



UL, LLC
1075 W Lambert Rd Suite B
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Floodlight Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

Prepared For
B-K Lighting INC

Daniel Carrejo
40429 Brickyard Dr.
Madera, CA 93636
United States

Catalog Number

DI-LED-TR-e153-10°-NSP-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.19

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular white metal housing with glass lens
Lamp: One (1) LED
Mounting: Pendant
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics
Luminous Diameter: 2.50 in.

Summary of Results

| | |
|-------------------------|--------------|
| Total Luminaire Output: | 498.8 Lumens |
| Luminaire Efficacy: | 53.4 lm/w |
| Maximum Candela: | 7067 Candela |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.2 °C |
| Voltage: | 120.0 VAC |
| Current: | 0.08000 A |
| Power: | 9.347 W |
| Power Factor: | 0.973 |
| Frequency: | 60 Hz |
| Current THD: | 19.4 % |

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

Distribution - Goniophotometer

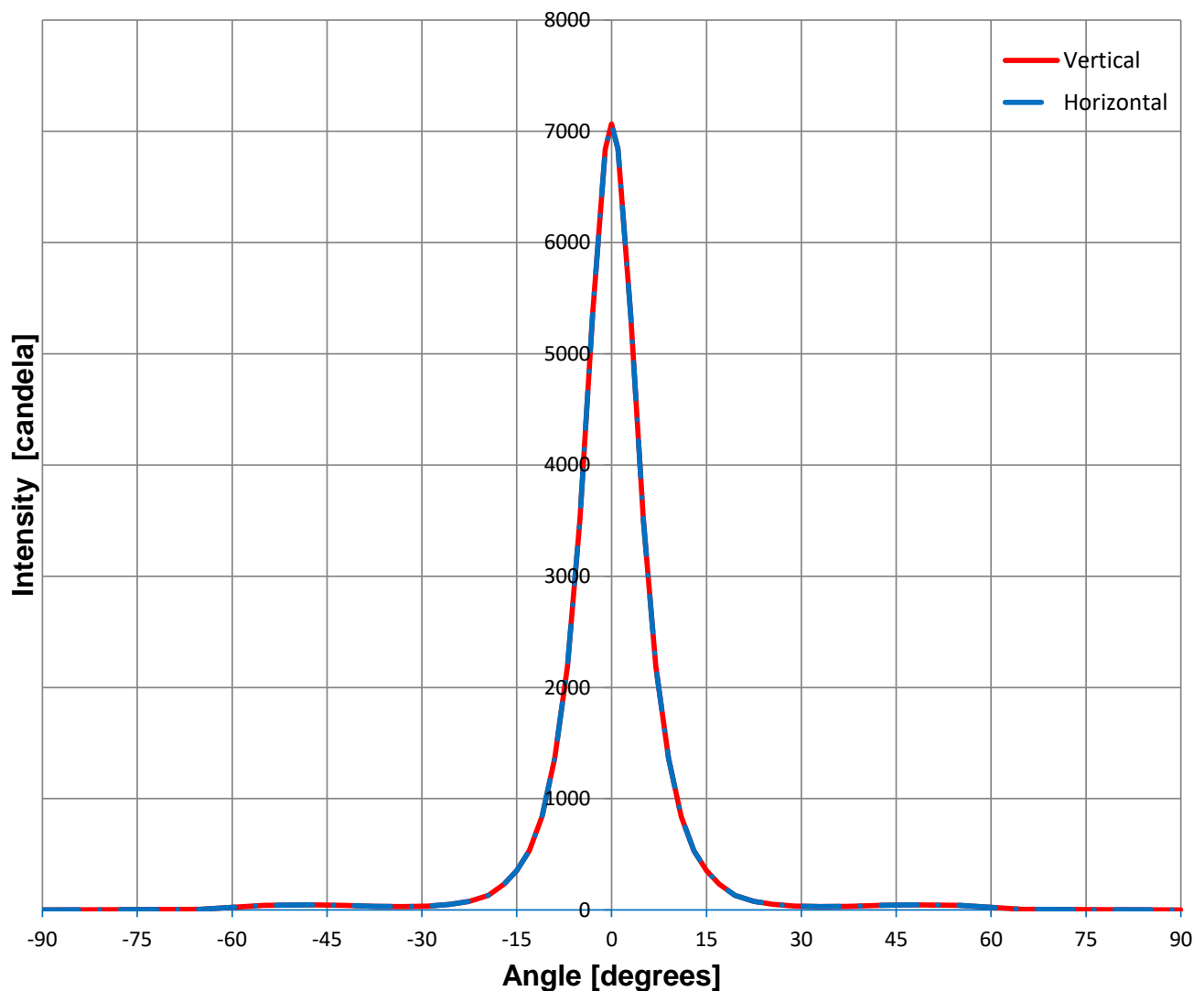
Distribution Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|-----------|---------|--------------|-----------|-------------|
| 25.2 °C | 120.0 VAC | 0.08000 A | 9.347 W | 0.973 | 60 Hz | 19.4 % |

Summary of Results

| | | | |
|----------------------------|------------------|-------------------------|---------------------|
| Total Lumen Output: | 498.8 Lumens | Maximum Candela: | 7067.0 Candela |
| Luminaire Efficacy: | 53.4 Lumens/Watt | Maximum Angle: | 0 H 0 V |
| Field Lumens: | 293.5 Lumens | Field Angle : | 23.7 H X 23.7 V |
| Beam Lumens: | 104.1 Lumens | Beam Angle : | 9.9 H X 9.9 V |
| Spill Light Lumens: | 205.3 Lumens | IESNA Type: | 2 H X 2 V |

Maximum Candlepower Plot



Candela Tabulation

Lateral Angle (Degrees)

| Vertical Angle (Degrees) | Lateral Angle (Degrees) | | | | | | | | | | |
|--------------------------|-------------------------|------|------|------|------|------|-----|-----|-----|-----|------|
| | 0 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19.5 |
| 85.0 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 65.0 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 |
| 55.0 | 42 | 42 | 42 | 42 | 42 | 41 | 41 | 40 | 39 | 39 | 37 |
| 47.5 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| 42.5 | 41 | 41 | 41 | 42 | 42 | 42 | 43 | 44 | 44 | 45 | 46 |
| 37.5 | 32 | 32 | 33 | 33 | 33 | 34 | 35 | 36 | 37 | 38 | 40 |
| 33.0 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 30 | 30 | 31 | 33 |
| 29.0 | 35 | 35 | 35 | 34 | 33 | 32 | 31 | 30 | 30 | 29 | 29 |
| 25.5 | 51 | 51 | 50 | 48 | 45 | 42 | 40 | 37 | 34 | 32 | 30 |
| 22.5 | 78 | 78 | 76 | 72 | 67 | 61 | 55 | 49 | 43 | 38 | 34 |
| 19.5 | 131 | 130 | 125 | 116 | 105 | 93 | 81 | 69 | 59 | 50 | 41 |
| 17.0 | 230 | 229 | 218 | 196 | 169 | 140 | 115 | 94 | 78 | 64 | 50 |
| 15.0 | 353 | 350 | 333 | 300 | 257 | 209 | 162 | 124 | 97 | 78 | 59 |
| 13.0 | 534 | 530 | 500 | 441 | 374 | 302 | 232 | 170 | 124 | 94 | 69 |
| 11.0 | 839 | 831 | 770 | 656 | 532 | 418 | 319 | 232 | 162 | 115 | 81 |
| 9.0 | 1367 | 1350 | 1223 | 1004 | 772 | 573 | 418 | 302 | 209 | 140 | 93 |
| 7.0 | 2190 | 2158 | 1911 | 1516 | 1103 | 772 | 532 | 374 | 257 | 169 | 105 |
| 5.0 | 3507 | 3434 | 2892 | 2160 | 1516 | 1004 | 656 | 441 | 300 | 196 | 116 |
| 3.0 | 5352 | 5197 | 4184 | 2892 | 1911 | 1223 | 770 | 500 | 333 | 218 | 125 |
| 1.0 | 6841 | 6584 | 5197 | 3434 | 2158 | 1350 | 831 | 530 | 350 | 229 | 130 |
| 0.0 | 7067 | 6841 | 5352 | 3507 | 2190 | 1367 | 839 | 534 | 353 | 230 | 131 |
| -1.0 | 6841 | 6584 | 5197 | 3434 | 2158 | 1350 | 831 | 530 | 350 | 229 | 130 |
| -3.0 | 5352 | 5197 | 4184 | 2892 | 1911 | 1223 | 770 | 500 | 333 | 218 | 125 |
| -5.0 | 3507 | 3434 | 2892 | 2160 | 1516 | 1004 | 656 | 441 | 300 | 196 | 116 |
| -7.0 | 2190 | 2158 | 1911 | 1516 | 1103 | 772 | 532 | 374 | 257 | 169 | 105 |
| -9.0 | 1367 | 1350 | 1223 | 1004 | 772 | 573 | 418 | 302 | 209 | 140 | 93 |
| -11.0 | 839 | 831 | 770 | 656 | 532 | 418 | 319 | 232 | 162 | 115 | 81 |
| -13.0 | 534 | 530 | 500 | 441 | 374 | 302 | 232 | 170 | 124 | 94 | 69 |
| -15.0 | 353 | 350 | 333 | 300 | 257 | 209 | 162 | 124 | 97 | 78 | 59 |
| -17.0 | 230 | 229 | 218 | 196 | 169 | 140 | 115 | 94 | 78 | 64 | 50 |
| -19.5 | 131 | 130 | 125 | 116 | 105 | 93 | 81 | 69 | 59 | 50 | 41 |
| -22.5 | 78 | 78 | 76 | 72 | 67 | 61 | 55 | 49 | 43 | 38 | 34 |
| -25.5 | 51 | 51 | 50 | 48 | 45 | 42 | 40 | 37 | 34 | 32 | 30 |
| -29.0 | 35 | 35 | 35 | 34 | 33 | 32 | 31 | 30 | 30 | 29 | 29 |
| -33.0 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 30 | 30 | 31 | 33 |
| -37.5 | 32 | 32 | 33 | 33 | 33 | 34 | 35 | 36 | 37 | 38 | 40 |
| -42.5 | 41 | 41 | 41 | 42 | 42 | 42 | 43 | 44 | 44 | 45 | 46 |
| -47.5 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| -55.0 | 42 | 42 | 42 | 42 | 42 | 41 | 41 | 40 | 39 | 39 | 37 |
| -65.0 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 |
| -75.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| -85.0 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

Candela Tabulation

Lateral Angle (Degrees)

| Vertical Angle (Degrees) | Lateral Angle (Degrees) | | | | | | | | | | |
|--------------------------|-------------------------|------|----|----|------|------|------|----|----|----|----|
| | 22.5 | 25.5 | 29 | 33 | 37.5 | 42.5 | 47.5 | 55 | 65 | 75 | 85 |
| 85.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 75.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 0 |
| 65.0 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 |
| 55.0 | 36 | 33 | 30 | 25 | 15 | 6 | 4 | 3 | 2 | 2 | 1 |
| 47.5 | 47 | 46 | 44 | 41 | 37 | 30 | 15 | 4 | 3 | 2 | 1 |
| 42.5 | 46 | 47 | 47 | 46 | 44 | 38 | 30 | 6 | 3 | 2 | 1 |
| 37.5 | 42 | 44 | 46 | 47 | 47 | 44 | 37 | 15 | 3 | 2 | 1 |
| 33.0 | 35 | 38 | 42 | 45 | 47 | 46 | 41 | 25 | 3 | 2 | 1 |
| 29.0 | 31 | 33 | 37 | 42 | 46 | 47 | 44 | 30 | 4 | 2 | 1 |
| 25.5 | 29 | 30 | 33 | 38 | 44 | 47 | 46 | 33 | 4 | 2 | 1 |
| 22.5 | 31 | 29 | 31 | 35 | 42 | 46 | 47 | 36 | 4 | 2 | 1 |
| 19.5 | 34 | 30 | 29 | 33 | 40 | 46 | 47 | 37 | 5 | 2 | 1 |
| 17.0 | 38 | 32 | 29 | 31 | 38 | 45 | 47 | 39 | 5 | 2 | 1 |
| 15.0 | 43 | 34 | 30 | 30 | 37 | 44 | 47 | 39 | 5 | 2 | 1 |
| 13.0 | 49 | 37 | 30 | 30 | 36 | 44 | 47 | 40 | 5 | 2 | 1 |
| 11.0 | 55 | 40 | 31 | 29 | 35 | 43 | 47 | 41 | 5 | 2 | 1 |
| 9.0 | 61 | 42 | 32 | 29 | 34 | 42 | 47 | 41 | 6 | 2 | 1 |
| 7.0 | 67 | 45 | 33 | 29 | 33 | 42 | 47 | 42 | 6 | 2 | 2 |
| 5.0 | 72 | 48 | 34 | 29 | 33 | 42 | 47 | 42 | 6 | 2 | 2 |
| 3.0 | 76 | 50 | 35 | 29 | 33 | 41 | 47 | 42 | 6 | 2 | 2 |
| 1.0 | 78 | 51 | 35 | 29 | 32 | 41 | 47 | 42 | 6 | 2 | 2 |
| 0.0 | 78 | 51 | 35 | 29 | 32 | 41 | 47 | 42 | 6 | 2 | 2 |
| -1.0 | 78 | 51 | 35 | 29 | 32 | 41 | 47 | 42 | 6 | 2 | 2 |
| -3.0 | 76 | 50 | 35 | 29 | 33 | 41 | 47 | 42 | 6 | 2 | 2 |
| -5.0 | 72 | 48 | 34 | 29 | 33 | 42 | 47 | 42 | 6 | 2 | 2 |
| -7.0 | 67 | 45 | 33 | 29 | 33 | 42 | 47 | 42 | 6 | 2 | 2 |
| -9.0 | 61 | 42 | 32 | 29 | 34 | 42 | 47 | 41 | 6 | 2 | 1 |
| -11.0 | 55 | 40 | 31 | 29 | 35 | 43 | 47 | 41 | 5 | 2 | 1 |
| -13.0 | 49 | 37 | 30 | 30 | 36 | 44 | 47 | 40 | 5 | 2 | 1 |
| -15.0 | 43 | 34 | 30 | 30 | 37 | 44 | 47 | 39 | 5 | 2 | 1 |
| -17.0 | 38 | 32 | 29 | 31 | 38 | 45 | 47 | 39 | 5 | 2 | 1 |
| -19.5 | 34 | 30 | 29 | 33 | 40 | 46 | 47 | 37 | 5 | 2 | 1 |
| -22.5 | 31 | 29 | 31 | 35 | 42 | 46 | 47 | 36 | 4 | 2 | 1 |
| -25.5 | 29 | 30 | 33 | 38 | 44 | 47 | 46 | 33 | 4 | 2 | 1 |
| -29.0 | 31 | 33 | 37 | 42 | 46 | 47 | 44 | 30 | 4 | 2 | 1 |
| -33.0 | 35 | 38 | 42 | 45 | 47 | 46 | 41 | 25 | 3 | 2 | 1 |
| -37.5 | 42 | 44 | 46 | 47 | 47 | 44 | 37 | 15 | 3 | 2 | 1 |
| -42.5 | 46 | 47 | 47 | 46 | 44 | 38 | 30 | 6 | 3 | 2 | 1 |
| -47.5 | 47 | 46 | 44 | 41 | 37 | 30 | 15 | 4 | 3 | 2 | 1 |
| -55.0 | 36 | 33 | 30 | 25 | 15 | 6 | 4 | 3 | 2 | 2 | 1 |
| -65.0 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 |
| -75.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 0 |
| -85.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

Isocandela Diagram (Percent of Maximum Intensity)

