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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
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Madera, CA 93636-9515
United States

Catalog Number
BPM-SD15-LED-x45-A
Order Number
11609603
Test Number
11609603.17

Test Date

2017-08-09

Prepared By

William Escobar, Technician

Approved By

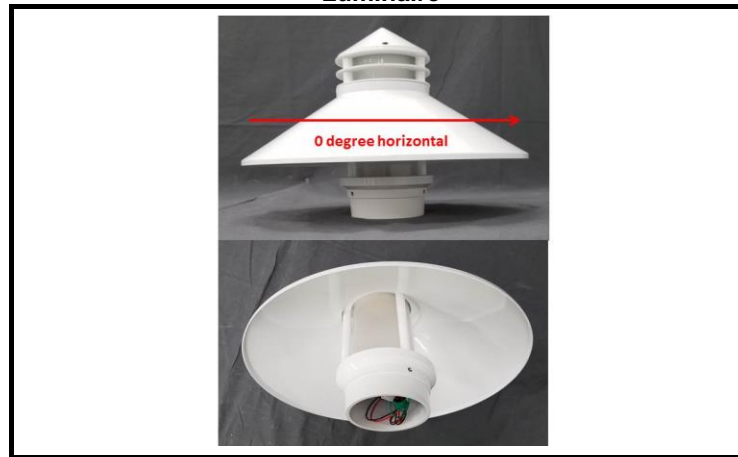
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Decorative white metal housing, reflector, and diffuse lens.
Lamp: One (1) White LEDs
Mounting: Post
Ballast/Driver: One (1) eldoLED ECOdrive 561/S

Luminaire



Luminaire Characteristics

Luminous Diameter: 15.00 in.
Luminous Height: 7.00 in.

Summary of Results

Roadway Classification: Type V, Short
Cutoff Classification: Cutoff
BUG Rating: B1 U2 G1

Test Conditions

Test Temperature: 24.3 °C
Voltage: 120.1 VAC
Current: 0.1884 A
Power: 22.30 W
Power Factor: 0.986
Frequency: 60 Hz
Current THD: 7.80 %

Tested in 30 planes left side, 30 planes right side, left and right averaged
Vertical test increments are 2.5 degrees
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 24.3 °C | 120.1 VAC | 0.1884 A | 22.30 W | 0.986 | 60 Hz | 7.80 % |

Summary of Results

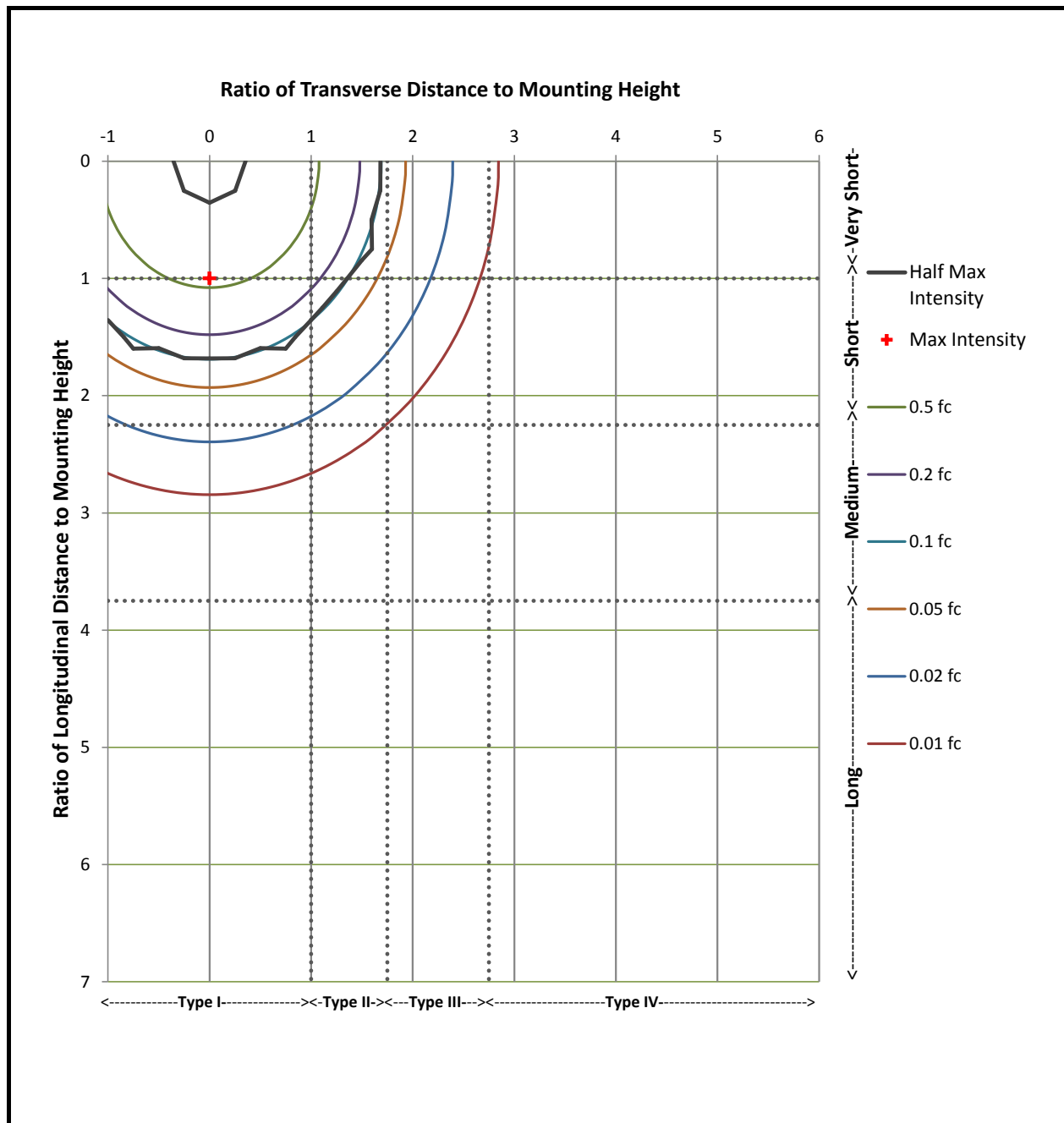
IES Roadway Classification:
Cutoff Classification
BUG Rating:

Type V, Short
Cutoff
B1 U2 G1

Total Lumen Output:
Luminaire Efficacy:
Maximum Candela:

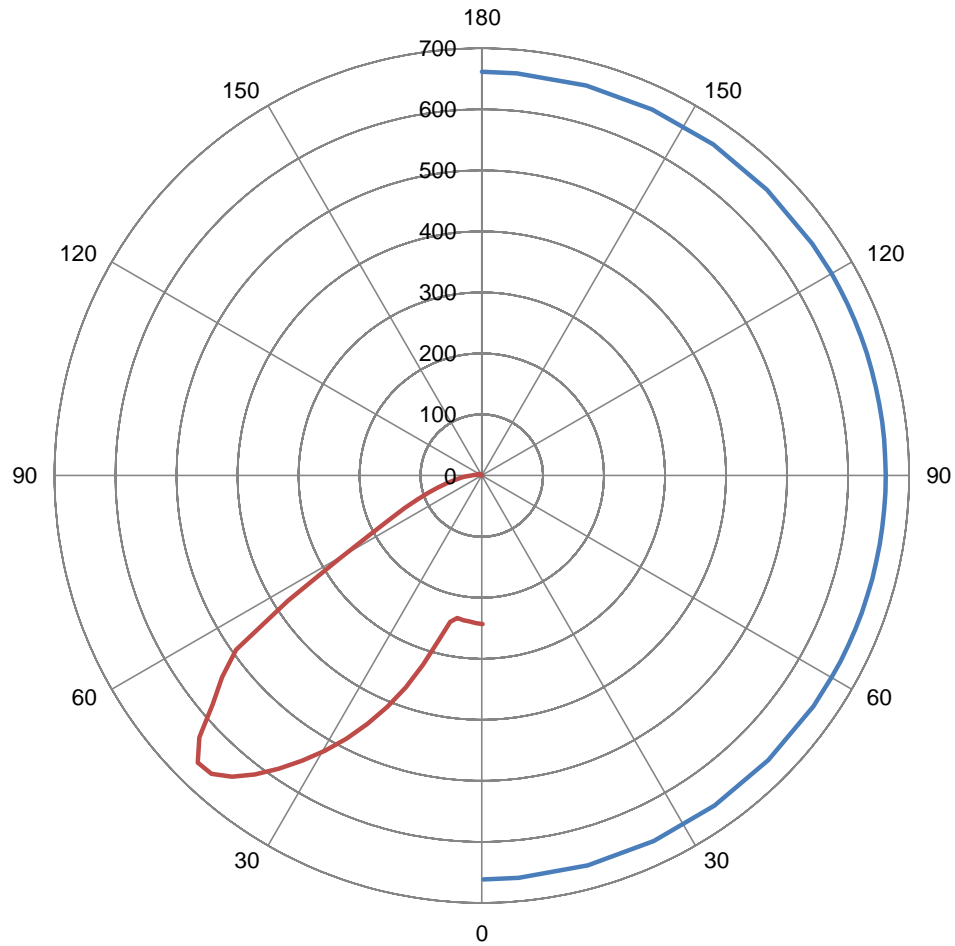
1913 Lumens
85.8 lm/w
662 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

45 ° Vertical

Maximum Intensity (Candlepower):

662 Candela

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire |
|-------|--------|----------------|---------|--------|----------------|---------|--------|----------------|
| 0-5 | 6.1 | 0.3% | 60-65 | 103.1 | 5.4% | 120-125 | 2.3 | 0.1% |
| 5-10 | 17.0 | 0.9% | 65-70 | 69.8 | 3.7% | 125-130 | 1.6 | 0.1% |
| 10-15 | 30.1 | 1.6% | 70-75 | 48.5 | 2.5% | 130-135 | 1.0 | 0.1% |
| 15-20 | 53.9 | 2.8% | 75-80 | 33.0 | 1.7% | 135-140 | 0.6 | 0.0% |
| 20-25 | 86.2 | 4.5% | 80-85 | 22.3 | 1.2% | 140-145 | 0.5 | 0.0% |
| 25-30 | 122.8 | 6.4% | 85-90 | 14.6 | 0.8% | 145-150 | 0.4 | 0.0% |
| 30-35 | 162.8 | 8.5% | 90-95 | 8.3 | 0.4% | 150-155 | 0.2 | 0.0% |
| 35-40 | 205.0 | 10.7% | 95-100 | 5.0 | 0.3% | 155-160 | 0.2 | 0.0% |
| 40-45 | 242.7 | 12.7% | 100-105 | 3.9 | 0.2% | 160-165 | 0.1 | 0.0% |
| 45-50 | 252.4 | 13.2% | 105-110 | 3.7 | 0.2% | 165-170 | 0.0 | 0.0% |
| 50-55 | 233.2 | 12.2% | 110-115 | 3.4 | 0.2% | 170-175 | 0.0 | 0.0% |
| 55-60 | 174.9 | 9.1% | 115-120 | 3.0 | 0.2% | 175-180 | 0.0 | 0.0% |



IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

| LCS | Zone | Lumens | Luminaire % |
|-------------------|-----------------|--------|-------------|
| FL | (0-30) | 158.1 | 8.3% |
| FM | (30-60) | 635.5 | 33.2% |
| FH | (60-80) | 127.2 | 6.7% |
| FVH | (80-90) | 18.4 | 1.0% |
| BL | (0-30) | 158.1 | 8.3% |
| BM | (30-60) | 635.5 | 33.2% |
| BH | (60-80) | 127.2 | 6.7% |
| BVH | (80-90) | 18.4 | 1.0% |
| UL | (90-100) | 13.3 | 0.7% |
| UH | (100-180) | 20.8 | 1.1% |
| Total | | 1912.7 | 100.0% |
| BUG Rating | B1 U2 G1 | | |