

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830368

Luminaire Tested: **OHBL-36HE-W-UNV-L735-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-W-UNV-L735-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

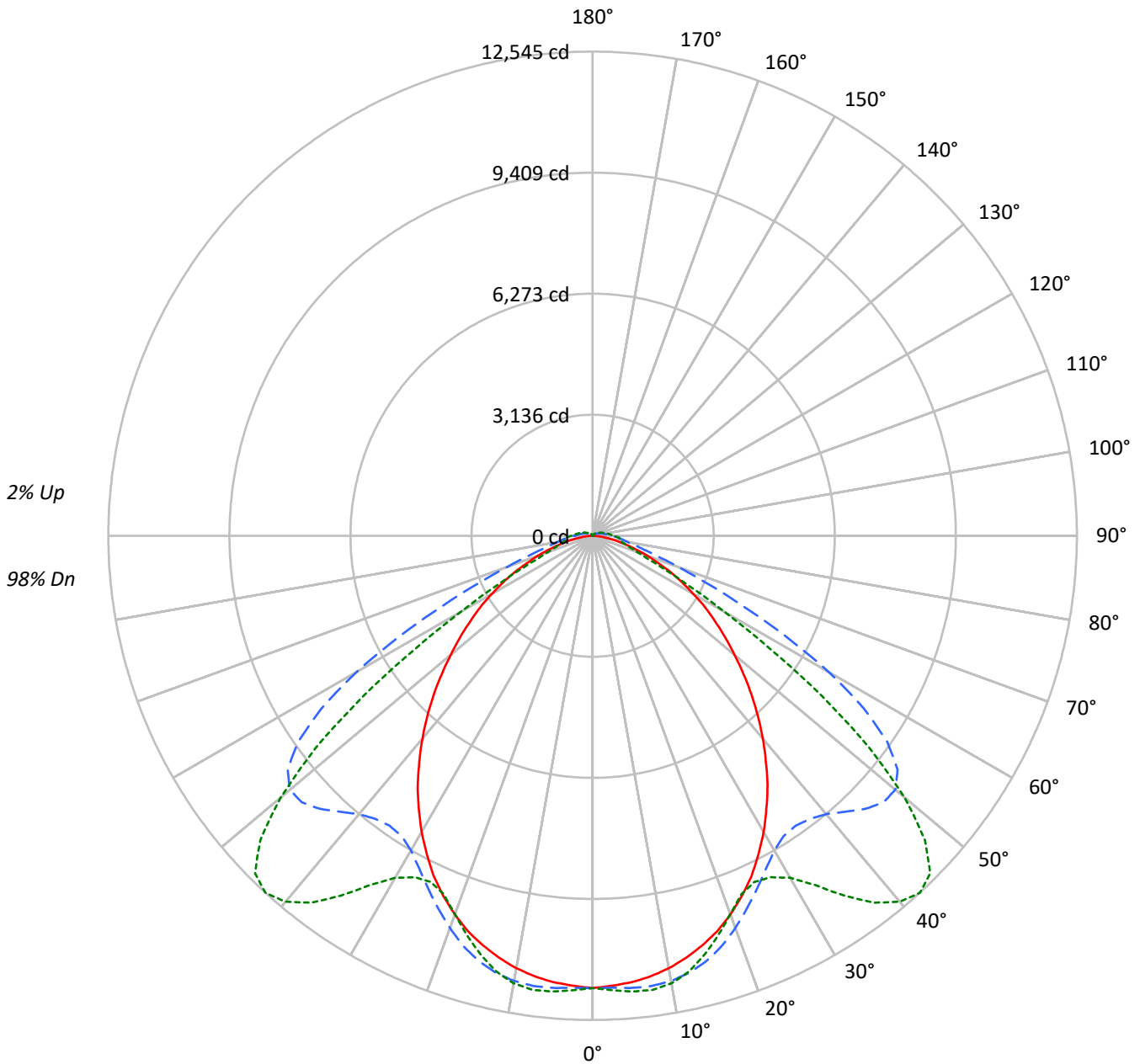
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35087.0 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 212
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P830368
CATALOG NUMBER: OHBL-36HE-W-UNV-L735-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830368

CATALOG NUMBER: OHBL-36HE-W-UNV-L735-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | | | | | 98 | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | | | | | 83 | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 85 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 77 | 74 | 78 | 75 | 72 | | | | | 70 | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 62 | 69 | 65 | 61 | | | | | 59 | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | | | | | 50 | | | | | | | | | | | | | | | |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 57 | 51 | 46 | 55 | 50 | 45 | | | | | 43 | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | | | | | 38 | | | | | | | | | | | | | | | |
| 7 | 65 | 51 | 43 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 40 | 35 | | | | | 33 | | | | | | | | | | | | | | | |
| 8 | 60 | 47 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | | | | | 29 | | | | | | | | | | | | | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | | | | | 26 | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 35 | 30 | 25 | | | | | 24 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18532 | 18532 | 18532 |
| 5° | 18360 | 18515 | 18665 |
| 10° | 18129 | 18495 | 18608 |
| 15° | 17776 | 18197 | 17934 |
| 20° | 17291 | 17580 | 16979 |
| 25° | 16643 | 16831 | 16561 |
| 30° | 15781 | 16276 | 17732 |
| 35° | 14797 | 16586 | 20637 |
| 40° | 13655 | 17974 | 23712 |
| 45° | 12462 | 20403 | 25312 |
| 50° | 11217 | 22579 | 23366 |
| 55° | 10047 | 22572 | 17682 |
| 60° | 8856 | 19118 | 10682 |
| 65° | 7598 | 13220 | 6370 |
| 70° | 6173 | 8563 | 4501 |
| 75° | 4696 | 6153 | 4041 |
| 80° | 3371 | 5428 | 4318 |
| 85° | 2288 | 6016 | 6084 |



TEST NUMBER: P830368

CATALOG NUMBER: OHBL-36HE-W-UNV-L735-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1119.8 | 3.2 |
| 10°-20° | 3171.0 | 9.0 |
| 20°-30° | 4640.2 | 13.2 |
| 30°-40° | 6026.3 | 17.2 |
| 40°-50° | 7358.9 | 21.0 |
| 50°-60° | 6480.7 | 18.5 |
| 60°-70° | 3377.1 | 9.6 |
| 70°-80° | 1448.2 | 4.1 |
| 80°-90° | 695.5 | 2.0 |
| 90°-100° | 326.8 | 0.9 |
| 100°-110° | 203.1 | 0.6 |
| 110°-120° | 120.1 | 0.3 |
| 120°-130° | 65.3 | 0.2 |
| 130°-140° | 32.8 | 0.1 |
| 140°-150° | 15.8 | 0.0 |
| 150°-160° | 5.5 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 8931.1 | 25.5 |
| 0°-40° | 14957.4 | 42.6 |
| 0°-60° | 28796.9 | 82.1 |
| 0°-90° | 34317.8 | 97.8 |
| 90°-120° | 650.0 | 1.9 |
| 90°-150° | 763.8 | 2.2 |
| 90°-180° | 769.0 | 2.2 |
| 0°-180° | 35087.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 11718 | 11718 | 11718 | 11718 | 11718 | |
| 5° | 11610 | 11698 | 11761 | 11865 | 11852 | ### |
| 15° | 10985 | 11294 | 11402 | 11316 | 11225 | 3093 |
| 25° | 9734 | 10255 | 10080 | 9890 | 9901 | 4467 |
| 35° | 7901 | 8735 | 9172 | 10697 | 11382 | 4924 |
| 45° | 5818 | 7319 | 10004 | 12113 | 12366 | 4486 |
| 55° | 3873 | 6412 | 9317 | 8169 | 7261 | 3476 |
| 65° | 2222 | 4442 | 4265 | 2372 | 2040 | 2199 |
| 75° | 895 | 2078 | 1370 | 938 | 890 | 976 |
| 85° | 190 | 741 | 698 | 683 | 690 | 211 |
| 90° | 2 | 268 | 460 | 526 | 538 | 13 |
| 95° | 5 | 157 | 367 | 430 | 442 | 4 |
| 105° | 10 | 88 | 238 | 286 | 291 | 11 |
| 115° | 15 | 51 | 147 | 180 | 185 | 16 |
| 125° | 18 | 25 | 86 | 111 | 114 | 15 |
| 135° | 15 | 15 | 40 | 68 | 71 | 12 |
| 145° | 20 | 15 | 18 | 33 | 38 | 12 |
| 155° | 20 | 20 | 15 | 15 | 15 | 6 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830368

CATALOG NUMBER: OHBL-36HE-W-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 11718.4 | 11718.4 | 11718.4 | 11718.4 | 11718.4 |
| 2.5° | 11667.9 | 11718.4 | 11720.9 | 11791.7 | 11784.2 |
| 5° | 11609.7 | 11698.2 | 11761.4 | 11865.1 | 11852.4 |
| 7.5° | 11513.6 | 11652.7 | 11763.9 | 11877.7 | 11867.6 |
| 10° | 11377.1 | 11566.7 | 11713.4 | 11806.9 | 11776.6 |
| 12.5° | 11200.1 | 11450.4 | 11594.5 | 11614.8 | 11556.6 |
| 15° | 10985.2 | 11293.7 | 11402.4 | 11316.4 | 11225.4 |
| 17.5° | 10742.5 | 11104.1 | 11142.0 | 10954.9 | 10841.1 |
| 20° | 10439.1 | 10851.2 | 10813.3 | 10555.4 | 10429.0 |
| 22.5° | 10102.9 | 10573.1 | 10451.8 | 10181.2 | 10059.9 |
| 25° | 9733.7 | 10254.6 | 10080.1 | 9890.5 | 9900.6 |
| 27.5° | 9301.4 | 9893.0 | 9723.6 | 9809.6 | 9971.4 |
| 30° | 8861.5 | 9513.8 | 9410.1 | 9910.7 | 10229.3 |
| 32.5° | 8378.6 | 9124.4 | 9218.0 | 10206.5 | 10727.3 |
| 35° | 7900.8 | 8735.1 | 9172.5 | 10697.0 | 11382.2 |
| 37.5° | 7372.4 | 8340.7 | 9245.8 | 11263.3 | 11981.4 |
| 40° | 6859.1 | 7956.4 | 9412.7 | 11771.5 | 12378.3 |
| 42.5° | 6335.8 | 7612.5 | 9693.3 | 12072.4 | 12545.2 |
| 45° | 5817.5 | 7319.3 | 10004.3 | 12112.8 | 12365.6 |
| 47.5° | 5299.2 | 7071.5 | 10219.2 | 11791.7 | 11675.4 |
| 50° | 4798.6 | 6851.5 | 10234.3 | 11020.6 | 10545.3 |
| 52.5° | 4330.9 | 6649.3 | 9956.2 | 9791.9 | 9053.6 |
| 55° | 3873.3 | 6411.6 | 9316.6 | 8168.8 | 7261.1 |
| 57.5° | 3456.1 | 6083.0 | 8330.6 | 6424.3 | 5433.2 |
| 60° | 3013.7 | 5638.0 | 7056.3 | 4700.0 | 3918.8 |
| 62.5° | 2606.6 | 5084.3 | 5627.9 | 3271.5 | 2816.5 |
| 65° | 2222.3 | 4442.1 | 4265.1 | 2371.5 | 2040.3 |
| 67.5° | 1815.3 | 3777.2 | 3147.7 | 1729.3 | 1516.9 |
| 70° | 1496.7 | 3160.3 | 2343.7 | 1345.0 | 1221.1 |
| 72.5° | 1170.6 | 2573.8 | 1752.1 | 1092.2 | 1023.9 |
| 75° | 895.0 | 2078.2 | 1370.3 | 938.0 | 889.9 |
| 77.5° | 659.9 | 1643.4 | 1102.3 | 829.3 | 783.8 |
| 80° | 462.7 | 1294.5 | 922.8 | 740.8 | 723.1 |
| 82.5° | 311.0 | 1001.2 | 786.3 | 705.4 | 707.9 |
| 85° | 189.6 | 740.8 | 697.8 | 682.6 | 690.2 |
| 87.5° | 91.0 | 525.9 | 599.2 | 621.9 | 629.5 |
| 90° | 2.5 | 268.0 | 460.1 | 525.9 | 538.5 |
| 92.5° | 0.0 | 204.8 | 404.5 | 470.3 | 482.9 |
| 95° | 5.1 | 156.8 | 366.6 | 429.8 | 442.4 |
| 97.5° | 5.1 | 128.9 | 328.7 | 394.4 | 402.0 |
| 100° | 7.6 | 111.2 | 293.3 | 356.5 | 364.1 |
| 102.5° | 7.6 | 98.6 | 262.9 | 318.6 | 323.6 |
| 105° | 10.1 | 88.5 | 237.7 | 285.7 | 290.7 |



TEST NUMBER: P830368

CATALOG NUMBER: OHBL-36HE-W-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 15.2 | 60.7 | 166.9 | 202.3 | 207.3 |
| 115° | 15.2 | 50.6 | 146.6 | 179.5 | 184.6 |
| 117.5° | 17.7 | 45.5 | 128.9 | 159.3 | 161.8 |
| 120° | 17.7 | 37.9 | 111.2 | 141.6 | 144.1 |
| 122.5° | 17.7 | 30.3 | 98.6 | 126.4 | 128.9 |
| 125° | 17.7 | 25.3 | 86.0 | 111.2 | 113.8 |
| 127.5° | 15.2 | 17.7 | 73.3 | 98.6 | 101.1 |
| 130° | 15.2 | 15.2 | 60.7 | 86.0 | 91.0 |
| 132.5° | 15.2 | 15.2 | 50.6 | 75.8 | 80.9 |
| 135° | 15.2 | 15.2 | 40.5 | 68.3 | 70.8 |
| 137.5° | 15.2 | 15.2 | 32.9 | 58.1 | 63.2 |
| 140° | 15.2 | 15.2 | 25.3 | 50.6 | 53.1 |
| 142.5° | 17.7 | 15.2 | 22.8 | 43.0 | 45.5 |
| 145° | 20.2 | 15.2 | 17.7 | 32.9 | 37.9 |
| 147.5° | 20.2 | 17.7 | 17.7 | 27.8 | 30.3 |
| 150° | 20.2 | 20.2 | 15.2 | 20.2 | 25.3 |
| 152.5° | 20.2 | 20.2 | 15.2 | 15.2 | 20.2 |
| 155° | 20.2 | 20.2 | 15.2 | 15.2 | 15.2 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|------|------|-------|-------|-------|
| 107.5° | 12.6 | 78.4 | 212.4 | 255.4 | 260.4 |
| 110° | 12.6 | 68.3 | 187.1 | 227.5 | 232.6 |



(END OF REPORT)