Photometric Test Report

Relevant Standards

Prepared For
ELEMENTAL LED INC, DBA DIODE LED
Andrew Lassen
885 Trademark Dr
Reno, NV 89521
United States

Catalog Number
Volante Canopy-100-T4-30x140 (4000K)
Order Number
12556990
Test Number
12556990.01

Test Date
2018-11-30

Prepared By
Austin Duff, Technician

Approved By
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 3-meter integrating sphere using the $4\pi$ geometry method.
Absorption correction was employed for Sphere measurement
Luminaire Description: Square white metal housing
Lamp: 160 White LEDs with optics attached to each
Mounting: Pendant
Ballast/Driver: INVENTRONICS EUB-096S210ST

Summary of Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous Flux</td>
<td>14450 Lumens</td>
</tr>
<tr>
<td>Efficacy</td>
<td>129.0 lm/w</td>
</tr>
<tr>
<td>CCT</td>
<td>3989 K</td>
</tr>
<tr>
<td>CRI (Ra)</td>
<td>82.5</td>
</tr>
</tbody>
</table>

Electrical Data at 277 VAC

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Temperature</td>
<td>24.6 °C</td>
</tr>
<tr>
<td>Voltage</td>
<td>277.0 VAC</td>
</tr>
<tr>
<td>Current</td>
<td>0.4048 A</td>
</tr>
<tr>
<td>Power</td>
<td>108.7 W</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.969</td>
</tr>
<tr>
<td>Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Current THD</td>
<td>6.62 %</td>
</tr>
</tbody>
</table>
Color Quality - Integrating Sphere
Integrating Sphere Test Conditions

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Voltage</th>
<th>Current</th>
<th>Power</th>
<th>Power Factor</th>
<th>Frequency</th>
<th>Current THD</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0 °C</td>
<td>120.0 VAC</td>
<td>0.9352 A</td>
<td>112.0 W</td>
<td>0.998</td>
<td>60 Hz</td>
<td>5.05 %</td>
</tr>
</tbody>
</table>

Summary of Results

Total Output: 14450 Lumens
Efficacy: 129.0 lm/w
CCT: 3989 K
CRI (Ra): 82.5
CRI (R9): 7.2

Peak Wavelength: 454 nm
Dominant Wavelength: 578 nm

Chromaticity (x): 0.3828
Chromaticity (y): 0.3843
Chromaticity (u'): 0.2237
Chromaticity (v'): 0.5052
TM-30 Rf: 81.5
TM-30 Rg: 93.5
Duv: 0.0028

Color Rendering Index Detail

<table>
<thead>
<tr>
<th>Ra (CRI)</th>
<th>R1</th>
<th>R2</th>
<th>R3</th>
<th>R4</th>
<th>R5</th>
<th>R6</th>
<th>R7</th>
<th>R8</th>
<th>R9</th>
<th>R10</th>
<th>R11</th>
<th>R12</th>
<th>R13</th>
<th>R14</th>
<th>R15</th>
</tr>
</thead>
<tbody>
<tr>
<td>82.5</td>
<td>80.5</td>
<td>89.3</td>
<td>95.4</td>
<td>80.2</td>
<td>80.0</td>
<td>84.8</td>
<td>86.3</td>
<td>63.9</td>
<td>7.2</td>
<td>74.0</td>
<td>78.4</td>
<td>58.4</td>
<td>82.8</td>
<td>97.6</td>
<td>73.9</td>
</tr>
</tbody>
</table>

Flux vs Wavelength