TINA-M

~30° medium beam optimized for CREE XP-E. Assembly with holder and installation tape.

TECHNICAL SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Ø 16.1 mm</td>
</tr>
<tr>
<td>Height</td>
<td>9.7 mm</td>
</tr>
<tr>
<td>Fastening</td>
<td>tape</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>Box size</td>
<td>470 x 240 x 105 mm</td>
</tr>
<tr>
<td>Box weight</td>
<td>4.1 kg</td>
</tr>
<tr>
<td>Quantity in Box</td>
<td>2016 pcs</td>
</tr>
<tr>
<td>ROHS compliant</td>
<td>yes</td>
</tr>
</tbody>
</table>

MATERIAL SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Material</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>TINA-M</td>
<td>Single lens</td>
<td>PMMA</td>
<td>clear</td>
</tr>
<tr>
<td>TINA-XP-H-TAPE-WHT</td>
<td>Holder</td>
<td>PC</td>
<td>white</td>
</tr>
<tr>
<td>TINA-TAPE3</td>
<td>Tape</td>
<td>PU tape</td>
<td>black</td>
</tr>
</tbody>
</table>

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LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.
PRODUCT DATASHEET
FA10645_TINA-M

Isometric view

Bottom view

0.4mm tape

0/16

Front view

Lens:
F10581_Tina-XP-M

Holder:
F10637_Tina-XP-holder-tape

Tape:
F11840_Tina-tape3

MATERIALS
Lens: PMMA
Holder: PC
Tape: PU Foam

Part No.s:
FA10645_Tina-XP-M
FA10645_Tina-XP-G-M
FA10645_Tina-Z5-M

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DRAWN BY mov DATE 09.03.2011
CHECKED BY fl DATE 09.03.2011
DESIGNED BY HH DATE 22.07.2008

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Last update: 16/05/2018
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PHOTOMETRIC DATA (MEASURED):

**CREE**

LED XP-E
FWHM 27.0°
Efficiency 94 %
Peak intensity 2.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:

**CREE**

LED XP-G
FWHM 30.0°
Efficiency 90 %
Peak intensity 2.230 cd/lm
LEDs/each optic 1
Light colour White
Required components:

**CREE**

LED XP-G2
FWHM 31.0°
Efficiency 87 %
Peak intensity 2.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:

**CREE**

LED XT-E
FWHM 31.0°
Efficiency 88 %
Peak intensity 2.180 cd/lm
LEDs/each optic 1
Light colour White
Required components:

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PHOTOMETRIC DATA (MEASURED):

<table>
<thead>
<tr>
<th>LED</th>
<th>Z5</th>
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</thead>
<tbody>
<tr>
<td>FWHM</td>
<td>31.0°</td>
</tr>
<tr>
<td>Efficiency</td>
<td>%</td>
</tr>
<tr>
<td>Peak intensity</td>
<td>cd/lm</td>
</tr>
<tr>
<td>LEDs/each optic</td>
<td>1</td>
</tr>
<tr>
<td>Light colour</td>
<td>White</td>
</tr>
</tbody>
</table>

Required components:
## PHOTOMETRIC DATA (SIMULATED):

<table>
<thead>
<tr>
<th>LED</th>
<th>OSLO Square EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>FWHM</td>
<td>29.0°</td>
</tr>
<tr>
<td>Efficiency</td>
<td>94%</td>
</tr>
<tr>
<td>Peak intensity</td>
<td>3.000 cd/lm</td>
</tr>
<tr>
<td>LEDs/each optic</td>
<td>1</td>
</tr>
<tr>
<td>Light colour</td>
<td>White</td>
</tr>
</tbody>
</table>

**Required components:**

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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:

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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