

PRODUCT DATASHEET CP17783\_AMY-70-M-C

# AMY-70-M-C

~24° medium beam. Assembly with holder C compatible with LEDiL HEKLA. Black version.

#### **SPECIFICATION:**

| Dimensions     | Ø 69.9 mm |
|----------------|-----------|
| Height         | 16.6 mm   |
| Fastening      | socket    |
| ROHS compliant | yes 🛈     |



#### **MATERIALS:**

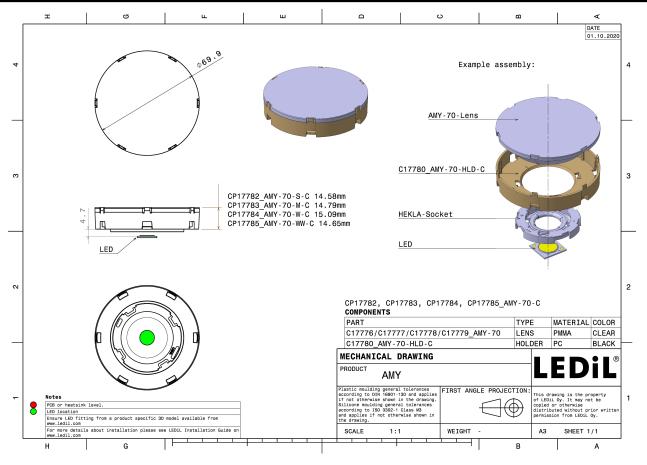
| Component    | Туре        | Material | Colour | Finish |
|--------------|-------------|----------|--------|--------|
| AMY-70-M     | Single lens | PMMA     |        |        |
| AMY-70-HLD-C | Holder      | PC       |        |        |

### **ORDERING INFORMATION:**

| Component                      | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| CP17783_AMY-70-M-C             | 210        | 210 | 15  | 8.7             |
| » Box size: 480 x 280 x 300 mm |            |     |     |                 |



# PRODUCT DATASHEET CP17783\_AMY-70-M-C



See also our general installation guide: www.ledil.com/installation\_guide



## **OPTICAL RESULTS (MEASURED):**

| ·  |  |   |
|--|--|---|
| bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>F15255_HEKLA    |  |   |
| bridgelux<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>Bender Wirth: 63 |  | 200<br>200<br>62.<br>200<br>100<br>62.<br>200<br>63.<br>200<br>64.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>65.<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 |
| bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>F15859_HEKLA    |  | 34 <sup>5</sup><br>35 <sup>5</sup><br>35 <sup>5</sup><br>35 <sup>5</sup><br>35 <sup>5</sup><br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20  |
| bridgeluX.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>F15253_HEKLA    |  | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200  |



## **OPTICAL RESULTS (MEASURED):**

| CITIZE   | N  | 90 <sup>4</sup> 99 <sup>4</sup>                  |
|--|--|--|
|  | CLL02x/CLU02x (LES10)  |  |
| FWHM / FWTM  | 22.0° / 41.0°  | 7. 7.  |
| Efficiency   | 90 %   |  |
| Peak intensity   | 4.8 cd/lm  |  |
| LEDs/each optic  | 1  |  |
| Light colour   | White  | er la        |
| Required componer  |  |  |
| F17435_HEKLA-  |  |  |
|  |  | $\times$ / $\setminus$ $\times$                  |
|  |  |  |
|  | _  | 15 <sup>4</sup> 4 <sup>5</sup>                   |
|  |  | 50 <sup>4</sup> 50 <sup>4</sup>                  |
| LED  | CMU15xx  | 21   |
| FWHM / FWTM  | 26.0° / 51.0°  |  |
| Efficiency   | 88 %   | 60, 60,  |
| Peak intensity   | 3.2 cd/lm  |  |
| LEDs/each optic  | 1  |  |
| Light colour   | White  | er er  |
| Required componer  | nts:   | 200  |
| F17438_HEKLA-  | -G2-I  |  |
|  |  |  |
|  |  | 30-  |
|  | EDC  |  |
|  | EUS  | 90° 90°  |
|  |  | 50" 50"  |
| LED  | LUXEON Fusion 12-up (20x24)  | 23° 23° 23°                                      |
| LED<br>FWHM / FWTM   |  | 29°  |
| LED<br>FWHM / FWTM<br>Efficiency   | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm  | 99° 99°<br>73° 72°<br>69° 200 98°                |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %   | g. 100 62 55 55 55 55 55 55 55 55 55 55 55 55 55 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White   | a a  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K  | a a  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA   | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS  | a a  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA-<br>Bender Wirth: 44  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8   | a  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA-<br>Bender Wirth: 44  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA-<br>Bender Wirth: 44  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA:<br>Bender Wirth: 44  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA<br>Bender Wirth: 44   | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA:<br>Bender Wirth: 44  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %<br>4 cd/lm                                     |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA:<br>Bender Wirth: 44  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>12 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %<br>4 cd/lm<br>21                               |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA<br>Bender Wirth: 44   | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>12 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %<br>4 cd/lm<br>21<br>White                      |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA<br>Bender Wirth: 44<br>CONTINUE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component                  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %<br>4 cd/lm<br>21<br>White<br>nts:              |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA<br>Bender Wirth: 44<br>CONTRACTOR<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>42 Typ L8<br>EDS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %<br>4 cd/lm<br>21<br>White<br>nts:<br>-SOCKET-K |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen<br>C16142_HEKLA<br>F18158_HEKLA<br>Bender Wirth: 44<br>CONTINUE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component                  | LUXEON Fusion 12-up (20x24)<br>22.0° / 41.0°<br>84 %<br>4.3 cd/lm<br>12<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS<br>LUXEON Fusion 21-up (20x24)<br>23.0° / 42.0°<br>82 %<br>4 cd/lm<br>21<br>White<br>nts:<br>-SOCKET-K<br>-RZ-LENS         |  |



## **OPTICAL RESULTS (MEASURED):**

|                  | EDS                               | 90 <sup>4</sup> 90 <sup>4</sup>  |
|------------------|-----------------------------------|--|
| LED              | LUXEON Fusion 27-up (20x24)       |  |
| FWHM / FWTM      | 26.0° / 48.0°                     | 25   |
| Efficiency       | 82 %                              | 61 <sup>4</sup>  |
| Peak intensity   | 3.1 cd/lm                         |  |
| LEDs/each optic  | 27                                |  |
| Light colour     | White                             |  |
| Required compone | ents:                             | 300  |
| C16142_HEKLA     | A-SOCKET-K                        |  |
| F18158_HEKLA     | I-RZ-LENS                         |  |
| Bender Wirth: 44 | 42 Typ L8                         | 30 <sup>4</sup> 200 30   |
| <b>S</b> ΛΜSI    | JNG                               | 95 <sup>5</sup>  |
| LED              | LC016D / LC019D / LC026D / LC033D |  |
| FWHM / FWTM      | 27.0° / 53.0°                     | 25   |
| Efficiency       | 90 %                              |  |
| Peak intensity   | 3.1 cd/lm                         |  |
| LEDs/each optic  | 1                                 |  |
| Light colour     | White                             | or or or or or other states and the states of the states o |
| Required compone | ents:                             | 200  |
| F15859_HEKLA     | -SOCKET-I                         |  |
|                  |                                   |  |
|                  |                                   |  |



| bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:                     | V13 Gen7<br>24.0° / 51.0°<br>92 %<br>3.8 cd/lm<br>1<br>White          | 22, 6, 22,<br>6, 60<br>6, 700<br>6, 700<br>700<br>700<br>700<br>700<br>700<br>700<br>700<br>700<br>700 |
|---|---|--|
| bridgelux.  |   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15253_HEKLA-SOC               | V8 Gen7<br>22.0° / 38.0°<br>91 %<br>5.6 cd/lm<br>1<br>White<br>XKET-A | x<br>y<br>y<br>y<br>y<br>y<br>y<br>y<br>y<br>y<br>y<br>y<br>y<br>y                                     |
| lawal and w   |   |  |
| bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15616_HEKLA-SOC | VERO10<br>22.0° / 39.0°<br>91 %<br>5.4 cd/lm<br>1<br>White<br>CKET-F  | 37 300 64   64 300 64   65 300 64  |
| bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C16142_HEKLA-SOC | VERO13<br>24.0° / 44.0°<br>89 %<br>4.4 cd/lm<br>1<br>White            | 30°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>5                                |



| <b>CITIZEN</b>   |  | 90 <sup>4</sup>  |
|--|--|--|
| LED  | CLL03x/CLU03x  |  |
| FWHM / FWTM  | 23.0 + 22.0° / 50.0 + 48.0°  | 23* 200 7  |
| Efficiency   | 89 %   |  |
| Peak intensity   | 3.9 cd/lm  | 60 <sup>4</sup>  |
| LEDs/each optic  | 1  |  |
| Light colour   | White  | 954 200  |
| Required components:   | White  |  |
| F15859_HEKLA-SO  |  | 200  |
|  |  |  |
|  |  | 30" 0000 3   |
| CITIZEN  |  | <u> </u>   |
|  |  |  |
|  | CLU700/701/702/703   | 75   |
| FWHM / FWTM<br>Efficiency  | 21.0° / 36.0 + 37.0°<br>93 %   | 1000   |
| -  | 93 %<br>6.1 cd/lm  | 60° 6  |
| Peak intensity<br>LEDs/each optic  | 1  |  |
|  | White  | 3200   |
| Light colour<br>Required components:   | White  |  |
| F15255_HEKLA-SO  | CKET-C   | 4000   |
| 1 13235_HEREA-30   |  |  |
|  |  |  |
|  |  | 30 <sup>6</sup> 6330 30<br>15° 0 <sup>6</sup> 15°                        |
| CITIZEN  |  | 90*  |
| LED  | CLU700/701/702/703   |  |
| FWHM / FWTM  | 20.0° / 36.0°  | 75 72  |
|  |  |  |
| Efficiency   | 92 %   |  |
|  |  | 60 <sup>1</sup> 6  |
| Peak intensity   | 92 %<br>6.1 cd/lm<br>1   | es   |
| Peak intensity<br>LEDs/each optic  | 6.1 cd/lm  | gr 220   |
| Peak intensity<br>LEDs/each optic<br>Light colour  | 6.1 cd/lm<br>1   | gr (   |
| Peak intensity<br>LEDs/each optic  | 6.1 cd/lm<br>1<br>White  | gr   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | 6.1 cd/lm<br>1<br>White  | gr.  |
|  | 6.1 cd/lm<br>1<br>White  | et   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White  | er   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C  | gr   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825   | et   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°                                    | gr   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %                            | et   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %<br>4.4 cd/lm               | 25-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20 |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %<br>4.4 cd/lm<br>1          | gr   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %<br>4.4 cd/lm               |  |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %<br>4.4 cd/lm<br>1<br>White | gr   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO   | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %<br>4.4 cd/lm<br>1<br>White |  |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15255_HEKLA-SO<br>CREE LED<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 6.1 cd/lm<br>1<br>White<br>CKET-C<br>CMA1825<br>24.0° / 45.0°<br>90 %<br>4.4 cd/lm<br>1<br>White |  |



|   |  | 90° 90°  |
|---|--|--|
| LED   | CMT14xx  |  |
| FWHM / FWTM   | 22.0° / 39.0°  | 757  |
| Efficiency  | 91 %   | 100  |
| Peak intensity  | 5.7 cd/lm  | 60 <sup>1</sup>  |
| LEDs/each optic   | 1  |  |
| Light colour  | White  | 45* 45*  |
| Required components:  |  |  |
| F17435_HEKLA-G2-  | С  | 400  |
|   |  |  |
|   |  | 30°  |
|   |  | 45 <sup>°</sup> 0 <sup>°</sup> 35 <sup>°</sup>   |
|   |  | 90° 90°  |
| LED   | CMU10xx  | 25   |
| FWHM / FWTM   | 22.0° / 40.0°  | $h \wedge h \wedge 7$  |
| Efficiency  | 91 %   | 000 × 000  |
| Peak intensity  | 5.5 cd/lm  |  |
| LEDs/each optic   | 1  |  |
| Light colour  | White  | 457 457  |
| Required components:  |  |  |
| F17435_HEKLA-G2-  | C  | 433  |
|   |  |  |
|   |  | 30*  |
|   |  | 123 06 722   |
|   |  |  |
|   |  | 90° 90*  |
|   | CXA/B 15xx   |  |
|   | CXA/B 15xx<br>20.0° / 40.0°  | 32   |
| LED   |  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | 20.0° / 40.0°  | $ \land \land$   |
| LED<br>FWHM / FWTM<br>Efficiency  | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1  | 60°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm   | $\wedge \times \wedge \wedge \wedge$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White   | ge 64  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White   | 60°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White   | er   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White   | er   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D   | 1000 ext   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9   | 1000 ext   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°                                    | 1000 ext   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br><b>CONTINUES</b><br>LED<br>FWHM / FWTM<br>Efficiency   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %                            | 22<br>23<br>24<br>25<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br><b>ED</b><br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %<br>5.4 cd/lm               | 22<br>23<br>24<br>25<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br><b>ED</b><br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %<br>5.4 cd/lm<br>1          | 22<br>23<br>24<br>25<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br><b>WIM / FWTM</b><br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                                       | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %<br>5.4 cd/lm               | 60   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br><b>EVIDIALED</b><br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %<br>5.4 cd/lm<br>1<br>White | 60   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %<br>5.4 cd/lm<br>1<br>White | 60, 200<br>33, 200<br>54, 200<br>55, 200<br>60, 200<br>60, 200<br>100, 20, 20, 20, 20, 20, 20, 20, 20, 20,   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>F15256_HEKLA-SOU<br><b>EVIDIALED</b><br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 20.0° / 40.0°<br>91 %<br>5.7 cd/lm<br>1<br>White<br>CKET-D<br>S<br>LUXEON CX Plus CoB - HD S04H9<br>22.0° / 40.0°<br>91 %<br>5.4 cd/lm<br>1<br>White | 62.<br>64.<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>10 |



| <b>ΜΝΙCΗΙΛ</b>  |  | 90° 90°  |
|---|--|--|
| LED   | COB L-Type (LES 11)  |  |
| FWHM / FWTM   | 23.0° / 43.0°  |  |
| Efficiency  | 90 %   | 60° 60   |
| Peak intensity  | 4.6 cd/lm  |  |
| LEDs/each optic   | 1  |  |
| Light colour  | White  | a i  |
| Required components   |  | 3200   |
| F17437_HEKLA-G2   | -H   |  |
|   |  |  |
|   |  | 36° 4800 30  |
| PHILIPS   | 5  | 50° <b>A</b> 50  |
| LED   | Fortimo SLM L15 CoB  |  |
| FWHM / FWTM   | 26.0° / 48.0°  | 73   |
| Efficiency  | 90 %   | 60 <sup>3</sup>  |
| Peak intensity  | 3.8 cd/lm  |  |
| LEDs/each optic   | 1  |  |
| Light colour  | White  | 451 2430   |
| Required components   |  |  |
| Bender Wirth: 632a  | Hekla XL   | 220  |
|   |  |  |
|   |  | 30* 4000 30  |
|   |  |  |
| SAMSII  | NG   | 90 <sup>4</sup> 90 <sup>4</sup>  |
| SAMSU   |  | 90 <sup>4</sup>  |
| LED   | LC003D / LC006D / LC009D / LC013D  |  |
| LED<br>FWHM / FWTM  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°   | 20<br>20<br>100  |
| LED<br>FWHM / FWTM<br>Efficiency  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°   |  |
| LED<br>FWHM / FWTM<br>Efficiency  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White  | 60 <sup>4</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White  | e <sup>r</sup> 500   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White  | 60 <sup>1</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White  | e <sup>r</sup> 500   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White  | 6)* 560<br>67 3230<br>87 8   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC   | LC003D / LC006D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>DCKET-C  | er   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>CKET-C  | er   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC   | LC003D / LC006D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>DCKET-C  | er   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC<br>SAMSU<br>LED<br>FWHM / FWTM<br>Efficiency  | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>SOCKET-C<br>NCC<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°<br>91 %                           | 25<br>26<br>27<br>26<br>27<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>DCKET-C<br>NCG<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°                                    | 25<br>26<br>27<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC<br><b>SAMSU</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>DCKET-C<br>NG<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°<br>91 %<br>5.1 cd/lm                | 25<br>26<br>27<br>26<br>27<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC<br>SAMSU<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>DCKET-C<br>NCC<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°<br>91 %<br>5.1 cd/lm<br>1<br>White |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC<br><b>SAMSU</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                        | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>CCKET-C<br>NCC<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°<br>91 %<br>5.1 cd/lm<br>1<br>White |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC<br><b>SAMSU</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>CCKET-C<br>NCC<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°<br>91 %<br>5.1 cd/lm<br>1<br>White |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>F15255_HEKLA-SC<br><b>SAMSU</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components | LC003D / LC006D / LC009D / LC013D<br>20.0° / 40.0°<br>92 %<br>5.6 cd/lm<br>1<br>White<br>CCKET-C<br>NCC<br>LC020T (Tunable white)<br>20.0° / 42.0 + 43.0°<br>91 %<br>5.1 cd/lm<br>1<br>White |  |



| SEOUL<br>SEOUL SEMICONDUCTOR   |   | 50 <sup>4</sup>   |
|--|---|---|
| LED  | MJT COB LES 14.5  |   |
| FWHM / FWTM  | 26.0° / 51.0°   | 71 200  |
| Efficiency   | 89 %  |   |
| Peak intensity   | 3.6 cd/lm   |   |
| LEDs/each optic  | 1   |   |
| Light colour   | White   | a. au   |
| Required components  | 5:  |   |
| F17438_HEKLA-G   | 2-1   |   |
|  |   |   |
|  |   | 30°   |
|  |   | 127   |
| <b>XICATO</b>  |   | 90° 90°   |
|  |   |   |
| LED  | XOB 14.5 mm   |   |
|  |   | 75. 200   |
| LED  | XOB 14.5 mm   |   |
| LED<br>FWHM / FWTM   | XOB 14.5 mm<br>26.0° / 45.0°  |   |
| LED<br>FWHM / FWTM<br>Efficiency   | XOB 14.5 mm<br>26.0° / 45.0°<br>82 %                                  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | XOB 14.5 mm<br>26.0° / 45.0°<br>82 %<br>3.8 cd/lm                     |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | XOB 14.5 mm<br>26.0° / 45.0°<br>82 %<br>3.8 cd/lm<br>1<br>White       |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                        | XOB 14.5 mm<br>26.0° / 45.0°<br>82 %<br>3.8 cd/lm<br>1<br>White<br>S: | a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components | XOB 14.5 mm<br>26.0° / 45.0°<br>82 %<br>3.8 cd/lm<br>1<br>White<br>S: |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components | XOB 14.5 mm<br>26.0° / 45.0°<br>82 %<br>3.8 cd/lm<br>1<br>White<br>S: | a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a |



#### **GENERAL INFORMATION:**

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

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

#### **MATERIALS:**

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

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