Photometric Test Report

Relevant Standards
IES TM-30-2015

Prepared For
Brightline
Bldg 7
580 Mayer St
Bridgeville, PA 15017
United States

Catalog Number
LST6XX-FW-XX-XX
Order Number
11969789
Test Number
11969789.05

Test Date
2017-11-02 - 2017-11-03

Prepared By
Derek Smarr, Technician

Approved By
Alexa Lambert, Project Handler

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 2-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for Sphere measurement
Luminaire Description: White formed steel and aluminum housing, frosted plastic lens enclosure
Lamp: 288 white LEDs
Mounting: Recessed
Ballast/Driver: One Philips XI075C200V054BPT1 driver

Summary of Results

Integrating Sphere
Luminous Flux: 3384 Lumens
Efficacy: 44.6 lm/w
CCT: 3311 K
CRI (Ra): 92.1

Electrical Data at 277 VAC
Test Temperature: 25.2 °C
Voltage: 277.0 VAC
Current: 0.2730 A
Power: 74.26 W
Power Factor: 0.983
Frequency: 60 Hz
Current THD: 9.36 %

In-Situ
LED Temperature: 50.3 °C
Driver Temperature: 67.4 °C
Measured LED Current: 0.08190 A

Temperature is offset to an ambient temperature of 25° C as described in UL1598-2008.
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>25.1 °C</td>
<td>120.0 VAC</td>
<td>0.6331 A</td>
<td>75.79 W</td>
<td>0.997</td>
<td>60 Hz</td>
<td>4.62 %</td>
</tr>
</tbody>
</table>

Summary of Results

- Total Output: 3384 Lumens
- Efficacy: 44.6 lm/w
- CCT: 3311 K
- CRI (Ra): 92.1
- CRI (R9): 67.4
- Peak Wavelength: 625.4 nm
- Dominant Wavelength: 581.1 nm
- S/P Ratio: 1.508

Chromaticity (x): 0.4177
Chromaticity (y): 0.3994
Chromaticity (u'): 0.2401
Chromaticity (v'): 0.5167

TM-30 Rf: 89.5
TM-30 Rg: 99.5
Duv: 0.0012

CIE 1931, 2 Degree

Chromaticity (x): 0.4177
Chromaticity (y): 0.3994
Chromaticity (u'): 0.2401
Chromaticity (v'): 0.5167

TM-30 Rf: 89.5
TM-30 Rg: 99.5
Duv: 0.0012

Nominal CCT Quadrangles

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>
</tr>
</thead>
<tbody>
<tr>
<td>92.1</td>
<td>92.4</td>
<td>94.1</td>
<td>93.5</td>
<td>92.4</td>
<td>90.9</td>
<td>90.8</td>
<td>95.4</td>
<td>87.1</td>
<td>67.4</td>
<td>84.2</td>
<td>91.4</td>
<td>70.2</td>
<td>92.7</td>
<td>95.6</td>
</tr>
</tbody>
</table>

Flux vs Wavelength
In-Situ Test

In-Situ 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>22.4 °C</td>
<td>120.0 VAC</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>60 Hz</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Summary of Results

LED Temperature: 50.3 °C  
Driver Temperature: 67.4 °C  
Measured LED Current: 0.08190 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

LED Temperature Location

Thermocouple Reference

Driver Temperature Location

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