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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014

Prepared For
B-K LIGHTING INC

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UNITED STATES

Catalog Number
YK-D-LED-A4080-WHP-H-VR-010-MT-PROTOTYPE(Visor)

Order Number

13280109

Test Number

13280109.11

Test Date

2020-03-19

Prepared By

William Escobar, Technician

Approved By

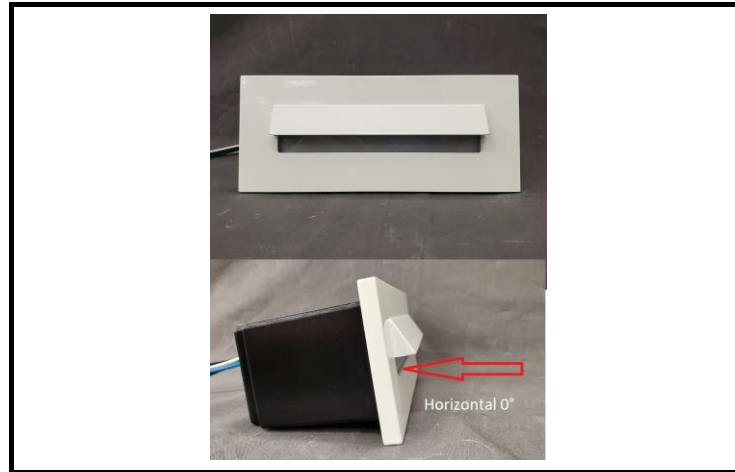
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Black plastic rectangular housing and white metal faceplate with clear glass lens
Lamp: 24 White LEDs with diffuse plastic film
Mounting: Recessed
Ballast/Driver: ESS015W-0350-42

Luminaire



Luminaire Characteristics

Luminous Length: 0.50 in.
Luminous Width: 5.750 in.
Luminous Height: 0.50 in.

Summary of Results

Roadway Classification: Type I, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B0 U2 G1

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.08151 A
Power: 9.488 W
Power Factor: 0.970
Frequency: 60 Hz
Current THD: 16.9 %

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

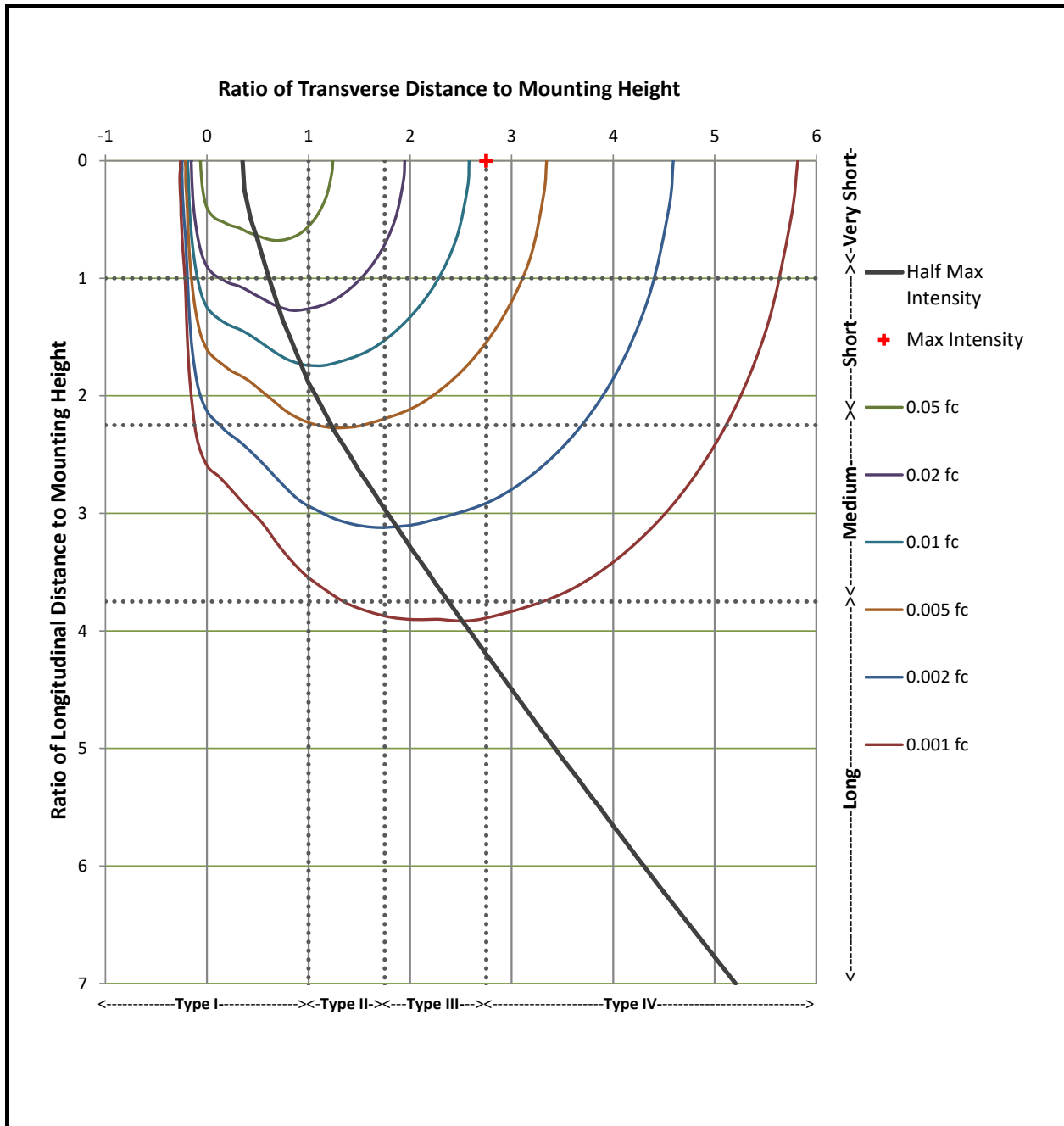
Distribution Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|-----------|---------|--------------|-----------|-------------|
| 24.7 °C | 120.0 VAC | 0.08151 A | 9.488 W | 0.970 | 60 Hz | 16.9 % |

Summary of Results

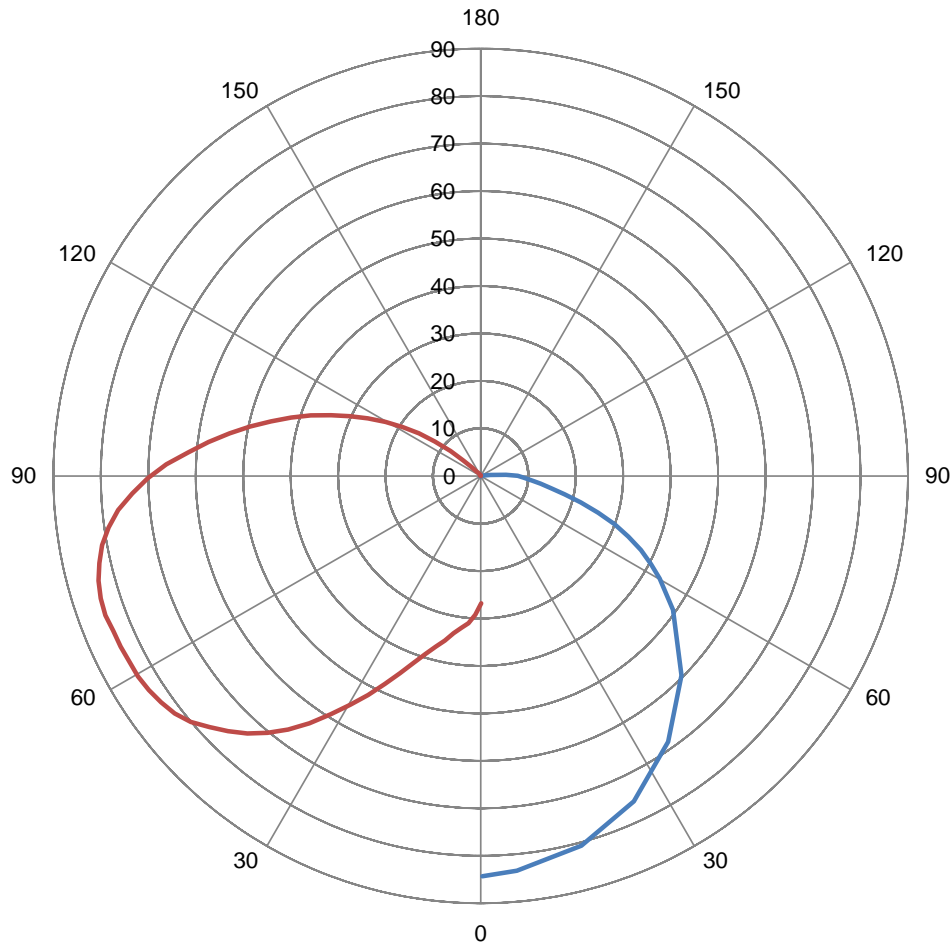
| | | | |
|-----------------------------|--------------------|---------------------|------------|
| IES Roadway Classification: | Type I, Very Short | Total Lumen Output: | 198 Lumens |
| Cutoff Classification: | Noncutoff | Luminaire Efficacy: | 20.9 lm/w |
| BUG Rating: | B0 U2 G1 | Maximum Candela: | 84 Candela |

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

70 ° Vertical

Maximum Intensity (Candlepower):

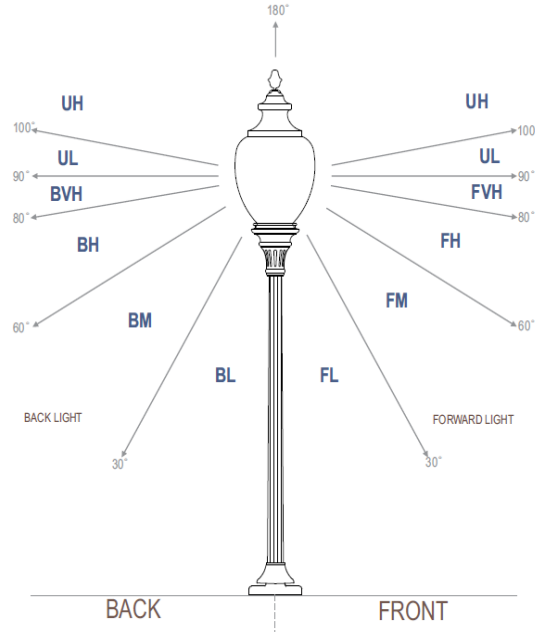
84 Candela

Zonal Lumen Summary

| Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire | Zone | Lumens | % of Luminaire |
|-------|--------|----------------|---------|--------|----------------|---------|--------|----------------|
| 0-5 | 0.7 | 0.3% | 60-65 | 13.6 | 6.8% | 120-125 | 1.7 | 0.9% |
| 5-10 | 1.7 | 0.9% | 65-70 | 13.9 | 7.0% | 125-130 | 0.8 | 0.4% |
| 10-15 | 2.5 | 1.3% | 70-75 | 14.0 | 7.0% | 130-135 | 0.3 | 0.2% |
| 15-20 | 3.4 | 1.7% | 75-80 | 13.6 | 6.9% | 135-140 | 0.1 | 0.1% |
| 20-25 | 4.3 | 2.2% | 80-85 | 12.8 | 6.5% | 140-145 | 0.1 | 0.0% |
| 25-30 | 5.4 | 2.7% | 85-90 | 11.6 | 5.8% | 145-150 | 0.0 | 0.0% |
| 30-35 | 6.7 | 3.4% | 90-95 | 10.1 | 5.1% | 150-155 | 0.0 | 0.0% |
| 35-40 | 8.1 | 4.1% | 95-100 | 8.5 | 4.3% | 155-160 | 0.0 | 0.0% |
| 40-45 | 9.5 | 4.8% | 100-105 | 7.0 | 3.5% | 160-165 | 0.0 | 0.0% |
| 45-50 | 10.8 | 5.5% | 105-110 | 5.4 | 2.7% | 165-170 | 0.0 | 0.0% |
| 50-55 | 12.0 | 6.1% | 110-115 | 4.0 | 2.0% | 170-175 | 0.0 | 0.0% |
| 55-60 | 12.9 | 6.5% | 115-120 | 2.8 | 1.4% | 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) | 15.1 | 7.6% |
| FM | (30-60) | 58.4 | 29.5% |
| FH | (60-80) | 54.7 | 27.6% |
| FVH | (80-90) | 24.4 | 12.3% |
| BL | (0-30) | 2.9 | 1.5% |
| BM | (30-60) | 1.6 | 0.8% |
| BH | (60-80) | 0.4 | 0.2% |
| BVH | (80-90) | 0.0 | 0.0% |
| UL | (90-100) | 18.6 | 9.4% |
| UH | (100-180) | 22.2 | 11.2% |
| Total | | 198.4 | 100.0% |
| BUG Rating | B0 U2 G1 | | |