

# PRODUCT DATASHEET C12482\_MIRELLA-50-W-PIN

## MIRELLA-50-W-PIN

~40° wide beam

#### **TECHNICAL SPECIFICATIONS:**

| Dimensions     | Ø 49.9 mm |
|----------------|-----------|
| Height         | 23.9 mm   |
| Fastening      | pin       |
| ROHS compliant | yes 🛈     |



## **MATERIAL SPECIFICATIONS:**

Component MIRELLA-50-W-PIN **Type** Reflector **Material** PC

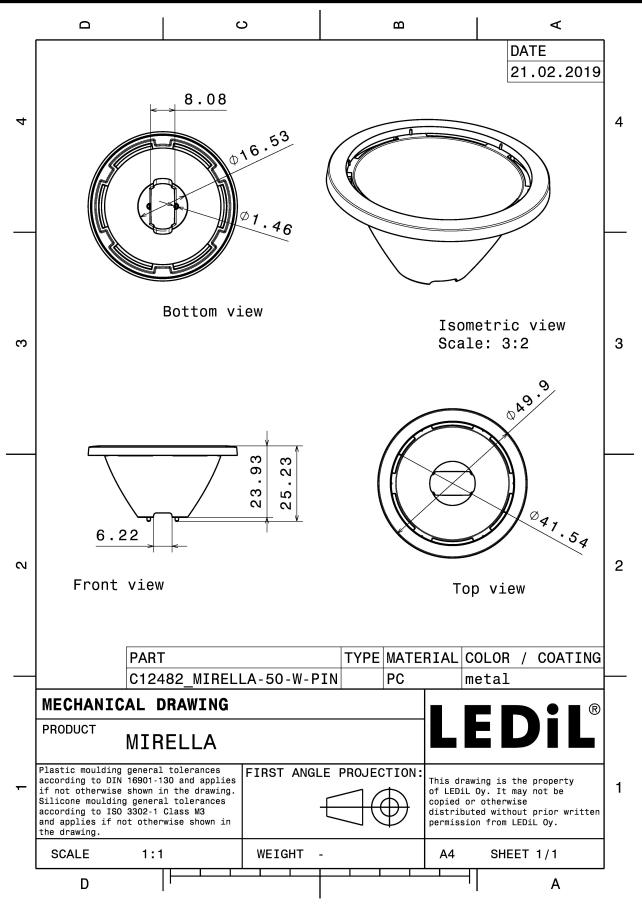
| Colour | Finish | Coating |
|--------|--------|---------|
| metal  |        | lacquer |

#### **ORDERING INFORMATION:**

| Component                      | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| C12482_MIRELLA-50-W-PIN        | 336        | 112 | 28  | 2.7             |
| » Box size: 480 x 280 x 300 mm |            |     |     |                 |



## PRODUCT DATASHEET C12482\_MIRELLA-50-W-PIN



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



| bridgelux.       |               |  | 90*                   | 90°               |
|------------------|---------------|--|-----------------------|-------------------|
| LED              | SM4           |  |                       |                   |
| FWHM / FWTM      | 49.0° / 82.0° |  | 75*                   | 75                |
| Efficiency       | 77 %          |  |                       |                   |
| Peak intensity   | 1.1 cd/lm     |  | 60 <sup>8</sup> 400   | 60'               |
| LEDs/each optic  | 1             |  |                       |                   |
| Light colour     | White         |  | 95*                   |                   |
| Required compone |               |  |                       | X                 |
| C12479_MIREL     |               |  | 800                   |                   |
|                  |               |  |                       |                   |
|                  |               |  | 30*                   | 36                |
|                  |               |  |                       | 150               |
| bridgelux.       |               |  | 90*                   | 90*               |
| LED              | SM4           |  | 25°                   |                   |
| FWHM / FWTM      | 44.0° / 78.0° |  |                       | ~ ~               |
| Efficiency       | 78 %          |  | 60* 400               | 60                |
| Peak intensity   | 1.2 cd/lm     |  | $\square / / \square$ | $\land$           |
| LEDs/each optic  | 1             |  |                       | $\setminus X$     |
| Light colour     | White         |  | est X                 | 45"               |
| Required compone |               |  |                       | $\langle \rangle$ |
| C13333_MIREL     | LA-CL         |  |                       |                   |
|                  |               |  |                       |                   |
|                  |               |  | 36° 25° 0°            | 15° 36°           |
|                  | D             |  |                       |                   |
| LED              | MHB-A/B       |  |                       |                   |
| FWHM / FWTM      | 51.0° / 84.0° |  |                       |                   |
| Efficiency       | 82 %          |  |                       |                   |
| Peak intensity   | 1.2 cd/lm     |  |                       |                   |
| LEDs/each optic  | 1             |  |                       |                   |
| Light colour     | White         |  |                       |                   |
| Required compone | ents:         |  |                       |                   |
| C12479_MIREL     | LA-DL         |  |                       |                   |
|                  |               |  |                       |                   |
|                  |               |  |                       |                   |
|                  |               |  |                       |                   |
| LED              | MHB-A/B       |  |                       |                   |
| FWHM / FWTM      | 45.0° / 88.0° |  |                       |                   |
| Efficiency       | 87 %          |  |                       |                   |
| Peak intensity   | 1.4 cd/lm     |  |                       |                   |
| LEDs/each optic  | 1             |  |                       |                   |
| Light colour     | White         |  |                       |                   |
| Required compone | ents:         |  | I                     |                   |
|                  |               |  |                       |                   |
|                  |               |  |                       |                   |
|                  |               |  |                       |                   |
|                  |               |  |                       |                   |



| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13333_MIREL | MHB-A/B<br>49.0° / 82.0°<br>82 %<br>1.2 cd/lm<br>1<br>White<br>nts: |  |
|---|---|--|
|   | ХНР50   |  |
| FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | 51.0° / 88.0°<br>81 %<br>1 cd/lm<br>1                               |  |
| Light colour<br>Required compone<br>C13723_MIREL  | White<br>nts:   |  |
|   |   | 99°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | XHP50<br>44.0° / 86.0°<br>89 %<br>1.3 cd/lm<br>1<br>White           |  |
| Light colour<br>Required compone  |   | 204 J20 J2 |
|   |   | 90° 997  |
| LED   | XHP50   |  |
| FWHM / FWTM<br>Efficiency   | 48.0° / 80.0°<br>83 %   |  |
| Peak intensity<br>LEDs/each optic   | 1.1 cd/lm<br>1  |  |
| Light colour<br>Required compone  | White   |  |
| C13333_MIREL  |   | 34" 320 30                                     |



|  |  | 30'             |
|--|--|-----------------|
| LED  | -<br>XHP50   |                 |
| FWHM / FWTM  | 51.0° / 83.0°  |                 |
| Efficiency   | 84 %   |                 |
| Peak intensity   | 1.1 cd/lm  |                 |
| LEDs/each optic  | 1  |                 |
| Light colour   | White  |                 |
| Required componer  |  |                 |
| C12479_MIRELL  |  |                 |
|  |  |                 |
|  |  | 30*             |
|  |  |                 |
|  |  |                 |
| LED  | XM-L   |                 |
| FWHM / FWTM  | 45.0° / 79.0°  |                 |
| Efficiency   | 86 %   | 60 <sup>5</sup> |
| Peak intensity   | 1.4 cd/lm  |                 |
| LEDs/each optic  | 1  |                 |
| Light colour   | White  | ¢*              |
| Required componer  |  |                 |
| C13333_MIRELL  | A-CL   |                 |
|  |  |                 |
|  |  | 34° and at here |
|  |  |                 |
|  |  | 20 <sup>4</sup> |
|  |  | 90 <sup>4</sup> |
| LED  | XM-L<br>46.0° / 86.0°  |                 |
| LED<br>FWHM / FWTM   | XM-L   |                 |
| LED<br>FWHM / FWTM<br>Efficiency   | XM-L<br>46.0° / 86.0°  |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | XM-L<br>46.0° / 86.0°<br>80 %  |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>tts:   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>tts:   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen   | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>tts:   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>tts:<br>A-DL   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>tts:<br>A-DL   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>tts:<br>A-DL<br>XM-L   |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°                                    |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %                            |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %<br>1.6 cd/lm               |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %<br>1.6 cd/lm<br>1          |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>CEDE<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %<br>1.6 cd/lm<br>1<br>White | 73'             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %<br>1.6 cd/lm<br>1<br>White |                 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELLL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELLL<br>C12479_MI | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %<br>1.6 cd/lm<br>1<br>White | 73'             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componer<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELLL<br>C12479_MIRELL<br>C12479_MIRELL<br>C12479_MIRELLL<br>C12479_MI | XM-L<br>46.0° / 86.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:<br>A-DL<br>XM-L<br>32.0° / 80.0°<br>88 %<br>1.6 cd/lm<br>1<br>White | 73'             |



|  |   | 90°   |
|--|---|---|
| LED  | XM-L RGB  |   |
| FWHM / FWTM  | 50.0° / 87.0°   | 73* 73*   |
| Efficiency   | 81 %  |   |
| Peak intensity   | 1 cd/lm   | 60° 60°   |
|  |   |   |
| LEDs/each optic  |   |   |
| Light colour   | White   |   |
| Required compone   |   |   |
| C13723_MIREL   | LA-RZL  |   |
|  |   |   |
|  |   | - 30° - 15° - 0° - 15°  |
|  |   | 90° 90°   |
| LED  | XM-L2   |   |
| FWHM / FWTM  | 49.0° / 83.0°   | 75'   |
| Efficiency   | 81 %  |   |
| Peak intensity   | 1.1 cd/lm   | 60° 400 60°   |
| LEDs/each optic  | 1   |   |
| Light colour   | White   | 97* at  |
| Required compone   |   | 840   |
| C12479_MIREL   |   |   |
| 012475_MIRCEL  |   |   |
|  |   |   |
|  |   | 30° 1230 30°  |
|  |   | 15° 0° 15°  |
|  |   | 90° 90° 133°  |
|  | XM-L2   | 90 <sup>4</sup>   |
| LED  |   | 90 <sup>4</sup>   |
| LED<br>FWHM / FWTM   | XM-L2   | 90 <sup>4</sup>   |
|  | XM-L2<br>39.0° / 83.0°  | 90 <sup>4</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency   | XM-L2<br>39.0° / 83.0°<br>89 %  | 90 <sup>4</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm   | 90 <sup>4</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/Im<br>1<br>White   | 90 <sup>4</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/Im<br>1<br>White   | 90 <sup>4</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White   | 95 <sup>4</sup><br>95 <sup>4</sup> 9 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White   | 95 <sup>4</sup><br>95 <sup>4</sup><br>95 <sup>4</sup><br>95 <sup>4</sup><br>95 <sup>4</sup><br>95 <sup>4</sup><br>96 <sup>4</sup> 9 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:   | 99° 99° 99° 99° 99° 99° 99° 99° 99° 99°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:   | 90°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:   | 2 <sup>3</sup><br>2 <sup>3</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:   | 25° 500 50° 50° 50° 50° 50° 50° 50° 50° 5   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:   | 25°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°  | 25°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°<br>80 %                                    | 2 <sup>3</sup><br>2 <sup>3</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°<br>80 %<br>1.1 cd/lm                       |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°<br>80 %<br>1.1 cd/lm<br>1<br>White         |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>CREE (LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°<br>80 %<br>1.1 cd/lm<br>1<br>White<br>nts: |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>CREE (LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                     | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°<br>80 %<br>1.1 cd/lm<br>1<br>White<br>nts: | 2 <sup>3</sup><br>2 <sup>3</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>CREE (LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | XM-L2<br>39.0° / 83.0°<br>89 %<br>1.5 cd/lm<br>1<br>White<br>nts:<br>XP-G<br>50.0° / 86.0°<br>80 %<br>1.1 cd/lm<br>1<br>White<br>nts: |   |



|   | D  | 20 <sup>4</sup>   |
|---|--|---|
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | XP-G<br>34.0° / 78.0°<br>86 %<br>1.7 cd/lm<br>1<br>White |   |
|   | D  | 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> 20 <sup>2</sup> |
| LED   | XP-G   |   |
| FWHM / FWTM   | 41.0° / 79.0°  |   |
| Efficiency  | 81 %   | 604 600 600 600 600 600 600 600 600 600                         |
| Peak intensity  | 1.4 cd/lm  | $\times$  |
| LEDs/each optic   | 1  |   |
| Light colour  | White  |   |
| Required compone<br>C13333_MIREL  |  |   |
|   |  |   |
|   | D  | 10 00 10  |
| LED   | XP-G2  |   |
| FWHM / FWTM   | 45.0° / 81.0°  |   |
| Efficiency  | 83 %   |   |
| Peak intensity  | 1.3 cd/lm  |   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  |   |
| Required compone<br>C12479_MIREL  |  |   |
| G12479_MIREL  | LA-DL  |   |
|   | D  |   |
| LED   | XP-G2  |   |
| FWHM / FWTM   | 36.0° / 84.0°  |   |
| Efficiency  | 88 %   |   |
| Peak intensity  | 1.7 cd/lm  |   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  |   |
| Required compone  | ents:  |   |
|   |  |   |
|   |  |   |
|   |  |   |



| CREE 🔶 LED       |               |  |
|------------------|---------------|--|
| LED              | XP-L HI       |  |
| FWHM / FWTM      | 35.0° / 84.0° |  |
| Efficiency       | 87 %          |  |
| Peak intensity   | 1.7 cd/lm     |  |
| LEDs/each optic  | 1             |  |
| Light colour     | White         |  |
| Required compone | nts:          |  |
|                  |               |  |
|                  |               |  |
|                  |               |  |
|                  |               | 90 <sup>4</sup> 90 <sup>5</sup>                |
| LED              | XT-E          |  |
| FWHM / FWTM      | 46.0° / 86.0° |  |
| Efficiency       | 77 %          |  |
| Peak intensity   | 1 cd/lm       |  |
| LEDs/each optic  | 1             |  |
| Light colour     | White         | ₫ <sup>2</sup> <u>60</u> 6 <sup>4</sup>        |
| Required compone | nts:          |  |
| C12479_MIREL     | LA-DL         |  |
|                  |               |  |
|                  |               | 30 000 30                                      |
|                  |               | 25 <sup>1</sup> 0 <sup>1</sup> 25 <sup>1</sup> |
| LED              | ХТ-Е          |  |
| FWHM / FWTM      | 31.0° / 80.0° | 77 400   |
| Efficiency       | 84 %          |  |
| Peak intensity   | 1.2 cd/lm     | 69*  |
| LEDs/each optic  | 1             |  |
| Light colour     | White         | er 1200  |
| Required compone |               |  |
|                  |               |  |
|                  |               |  |
|                  |               | N <sup>4</sup> 200 4.4                         |
|                  |               | 100  |
|                  |               | 301  |
| LED              | XT-E          |  |
| FWHM / FWTM      | 41.0° / 77.0° |  |
| Efficiency       | 83 %          | 695 · · · · · · · · · · · · · · · · · · ·      |
| Peak intensity   | 1.4 cd/lm     |  |
| LEDs/each optic  | 1             |  |
| Light colour     | White         | at   |
| Required compone | nts:          |  |
| C13333_MIREL     | LA-CL         |  |
|                  |               |  |
|                  |               |  |
|                  |               | 15' 0' 15'                                     |



| UMIL  | EDS  | 90 <sup>4</sup> 9   |
|---|--|---|
| LED   | LUXEON 5050 Round LES  | 75  |
| FWHM / FWTM   | 38.0° / 83.0°  |   |
| Efficiency  | 89 %   |   |
| Peak intensity  | 1.5 cd/lm  |   |
| LEDs/each optic   | 1  |   |
| Light colour<br>Required compone  | White  |   |
| Required compone  | ins.   | 120   |
|   |  |   |
|   |  |   |
|   |  | 9 <sup>0</sup> 100 s  |
| UMIL  | EDS  | 90 <sup>4</sup>   |
| LED   | LUXEON A   | 77  |
| FWHM / FWTM   | 41.0° / 78.0°  |   |
| Efficiency  | 84 %   | 6/40 6  |
| Peak intensity  | 1.4 cd/lm  |   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  |   |
| Required compone  |  |   |
| C13333_MIREL  | LA-CL  | 120   |
|   |  |   |
|   |  | 30° 0° 139° 3   |
| UMIL  | EDS  | 30'   |
| LED   | LUXEON A   | 77  |
| FWHM / FWTM   | 48.0° / 86.0°  |   |
| Efficiency  | 80 %   | 617 6   |
| Peak intensity  | 1 cd/lm  |   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  |   |
| Required compone<br>C12479_MIREL  |  | - 50 -  |
| CI2479_WIREL  |  |   |
|   |  |   |
|   |  |   |
|   |  | 30 - 325 - 01 - 325 - 0   |
| UMIL  | EDS  | 30 <sup>2</sup> 25 <sup>3</sup> 0 <sup>4</sup> 25 <sup>3</sup> 0<br>30 <sup>2</sup> 9 |
|   | EDS<br>LUXEON A  |   |
| LED   |  |   |
| LED<br>FWHM / FWTM  | LUXEON A   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                    | LUXEON A<br>30.0° / 76.0°                                    | 75  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | LUXEON A<br>30.0° / 76.0°<br>86 %<br>1.7 cd/lm<br>1          |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | LUXEON A<br>30.0° / 76.0°<br>86 %<br>1.7 cd/lm<br>1<br>White |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | LUXEON A<br>30.0° / 76.0°<br>86 %<br>1.7 cd/lm<br>1<br>White |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | LUXEON A<br>30.0° / 76.0°<br>86 %<br>1.7 cd/lm<br>1<br>White |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | LUXEON A<br>30.0° / 76.0°<br>86 %<br>1.7 cd/lm<br>1<br>White |   |



| EUMIL<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIRELI | LUXEON C<br>47.0° / 85.0°<br>77 %<br>1 cd/lm<br>4<br>RGBW<br>hts:       |                    |
|---|---|--------------------|
|   | EDS   | 9 <sup>1</sup>     |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C12479_MIRELI          | LUXEON M/MX<br>54.0° / 90.0°<br>80 %<br>1 cd/lm<br>1<br>White<br>hts:   |                    |
|   | EDS   | 90 <sup>4</sup> 97 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone                           | LUXEON M/MX<br>39.0° / 84.0°<br>87 %<br>1.4 cd/lm<br>1<br>White         |                    |
| UMIL  | EDS   | 90 <sup>4</sup>    |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13333_MIRELI          | LUXEON M/MX<br>47.0° / 80.0°<br>83 %<br>1.2 cd/lm<br>1<br>White<br>hts: |                    |



|   |  |  |   |   | 1 / 1   |
|---|--|--|---|---|---|
| 🥙 LUMIL   | .EDS   |  |   | 90*   | 90*   |
| LED   | LUXEON MZ  |  |   |   |   |
| FWHM / FWTM   | 40.0° / 77.0°  |  |   | 75*   | 12.   |
| Efficiency  | 82 %   |  |   | 400   |   |
| Peak intensity  | 1.5 cd/lm  |  |   | * X /   |   |
| LEDs/each optic   | 1  |  |   |   | X   |
| Light colour  | White  |  |   | 43*   | 450   |
| Required compone  | ents:  |  |   |   |   |
| C12479_MIREL  | LA-DL  |  |   | 1230  | A   |
|   |  |  |   |   |   |
|   |  |  |   | 30°   | 36.0  |
|   | .EDS   |  |   | 10 100<br>90°   | 90*   |
| LED   | LUXEON MZ  |  |   |   |   |
| FWHM / FWTM   | 32.0° / 79.0°  |  |   | 75*   | 35  |
| Efficiency  | 87 %   |  |   |   |   |
| Peak intensity  | 2 cd/lm  |  |   | 60 <sup>4</sup> 800   | 60.   |
| LEDs/each optic   | 1  |  |   |   |   |
| Light colour  | White  |  |   | 45°   | 45.   |
| Required compone  |  |  |   |   | $\wedge \times$   |
|   |  |  |   | 1630  | +   |
|   |  |  |   |   |   |
|   |  |  |   |   |   |
|   |  |  | 2 | 30° 0°  | 15.   |
|   |  |  |   |   |   |
| UMIL  | .EDS   |  |   | 90°   | 90*   |
|   | LUXEON Z   |  |   | 90°   | 90*   |
|   |  |  |   | 90°   | <u>90*</u><br>23*   |
| LED   | LUXEON Z   |  |   | 97  | 9°*   |
| LED<br>FWHM / FWTM  | LUXEON Z<br>46.0° / 84.0°  |  |   | 50 <sup>4</sup>   | R R   |
| LED<br>FWHM / FWTM<br>Efficiency  | LUXEON Z<br>46.0° / 84.0°<br>80 %  |  |   | 99 <sup>4</sup>   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm   |  |   | 99 <sup>5</sup>   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone                 | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:   |  |   | 91<br>73<br>60<br>60<br>60<br>60<br>60  | a a a   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                                     | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:   |  |   | 9 <sup>4</sup><br>9 <sup>4</sup><br>9 <sup>4</sup><br>9 <sup>5</sup><br>40  | 29  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone                 | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:   |  |   | 90 <sup>4</sup>   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone                 | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:   |  |   | 5 <sup>1</sup><br>5 <sup>1</sup><br>5 <sup>1</sup><br>5 <sup>1</sup><br>5 <sup>1</sup><br>5 <sup>1</sup><br>6 <sup>1</sup><br>6 <sup>1</sup><br>6 <sup>1</sup><br>6 <sup>1</sup><br>6 <sup>1</sup><br>6 <sup>1</sup><br>6 <sup>1</sup><br>6 | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL   |  |   | 90 <sup>3</sup>   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL   |  |   | 7   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL   |  |   | 7   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL   |  |   | 7   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°   |  |   | 7   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°<br>83 %                                     |  |   | 7   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°<br>83 %<br>1.2 cd/lm                        |  |   | 7   | $\mathcal{H}$   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°<br>83 %<br>1.2 cd/lm<br>1<br>White          |  |   | 7   | 31 <sup>2</sup><br>31 <sup>2</sup><br>31 <sup>2</sup>                                       |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°<br>83 %<br>1.2 cd/lm<br>1<br>White<br>ents: |  |   | 7   | 13 <sup>2</sup> 3 <sup>2</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°<br>83 %<br>1.2 cd/lm<br>1<br>White<br>ents: |  |   | 7   | 13 <sup>2</sup> 3 <sup>2</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL | LUXEON Z<br>46.0° / 84.0°<br>80 %<br>1.1 cd/lm<br>4<br>RGBW<br>ents:<br>LA-RZL<br>NS9x383<br>46.0° / 81.0°<br>83 %<br>1.2 cd/lm<br>1<br>White<br>ents: |  |   | 7   | 13 <sup>2</sup> 3 <sup>2</sup>  |



| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | NS9x383<br>39.0° / 84.0°<br>89 %<br>1.5 cd/lm<br>1<br>White           |  |  |
|--|---|--|--|
| EED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | NV4x144A<br>43.0° / 85.0°<br>87 %<br>1.3 cd/lm<br>1<br>White          |  |  |
| Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C12479_MIREL |   |  | 91 <sup>4</sup> 92<br>75 <sup>4</sup> 00<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60 |
| OSRAM<br>Optio Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone       | Duris S8<br>39.0° / 82.0°<br>88 %<br>1.6 cd/lm<br>1<br>White<br>ents: |  | 15° 2° 15°<br>15° 2° 15°<br>15°<br>15°<br>15°<br>15°<br>15°<br>15°<br>15°                      |



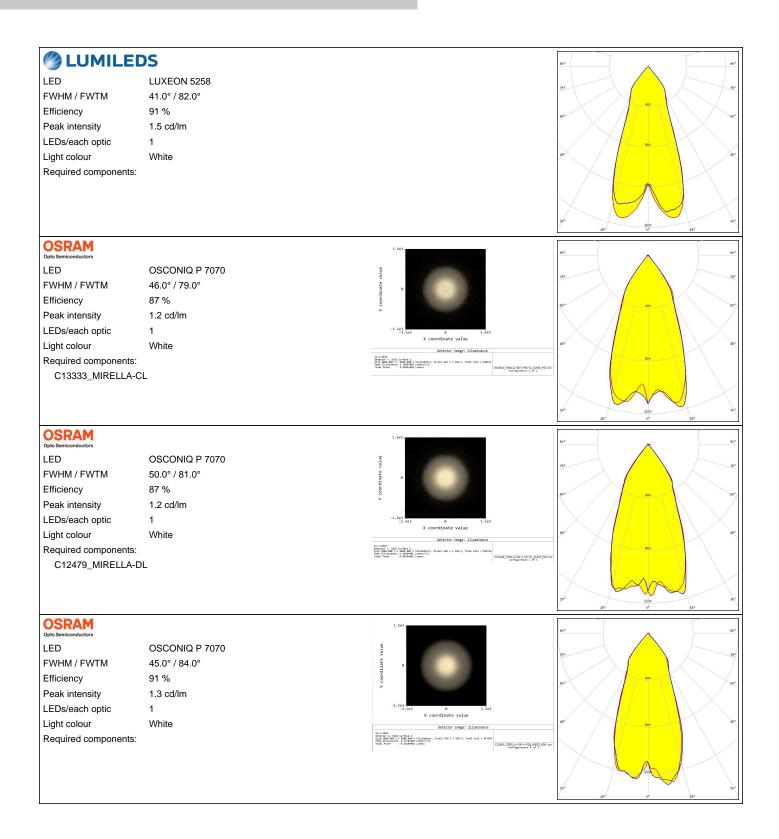
| 000444   |   |  |   |  |
|--|---|--|---|--|
| OSRAM<br>Opto Semiconductors   |   |  | 90*   | 90°  |
| LED  | Duris S8  |  |   |  |
| FWHM / FWTM  | 42.0° / 78.0°   |  | 23*   | 120  |
| Efficiency   | 84 %  |  | 400   | - Hand   |
| Peak intensity   | 1.4 cd/lm   |  |   | $\times$ "   |
| LEDs/each optic  | 1   |  |   |  |
| Light colour   | White   |  |   | 45'  |
| Required compone   | nts:  |  |   |  |
| C13333_MIREL   |   |  |   |  |
|  |   |  |   |  |
|  |   |  | 30*   | 30.  |
|  |   |  | 15 00 150   |  |
| OSRAM<br>Opto Semiconductors   |   |  | 90*   | 90   |
| LED  | OSLON Square EC   |  |   | L  |
| FWHM / FWTM  | 50.0° / 85.0°   |  |   | 75   |
| Efficiency   | 79 %  |  | 60*   | 60*  |
| Peak intensity   | 1.1 cd/lm   |  | 400   |  |
| LEDs/each optic  | 1   |  |   |  |
| Light colour   | White   |  |   | 45*  |
| Required compone   | nts:  |  |   |  |
| C12479_MIREL   | LA-DL   |  |   |  |
|  |   |  |   |  |
|  |   |  | 300   | 36.0   |
|  |   |  |   |  |
| OCDAM  |   |  |   | -  |
| OSRAM<br>Opto Semiconductors   |   |  | 90°   | 90°  |
| OSRAM<br>Opto Semiconductors<br>LED  | OSLON Square EC   |  |   | 90   |
| Opto Semiconductors  | OSLON Square EC<br>32.0° / 76.0°  |  |   | 30,4   |
| Opto Semiconductors  |   |  |   | 90 <sup>4</sup><br>75 <sup>4</sup><br>60 <sup>4</sup>  |
| Opto Semiconductors<br>LED<br>FWHM / FWTM  | 32.0° / 76.0°   |  |   | 90'  |
| <sup>opto Semiconductors</sup><br>LED<br>FWHM / FWTM<br>Efficiency   | 32.0° / 76.0°<br>85 %   |  |   | 90'<br>  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm  |  |   | 20°  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White  |  | 90°   | 99<br>99   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White  |  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                        | 99 <sup>4</sup>  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White  |  | 90°<br>75°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60 | 99 <sup>4</sup>  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White  |  |   | 99<br>72<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White  |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         | 99   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:  |  |   | 99<br>99<br>99<br>99   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>Opto Semiconductors<br>LED  | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC   |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         | 99<br>75<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°  |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         | 59<br>29<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %                                    |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         | 99<br>22<br>69<br>69<br>67<br>72<br>72<br>72<br>72<br>72<br>72   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm                       |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         | 99<br>- 22<br>- 60<br>- 60<br>- 60<br>- 60<br>- 60<br>- 60<br>- 60<br>- 60   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm<br>1                  |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         |  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSCRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                         | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm<br>1<br>White         |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         |  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone      | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm<br>1<br>White<br>nts: |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         |  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSCRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                         | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm<br>1<br>White<br>nts: |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         |  |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone   | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm<br>1<br>White<br>nts: |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         | 99<br>73<br>60<br>60<br>60<br>60<br>60<br>60<br>90<br>72<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90 |
| prote Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>OSRAM<br>Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | 32.0° / 76.0°<br>85 %<br>1.8 cd/lm<br>1<br>White<br>nts:<br>OSLON Square EC<br>41.0° / 78.0°<br>83 %<br>1.4 cd/lm<br>1<br>White<br>nts: |  | 3 <sup>1</sup> · <u>3</u> 2 <sup>3</sup> 0 <sup>1</sup> 32 <sup>3</sup>         |  |



| OSRAM<br>Opto Semiconductors   |  |  | 90°                        | 90*   |
|--|--|--|----------------------------|---|
| ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL                         |  |  | 91<br>91<br>91<br>91<br>91 |   |
| SAMS<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone                                | LH508A<br>38.0° / 82.0°<br>87 %<br>1.5 cd/lm<br>1<br>White |  | 90°<br>73°<br>64°<br>5°    | 12°, 10°, 12°, 12°, 12°, 12°, 12°, 12°, 12°, 12 |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C13723_MIREL |  |  |                            |   |



#### PHOTOMETRIC DATA (SIMULATED):





## **PHOTOMETRIC DATA (SIMULATED):**

| SEOUL SEMICONDUCTOR |               |                               |
|---------------------|---------------|-------------------------------|
| LED                 | Z8Y22P        |                               |
| FWHM / FWTM         | 43.0° / 82.0° |                               |
| Efficiency          | 89 %          | 60°                           |
| Peak intensity      | 1.4 cd/lm     | $( \times / )$                |
| LEDs/each optic     | 1             |                               |
| Light colour        | White         | a <sup>2</sup> a <sup>2</sup> |
| Required component  | s:            |                               |
|                     |               |                               |
|                     |               |                               |
|                     |               | 34                            |



## PRODUCT DATASHEET C12482\_MIRELLA-50-W-PIN

#### **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.

#### MATERIALS:

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