



UL LLC
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Outdoor Distribution Test Report

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

Prepared For
B-K Lighting Inc
Chris McCarthy
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Madera, CA 93636-9515
United States

Catalog Number
LBP-LED-X45-TYPEIV-27-WHP
Order Number
12003486
Test Number
12003486.07

Test Date

2017-10-24

Prepared By

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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 with shade, reflector, clear plastic lens, and standing pole base
Lamp: One (1) white LED with optic
Mounting: Post
Ballast/Driver: One (1) ECOdrive 561/S

Luminaire



Luminaire Characteristics

Luminous Diameter: 18.00 in.
Luminous Height: 9.50 in.

Summary of Results

Roadway Classification: Type II, Medium
Cutoff Classification: Semicutoff
BUG Rating: B2 U3 G2

Test Conditions

Test Temperature: 24.0 °C
Voltage: 120.1 VAC
Current: 0.2761 A
Power: 32.62 W
Power Factor: 0.984
Frequency: 60 Hz
Current THD: 9.66 %

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 |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 24.0 °C | 120.1 VAC | 0.2761 A | 32.62 W | 0.984 | 60 Hz | 9.66 % |

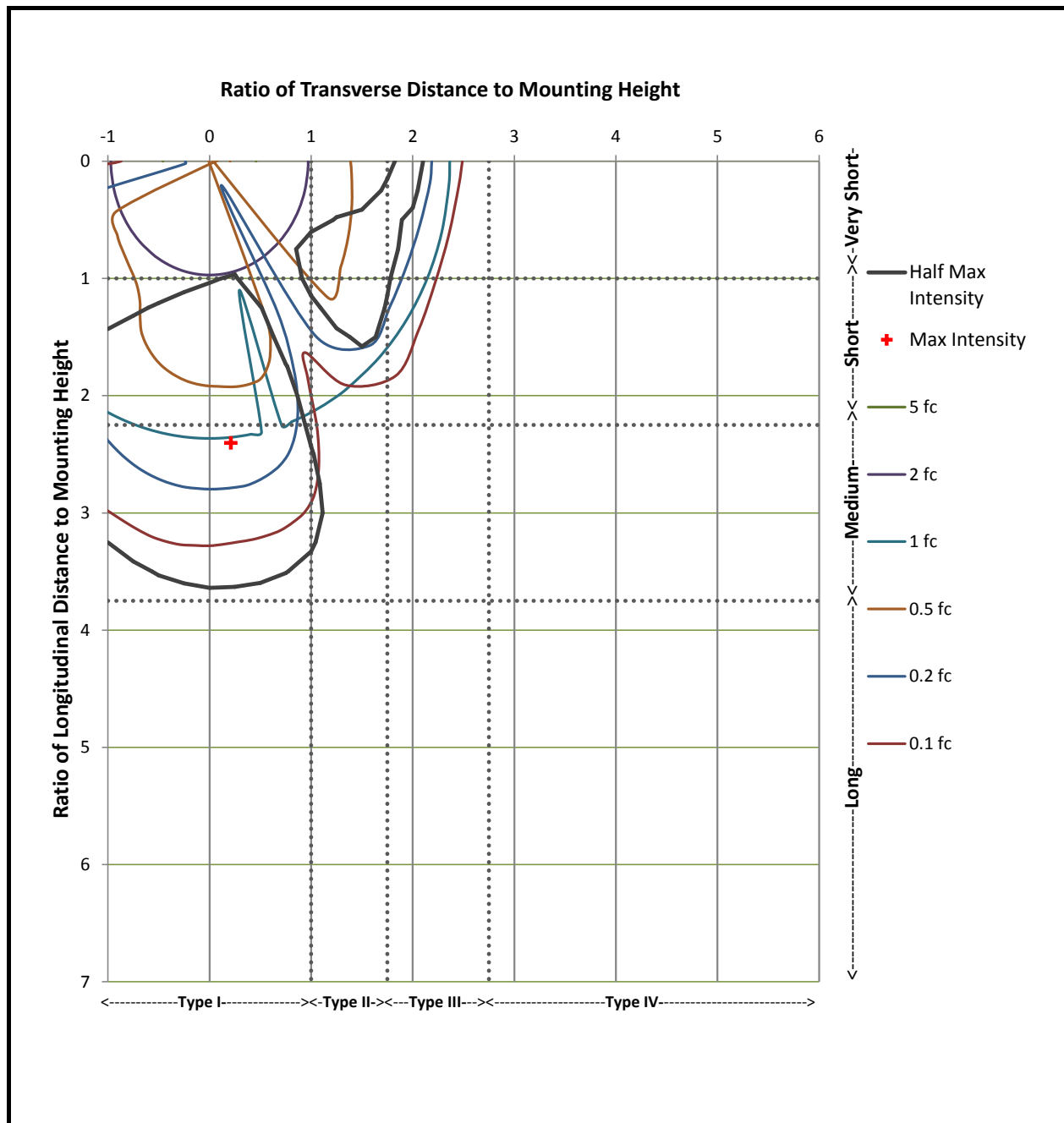
Summary of Results

IES Roadway Classification:
Cutoff Classification
BUG Rating:

Type II, Medium
Semicutoff
B2 U3 G2

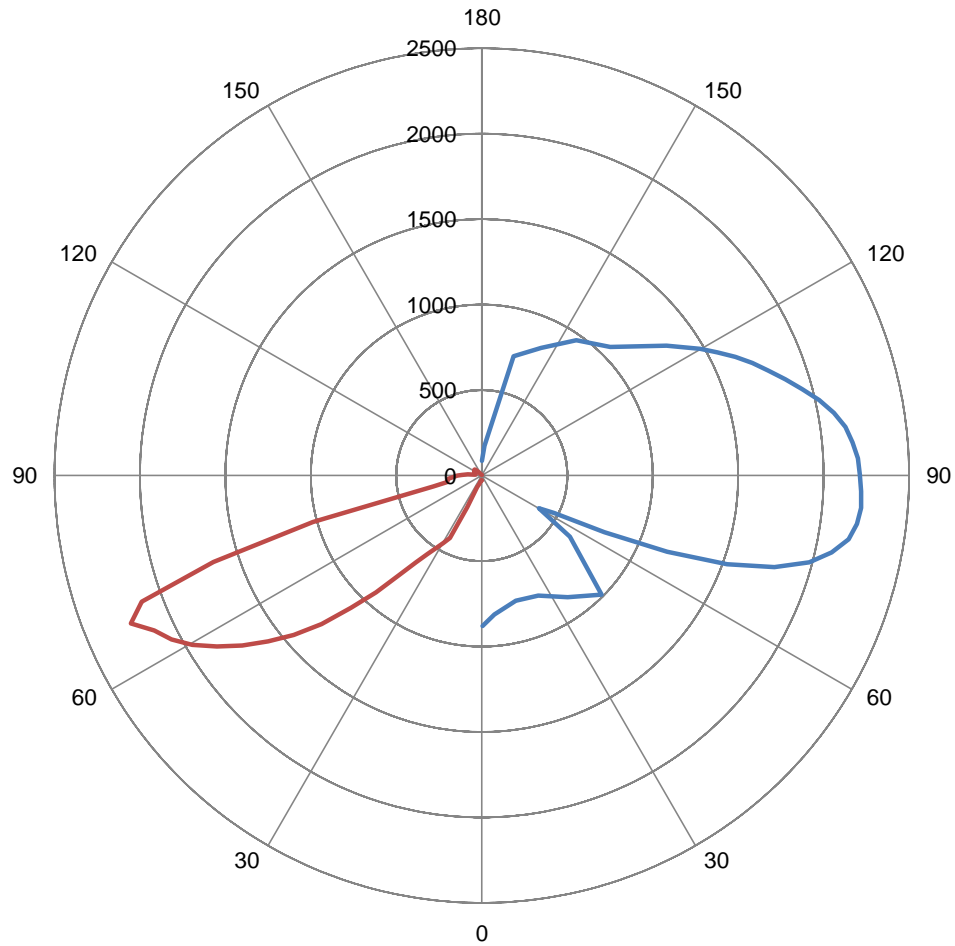
Total Lumen Output: 3966 Lumens
Luminaire Efficacy: 121.6 lm/w
Maximum Candela: 2227 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

85 ° Lateral

Lateral Cone Through

67.5 ° Vertical

Maximum Intensity (Candlepower):

2227 Candela

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire |
|-------|--------|----------------|---------|--------|----------------|---------|--------|----------------|
| 0-5 | 0.7 | 0.0% | 60-65 | 596.6 | 15.0% | 120-125 | 23.7 | 0.6% |
| 5-10 | 2.1 | 0.1% | 65-70 | 561.2 | 14.2% | 125-130 | 23.0 | 0.6% |
| 10-15 | 4.3 | 0.1% | 70-75 | 345.1 | 8.7% | 130-135 | 20.1 | 0.5% |
| 15-20 | 8.3 | 0.2% | 75-80 | 106.2 | 2.7% | 135-140 | 12.6 | 0.3% |
| 20-25 | 23.5 | 0.6% | 80-85 | 59.0 | 1.5% | 140-145 | 6.5 | 0.2% |
| 25-30 | 88.4 | 2.2% | 85-90 | 51.7 | 1.3% | 145-150 | 2.8 | 0.1% |
| 30-35 | 132.5 | 3.3% | 90-95 | 41.8 | 1.1% | 150-155 | 1.0 | 0.0% |
| 35-40 | 180.7 | 4.6% | 95-100 | 28.6 | 0.7% | 155-160 | 0.7 | 0.0% |
| 40-45 | 250.5 | 6.3% | 100-105 | 23.2 | 0.6% | 160-165 | 0.5 | 0.0% |
| 45-50 | 340.4 | 8.6% | 105-110 | 21.8 | 0.5% | 165-170 | 0.4 | 0.0% |
| 50-55 | 433.5 | 10.9% | 110-115 | 22.2 | 0.6% | 170-175 | 0.2 | 0.0% |
| 55-60 | 529.2 | 13.3% | 115-120 | 23.2 | 0.6% | 175-180 | 0.1 | 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) | 62.6 | 1.6% |
| FM | (30-60) | 1029.2 | 25.9% |
| FH | (60-80) | 784.0 | 19.8% |
| FVH | (80-90) | 51.8 | 1.3% |
| BL | (0-30) | 64.7 | 1.6% |
| BM | (30-60) | 837.6 | 21.1% |
| BH | (60-80) | 825.2 | 20.8% |
| BVH | (80-90) | 58.9 | 1.5% |
| UL | (90-100) | 70.3 | 1.8% |
| UH | (100-180) | 182.0 | 4.6% |
| Total | | 3966.2 | 100.0% |
| BUG Rating | B2 U3 G2 | | |