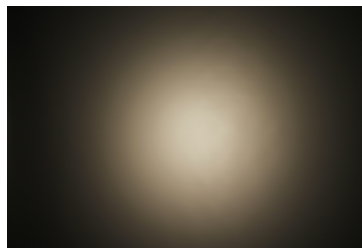
#### PHOTOMETRIC DATA (MEASURED):



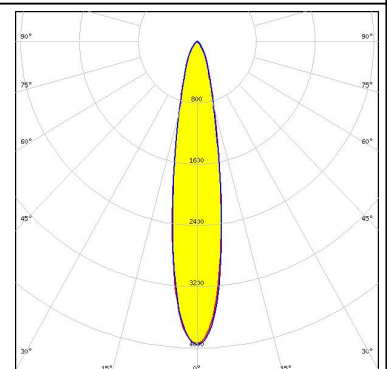
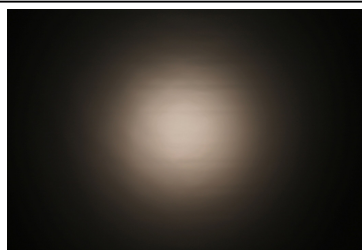
LED CxM-14 (19x19)  
 FWHM 29.0°  
 Efficiency 83 %  
 Peak intensity 1.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



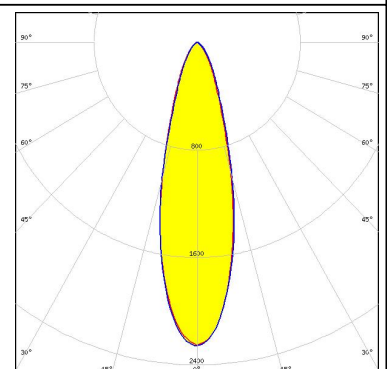
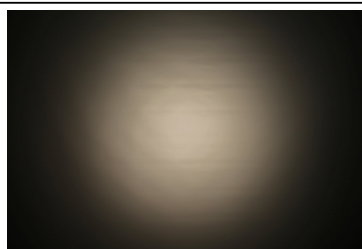
LED CxM-9 (13.5x13.5)  
 FWHM 20.0°  
 Efficiency 83 %  
 Peak intensity 3.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



LED Fortimo SLM L09 CoB  
 FWHM 19.0°  
 Efficiency 87 %  
 Peak intensity 4.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



LED Fortimo SLM L13 CoB  
 FWHM 28.0°  
 Efficiency 84 %  
 Peak intensity 2.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8

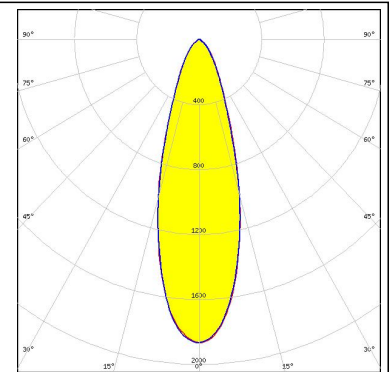




#### PHOTOMETRIC DATA (MEASURED):

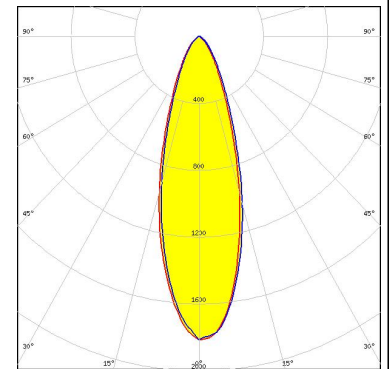
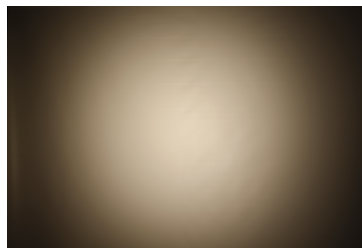
### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM 32.0°  
 Efficiency 83 %  
 Peak intensity 1.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



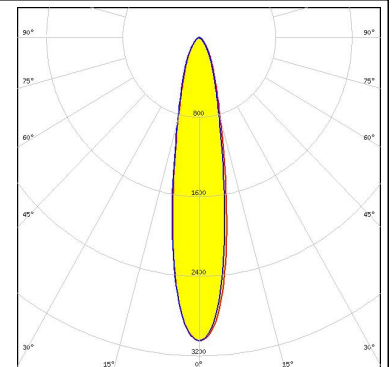
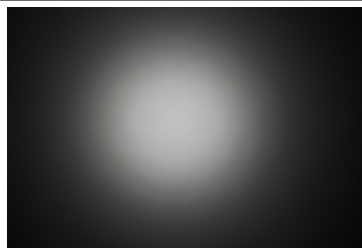
### SAMSUNG

LED COB D Series LES 14.5 mm  
 FWHM 32.0°  
 Efficiency 81 %  
 Peak intensity 1.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



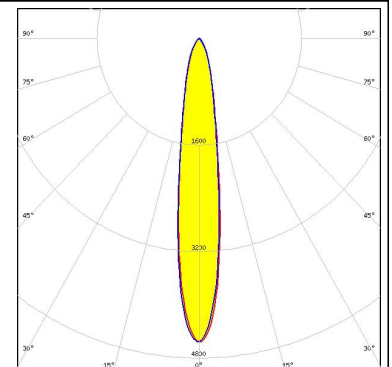
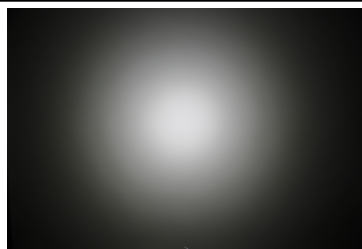
### SAMSUNG

LED COB D Series LES 9.8 mm  
 FWHM 21.0°  
 Efficiency 83 %  
 Peak intensity 3.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

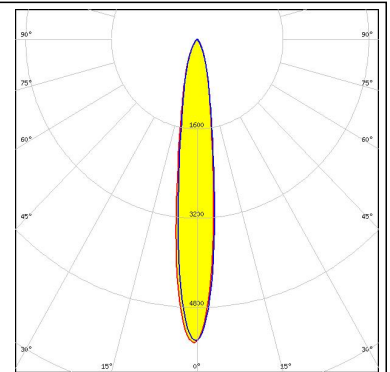
LED LC010C  
 FWHM 16.0°  
 Efficiency 84 %  
 Peak intensity 4.600 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



#### PHOTOMETRIC DATA (MEASURED):

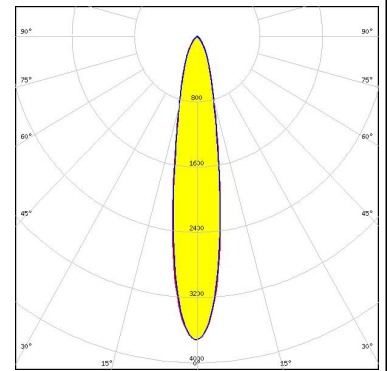
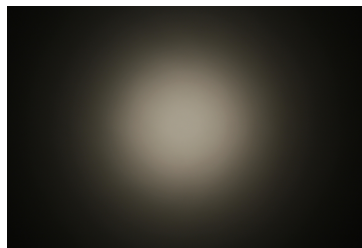
#### SAMSUNG

LED LC010C G2  
 FWHM 14.0°  
 Efficiency 84 %  
 Peak intensity 5.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



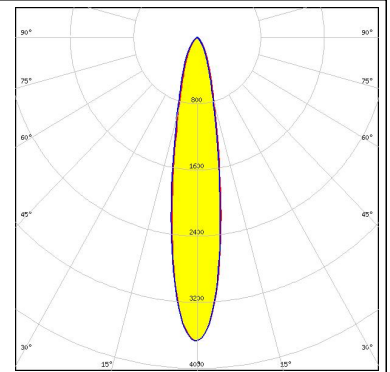
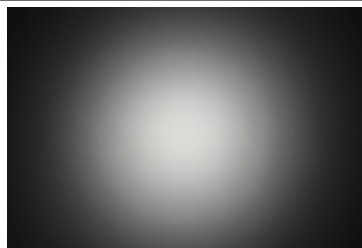
#### SAMSUNG

LED LC020C  
 FWHM 18.0°  
 Efficiency 84 %  
 Peak intensity 3.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



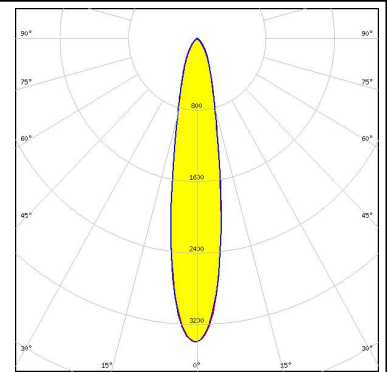
#### SAMSUNG

LED LC020C G2  
 FWHM 19.0°  
 Efficiency 84 %  
 Peak intensity 3.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### TRIDONIC

LED SLE G7 LES09  
 FWHM 19.0°  
 Efficiency 83 %  
 Peak intensity 3.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

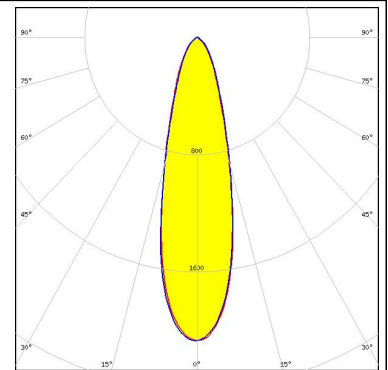




#### PHOTOMETRIC DATA (MEASURED):

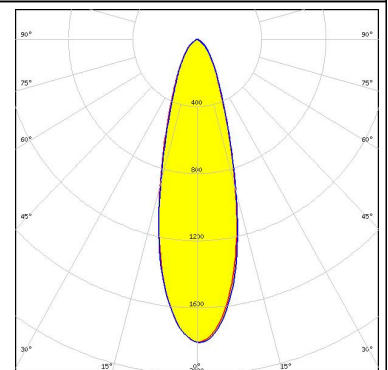
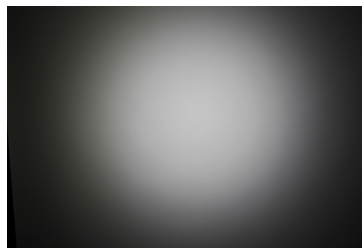
#### TRIDONIC

LED SLE G7 LES13  
 FWHM 27.0°  
 Efficiency 81 %  
 Peak intensity 2.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



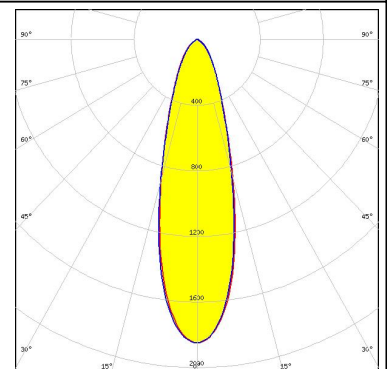
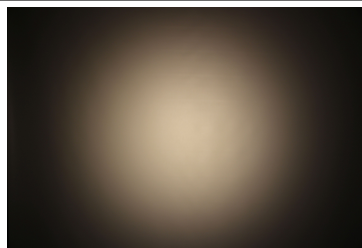
#### TRIDONIC

LED SLE G7 LES15  
 FWHM 30.0°  
 Efficiency 81 %  
 Peak intensity 1.800 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



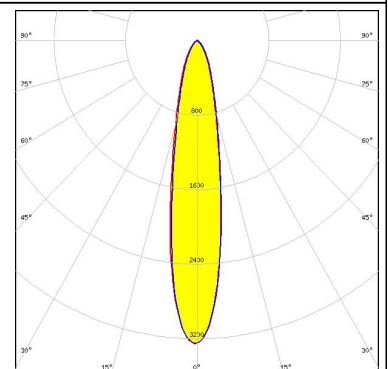
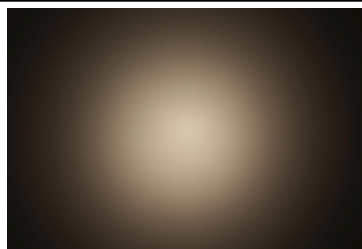
#### XICATO

LED XOB 14.5 mm  
 FWHM 29.0°  
 Efficiency 80 %  
 Peak intensity 1.849 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I


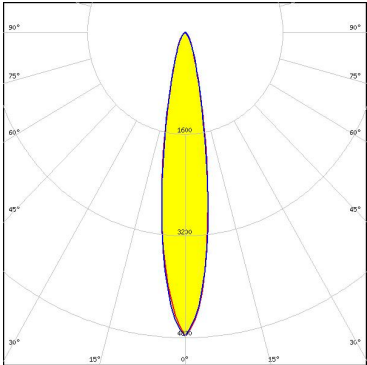
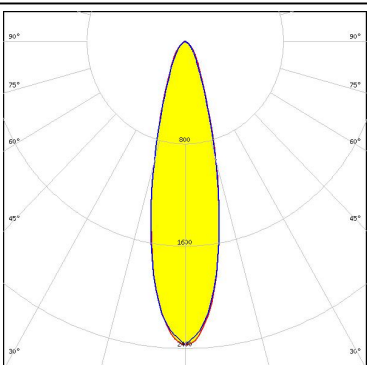

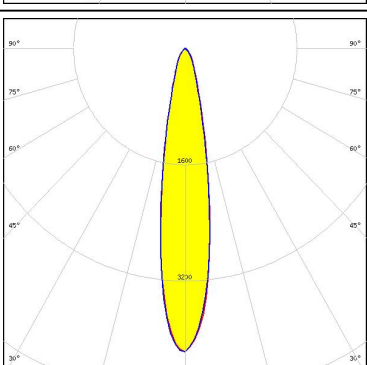

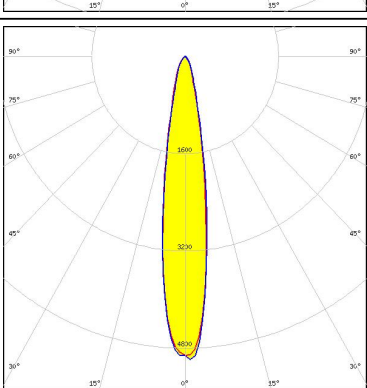


#### XICATO

LED XOB 9.8 mm  
 FWHM 20.0°  
 Efficiency 83 %  
 Peak intensity 3.255 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



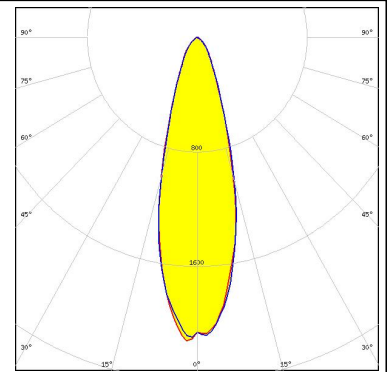
#### PHOTOMETRIC DATA (SIMULATED):

<p> <b>bridgelux</b></p> <p>LED VERO10            FWHM 18.0°            Efficiency 86 %            Peak intensity 4.773 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15616_HEKLA-SOCKET-F</p>	
<p><b>CITIZEN</b></p> <p>LED CLL03x/CLU03x            FWHM 26.0°            Efficiency 79 %            Peak intensity 2.376 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>	
<p> <b>CREE</b></p> <p>LED CMT14xx            FWHM 19.0°            Efficiency 85 %            Peak intensity 4.180 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>	
<p> <b>CREE</b></p> <p>LED CXA/B 15xx            FWHM 18.0°            Efficiency 84 %            Peak intensity 5.015 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15256_HEKLA-SOCKET-D</p>	

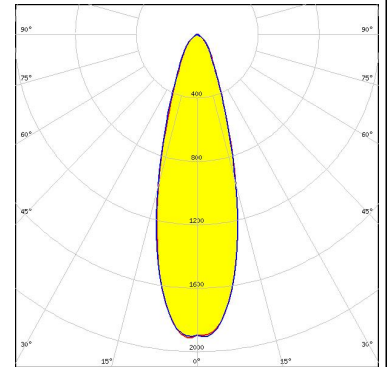
#### PHOTOMETRIC DATA (SIMULATED):

### SAMSUNG

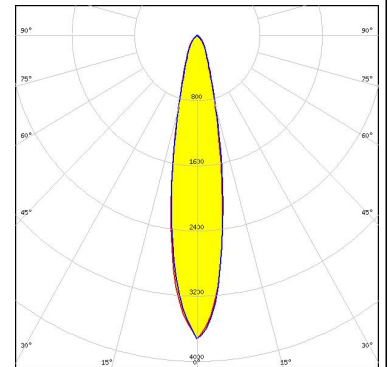
LED COB D Series LES 14.5 mm  
 FWHM 29.0°  
 Efficiency 82 %  
 Peak intensity 2.200 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR  
 LED MJT COB LES 14.5  
 FWHM 30.0°  
 Efficiency 81 %  
 Peak intensity 1.929 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

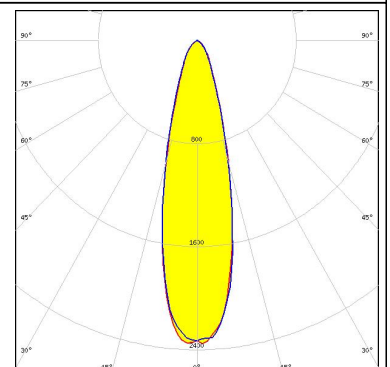


SEOUL SEMICONDUCTOR  
 LED MJT COB LES 9.8  
 FWHM 20.0°  
 Efficiency 83 %  
 Peak intensity 3.725 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



### TRIDONIC

LED SLE G6 LES15  
 FWHM 26.0°  
 Efficiency 82 %  
 Peak intensity 2.400 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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