

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: P830953

Luminaire Tested: **OHBL-9HE-W-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830953
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-9HE-W-UNV-L940-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

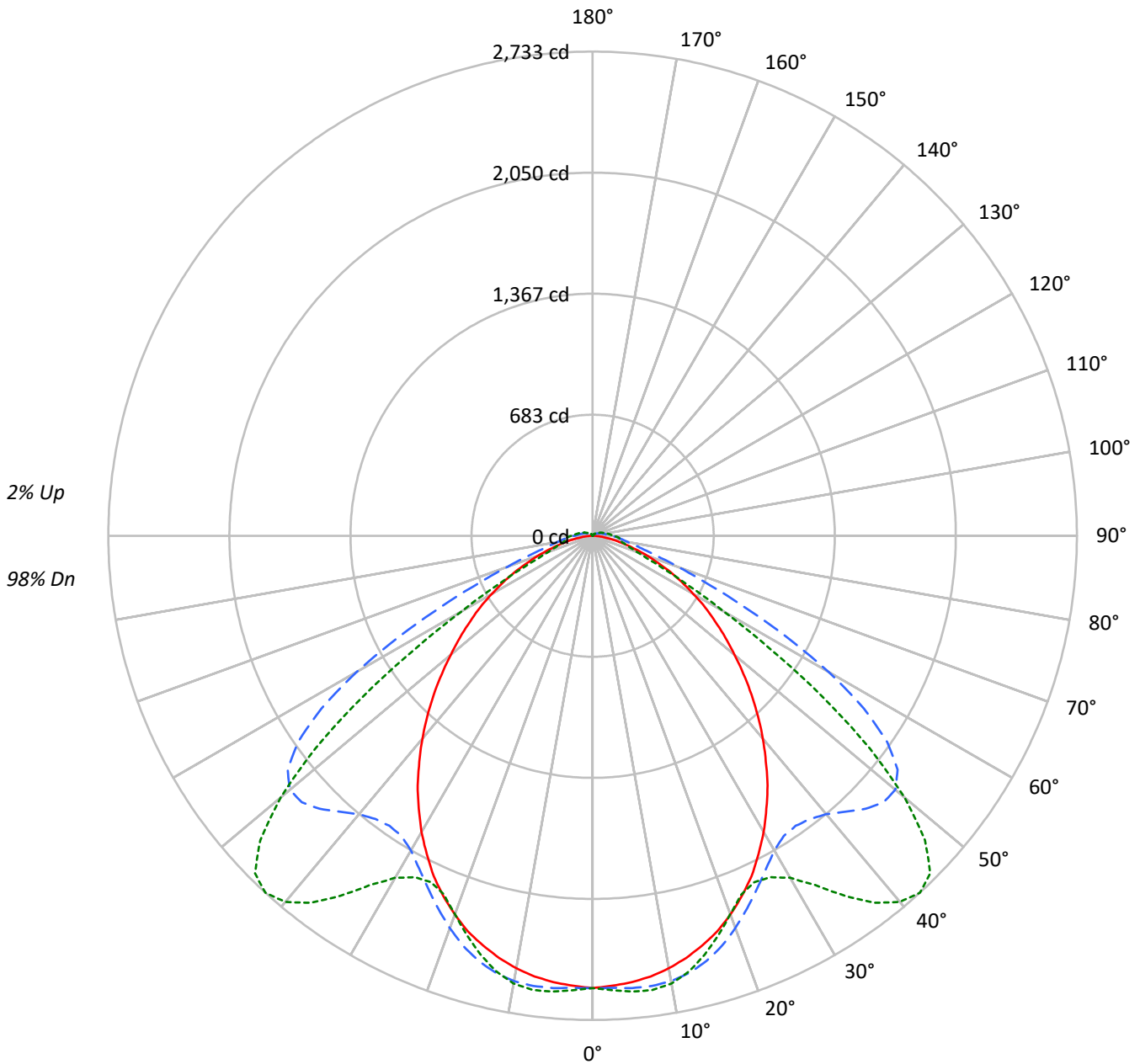
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7645.0 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): 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: P830953
CATALOG NUMBER: OHBL-9HE-W-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830953

CATALOG NUMBER: OHBL-9HE-W-UNV-L940-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 | 100 | 100 | 100 | 98 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 85 | 85 | 85 | 83 |
| 2 | 99 | 91 | 85 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 77 | 74 | 78 | 75 | 72 | 72 | 72 | 72 | 70 |
| 3 | 90 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 62 | 69 | 65 | 61 | 61 | 61 | 61 | 59 |
| 4 | 83 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 57 | 51 | 46 | 55 | 50 | 45 | 45 | 45 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 40 | 40 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 40 | 35 | 35 | 35 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 28 | 28 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 35 | 30 | 25 | 25 | 25 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4361 | 4361 | 4361 |
| 5° | 4320 | 4355 | 4389 |
| 10° | 4266 | 4348 | 4373 |
| 15° | 4183 | 4276 | 4212 |
| 20° | 4069 | 4129 | 3985 |
| 25° | 3916 | 3951 | 3884 |
| 30° | 3713 | 3819 | 4156 |
| 35° | 3482 | 3890 | 4833 |
| 40° | 3213 | 4213 | 5548 |
| 45° | 2933 | 4778 | 5916 |
| 50° | 2640 | 5284 | 5455 |
| 55° | 2364 | 5277 | 4122 |
| 60° | 2084 | 4464 | 2486 |
| 65° | 1788 | 3082 | 1479 |
| 70° | 1453 | 1993 | 1042 |
| 75° | 1105 | 1428 | 932 |
| 80° | 793 | 1254 | 988 |
| 85° | 538 | 1376 | 1375 |



TEST NUMBER: P830953

CATALOG NUMBER: OHBL-9HE-W-UNV-L940-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 244.0 | 3.2 |
| 10°-20° | 690.9 | 9.0 |
| 20°-30° | 1011.0 | 13.2 |
| 30°-40° | 1313.1 | 17.2 |
| 40°-50° | 1603.4 | 21.0 |
| 50°-60° | 1412.0 | 18.5 |
| 60°-70° | 735.8 | 9.6 |
| 70°-80° | 315.6 | 4.1 |
| 80°-90° | 151.5 | 2.0 |
| 90°-100° | 71.2 | 0.9 |
| 100°-110° | 44.3 | 0.6 |
| 110°-120° | 26.2 | 0.3 |
| 120°-130° | 14.2 | 0.2 |
| 130°-140° | 7.1 | 0.1 |
| 140°-150° | 3.4 | 0.0 |
| 150°-160° | 1.2 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1946.0 | 25.5 |
| 0°-40° | 3259.0 | 42.6 |
| 0°-60° | 6274.5 | 82.1 |
| 0°-90° | 7477.4 | 97.8 |
| 90°-120° | 141.6 | 1.9 |
| 90°-150° | 166.4 | 2.2 |
| 90°-180° | 168.0 | 2.2 |
| 0°-180° | 7645.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2553 | 2553 | 2553 | 2553 | 2553 | |
| 5° | 2530 | 2549 | 2563 | 2585 | 2582 | 240 |
| 15° | 2394 | 2461 | 2484 | 2466 | 2446 | 674 |
| 25° | 2121 | 2234 | 2196 | 2155 | 2157 | 973 |
| 35° | 1722 | 1903 | 1999 | 2331 | 2480 | 1073 |
| 45° | 1268 | 1595 | 2180 | 2639 | 2694 | 977 |
| 55° | 844 | 1397 | 2030 | 1780 | 1582 | 757 |
| 65° | 484 | 968 | 929 | 517 | 445 | 479 |
| 75° | 195 | 453 | 299 | 204 | 194 | 213 |
| 85° | 41 | 161 | 152 | 149 | 150 | 46 |
| 90° | 1 | 58 | 100 | 115 | 117 | 3 |
| 95° | 1 | 34 | 80 | 94 | 96 | 1 |
| 105° | 2 | 19 | 52 | 62 | 63 | 2 |
| 115° | 3 | 11 | 32 | 39 | 40 | 3 |
| 125° | 4 | 6 | 19 | 24 | 25 | 3 |
| 135° | 3 | 3 | 9 | 15 | 15 | 3 |
| 145° | 4 | 3 | 4 | 7 | 8 | 3 |
| 155° | 4 | 4 | 3 | 3 | 3 | 1 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830953

CATALOG NUMBER: OHBL-9HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2553.3 | 2553.3 | 2553.3 | 2553.3 | 2553.3 |
| 2.5° | 2542.3 | 2553.3 | 2553.8 | 2569.3 | 2567.6 |
| 5° | 2529.6 | 2548.9 | 2562.7 | 2585.2 | 2582.5 |
| 7.5° | 2508.7 | 2539.0 | 2563.2 | 2588.0 | 2585.8 |
| 10° | 2478.9 | 2520.2 | 2552.2 | 2572.6 | 2566.0 |
| 12.5° | 2440.4 | 2494.9 | 2526.3 | 2530.7 | 2518.0 |
| 15° | 2393.5 | 2460.7 | 2484.4 | 2465.7 | 2445.9 |
| 17.5° | 2340.7 | 2419.4 | 2427.7 | 2386.9 | 2362.1 |
| 20° | 2274.5 | 2364.3 | 2356.1 | 2299.9 | 2272.3 |
| 22.5° | 2201.3 | 2303.7 | 2277.3 | 2218.4 | 2191.9 |
| 25° | 2120.9 | 2234.3 | 2196.3 | 2155.0 | 2157.2 |
| 27.5° | 2026.7 | 2155.6 | 2118.7 | 2137.4 | 2172.6 |
| 30° | 1930.8 | 2072.9 | 2050.3 | 2159.4 | 2228.8 |
| 32.5° | 1825.6 | 1988.1 | 2008.5 | 2223.9 | 2337.3 |
| 35° | 1721.5 | 1903.3 | 1998.6 | 2330.7 | 2480.0 |
| 37.5° | 1606.3 | 1817.3 | 2014.5 | 2454.1 | 2610.6 |
| 40° | 1494.5 | 1733.6 | 2050.9 | 2564.9 | 2697.1 |
| 42.5° | 1380.5 | 1658.7 | 2112.0 | 2630.4 | 2733.4 |
| 45° | 1267.6 | 1594.8 | 2179.8 | 2639.2 | 2694.3 |
| 47.5° | 1154.6 | 1540.8 | 2226.6 | 2569.3 | 2543.9 |
| 50° | 1045.6 | 1492.9 | 2229.9 | 2401.2 | 2297.7 |
| 52.5° | 943.6 | 1448.8 | 2169.3 | 2133.5 | 1972.7 |
| 55° | 843.9 | 1397.0 | 2030.0 | 1779.9 | 1582.1 |
| 57.5° | 753.0 | 1325.4 | 1815.1 | 1399.8 | 1183.8 |
| 60° | 656.6 | 1228.4 | 1537.5 | 1024.1 | 853.9 |
| 62.5° | 567.9 | 1107.8 | 1226.2 | 712.8 | 613.7 |
| 65° | 484.2 | 967.9 | 929.3 | 516.7 | 444.6 |
| 67.5° | 395.5 | 823.0 | 685.8 | 376.8 | 330.5 |
| 70° | 326.1 | 688.6 | 510.7 | 293.1 | 266.1 |
| 72.5° | 255.1 | 560.8 | 381.8 | 238.0 | 223.1 |
| 75° | 195.0 | 452.8 | 298.6 | 204.4 | 193.9 |
| 77.5° | 143.8 | 358.1 | 240.2 | 180.7 | 170.8 |
| 80° | 100.8 | 282.0 | 201.1 | 161.4 | 157.5 |
| 82.5° | 67.8 | 218.1 | 171.3 | 153.7 | 154.2 |
| 85° | 41.3 | 161.4 | 152.0 | 148.7 | 150.4 |
| 87.5° | 19.8 | 114.6 | 130.6 | 135.5 | 137.2 |
| 90° | 0.6 | 58.4 | 100.3 | 114.6 | 117.3 |
| 92.5° | 0.0 | 44.6 | 88.1 | 102.5 | 105.2 |
| 95° | 1.1 | 34.2 | 79.9 | 93.6 | 96.4 |
| 97.5° | 1.1 | 28.1 | 71.6 | 85.9 | 87.6 |
| 100° | 1.7 | 24.2 | 63.9 | 77.7 | 79.3 |
| 102.5° | 1.7 | 21.5 | 57.3 | 69.4 | 70.5 |
| 105° | 2.2 | 19.3 | 51.8 | 62.2 | 63.4 |



TEST NUMBER: P830953

CATALOG NUMBER: OHBL-9HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 3.3 | 13.2 | 36.4 | 44.1 | 45.2 |
| 115° | 3.3 | 11.0 | 32.0 | 39.1 | 40.2 |
| 117.5° | 3.9 | 9.9 | 28.1 | 34.7 | 35.3 |
| 120° | 3.9 | 8.3 | 24.2 | 30.8 | 31.4 |
| 122.5° | 3.9 | 6.6 | 21.5 | 27.5 | 28.1 |
| 125° | 3.9 | 5.5 | 18.7 | 24.2 | 24.8 |
| 127.5° | 3.3 | 3.9 | 16.0 | 21.5 | 22.0 |
| 130° | 3.3 | 3.3 | 13.2 | 18.7 | 19.8 |
| 132.5° | 3.3 | 3.3 | 11.0 | 16.5 | 17.6 |
| 135° | 3.3 | 3.3 | 8.8 | 14.9 | 15.4 |
| 137.5° | 3.3 | 3.3 | 7.2 | 12.7 | 13.8 |
| 140° | 3.3 | 3.3 | 5.5 | 11.0 | 11.6 |
| 142.5° | 3.9 | 3.3 | 5.0 | 9.4 | 9.9 |
| 145° | 4.4 | 3.3 | 3.9 | 7.2 | 8.3 |
| 147.5° | 4.4 | 3.9 | 3.9 | 6.1 | 6.6 |
| 150° | 4.4 | 4.4 | 3.3 | 4.4 | 5.5 |
| 152.5° | 4.4 | 4.4 | 3.3 | 3.3 | 4.4 |
| 155° | 4.4 | 4.4 | 3.3 | 3.3 | 3.3 |
| 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° | 2.8 | 17.1 | 46.3 | 55.6 | 56.7 |
| 110° | 2.8 | 14.9 | 40.8 | 49.6 | 50.7 |



(END OF REPORT)