



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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-e153-30°-NFL-WHP-C-INC-MT

Order Number

14327079

Test Number

14327079.21

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

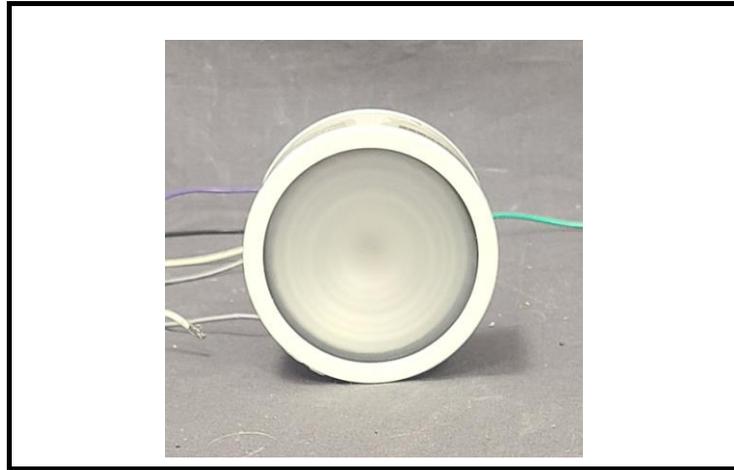
Approved By

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: | 451.7 Lumens |
| Luminaire Efficacy: | 48.5 lm/w |
| Maximum Candela: | 916 Candela |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 25.2 °C |
| Voltage: | 120.0 VAC |
| Current: | 0.07977 A |
| Power: | 9.320 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

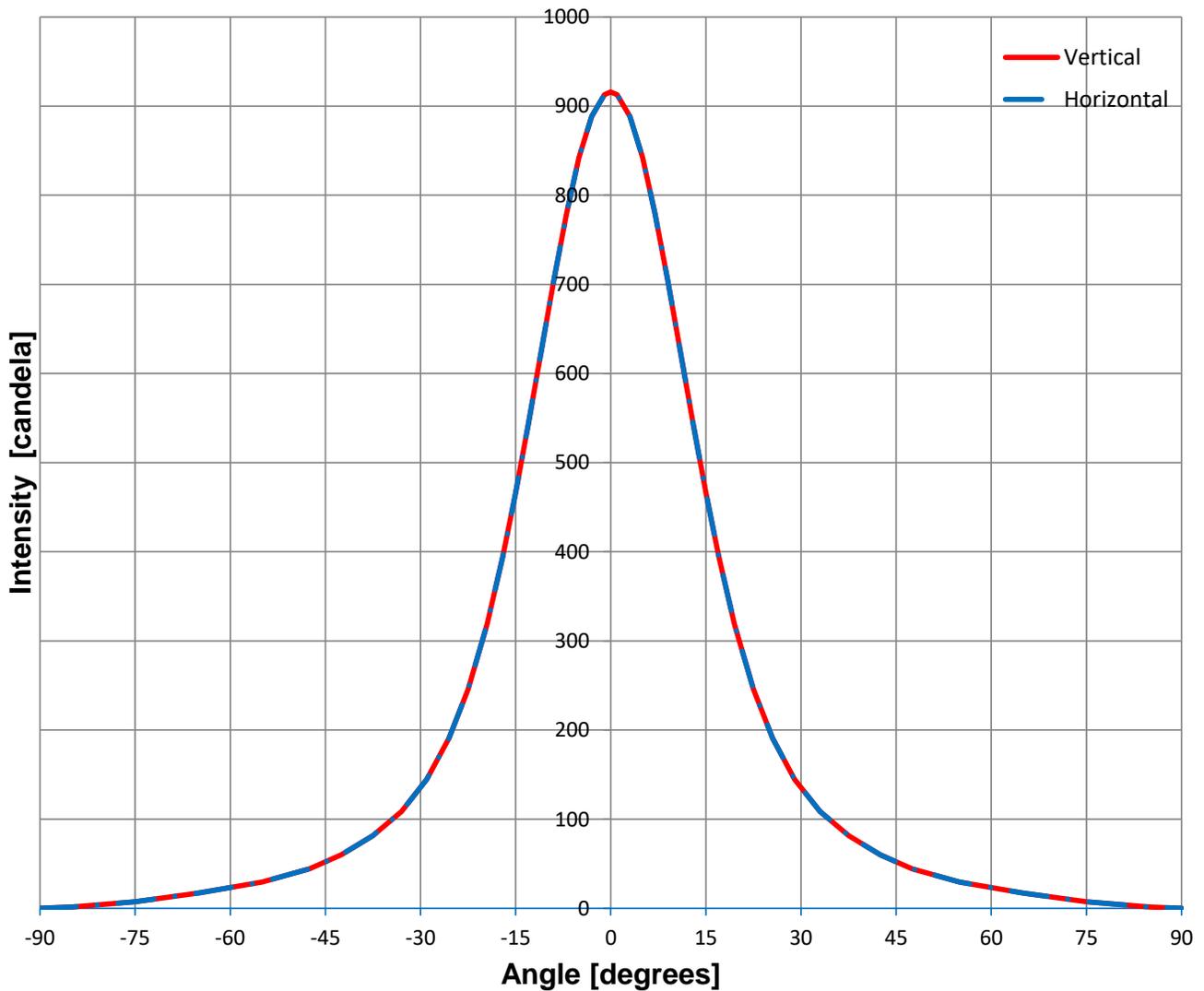
Distribution Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|-----------|---------|--------------|-----------|-------------|
| 25.2 °C | 120.0 VAC | 0.07977 A | 9.320 W | 0.973 | 60 Hz | 19.4 % |

Summary of Results

| | | | |
|----------------------------|------------------|-------------------------|---------------------|
| Total Lumen Output: | 451.7 Lumens | Maximum Candela: | 915.9 Candela |
| Luminaire Efficacy: | 48.5 Lumens/Watt | Maximum Angle: | 0 H 0 V |
| Field Lumens: | 334.1 Lumens | Field Angle : | 71.7 H X 71.7 V |
| Beam Lumens: | 142.2 Lumens | Beam Angle : | 30.4 H X 30.4 V |
| Spill Light Lumens: | 117.6 Lumens | IESNA Type: | 5 H X 5 V |

Maximum Candlepower Plot



Candela Tabulation
Lateral Angle (Degrees)

| | 0 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19.5 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 85.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75.0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 65.0 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 |
| 55.0 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 26 |
| 47.5 | 44 | 44 | 44 | 44 | 43 | 43 | 42 | 41 | 40 | 39 | 38 |
| 42.5 | 60 | 60 | 60 | 59 | 58 | 57 | 56 | 54 | 53 | 51 | 48 |
| 37.5 | 82 | 82 | 81 | 80 | 79 | 77 | 75 | 73 | 70 | 67 | 63 |
| 33.0 | 109 | 109 | 108 | 106 | 104 | 101 | 98 | 94 | 90 | 86 | 80 |
| 29.0 | 145 | 144 | 143 | 141 | 137 | 132 | 126 | 120 | 114 | 107 | 99 |
| 25.5 | 191 | 191 | 188 | 184 | 178 | 170 | 161 | 151 | 141 | 131 | 119 |
| 22.5 | 246 | 246 | 242 | 235 | 226 | 214 | 200 | 186 | 171 | 157 | 140 |
| 19.5 | 319 | 318 | 313 | 302 | 288 | 270 | 251 | 230 | 209 | 189 | 165 |
| 17.0 | 395 | 394 | 387 | 373 | 352 | 328 | 301 | 273 | 245 | 219 | 189 |
| 15.0 | 466 | 465 | 455 | 437 | 412 | 381 | 347 | 312 | 278 | 245 | 209 |
| 13.0 | 543 | 541 | 530 | 507 | 476 | 438 | 396 | 354 | 312 | 273 | 230 |
| 11.0 | 624 | 622 | 608 | 580 | 542 | 497 | 447 | 396 | 347 | 301 | 251 |
| 9.0 | 704 | 702 | 685 | 653 | 608 | 555 | 497 | 438 | 381 | 328 | 270 |
| 7.0 | 779 | 776 | 757 | 720 | 669 | 608 | 542 | 476 | 412 | 352 | 288 |
| 5.0 | 842 | 839 | 818 | 776 | 720 | 653 | 580 | 507 | 437 | 373 | 302 |
| 3.0 | 888 | 885 | 862 | 818 | 757 | 685 | 608 | 530 | 455 | 387 | 313 |
| 1.0 | 913 | 909 | 885 | 839 | 776 | 702 | 622 | 541 | 465 | 394 | 318 |
| 0.0 | 916 | 913 | 888 | 842 | 779 | 704 | 624 | 543 | 466 | 395 | 319 |
| -1.0 | 913 | 909 | 885 | 839 | 776 | 702 | 622 | 541 | 465 | 394 | 318 |
| -3.0 | 888 | 885 | 862 | 818 | 757 | 685 | 608 | 530 | 455 | 387 | 313 |
| -5.0 | 842 | 839 | 818 | 776 | 720 | 653 | 580 | 507 | 437 | 373 | 302 |
| -7.0 | 779 | 776 | 757 | 720 | 669 | 608 | 542 | 476 | 412 | 352 | 288 |
| -9.0 | 704 | 702 | 685 | 653 | 608 | 555 | 497 | 438 | 381 | 328 | 270 |
| -11.0 | 624 | 622 | 608 | 580 | 542 | 497 | 447 | 396 | 347 | 301 | 251 |
| -13.0 | 543 | 541 | 530 | 507 | 476 | 438 | 396 | 354 | 312 | 273 | 230 |
| -15.0 | 466 | 465 | 455 | 437 | 412 | 381 | 347 | 312 | 278 | 245 | 209 |
| -17.0 | 395 | 394 | 387 | 373 | 352 | 328 | 301 | 273 | 245 | 219 | 189 |
| -19.5 | 319 | 318 | 313 | 302 | 288 | 270 | 251 | 230 | 209 | 189 | 165 |
| -22.5 | 246 | 246 | 242 | 235 | 226 | 214 | 200 | 186 | 171 | 157 | 140 |
| -25.5 | 191 | 191 | 188 | 184 | 178 | 170 | 161 | 151 | 141 | 131 | 119 |
| -29.0 | 145 | 144 | 143 | 141 | 137 | 132 | 126 | 120 | 114 | 107 | 99 |
| -33.0 | 109 | 109 | 108 | 106 | 104 | 101 | 98 | 94 | 90 | 86 | 80 |
| -37.5 | 82 | 82 | 81 | 80 | 79 | 77 | 75 | 73 | 70 | 67 | 63 |
| -42.5 | 60 | 60 | 60 | 59 | 58 | 57 | 56 | 54 | 53 | 51 | 48 |
| -47.5 | 44 | 44 | 44 | 44 | 43 | 43 | 42 | 41 | 40 | 39 | 38 |
| -55.0 | 30 | 30 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 26 |
| -65.0 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 | 16 |
| -75.0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| -85.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

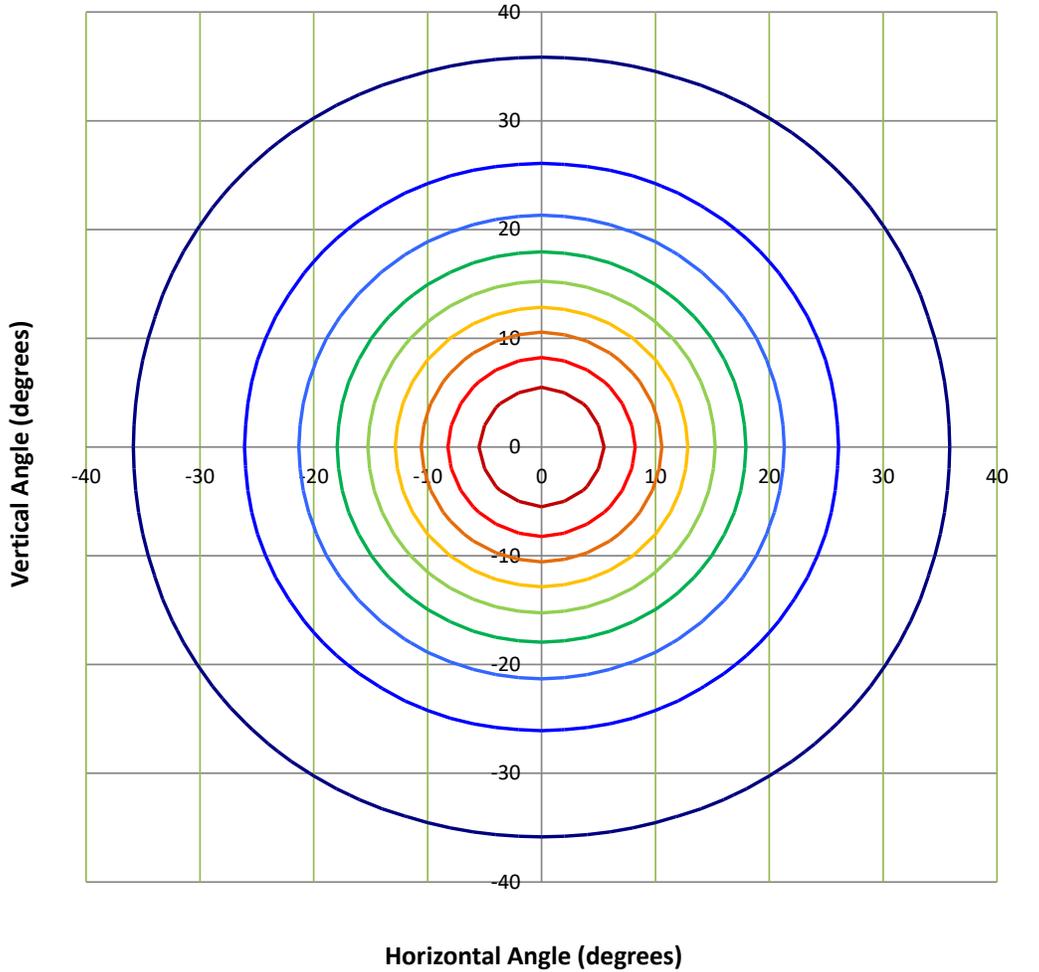
Vertical Angle (Degrees)

Candela Tabulation
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 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 2 | 1 | 0 |
| 65.0 | 15 | 15 | 14 | 13 | 12 | 10 | 9 | 7 | 4 | 2 | 1 |
| 55.0 | 25 | 24 | 23 | 21 | 20 | 17 | 15 | 11 | 7 | 3 | 1 |
| 47.5 | 36 | 34 | 31 | 29 | 26 | 23 | 20 | 15 | 9 | 4 | 1 |
| 42.5 | 45 | 42 | 39 | 35 | 31 | 27 | 23 | 17 | 10 | 4 | 1 |
| 37.5 | 59 | 54 | 48 | 42 | 36 | 31 | 26 | 20 | 12 | 5 | 1 |
| 33.0 | 73 | 66 | 59 | 50 | 42 | 35 | 29 | 21 | 13 | 5 | 1 |
| 29.0 | 89 | 80 | 69 | 59 | 48 | 39 | 31 | 23 | 14 | 6 | 1 |
| 25.5 | 105 | 93 | 80 | 66 | 54 | 42 | 34 | 24 | 15 | 6 | 1 |
| 22.5 | 122 | 105 | 89 | 73 | 59 | 45 | 36 | 25 | 15 | 6 | 1 |
| 19.5 | 140 | 119 | 99 | 80 | 63 | 48 | 38 | 26 | 16 | 7 | 1 |
| 17.0 | 157 | 131 | 107 | 86 | 67 | 51 | 39 | 27 | 16 | 7 | 1 |
| 15.0 | 171 | 141 | 114 | 90 | 70 | 53 | 40 | 28 | 16 | 7 | 1 |
| 13.0 | 186 | 151 | 120 | 94 | 73 | 54 | 41 | 28 | 17 | 7 | 1 |
| 11.0 | 200 | 161 | 126 | 98 | 75 | 56 | 42 | 28 | 17 | 7 | 1 |
| 9.0 | 214 | 170 | 132 | 101 | 77 | 57 | 43 | 29 | 17 | 7 | 1 |
| 7.0 | 226 | 178 | 137 | 104 | 79 | 58 | 43 | 29 | 17 | 7 | 1 |
| 5.0 | 235 | 184 | 141 | 106 | 80 | 59 | 44 | 29 | 17 | 7 | 1 |
| 3.0 | 242 | 188 | 143 | 108 | 81 | 60 | 44 | 29 | 17 | 7 | 1 |
| 1.0 | 246 | 191 | 144 | 109 | 82 | 60 | 44 | 30 | 17 | 7 | 1 |
| 0.0 | 246 | 191 | 145 | 109 | 82 | 60 | 44 | 30 | 17 | 7 | 1 |
| -1.0 | 246 | 191 | 144 | 109 | 82 | 60 | 44 | 30 | 17 | 7 | 1 |
| -3.0 | 242 | 188 | 143 | 108 | 81 | 60 | 44 | 29 | 17 | 7 | 1 |
| -5.0 | 235 | 184 | 141 | 106 | 80 | 59 | 44 | 29 | 17 | 7 | 1 |
| -7.0 | 226 | 178 | 137 | 104 | 79 | 58 | 43 | 29 | 17 | 7 | 1 |
| -9.0 | 214 | 170 | 132 | 101 | 77 | 57 | 43 | 29 | 17 | 7 | 1 |
| -11.0 | 200 | 161 | 126 | 98 | 75 | 56 | 42 | 28 | 17 | 7 | 1 |
| -13.0 | 186 | 151 | 120 | 94 | 73 | 54 | 41 | 28 | 17 | 7 | 1 |
| -15.0 | 171 | 141 | 114 | 90 | 70 | 53 | 40 | 28 | 16 | 7 | 1 |
| -17.0 | 157 | 131 | 107 | 86 | 67 | 51 | 39 | 27 | 16 | 7 | 1 |
| -19.5 | 140 | 119 | 99 | 80 | 63 | 48 | 38 | 26 | 16 | 7 | 1 |
| -22.5 | 122 | 105 | 89 | 73 | 59 | 45 | 36 | 25 | 15 | 6 | 1 |
| -25.5 | 105 | 93 | 80 | 66 | 54 | 42 | 34 | 24 | 15 | 6 | 1 |
| -29.0 | 89 | 80 | 69 | 59 | 48 | 39 | 31 | 23 | 14 | 6 | 1 |
| -33.0 | 73 | 66 | 59 | 50 | 42 | 35 | 29 | 21 | 13 | 5 | 1 |
| -37.5 | 59 | 54 | 48 | 42 | 36 | 31 | 26 | 20 | 12 | 5 | 1 |
| -42.5 | 45 | 42 | 39 | 35 | 31 | 27 | 23 | 17 | 10 | 4 | 1 |
| -47.5 | 36 | 34 | 31 | 29 | 26 | 23 | 20 | 15 | 9 | 4 | 1 |
| -55.0 | 25 | 24 | 23 | 21 | 20 | 17 | 15 | 11 | 7 | 3 | 1 |
| -65.0 | 15 | 15 | 14 | 13 | 12 | 10 | 9 | 7 | 4 | 2 | 1 |
| -75.0 | 6 | 6 | 6 | 5 | 5 | 4 | 4 | 3 | 2 | 1 | 0 |
| -85.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- | | | | | |
|---|--|--|---|--|
| — 824 cd (90%) | — 732 cd (80%) | — 641 cd (70%) | — 549 cd (60%) | — 457 cd (50%) |
| — 366 cd (40%) | — 274 cd (30%) | — 183 cd (20%) | — 91 cd (10%) | |