

## BARBARA-G2-WW

~60° wide beam compatible with LEDiL HEKLA

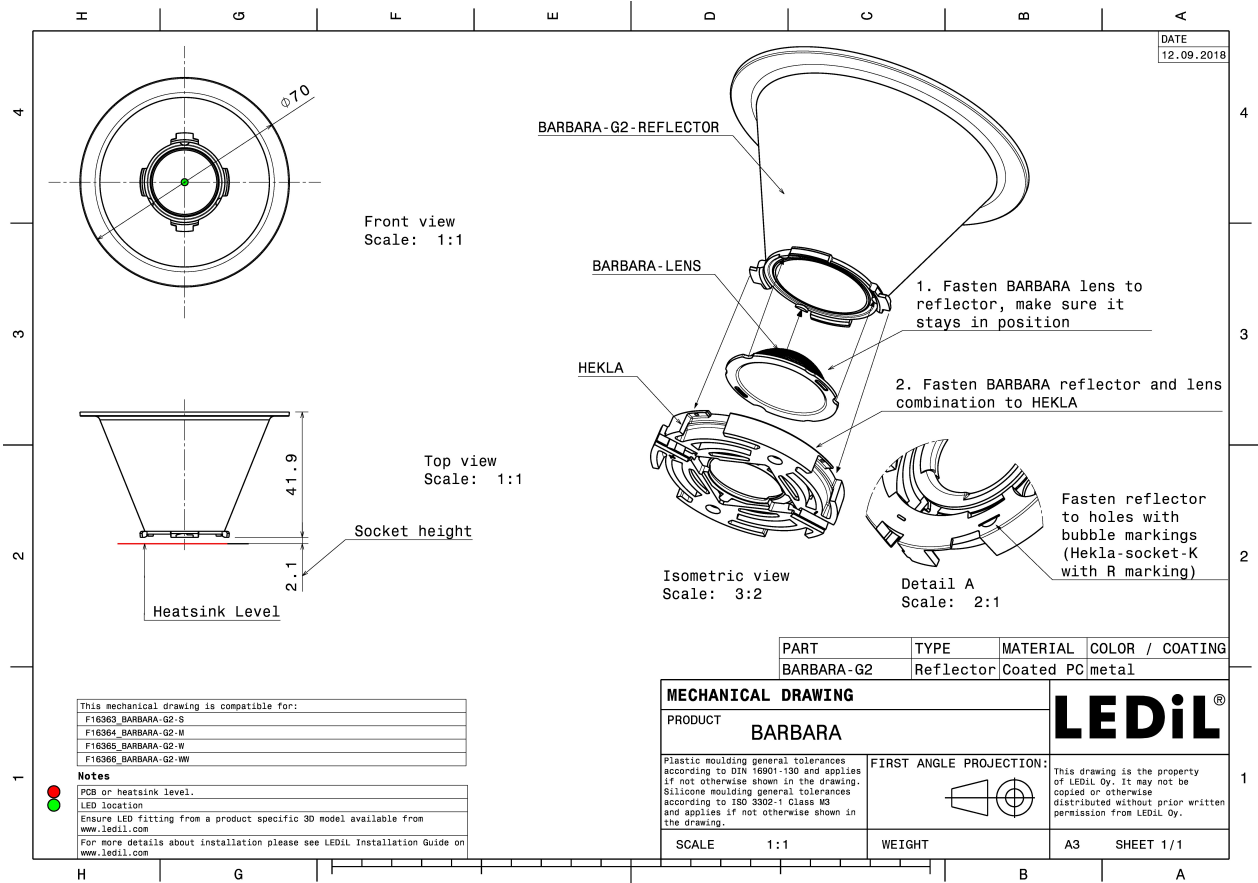
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 70.0 mm
Height	41.9 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	5.2 kg
Quantity in Box	252 pcs
ROHS compliant	yes ⓘ

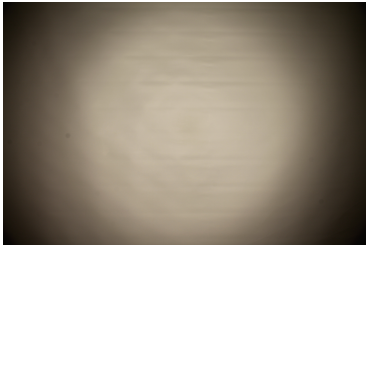
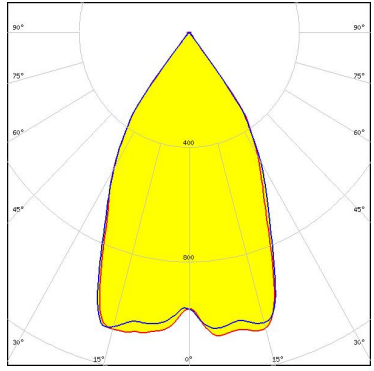
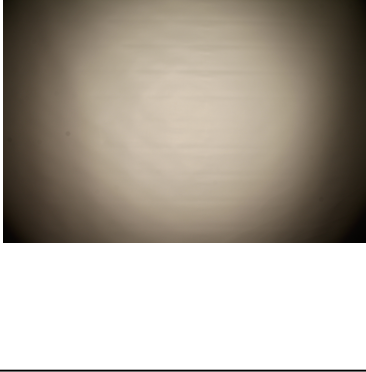
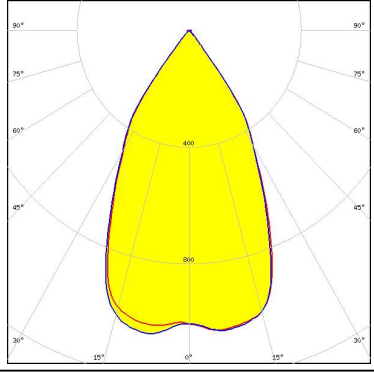
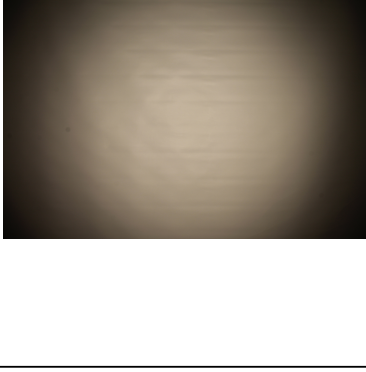
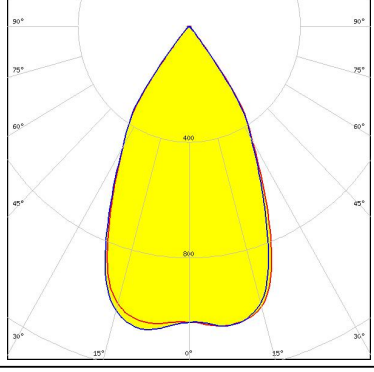
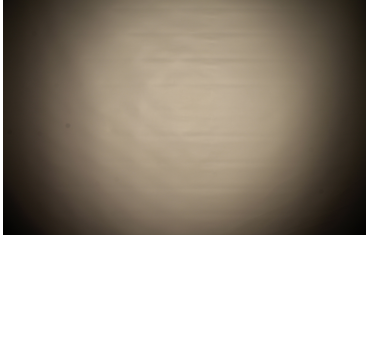
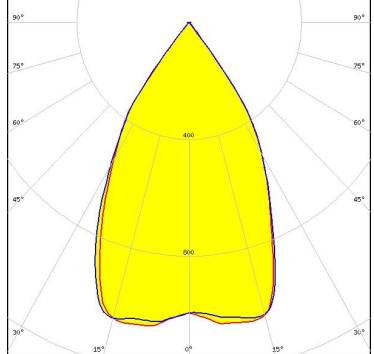


### MATERIAL SPECIFICATIONS:

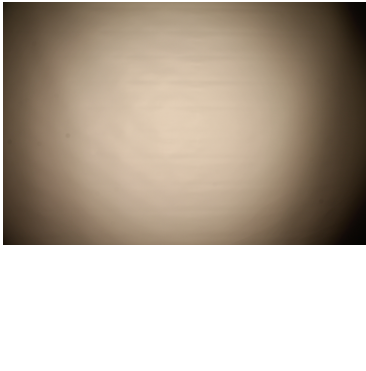
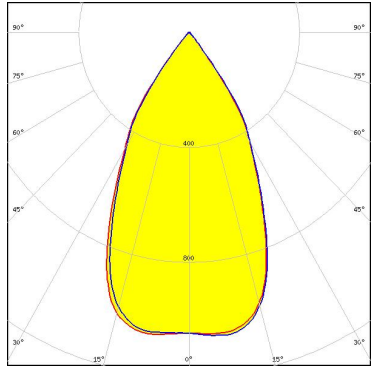
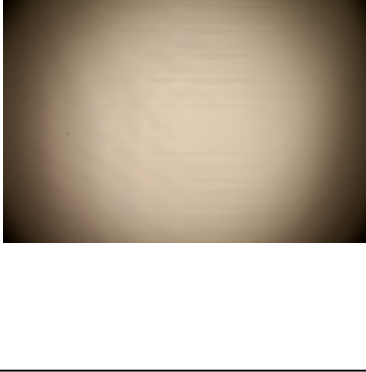
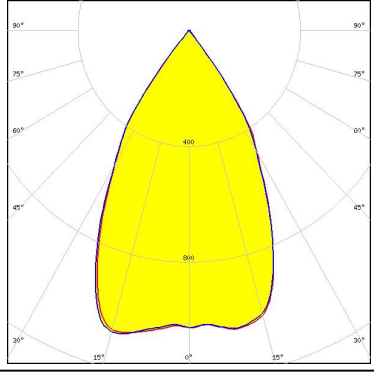
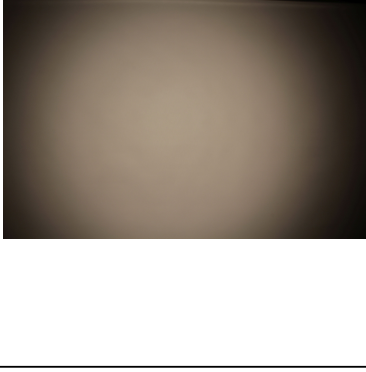
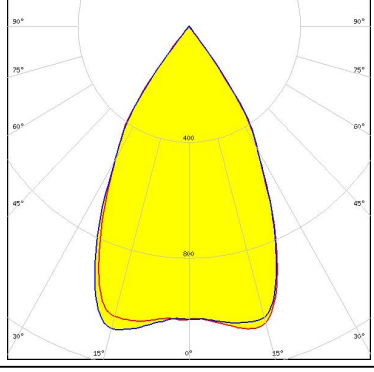
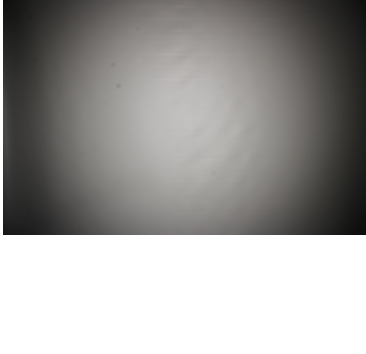
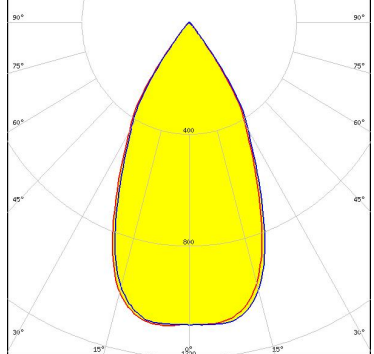
Component	Type	Material	Colour	Coating
BARBARA-G2-WW	Reflector	PC	metal	



#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V4 HD            FWHM 63.0°            Efficiency 92 %            Peak intensity 1.100 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A</p>		
<p>bridgelux.</p> <p>LED V4 HD            FWHM 56.0°            Efficiency 87 %            Peak intensity 1.050 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15253_HEKLA-SOCKET-A            C14658_BARBARA-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED V6 HD            FWHM 56.0°            Efficiency 87 %            Peak intensity 1.060 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C            C14658_BARBARA-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED V6 HD            FWHM 62.0°            Efficiency 92 %            Peak intensity 1.070 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15255_HEKLA-SOCKET-C</p>		

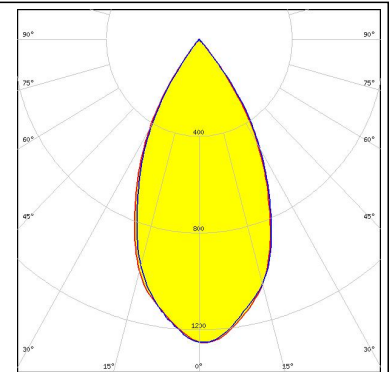
#### PHOTOMETRIC DATA (MEASURED):

<p>bridgelux.</p> <p>LED V9 HD            FWHM 55.0°            Efficiency 85 %            Peak intensity 1.060 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I            C14658_BARBARA-RZ-LENS</p>		
<p>bridgelux.</p> <p>LED V9 HD            FWHM 58.0°            Efficiency 91 %            Peak intensity 1.100 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p>bridgelux.</p> <p>LED V9 HD            FWHM 59.0°            Efficiency 91 %            Peak intensity 1.094 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15859_HEKLA-SOCKET-I</p>		
<p>bridgelux.</p> <p>LED Vesta TW 9mm (12W) CSP            FWHM 53.0°            Efficiency 83 %            Peak intensity 1.100 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            C14658_BARBARA-RZ-LENS</p>		

#### PHOTOMETRIC DATA (MEASURED):

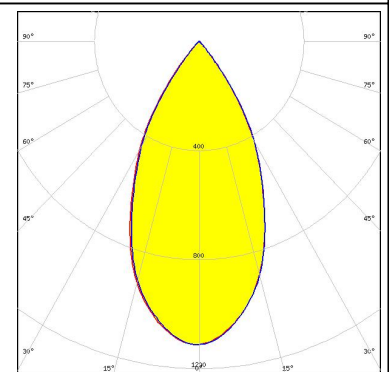
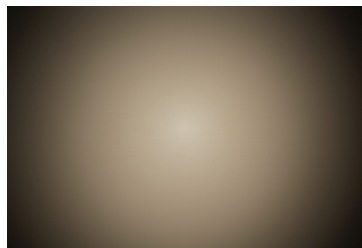
#### CITIZEN

LED CLC030 Series (Dim-To-Warm)  
 FWHM 52.0°  
 Efficiency 87 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 436 Typ L8



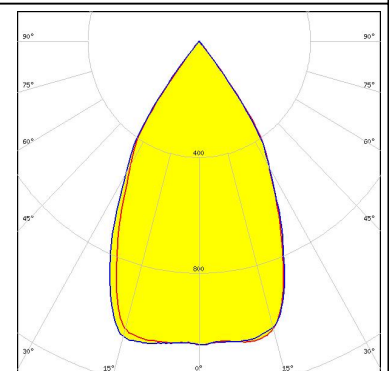
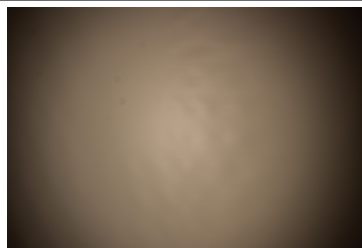
#### CITIZEN

LED CLC030 Series (Dim-To-Warm)  
 FWHM 52.0°  
 Efficiency 81 %  
 Peak intensity 1.113 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C14658\_BARBARA-RZ-LENS  
 Bender Wirth: 436 Typ L8



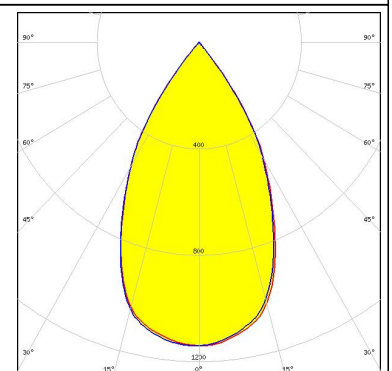
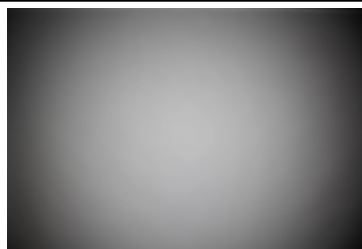
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 59.0°  
 Efficiency 90 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### CITIZEN

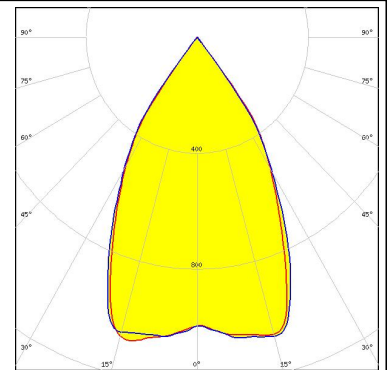
LED CLL03x/CLU03x  
 FWHM 57.0°  
 Efficiency 91 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### PHOTOMETRIC DATA (MEASURED):

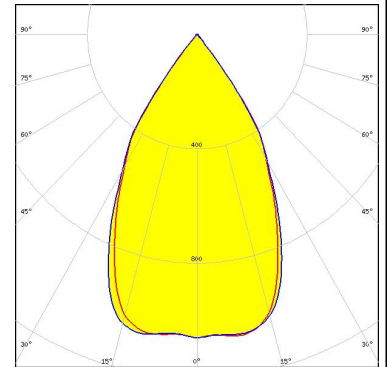
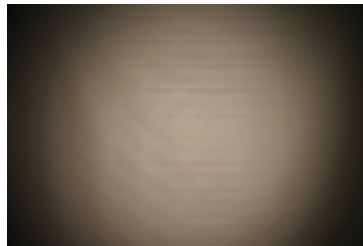
#### CITIZEN

LED CLU700/701  
 FWHM 61.0°  
 Efficiency 92 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



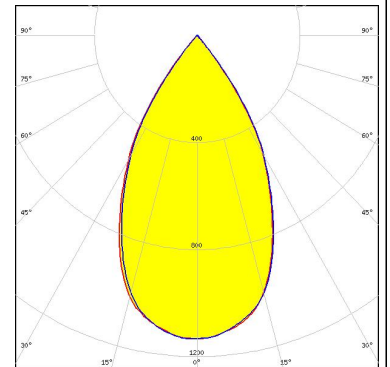
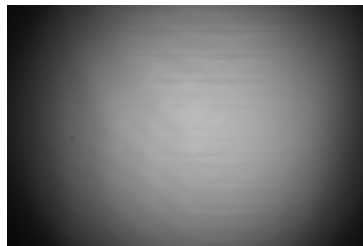
#### CREE

LED CMT14xx  
 FWHM 59.0°  
 Efficiency 91 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



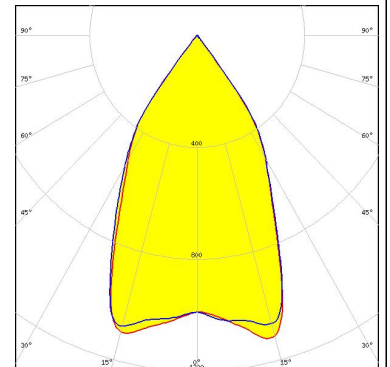
#### CREE

LED CMT19xx  
 FWHM 57.0°  
 Efficiency 91 %  
 Peak intensity 1.134 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### CREE

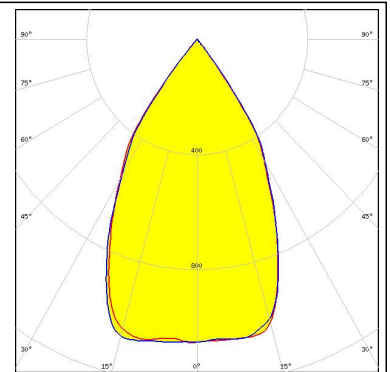
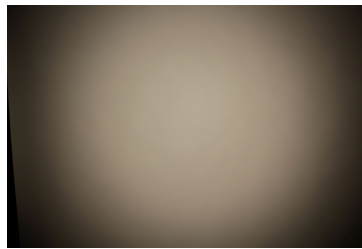
LED CXA/B 13xx  
 FWHM 61.0°  
 Efficiency 92 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15956\_HEKLA-SOCKET-J



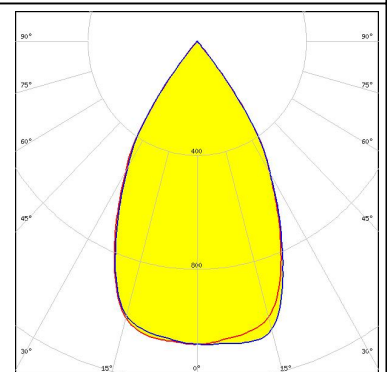
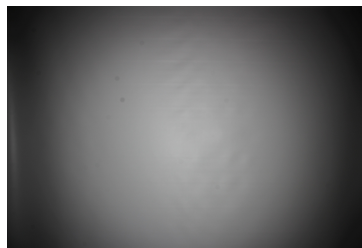
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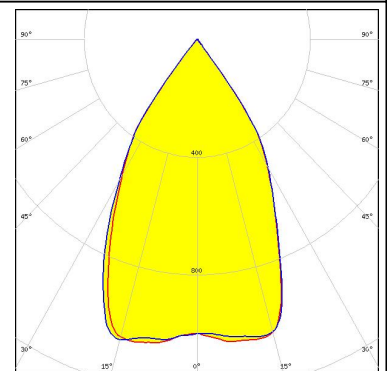
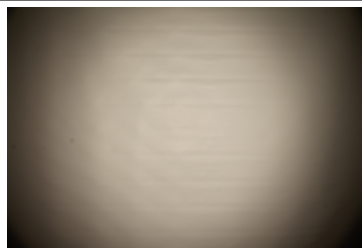
LED CXA/B 15xx  
 FWHM 59.0°  
 Efficiency 92 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



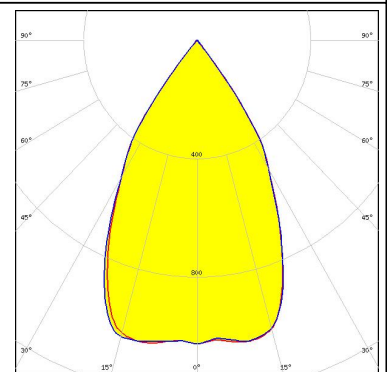
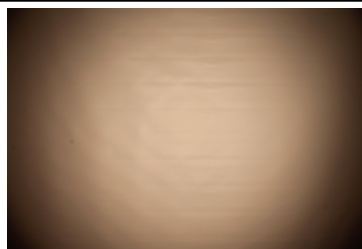
LED CXA/B 1816 & CXA/B 1820 & CXA 1850  
 FWHM 59.0°  
 Efficiency 91 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



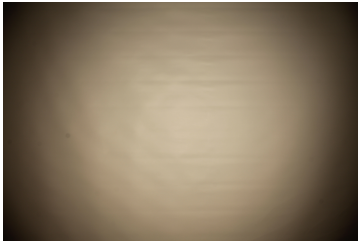
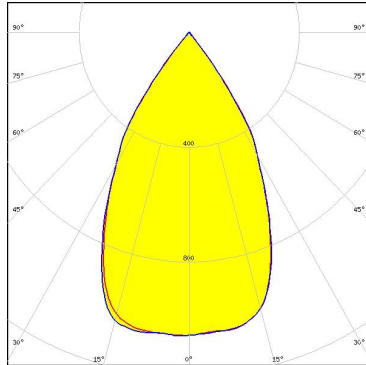
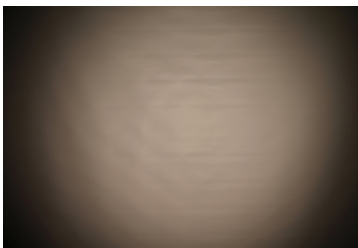
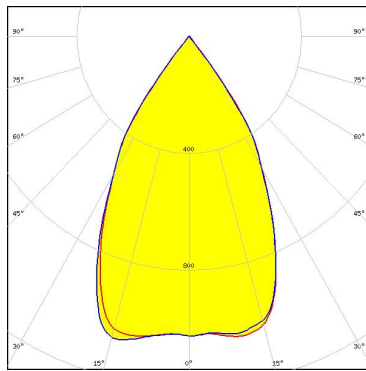

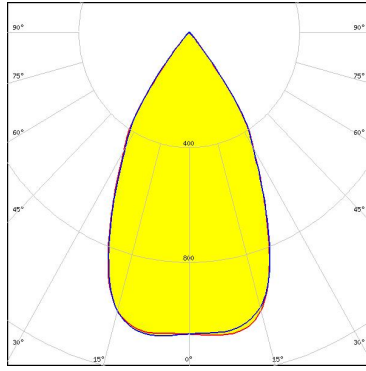
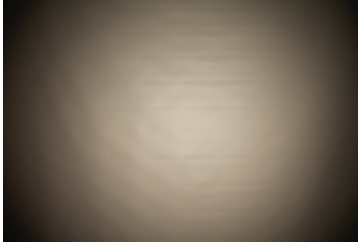
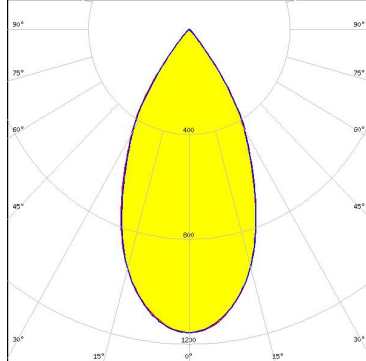
LED LUXEON CoB 1202HD  
 FWHM 61.0°  
 Efficiency 90 %  
 Peak intensity 1.060 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



LED LUXEON CoB 1204HD  
 FWHM 60.0°  
 Efficiency 91 %  
 Peak intensity 1.040 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



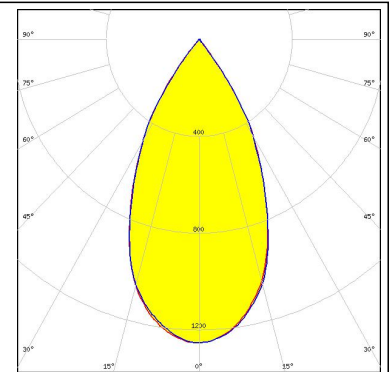
#### PHOTOMETRIC DATA (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1205HD            FWHM 59.0°            Efficiency 91 %            Peak intensity 1.060 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15858_HEKLA-SOCKET-H</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 CoB            FWHM 60.0°            Efficiency 92 %            Peak intensity 1.070 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15858_HEKLA-SOCKET-H</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L09 CoB            FWHM 56.0°            Efficiency 87 %            Peak intensity 1.060 cd/lm            LEDs/each optic 1            Light colour White            Required components:            F15858_HEKLA-SOCKET-H            C14658_BARBARA-RZ-LENS</p>		
<p><b>PHILIPS</b></p> <p>LED Fortimo SLM L13 CoB            FWHM 51.0°            Efficiency 83 %            Peak intensity 1.200 cd/lm            LEDs/each optic 1            Light colour White            Required components:            C16142_HEKLA-SOCKET-K            C14658_BARBARA-RZ-LENS            Bender Wirth: 432 Typ L8</p>		

#### PHOTOMETRIC DATA (MEASURED):

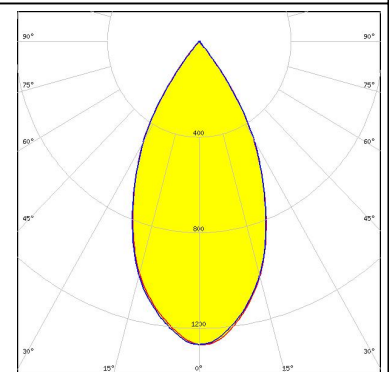
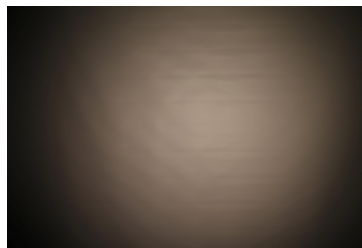
#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM 52.0°  
 Efficiency 88 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



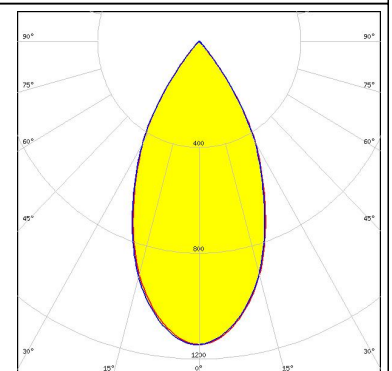
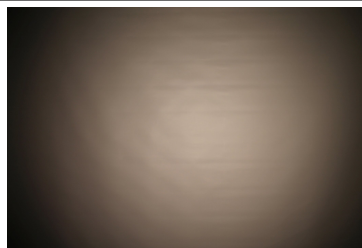
#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM 52.0°  
 Efficiency 88 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



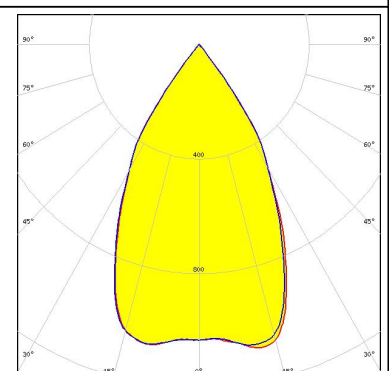
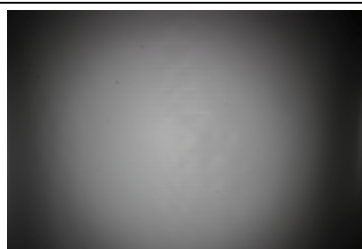
#### PHILIPS

LED Fortimo SLM L15 CoB  
 FWHM 51.0°  
 Efficiency 83 %  
 Peak intensity 1.150 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 C14658\_BARBARA-RZ-LENS  
 Bender Wirth: 432 Typ L8



#### SAMSUNG

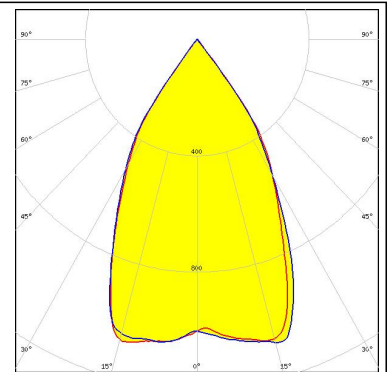
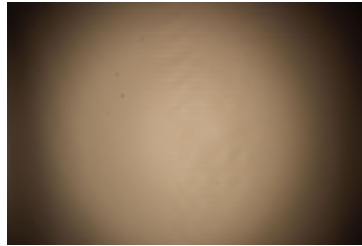
LED COB D Series LES 9.8 mm  
 FWHM 59.0°  
 Efficiency 90 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### PHOTOMETRIC DATA (MEASURED):

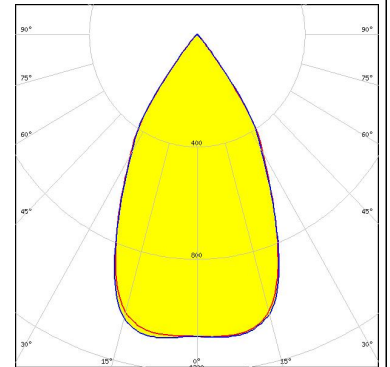
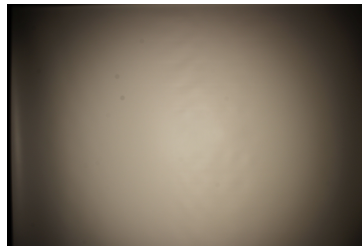
#### SAMSUNG

LED LC010C G2  
FWHM 61.0°  
Efficiency 91 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



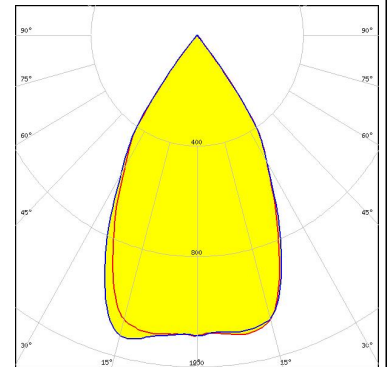
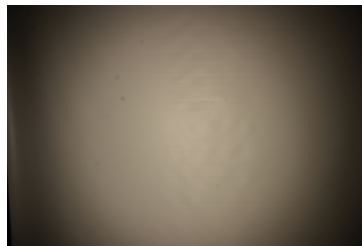
#### TRIDONIC

LED SLE G7 LES09  
FWHM 57.0°  
Efficiency 90 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C  
C14658\_BARBARA-RZ-LENS



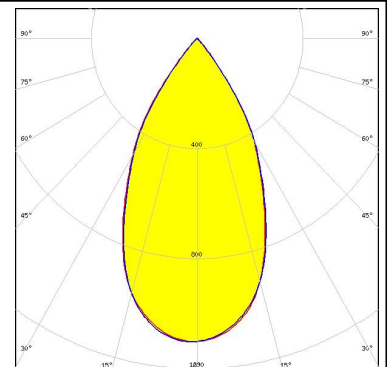
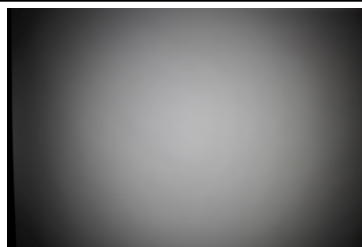
#### TRIDONIC

LED SLE G7 LES09  
FWHM 59.0°  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



#### TRIDONIC

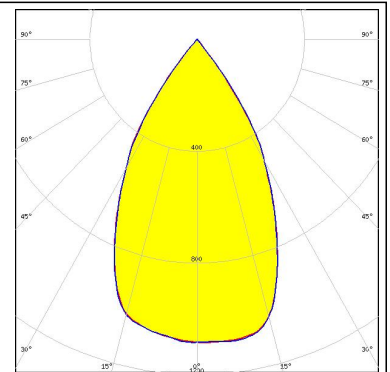
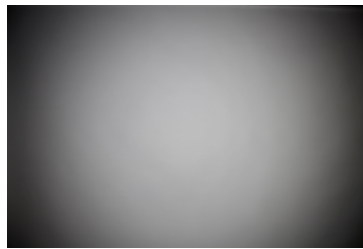
LED SLE G7 LES13  
FWHM 54.0°  
Efficiency 85 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I  
C14658\_BARBARA-RZ-LENS



#### PHOTOMETRIC DATA (MEASURED):

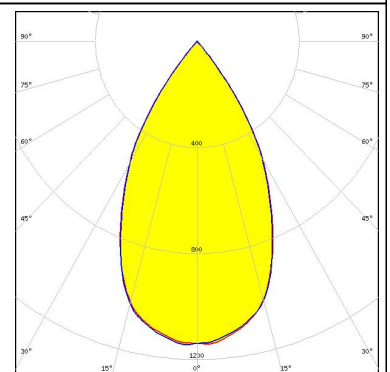
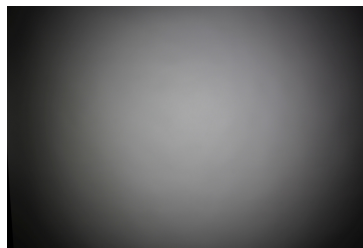
#### TRIDONIC

LED SLE G7 LES13  
 FWHM 58.0°  
 Efficiency 91 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



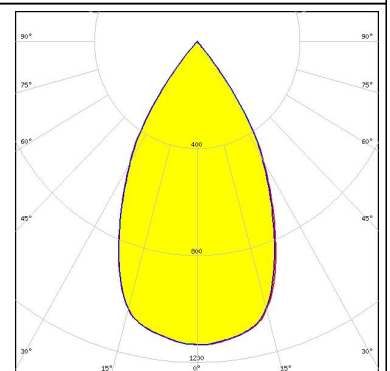
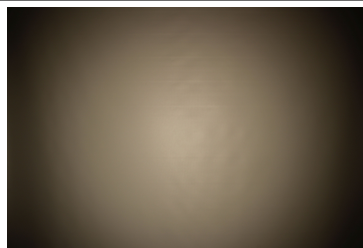
#### TRIDONIC

LED SLE G7 LES15  
 FWHM 57.0°  
 Efficiency 91 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



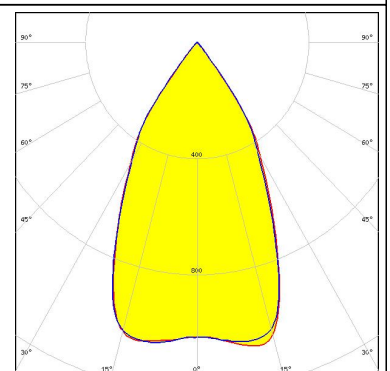
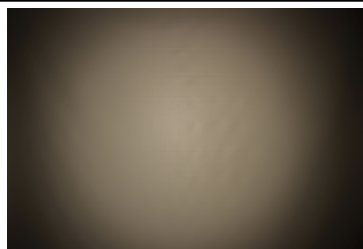
#### XICATO

LED XOB 14.5 mm  
 FWHM 57.0°  
 Efficiency 91 %  
 Peak intensity 1.135 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



#### XICATO

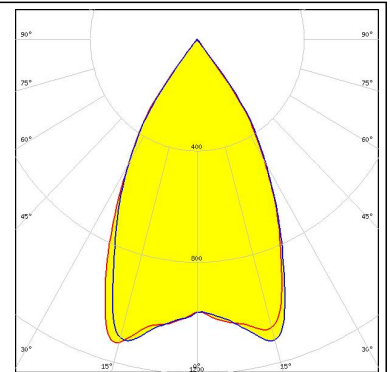
LED XOB 6 mm  
 FWHM 55.0°  
 Efficiency 85 %  
 Peak intensity 1.068 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C  
 C14658\_BARBARA-RZ-LENS



#### PHOTOMETRIC DATA (MEASURED):

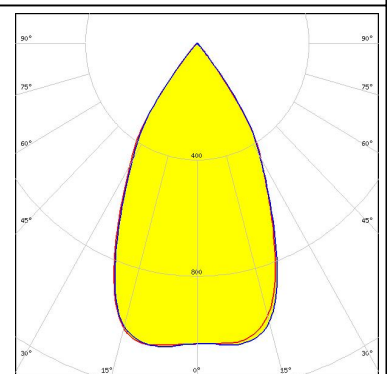
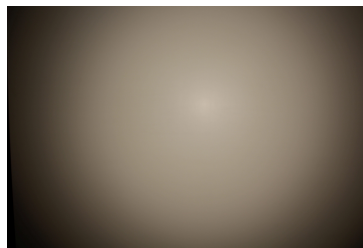
#### XICATO

LED XOB 6 mm  
FWHM 57.0°  
Efficiency 89 %  
Peak intensity 1.137 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



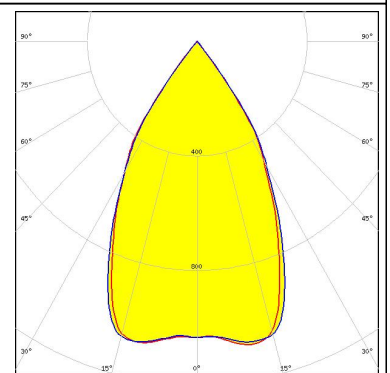
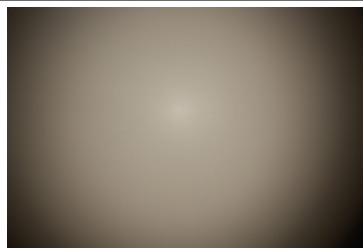
#### XICATO

LED XOB 9.8 mm  
FWHM 56.0°  
Efficiency 86 %  
Peak intensity 1.052 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C  
C14658\_BARBARA-RZ-LENS


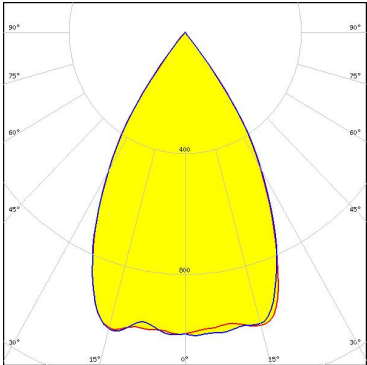

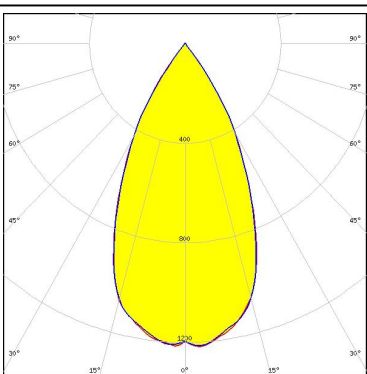




#### XICATO

LED XOB 9.8 mm  
FWHM 58.0°  
Efficiency 91 %  
Peak intensity 1.081 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



#### PHOTOMETRIC DATA (SIMULATED):

<p> LED VERO10 FWHM 61.0° Efficiency 89 % Peak intensity 1.080 cd/lm LEDs/each optic 1 Light colour White Required components: F15616_HEKLA-SOCKET-F</p>	
<p> LED VERO13 FWHM 51.0° Efficiency 83 % Peak intensity 1.230 cd/lm LEDs/each optic 1 Light colour White Required components: C16142_HEKLA-SOCKET-K</p>	
<p> LED COB L-Type (LES 11) FWHM 63.0° Efficiency 90 % Peak intensity 1.014 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H</p>	
<p> LED COB L-Type (LES 9) FWHM 63.0° Efficiency 90 % Peak intensity 1.028 cd/lm LEDs/each optic 1 Light colour White Required components: F15858_HEKLA-SOCKET-H</p>	

#### 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:

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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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