

## RONDA-REC-90-C

~80° rectangular beam with holder C compatible  
with LEDiL HEKLA

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 53.9 mm
Height	16.6 mm
Fastening	socket
ROHS compliant	yes ⓘ

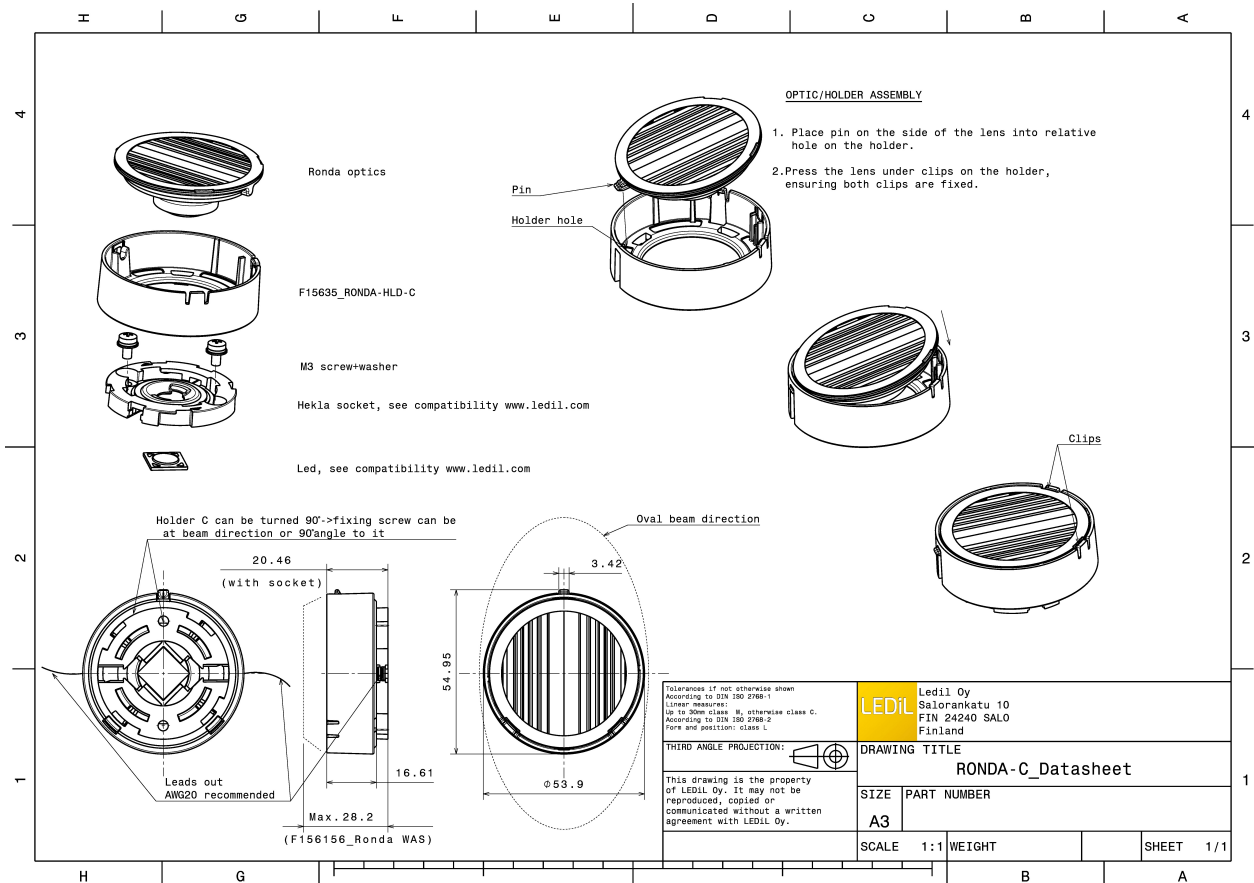
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
RONDA-REC-90	Single lens	PMMA	clear	
RONDA-HLD-C	Holder	PC	white	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN15974_RONDA-REC-90-C	Single lens	420	120	30	0.0
» Box size:					

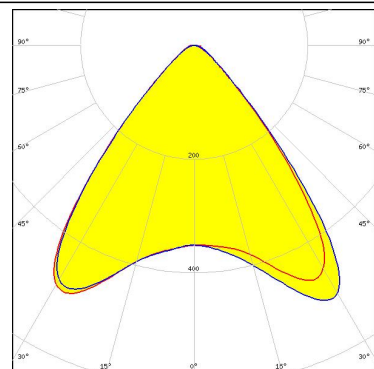
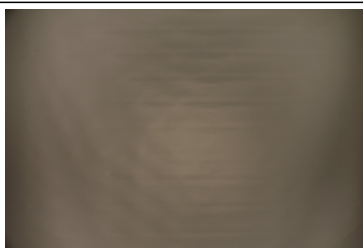




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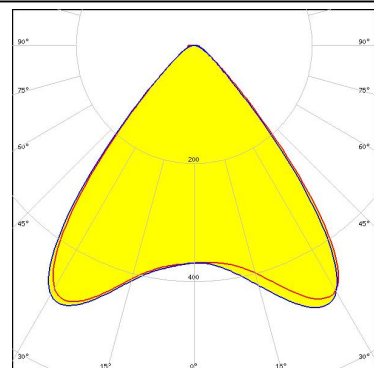
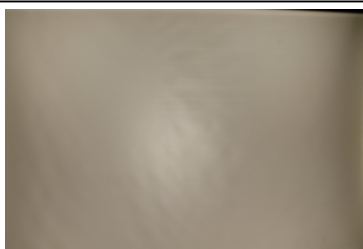
bridgelux.

LED V4 HD  
FWHM 85.0°  
Efficiency 92 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15253\_HEKLA-SOCKET-A



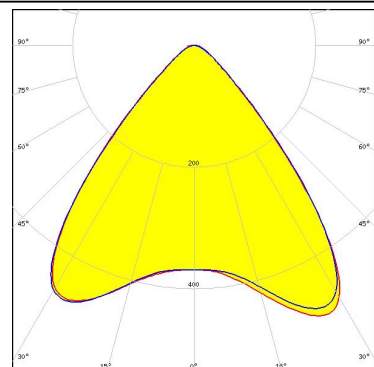
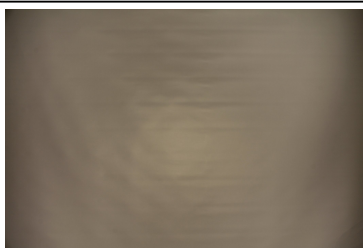
bridgelux.

LED V6 Gen6  
FWHM 84.0°  
Efficiency 92 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15253\_HEKLA-SOCKET-A



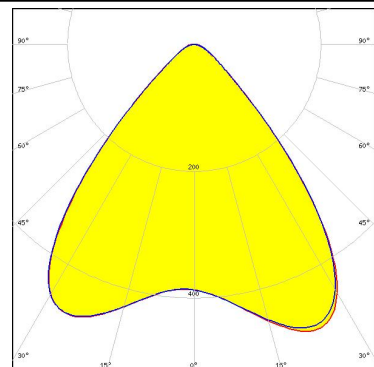
bridgelux.

LED V6 HD  
FWHM 85.0°  
Efficiency 91 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



bridgelux.

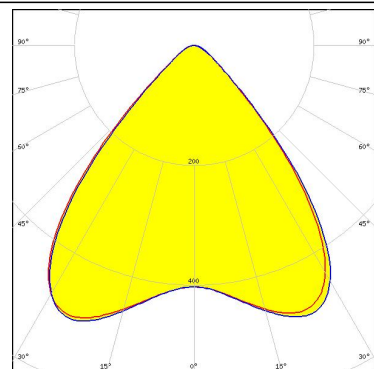
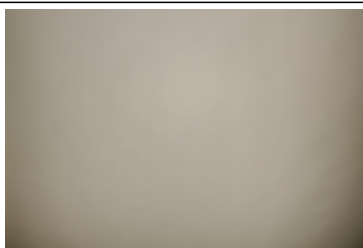
LED V9 HD  
FWHM 85.0°  
Efficiency 89 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



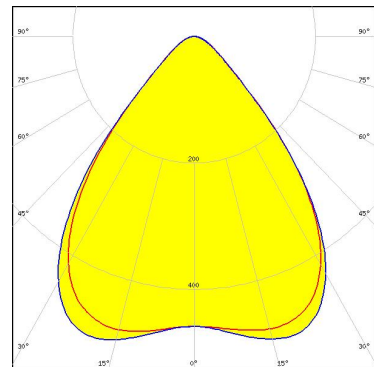
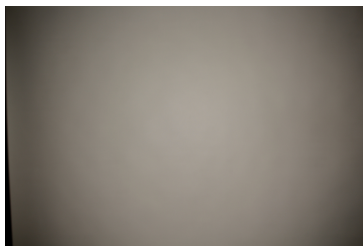
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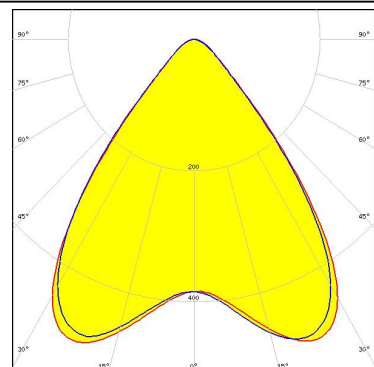
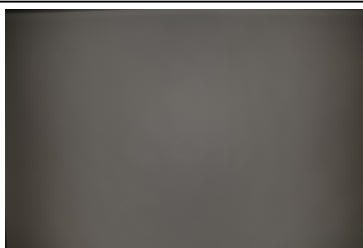
LED VERO10  
FWHM 85.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15616\_HEKLA-SOCKET-F



LED Vesta TW 13mm (25W) CSP  
FWHM 82.0°  
Efficiency 85 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K  
Bender Wirth: 492 Typ L8

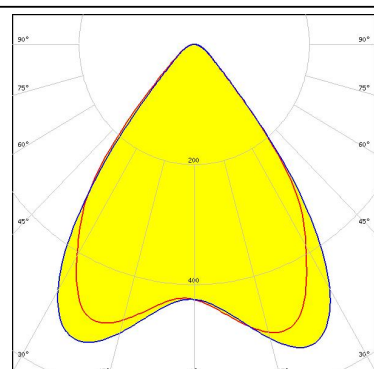
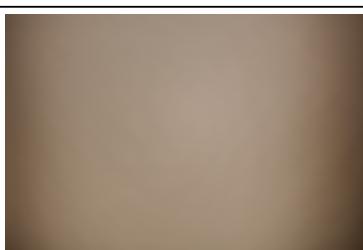


LED Vesta TW 9mm (12W) CSP  
FWHM 82.0°  
Efficiency 86 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K



#### CITIZEN

LED CLC020 Series (Dim-To-Warm)  
FWHM 80.0°  
Efficiency 85 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16142\_HEKLA-SOCKET-K

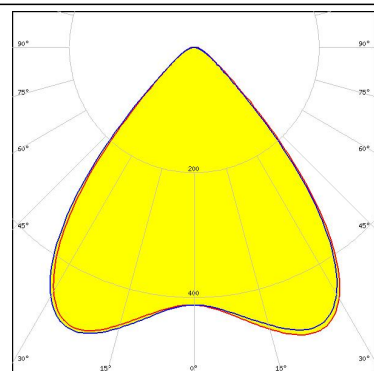
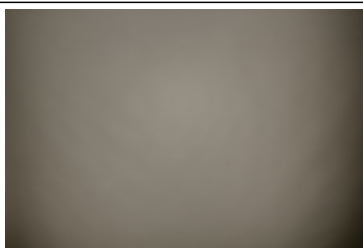




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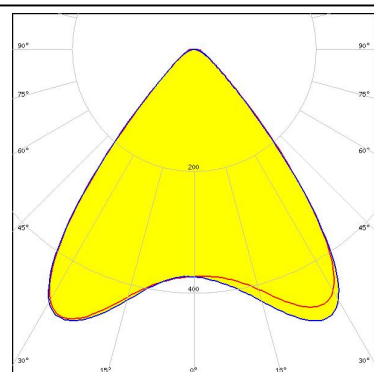
#### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 84.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



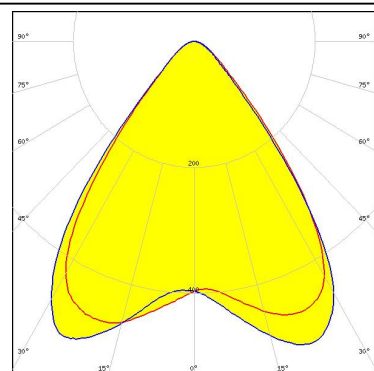
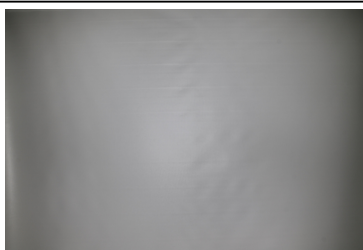
#### CITIZEN

LED CLU700/701/702  
 FWHM 83.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



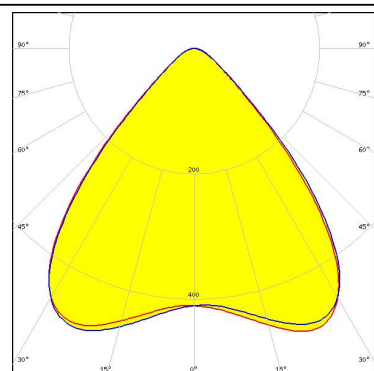
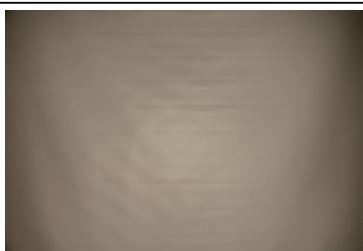
#### CITIZEN

LED LCN-C01B (Tunable White)  
 FWHM 81.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 481 Typ L8



#### CREE

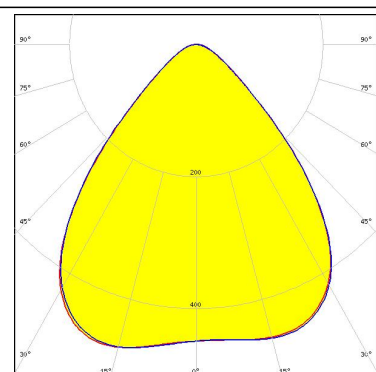
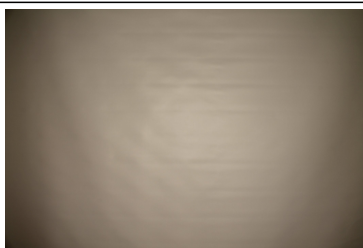
LED CMA1516  
 FWHM 86.0°  
 Efficiency 92 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15256\_HEKLA-SOCKET-D



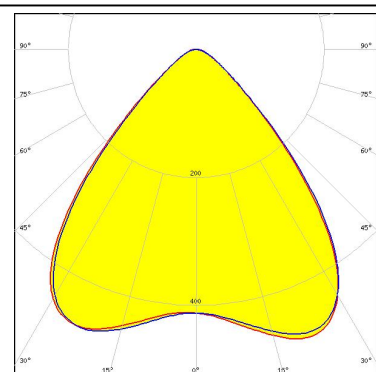
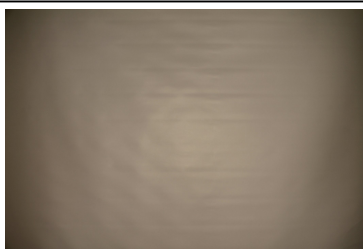
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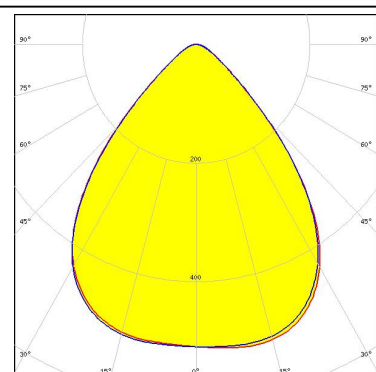
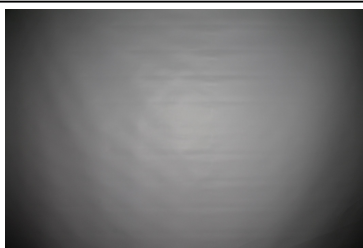
LED CMA1825  
FWHM 86.0°  
Efficiency 90 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15254\_HEKLA-SOCKET-B



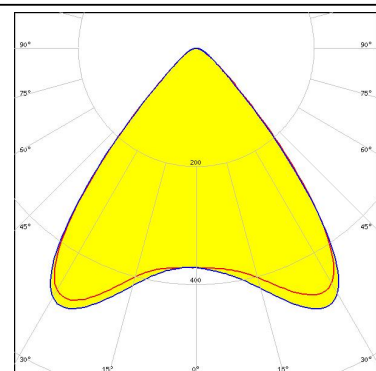
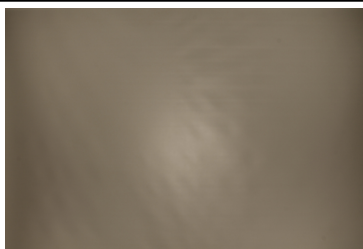
LED CMT14xx  
FWHM 86.0°  
Efficiency 91 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



LED CMT19xx  
FWHM 82.0°  
Efficiency 88 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



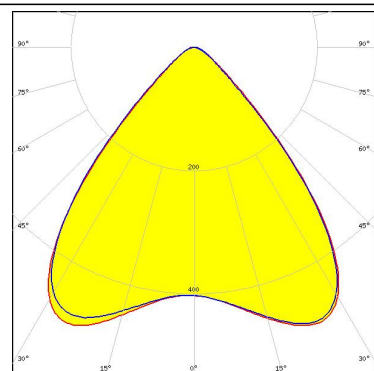
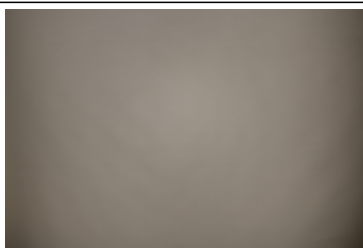
LED CXA/B 13xx  
FWHM 84.0°  
Efficiency 91 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15956\_HEKLA-SOCKET-J



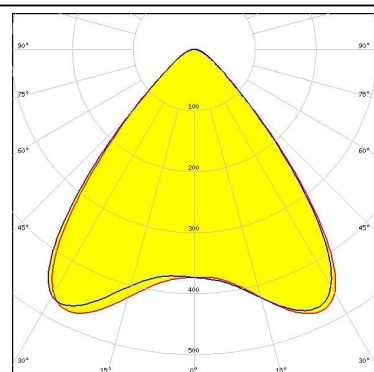
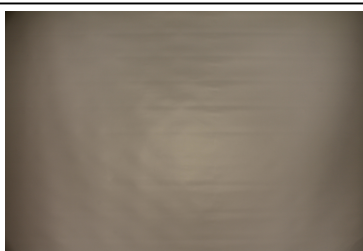
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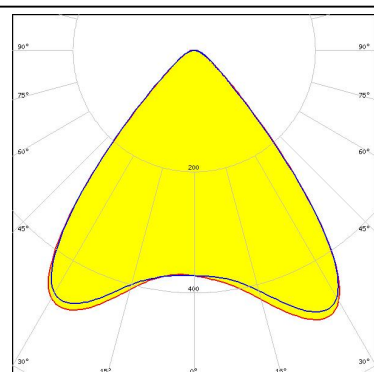
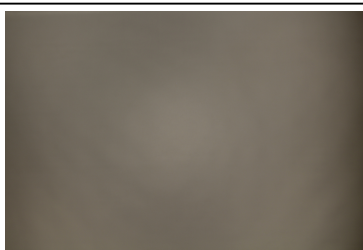
LED CXA/B 15xx  
FWHM 85.0°  
Efficiency 91 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15256\_HEKLA-SOCKET-D



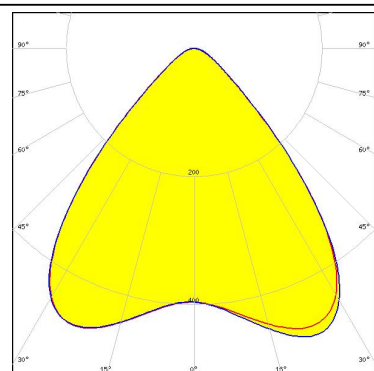
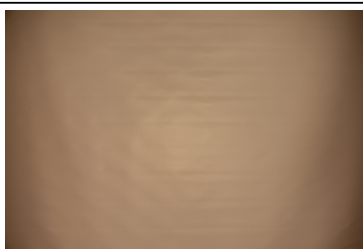
LED LUXEON CoB 1202HD  
FWHM 85.2 + 85.4°  
Efficiency 91 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



LED LUXEON CoB 1202s  
FWHM 84.0°  
Efficiency 91 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15848\_HEKLA-SOCKET-G



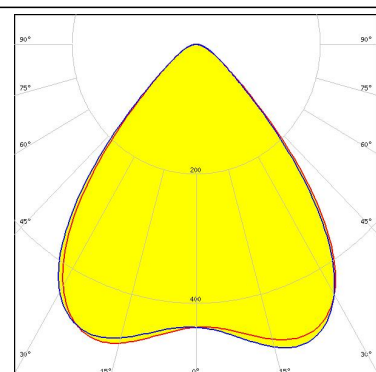
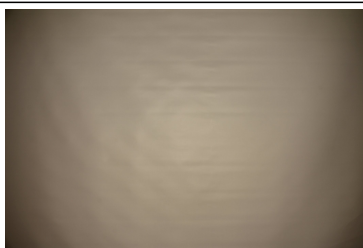
LED LUXEON CoB 1204HD  
FWHM 85.8 + 85.7°  
Efficiency 91 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15858\_HEKLA-SOCKET-H



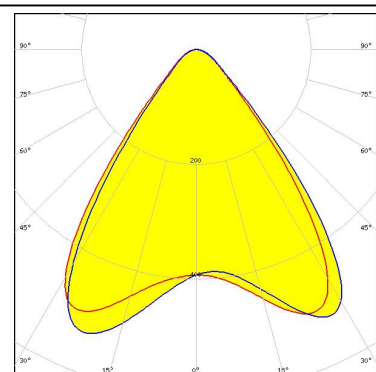
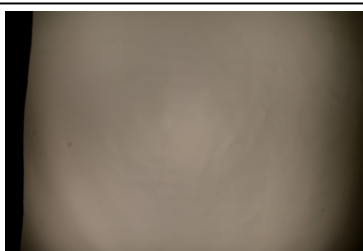
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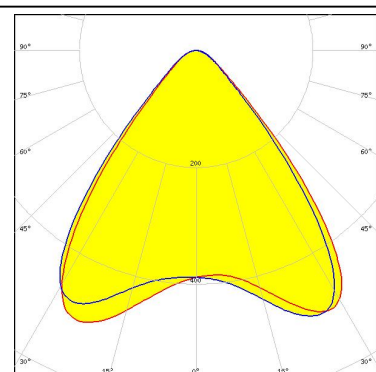
LED LUXEON CoB 1205HD  
FWHM 75.3 + 75.4°  
Efficiency 90 %  
Peak intensity 0.5 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:  
F15858\_HEKLA-SOCKET-H



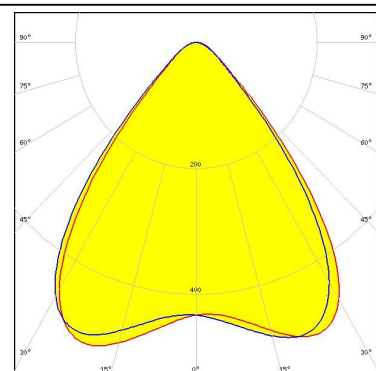
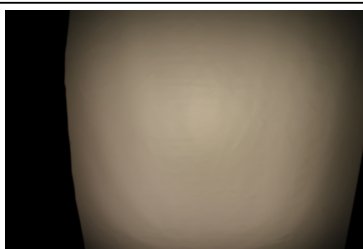
LED LUXEON CX Plus CoB - HD S01H4  
FWHM 75.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S01H6 / HD S02H6  
FWHM 79.0°  
Efficiency 91 %  
Peak intensity 0.6 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 634c Hekla



LED LUXEON CX Plus CoB - HD S04H9  
FWHM 80.0°  
Efficiency 91 %  
Peak intensity 0.5 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 634c Hekla

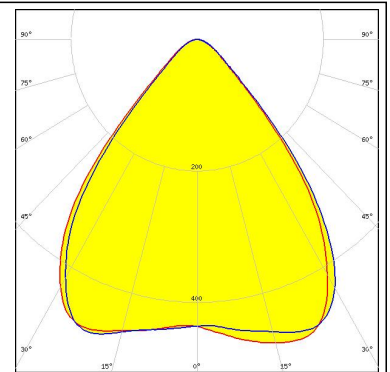




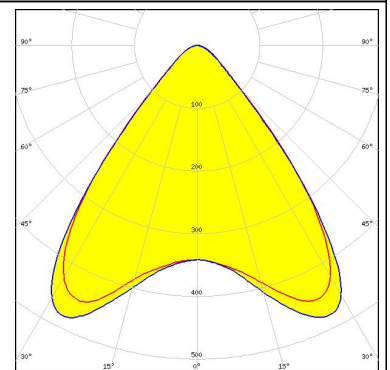
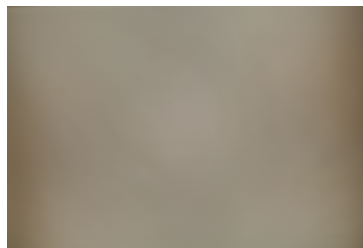
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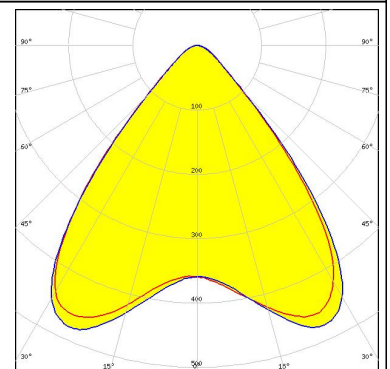
LED CDM-14 (Dim-To-Warm)  
 FWHM 83.0°  
 Efficiency 82 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 491 Typ L8



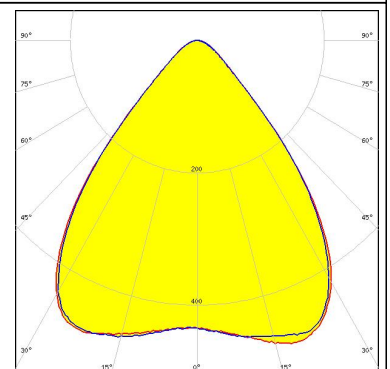
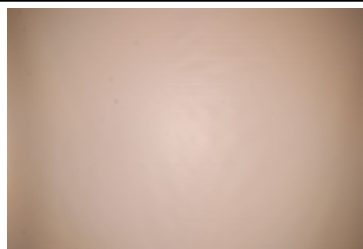
LED CDM-6 (Dim-To-Warm)  
 FWHM 82.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 490 Typ L8



LED CDM-9 (Dim-To-Warm)  
 FWHM 83.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 490 Typ L8



LED CTM-14 (Tunable White)  
 FWHM 82.0°  
 Efficiency 82 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 442 Typ L8

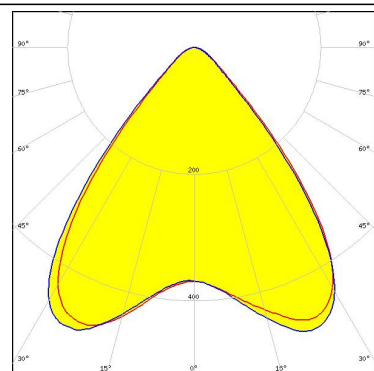
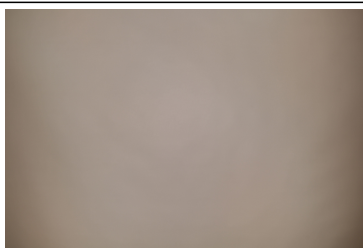




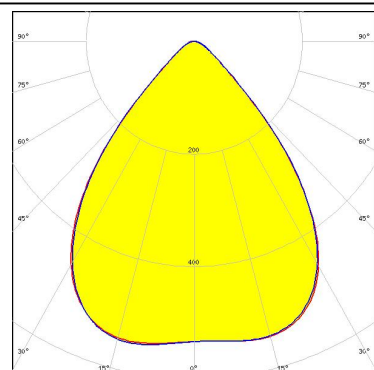
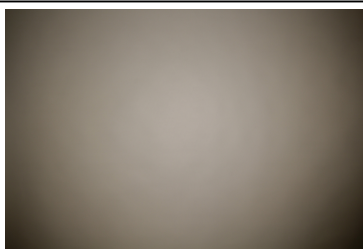
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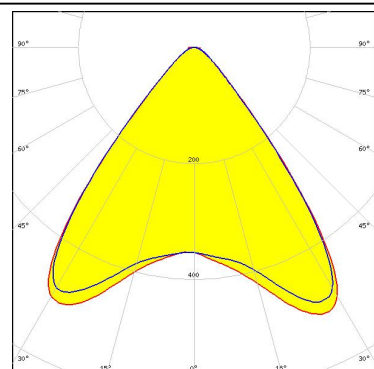
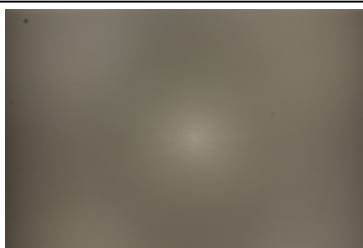
LED CTM-9 (Tunable White)  
 FWHM 83.0°  
 Efficiency 86 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 495 Typ L8



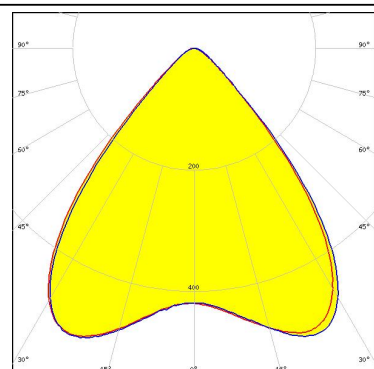
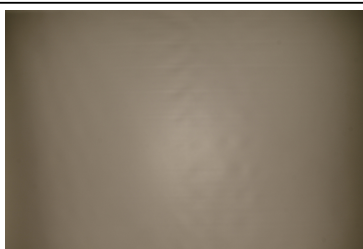
LED CxM-14 (19x19)  
 FWHM 81.0°  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



LED CXM-4  
 FWHM 82.0°  
 Efficiency 90 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



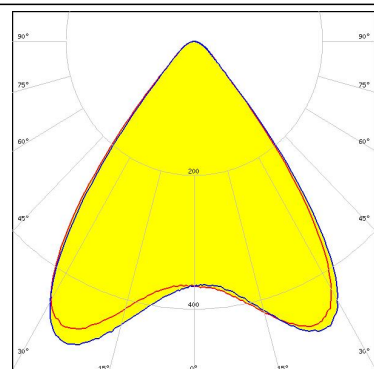
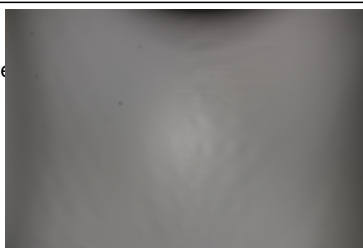
LED CxM-9 (13.5x13.5)  
 FWHM 83.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



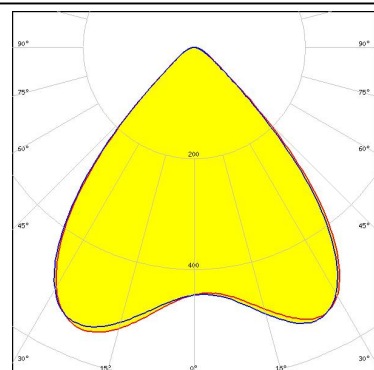
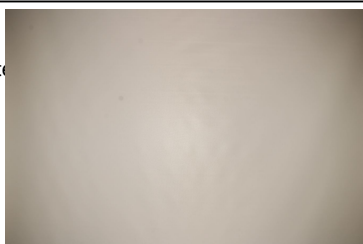
#### PHOTOMETRIC DATA (MEASURED):



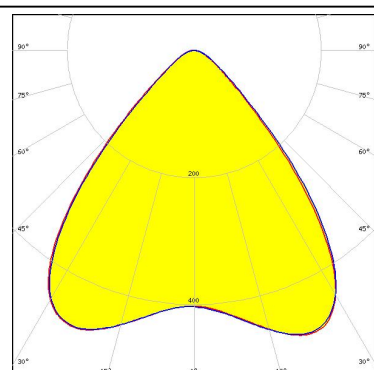
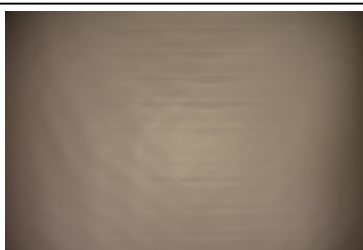
LED NJCW024Z-V1MT: COB L-Type Tunable White  
 FWHM 84.0°  
 Efficiency 83 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 497 Typ L8



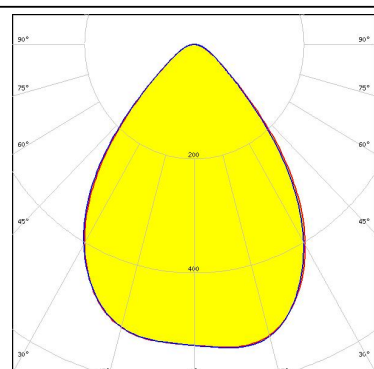
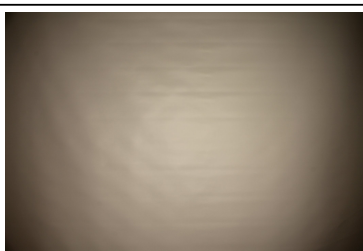
LED NVCWJ024Z-V1MT: COB J-Type Tunable White  
 FWHM 84.0°  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 498 Typ L8



LED Fortimo SLM L09 CoB  
 FWHM 85.0°  
 Efficiency 90 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15858\_HEKLA-SOCKET-H



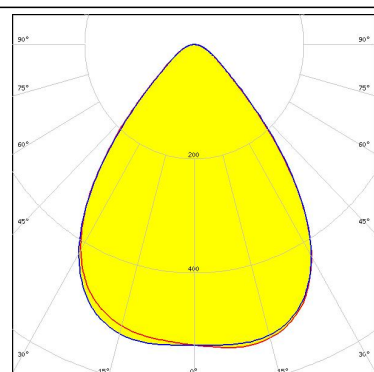
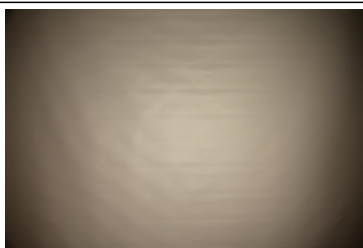
LED Fortimo SLM L13 CoB  
 FWHM 78.0°  
 Efficiency 86 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



#### PHOTOMETRIC DATA (MEASURED):

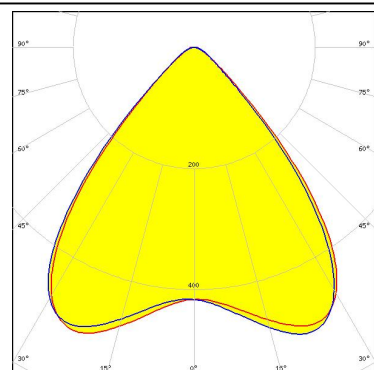
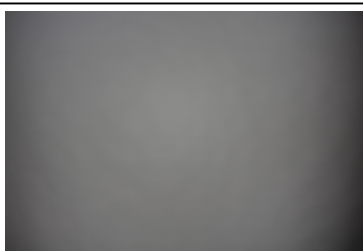
#### PHILIPS

LED Fortimo SLM L13 CoB  
 FWHM 78.0°  
 Efficiency 86 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 432 Typ L8



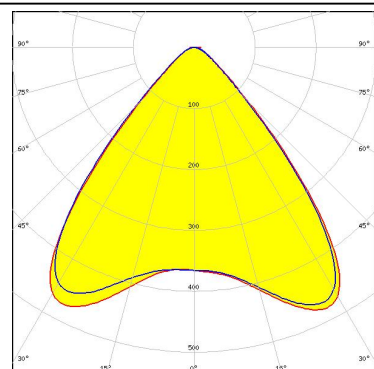
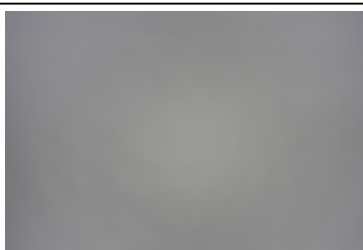
#### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 FWHM 84.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



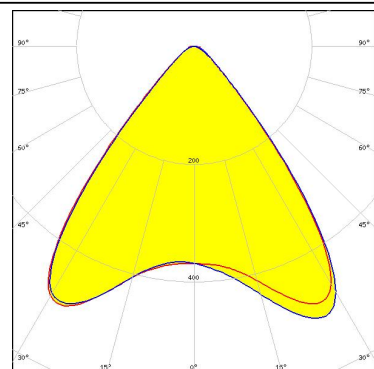
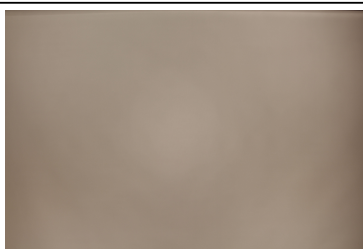
#### SAMSUNG

LED LC010C  
 FWHM 85.0°  
 Efficiency 90 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



#### SAMSUNG

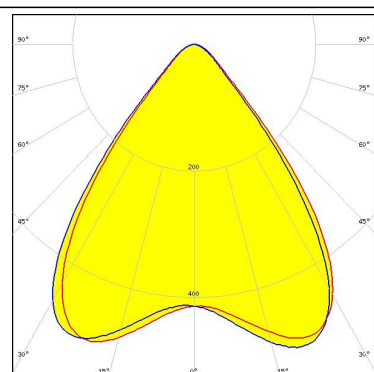
LED LC010C G2  
 FWHM 82.0°  
 Efficiency 90 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### PHOTOMETRIC DATA (MEASURED):

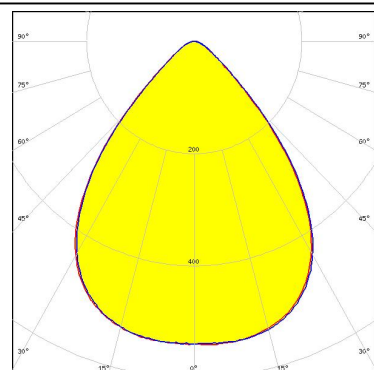
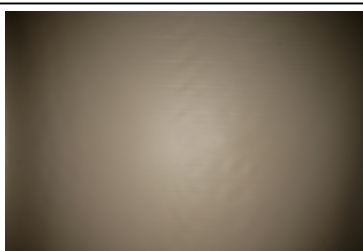
#### SAMSUNG

LED LC010T (Tunable White)  
 FWHM 78.0°  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



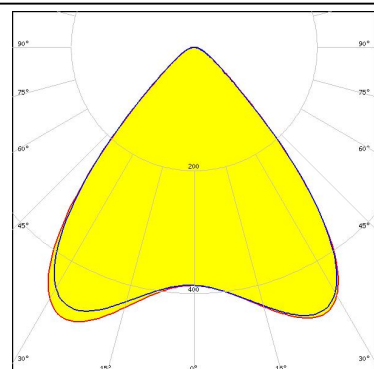
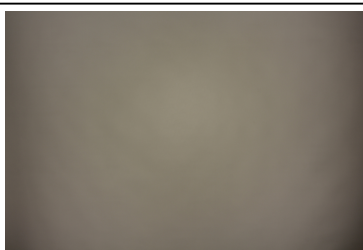
#### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
 FWHM 81.0°  
 Efficiency 87 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



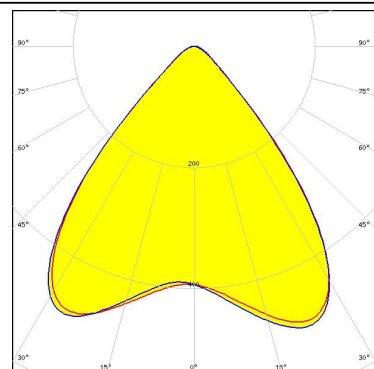
#### SAMSUNG

LED LC020C  
 FWHM 85.0°  
 Efficiency 91 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



#### SAMSUNG

LED LC020C G2  
 FWHM 80.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I

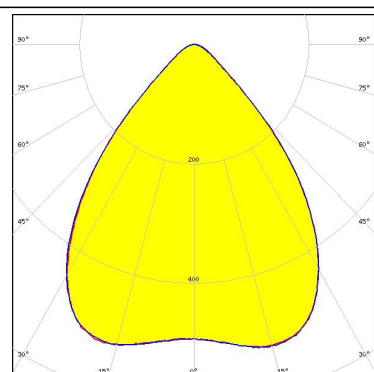
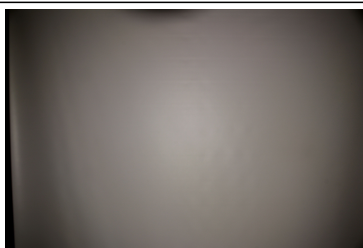




#### PHOTOMETRIC DATA (MEASURED):

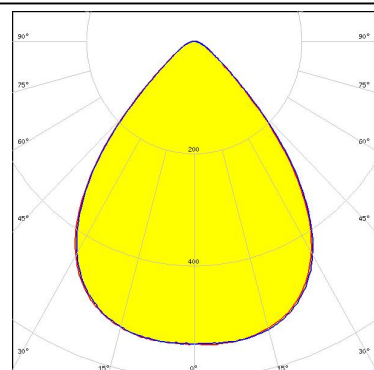
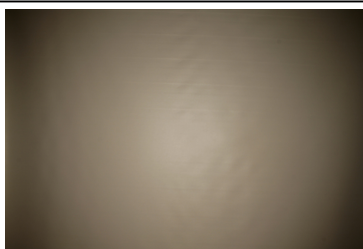
#### SAMSUNG

LED LC020T (Tunable white)  
 FWHM 81.0°  
 Efficiency 86 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour Tunable White  
 Required components:  
 C16142\_HEKLA-SOCKET-K  
 Bender Wirth: 501 Typ L8



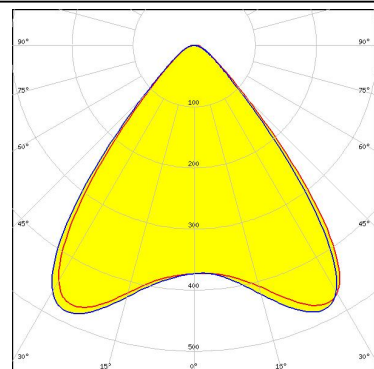
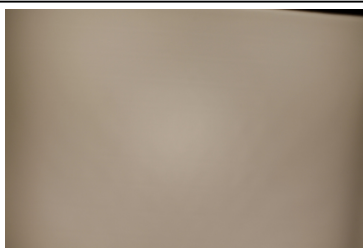
#### SEOUL SEMICONDUCTOR

LED MJT COB LES 14.5  
 FWHM 81.0°  
 Efficiency 87 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15859\_HEKLA-SOCKET-I



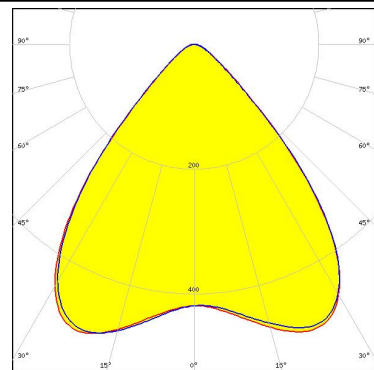
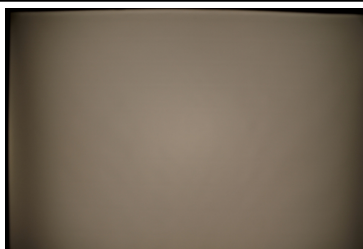
#### SEOUL SEMICONDUCTOR

LED MJT COB LES 6  
 FWHM 83.0°  
 Efficiency 89 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C



#### SEOUL SEMICONDUCTOR

LED MJT COB LES 9.8  
 FWHM 84.0°  
 Efficiency 89 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15255\_HEKLA-SOCKET-C

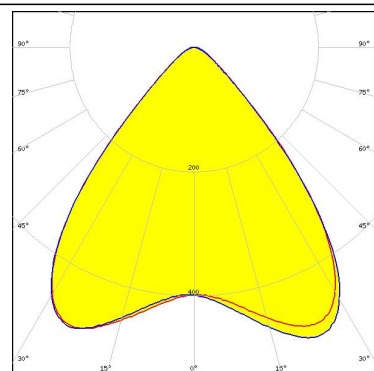
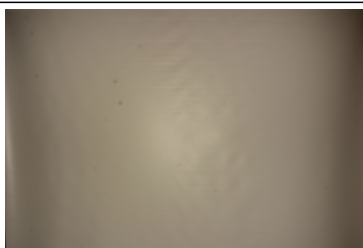




#### PHOTOMETRIC DATA (MEASURED):

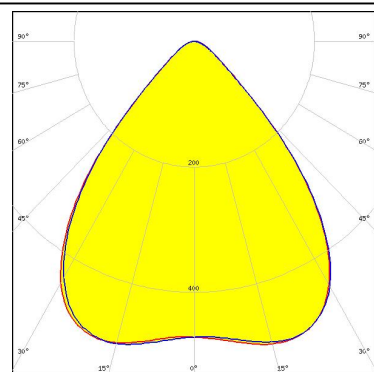
#### TRIDONIC

LED SLE G7 LES09  
FWHM 84.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



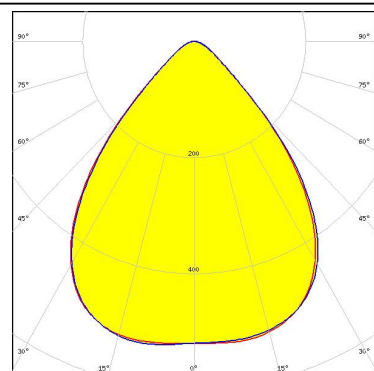
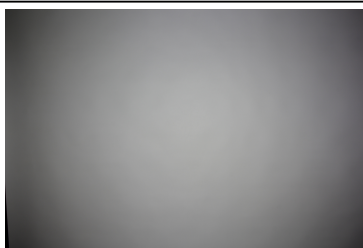
#### TRIDONIC

LED SLE G7 LES13  
FWHM 84.0°  
Efficiency 87 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



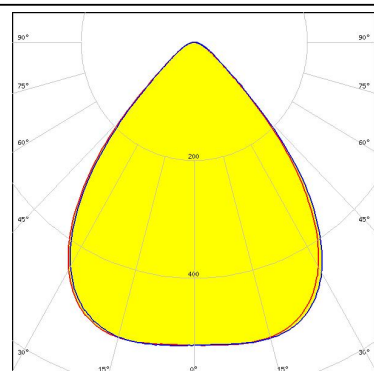
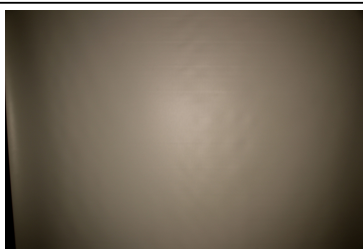
#### TRIDONIC

LED SLE G7 LES15  
FWHM 81.0°  
Efficiency 87 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



#### XICATO

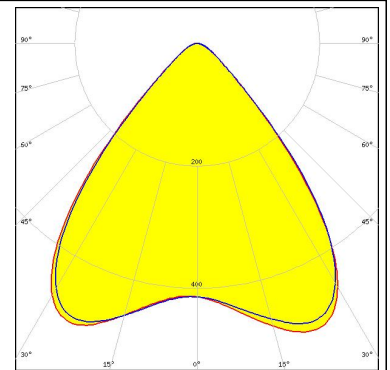
LED XOB 14.5 mm  
FWHM 82.0°  
Efficiency 87 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15859\_HEKLA-SOCKET-I



### PHOTOMETRIC DATA (MEASURED):

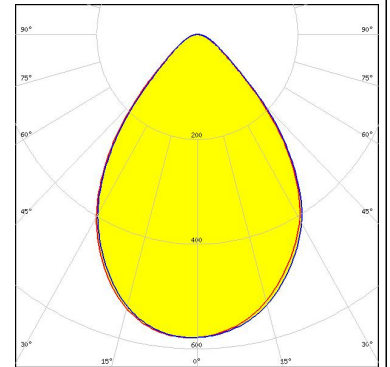
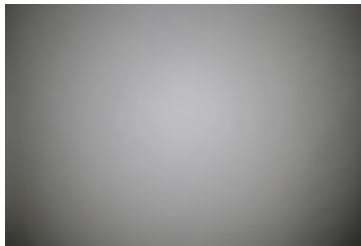
#### XICATO

LED XOB 9.8 mm  
FWHM 80.0°  
Efficiency 90 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
F15255\_HEKLA-SOCKET-C



#### XICATO

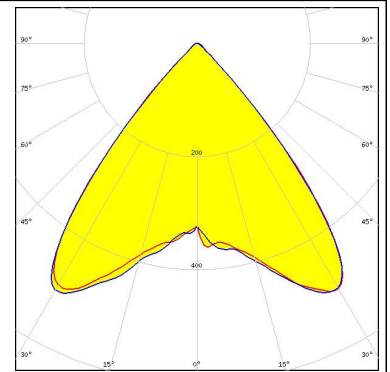
LED XTM - 19mm LES  
FWHM 76.0°  
Efficiency 87 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
C16058\_XTM-ADAPTER-50-C



### PHOTOMETRIC DATA (SIMULATED):



LED	COB T-Type
FWHM	68.0 + 74.0°
Efficiency	85 %
Peak intensity	0.7 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.

### 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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USA

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[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)