

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: P830081

Luminaire Tested: **OHBL-24HE-W-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830081
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-24HE-W-UNV-L740-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

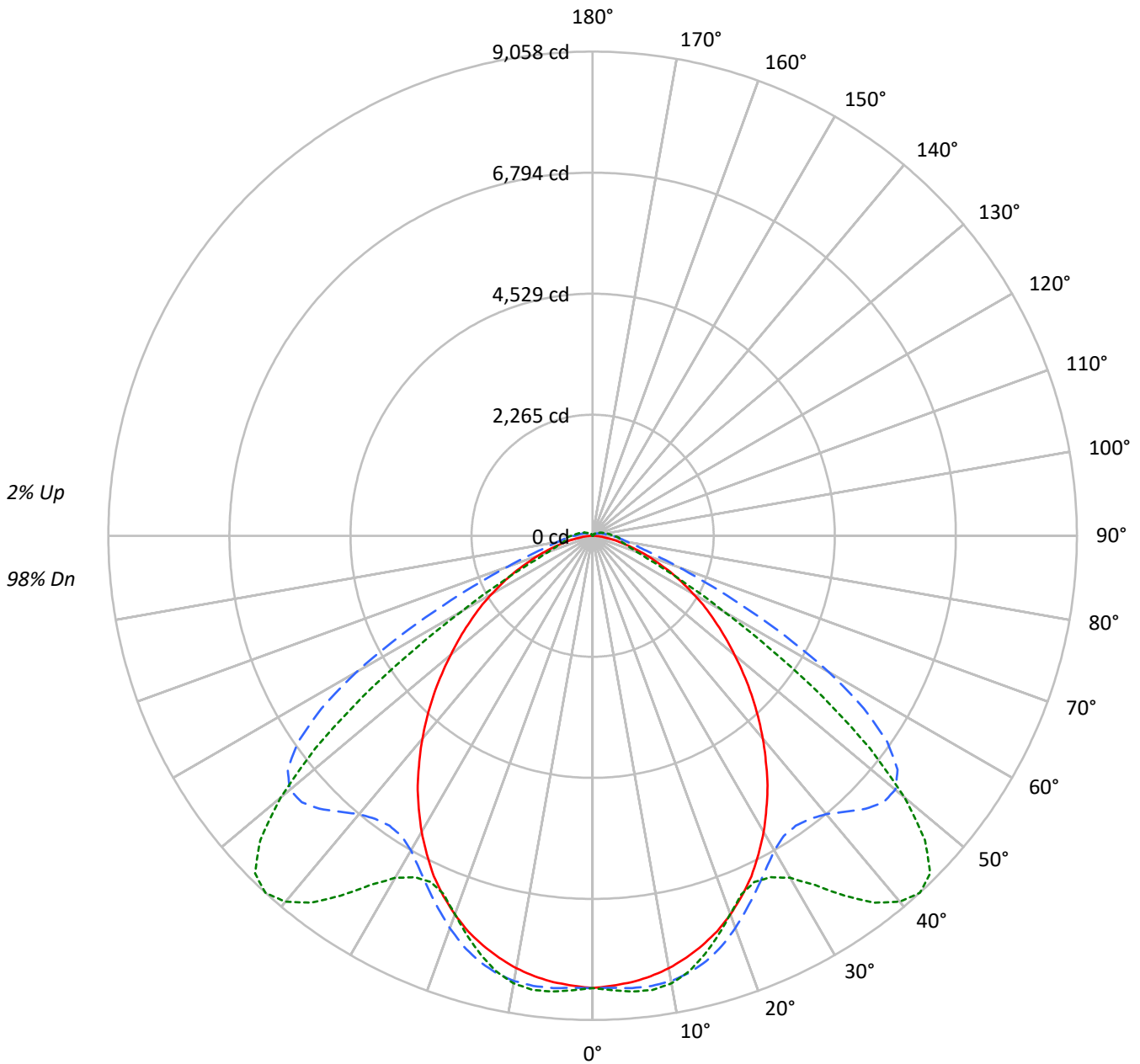
Lumens per Lamp: N/A
Luminaire Lumens: 25335.1 lumens
Efficiency: N/A
Efficacy: 190.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
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: P830081

CATALOG NUMBER: OHBL-24HE-W-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830081

CATALOG NUMBER: OHBL-24HE-W-UNV-L740-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 |
| RC | 80 | | | | 70 | | | | 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° | 13381 | 13381 | 13381 |
| 5° | 13257 | 13369 | 13477 |
| 10° | 13090 | 13355 | 13436 |
| 15° | 12835 | 13140 | 12949 |
| 20° | 12485 | 12694 | 12260 |
| 25° | 12017 | 12153 | 11958 |
| 30° | 11395 | 11752 | 12804 |
| 35° | 10684 | 11976 | 14901 |
| 40° | 9860 | 12979 | 17122 |
| 45° | 8998 | 14732 | 18277 |
| 50° | 8099 | 16303 | 16872 |
| 55° | 7254 | 16298 | 12767 |
| 60° | 6395 | 13804 | 7713 |
| 65° | 5486 | 9546 | 4599 |
| 70° | 4457 | 6183 | 3250 |
| 75° | 3391 | 4443 | 2918 |
| 80° | 2434 | 3920 | 3118 |
| 85° | 1652 | 4344 | 4393 |



TEST NUMBER: P830081

CATALOG NUMBER: OHBL-24HE-W-UNV-L740-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 808.6 | 3.2 |
| 10°-20° | 2289.7 | 9.0 |
| 20°-30° | 3350.5 | 13.2 |
| 30°-40° | 4351.4 | 17.2 |
| 40°-50° | 5313.6 | 21.0 |
| 50°-60° | 4679.4 | 18.5 |
| 60°-70° | 2438.5 | 9.6 |
| 70°-80° | 1045.7 | 4.1 |
| 80°-90° | 502.2 | 2.0 |
| 90°-100° | 235.9 | 0.9 |
| 100°-110° | 146.7 | 0.6 |
| 110°-120° | 86.7 | 0.3 |
| 120°-130° | 47.1 | 0.2 |
| 130°-140° | 23.7 | 0.1 |
| 140°-150° | 11.4 | 0.0 |
| 150°-160° | 4.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 6448.8 | 25.5 |
| 0°-40° | 10800.2 | 42.6 |
| 0°-60° | 20793.2 | 82.1 |
| 0°-90° | 24779.6 | 97.8 |
| 90°-120° | 469.3 | 1.9 |
| 90°-150° | 551.5 | 2.2 |
| 90°-180° | 555.0 | 2.2 |
| 0°-180° | 25335.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 8461 | 8461 | 8461 | 8461 | 8461 | |
| 5° | 8383 | 8447 | 8492 | 8567 | 8558 | 795 |
| 15° | 7932 | 8155 | 8233 | 8171 | 8105 | 2233 |
| 25° | 7028 | 7404 | 7278 | 7142 | 7149 | 3225 |
| 35° | 5705 | 6307 | 6623 | 7724 | 8219 | 3556 |
| 45° | 4201 | 5285 | 7224 | 8746 | 8929 | 3239 |
| 55° | 2797 | 4630 | 6727 | 5898 | 5243 | 2510 |
| 65° | 1605 | 3208 | 3080 | 1712 | 1473 | 1588 |
| 75° | 646 | 1501 | 989 | 677 | 643 | 705 |
| 85° | 137 | 535 | 504 | 493 | 498 | 153 |
| 90° | 2 | 194 | 332 | 380 | 389 | 9 |
| 95° | 4 | 113 | 265 | 310 | 320 | 3 |
| 105° | 7 | 64 | 172 | 206 | 210 | 8 |
| 115° | 11 | 36 | 106 | 130 | 133 | 11 |
| 125° | 13 | 18 | 62 | 80 | 82 | 11 |
| 135° | 11 | 11 | 29 | 49 | 51 | 9 |
| 145° | 15 | 11 | 13 | 24 | 27 | 9 |
| 155° | 15 | 15 | 11 | 11 | 11 | 5 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830081

CATALOG NUMBER: OHBL-24HE-W-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 8461.4 | 8461.4 | 8461.4 | 8461.4 | 8461.4 |
| 2.5° | 8424.9 | 8461.4 | 8463.3 | 8514.4 | 8508.9 |
| 5° | 8382.9 | 8446.8 | 8492.5 | 8567.3 | 8558.2 |
| 7.5° | 8313.6 | 8414.0 | 8494.3 | 8576.4 | 8569.1 |
| 10° | 8215.0 | 8351.9 | 8457.8 | 8525.3 | 8503.4 |
| 12.5° | 8087.2 | 8267.9 | 8372.0 | 8386.6 | 8344.6 |
| 15° | 7932.0 | 8154.7 | 8233.2 | 8171.2 | 8105.4 |
| 17.5° | 7756.8 | 8017.8 | 8045.2 | 7910.1 | 7828.0 |
| 20° | 7537.7 | 7835.3 | 7807.9 | 7621.7 | 7530.4 |
| 22.5° | 7294.9 | 7634.5 | 7546.8 | 7351.5 | 7263.9 |
| 25° | 7028.4 | 7404.4 | 7278.5 | 7141.6 | 7148.9 |
| 27.5° | 6716.2 | 7143.4 | 7021.1 | 7083.1 | 7200.0 |
| 30° | 6398.6 | 6869.5 | 6794.7 | 7156.2 | 7386.2 |
| 32.5° | 6049.9 | 6588.4 | 6656.0 | 7369.7 | 7745.8 |
| 35° | 5704.8 | 6307.3 | 6623.1 | 7723.9 | 8218.6 |
| 37.5° | 5323.3 | 6022.5 | 6676.0 | 8132.8 | 8651.3 |
| 40° | 4952.7 | 5745.0 | 6796.5 | 8499.8 | 8937.9 |
| 42.5° | 4574.8 | 5496.7 | 6999.2 | 8717.0 | 9058.4 |
| 45° | 4200.6 | 5285.0 | 7223.7 | 8746.2 | 8928.8 |
| 47.5° | 3826.4 | 5106.1 | 7378.9 | 8514.4 | 8430.4 |
| 50° | 3464.9 | 4947.2 | 7389.8 | 7957.6 | 7614.4 |
| 52.5° | 3127.2 | 4801.2 | 7189.0 | 7070.4 | 6537.3 |
| 55° | 2796.7 | 4629.6 | 6727.2 | 5898.4 | 5243.0 |
| 57.5° | 2495.5 | 4392.3 | 6015.2 | 4638.7 | 3923.1 |
| 60° | 2176.1 | 4071.0 | 5095.1 | 3393.7 | 2829.6 |
| 62.5° | 1882.1 | 3671.2 | 4063.7 | 2362.3 | 2033.7 |
| 65° | 1604.7 | 3207.5 | 3079.7 | 1712.4 | 1473.2 |
| 67.5° | 1310.7 | 2727.4 | 2272.8 | 1248.7 | 1095.3 |
| 70° | 1080.7 | 2281.9 | 1692.3 | 971.2 | 881.7 |
| 72.5° | 845.2 | 1858.4 | 1265.1 | 788.6 | 739.3 |
| 75° | 646.2 | 1500.6 | 989.4 | 677.3 | 642.6 |
| 77.5° | 476.5 | 1186.6 | 795.9 | 598.8 | 565.9 |
| 80° | 334.1 | 934.7 | 666.3 | 534.9 | 522.1 |
| 82.5° | 224.5 | 722.9 | 567.7 | 509.3 | 511.2 |
| 85° | 136.9 | 534.9 | 503.9 | 492.9 | 498.4 |
| 87.5° | 65.7 | 379.7 | 432.7 | 449.1 | 454.6 |
| 90° | 1.8 | 193.5 | 332.3 | 379.7 | 388.8 |
| 92.5° | 0.0 | 147.9 | 292.1 | 339.6 | 348.7 |
| 95° | 3.7 | 113.2 | 264.7 | 310.3 | 319.5 |
| 97.5° | 3.7 | 93.1 | 237.3 | 284.8 | 290.3 |
| 100° | 5.5 | 80.3 | 211.8 | 257.4 | 262.9 |
| 102.5° | 5.5 | 71.2 | 189.9 | 230.0 | 233.7 |
| 105° | 7.3 | 63.9 | 171.6 | 206.3 | 209.9 |



TEST NUMBER: P830081

CATALOG NUMBER: OHBL-24HE-W-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 11.0 | 43.8 | 120.5 | 146.0 | 149.7 |
| 115° | 11.0 | 36.5 | 105.9 | 129.6 | 133.3 |
| 117.5° | 12.8 | 32.9 | 93.1 | 115.0 | 116.8 |
| 120° | 12.8 | 27.4 | 80.3 | 102.2 | 104.1 |
| 122.5° | 12.8 | 21.9 | 71.2 | 91.3 | 93.1 |
| 125° | 12.8 | 18.3 | 62.1 | 80.3 | 82.1 |
| 127.5° | 11.0 | 12.8 | 52.9 | 71.2 | 73.0 |
| 130° | 11.0 | 11.0 | 43.8 | 62.1 | 65.7 |
| 132.5° | 11.0 | 11.0 | 36.5 | 54.8 | 58.4 |
| 135° | 11.0 | 11.0 | 29.2 | 49.3 | 51.1 |
| 137.5° | 11.0 | 11.0 | 23.7 | 42.0 | 45.6 |
| 140° | 11.0 | 11.0 | 18.3 | 36.5 | 38.3 |
| 142.5° | 12.8 | 11.0 | 16.4 | 31.0 | 32.9 |
| 145° | 14.6 | 11.0 | 12.8 | 23.7 | 27.4 |
| 147.5° | 14.6 | 12.8 | 12.8 | 20.1 | 21.9 |
| 150° | 14.6 | 14.6 | 11.0 | 14.6 | 18.3 |
| 152.5° | 14.6 | 14.6 | 11.0 | 11.0 | 14.6 |
| 155° | 14.6 | 14.6 | 11.0 | 11.0 | 11.0 |
| 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° | 9.1 | 56.6 | 153.3 | 184.4 | 188.0 |
| 110° | 9.1 | 49.3 | 135.1 | 164.3 | 168.0 |



(END OF REPORT)