

## AMY-45-S

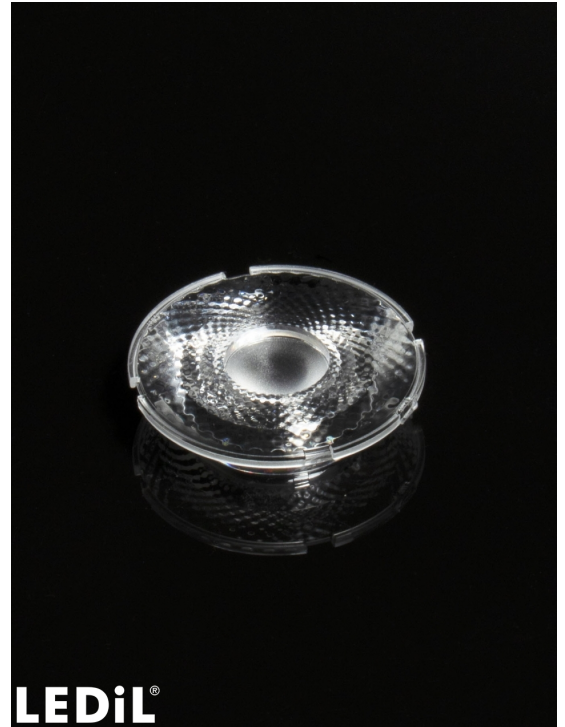
~18° spot beam

### SPECIFICATION:

Dimensions	Ø 45.0 mm
Height	10 mm
ROHS compliant	yes ⓘ

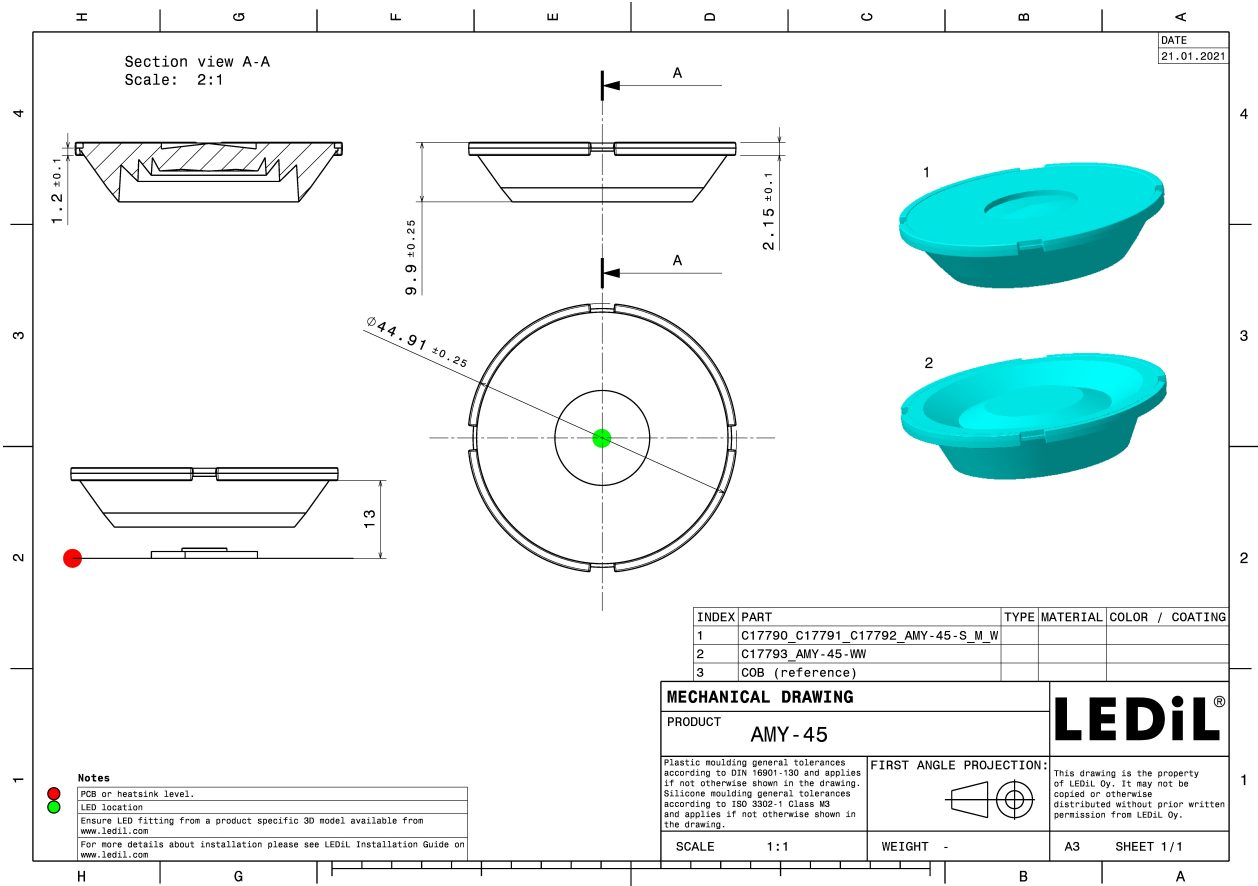
### MATERIALS:

Component	Type	Material	Colour	Finish
AMY-45-S	Single lens	PMMA		





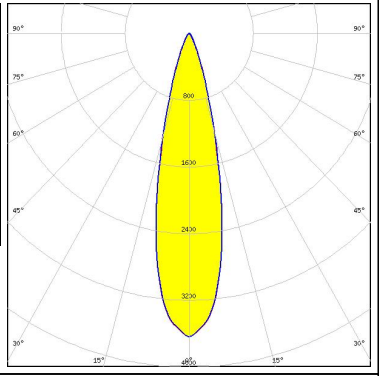


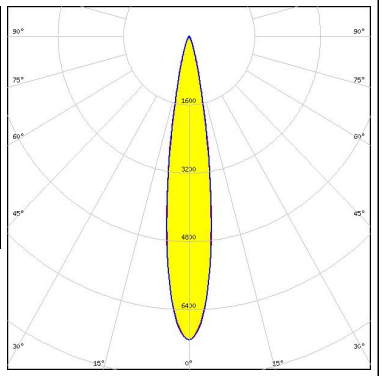


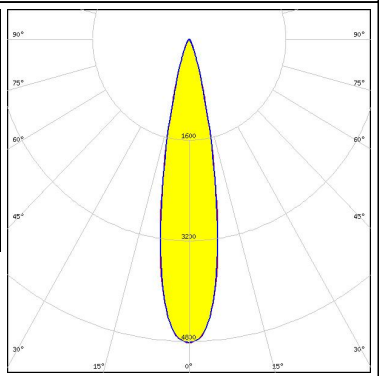

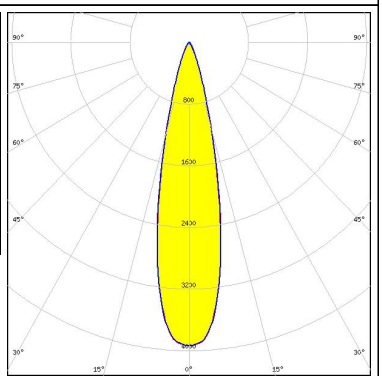
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17790_AMY-45-S » Box size: 480 x 280 x 300 mm	1035	180	45	10.2



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

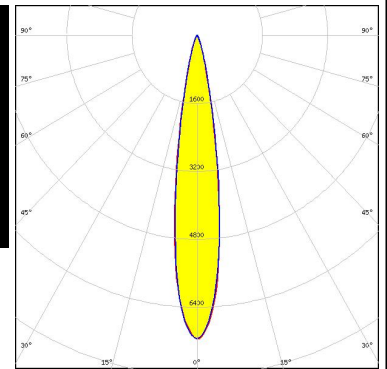
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED V11 HD Gen 8</p> <p>FWHM / FWTM 25.0° / 46.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.7 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: Bender Wirth: 633d Hekla</p>		
<p></p> <p>LED V6 HD Gen 7</p> <p>FWHM / FWTM 17.0° / 32.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 7.1 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15255_HEKLA-SOCKET-C</p>		
<p></p> <p>LED V9 HD Gen7</p> <p>FWHM / FWTM 21.0° / 39.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.8 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15859_HEKLA-SOCKET-I</p>		
<p><b>CITIZEN</b></p> <p>LED CLL02x/CLU02x (LES10)</p> <p>FWHM / FWTM 24.0° / 43.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17435_HEKLA-G2-C</p>		

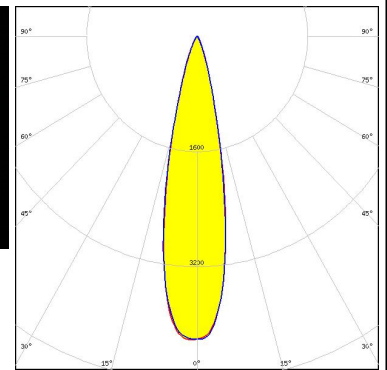
#### OPTICAL RESULTS (MEASURED):

### CITIZEN

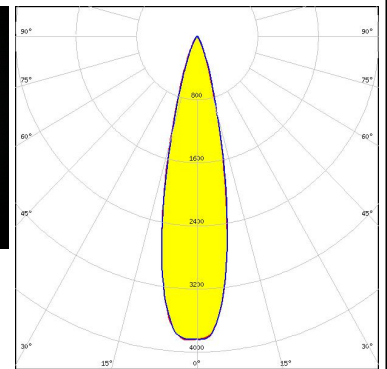
LED CLU700/701/702/703  
 FWHM / FWTM 17.0° / 32.0°  
 Efficiency 88 %  
 Peak intensity 7.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



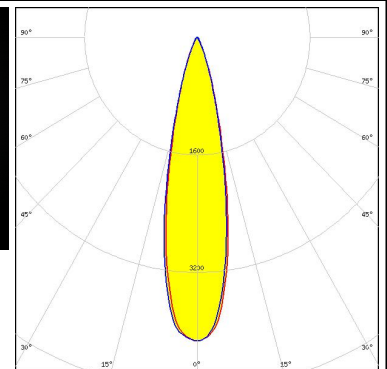
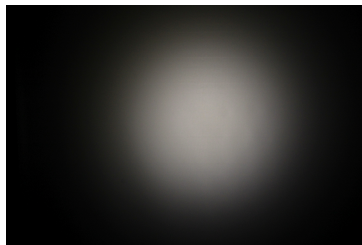
LED CMA1516  
 FWHM / FWTM 23.0° / 42.0°  
 Efficiency 85 %  
 Peak intensity 4.2 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17436\_HEKLA-G2-D



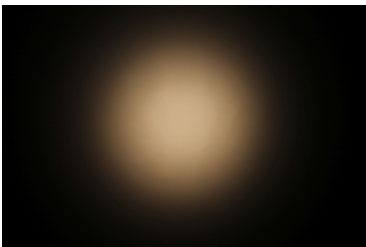
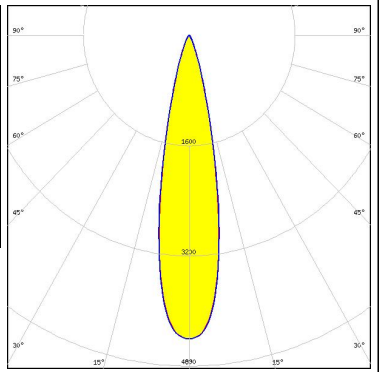

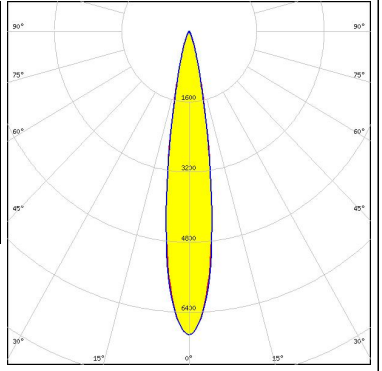
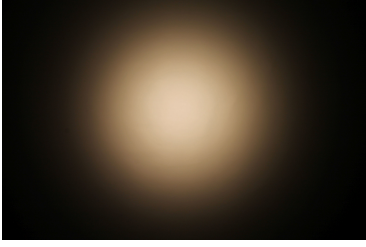
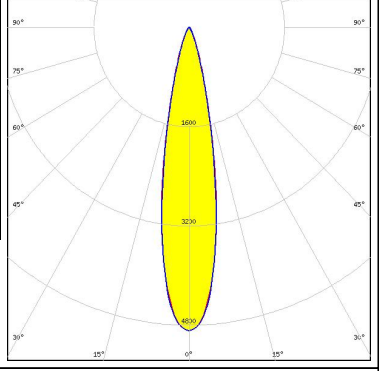

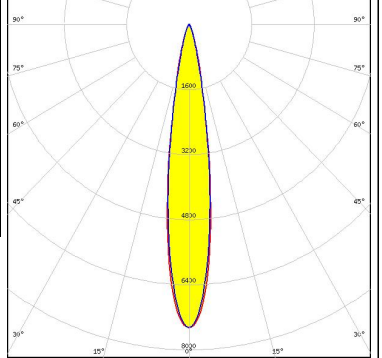
LED CMT14xx  
 FWHM / FWTM 24.0° / 44.0°  
 Efficiency 86 %  
 Peak intensity 3.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



LED CMU10xx  
 FWHM / FWTM 23.0° / 43.0°  
 Efficiency 89 %  
 Peak intensity 4.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 BJB: 47.360.1020



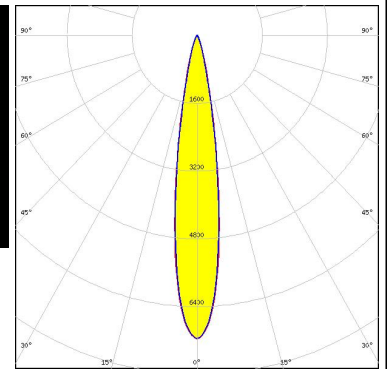
#### OPTICAL RESULTS (MEASURED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202/1203</p> <p>FWHM / FWTM 22.0° / 40.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.4 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F17437_HEKLA-G2-H</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CoB 1202s</p> <p>FWHM / FWTM 17.0° / 33.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 6.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15848_HEKLA-SOCKET-G</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB M02 / M03 (Gen2)</p> <p>FWHM / FWTM 21.0° / 40.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 4.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15256_HEKLA-SOCKET-D</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON CX Plus CoB S01 (Gen2)</p> <p>FWHM / FWTM 16.0° / 32.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 7.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components: F15956_HEKLA-SOCKET-J</p>		

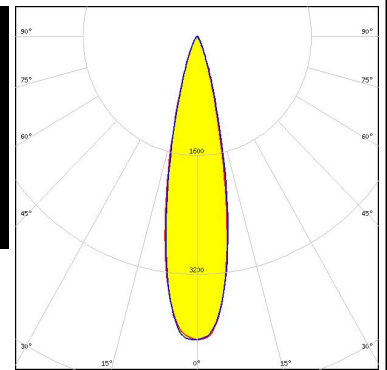
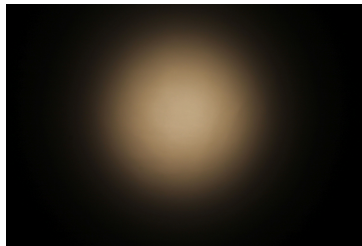
#### OPTICAL RESULTS (MEASURED):



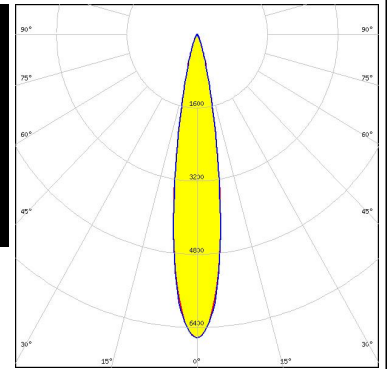
LED CxM-6 (13.5x13.5)  
 FWHM / FWTM 17.0° / 32.0°  
 Efficiency 88 %  
 Peak intensity 7.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



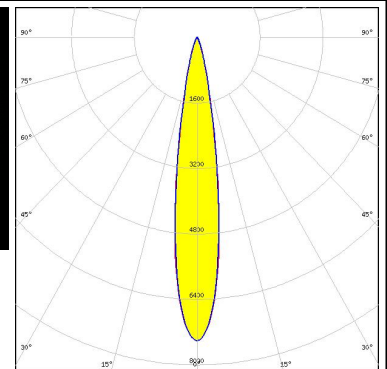
LED CxM-9 (13.5x13.5)  
 FWHM / FWTM 23.0° / 43.0°  
 Efficiency 86 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



LED COB S-Type (LES 7)  
 FWHM / FWTM 18.0° / 35.0°  
 Efficiency 89 %  
 Peak intensity 6.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



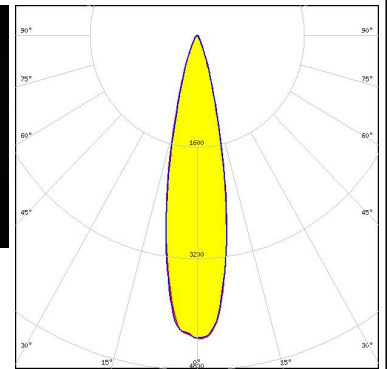
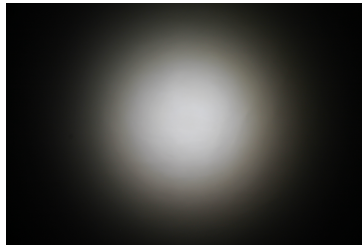
LED COB T-Type  
 FWHM / FWTM 17.0° / 33.0°  
 Efficiency 90 %  
 Peak intensity 7.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15848\_HEKLA-SOCKET-G



#### OPTICAL RESULTS (MEASURED):

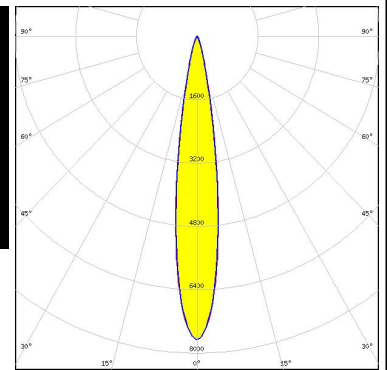
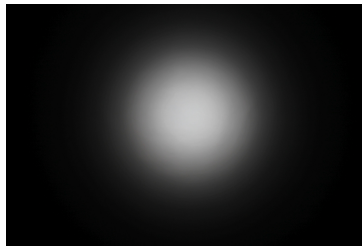
### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
 FWHM / FWTM 23.0° / 43.0°  
 Efficiency 94 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



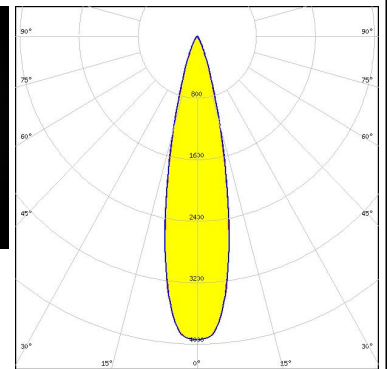
SEOUL SEMICONDUCTOR

LED MJT COB LES 6  
 FWHM / FWTM 16.0° / 31.0°  
 Efficiency 88 %  
 Peak intensity 7.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



SEOUL SEMICONDUCTOR

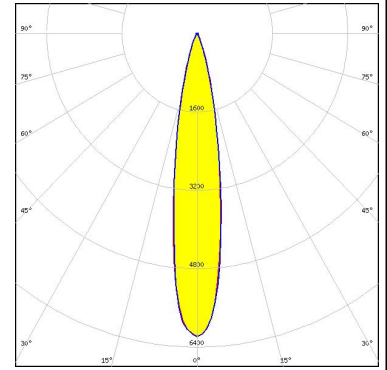
LED MJT COB LES 9.8  
 FWHM / FWTM 24.0° / 44.0°  
 Efficiency 86 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



#### OPTICAL RESULTS (SIMULATED):

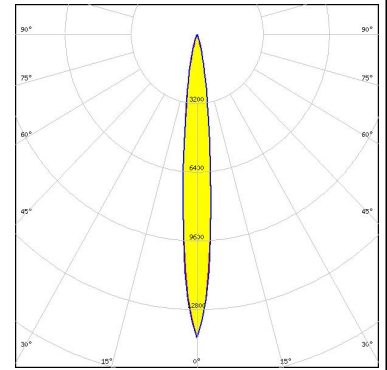
### CITIZEN

LED CLU712/713  
 FWHM / FWTM 18.0° / 38.0°  
 Efficiency 92 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17438\_HEKLA-G2-I



### CREE LEDs

LED CHA0410  
 FWHM / FWTM 12.0° / 26.0°  
 Efficiency 91 %  
 Peak intensity 14.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F17435\_HEKLA-G2-C



### CREE LEDs

LED CMA1825  
 FWHM / FWTM 25.0° / 51.0°  
 Efficiency 89 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 F15254\_HEKLA-SOCKET-B



### GENERAL INFORMATION:

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

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

### MATERIALS:

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

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

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

#### Local sales and technical support

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