

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: P830909

Luminaire Tested: **OHBL-9HE-MFL-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-9HE-MFL-UNV-L740-CD  
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

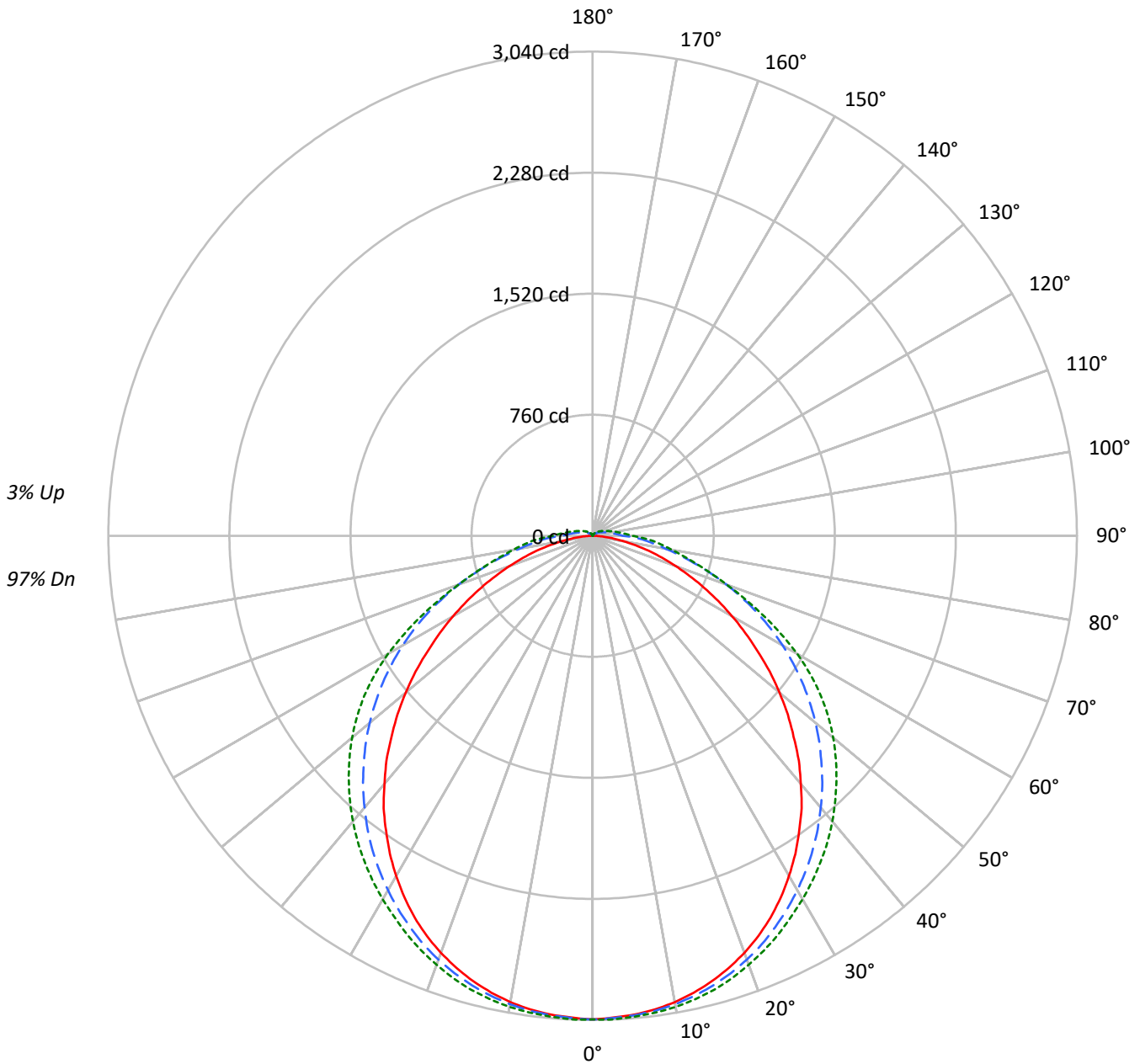
Lumens per Lamp: N/A  
Luminaire Lumens: 9089.0 lumens  
Efficiency: N/A  
Efficacy: 174.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 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   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 |
| 1   | 107 | 102 | 98  | 94  | 104 | 100 | 96  | 92  | 95  | 91  | 88  | 90  | 88  | 85  | 86 | 84 | 82 | 82 | 82 | 82 | 80 |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 80  | 75  | 83  | 77  | 73  | 79  | 74  | 71  | 75 | 72 | 68 | 68 | 68 | 68 | 66 |
| 3   | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 62  | 73  | 66  | 61  | 70  | 64  | 59  | 67 | 62 | 58 | 58 | 58 | 58 | 56 |
| 4   | 81  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 57  | 52  | 62  | 56  | 51  | 59 | 54 | 50 | 50 | 50 | 50 | 47 |
| 5   | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 46  | 58  | 50  | 45  | 56  | 49  | 44  | 53 | 48 | 43 | 43 | 43 | 43 | 41 |
| 6   | 69  | 56  | 47  | 40  | 67  | 54  | 46  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 48 | 43 | 38 | 38 | 38 | 38 | 36 |
| 7   | 64  | 50  | 42  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 44 | 38 | 34 | 34 | 34 | 34 | 32 |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41 | 35 | 30 | 30 | 30 | 30 | 28 |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 37 | 32 | 27 | 27 | 27 | 27 | 25 |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 29  | 25  | 35 | 29 | 25 | 25 | 25 | 25 | 23 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5187 | 5187 | 5187 |
| 5°  | 5154 | 5136 | 5150 |
| 10° | 5118 | 5088 | 5120 |
| 15° | 5061 | 5032 | 5081 |
| 20° | 4985 | 4963 | 5026 |
| 25° | 4883 | 4878 | 4970 |
| 30° | 4743 | 4786 | 4914 |
| 35° | 4573 | 4688 | 4865 |
| 40° | 4369 | 4575 | 4816 |
| 45° | 4128 | 4453 | 4754 |
| 50° | 3865 | 4329 | 4680 |
| 55° | 3542 | 4177 | 4557 |
| 60° | 3210 | 3999 | 4317 |
| 65° | 2849 | 3772 | 3928 |
| 70° | 2457 | 3483 | 3506 |
| 75° | 2059 | 3148 | 3214 |
| 80° | 1561 | 2900 | 3167 |
| 85° | 988  | 2987 | 3493 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 287.8  | 3.2       |
| 10°-20°   | 825.6  | 9.1       |
| 20°-30°   | 1248.5 | 13.7      |
| 30°-40°   | 1498.8 | 16.5      |
| 40°-50°   | 1548.1 | 17.0      |
| 50°-60°   | 1392.8 | 15.3      |
| 60°-70°   | 1049.2 | 11.5      |
| 70°-80°   | 633.5  | 7.0       |
| 80°-90°   | 309.8  | 3.4       |
| 90°-100°  | 130.4  | 1.4       |
| 100°-110° | 74.5   | 0.8       |
| 110°-120° | 43.7   | 0.5       |
| 120°-130° | 24.7   | 0.3       |
| 130°-140° | 13.0   | 0.1       |
| 140°-150° | 6.3    | 0.1       |
| 150°-160° | 2.4    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 2361.8 | 26.0      |
| 0°-40°    | 3860.7 | 42.5      |
| 0°-60°    | 6801.5 | 74.8      |
| 0°-90°    | 8794.0 | 96.8      |
| 90°-120°  | 248.6  | 2.7       |
| 90°-150°  | 292.6  | 3.2       |
| 90°-180°  | 295.0  | 3.2       |
| 0°-180°   | 9089.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3037 | 3037  | 3037 | 3037  | 3037 |      |
| 5°   | 3018 | 3026  | 3022 | 3034  | 3030 | 287  |
| 15°  | 2896 | 2910  | 2923 | 2948  | 2951 | 816  |
| 25°  | 2644 | 2674  | 2711 | 2754  | 2760 | 1216 |
| 35°  | 2261 | 2314  | 2409 | 2482  | 2497 | 1413 |
| 45°  | 1784 | 1874  | 2031 | 2142  | 2165 | 1378 |
| 55°  | 1264 | 1395  | 1607 | 1728  | 1749 | 1134 |
| 65°  | 772  | 929   | 1137 | 1194  | 1180 | 766  |
| 75°  | 363  | 522   | 658  | 676   | 669  | 388  |
| 85°  | 76   | 200   | 330  | 375   | 382  | 88   |
| 90°  | 0    | 78    | 189  | 238   | 248  | 5    |
| 95°  | 4    | 53    | 141  | 180   | 187  | 3    |
| 105° | 5    | 30    | 82   | 107   | 112  | 5    |
| 115° | 6    | 17    | 50   | 68    | 71   | 6    |
| 125° | 6    | 8     | 30   | 44    | 46   | 5    |
| 135° | 5    | 7     | 16   | 27    | 30   | 4    |
| 145° | 7    | 7     | 7    | 13    | 16   | 4    |
| 155° | 7    | 8     | 7    | 7     | 7    | 2    |
| 165° | 0    | 0     | 0    | 0     | 0    | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 |
| 2.5°   | 3028.0 | 3035.4 | 3031.0 | 3040.6 | 3039.9 |
| 5°     | 3017.6 | 3025.8 | 3022.1 | 3034.0 | 3030.2 |
| 7.5°   | 2999.8 | 3008.7 | 3007.9 | 3021.3 | 3019.8 |
| 10°    | 2973.7 | 2983.4 | 2986.4 | 3004.2 | 3004.2 |
| 12.5°  | 2938.1 | 2950.7 | 2958.1 | 2979.7 | 2980.4 |
| 15°    | 2895.7 | 2909.8 | 2923.2 | 2947.7 | 2950.7 |
| 17.5°  | 2844.4 | 2862.3 | 2880.8 | 2909.1 | 2912.8 |
| 20°    | 2786.4 | 2806.5 | 2831.8 | 2861.5 | 2866.0 |
| 22.5°  | 2719.6 | 2743.3 | 2776.0 | 2811.0 | 2816.2 |
| 25°    | 2644.5 | 2673.5 | 2711.4 | 2753.7 | 2760.4 |
| 27.5°  | 2559.0 | 2592.5 | 2643.7 | 2691.3 | 2697.3 |
| 30°    | 2466.1 | 2505.5 | 2569.4 | 2625.9 | 2635.6 |
| 32.5°  | 2368.0 | 2413.3 | 2492.1 | 2555.3 | 2568.7 |
| 35°    | 2261.0 | 2313.7 | 2408.9 | 2481.7 | 2496.6 |
| 37.5°  | 2155.4 | 2213.4 | 2321.2 | 2404.4 | 2422.3 |
| 40°    | 2032.0 | 2104.1 | 2227.5 | 2319.7 | 2341.2 |
| 42.5°  | 1916.1 | 1994.1 | 2133.9 | 2234.2 | 2255.0 |
| 45°    | 1784.5 | 1874.5 | 2031.3 | 2142.0 | 2165.1 |
| 47.5°  | 1661.2 | 1758.5 | 1932.5 | 2046.9 | 2070.7 |
| 50°    | 1531.1 | 1638.1 | 1826.9 | 1946.6 | 1971.1 |
| 52.5°  | 1401.0 | 1516.2 | 1717.7 | 1841.8 | 1864.8 |
| 55°    | 1264.3 | 1395.1 | 1606.9 | 1728.1 | 1748.9 |
| 57.5°  | 1137.2 | 1275.4 | 1493.2 | 1608.4 | 1621.0 |
| 60°    | 1011.6 | 1155.0 | 1377.2 | 1478.3 | 1482.8 |
| 62.5°  | 888.9  | 1039.8 | 1258.3 | 1338.6 | 1332.6 |
| 65°    | 771.5  | 929.1  | 1137.2 | 1193.7 | 1180.3 |
| 67.5°  | 658.5  | 821.3  | 1013.1 | 1049.5 | 1031.6 |
| 70°    | 551.5  | 716.5  | 892.6  | 911.2  | 894.9  |
| 72.5°  | 457.1  | 616.9  | 770.8  | 786.4  | 774.5  |
| 75°    | 363.4  | 521.8  | 658.5  | 675.6  | 668.9  |
| 77.5°  | 275.7  | 429.6  | 555.2  | 577.5  | 579.0  |
| 80°    | 198.4  | 345.6  | 465.3  | 500.2  | 504.7  |
| 82.5°  | 130.8  | 268.3  | 390.2  | 434.8  | 441.5  |
| 85°    | 75.8   | 199.9  | 330.0  | 375.3  | 382.0  |
| 87.5°  | 32.7   | 144.2  | 265.3  | 306.2  | 314.4  |
| 90°    | 0.0    | 78.0   | 188.8  | 237.8  | 247.5  |
| 92.5°  | 2.2    | 64.7   | 162.0  | 206.6  | 214.8  |
| 95°    | 3.7    | 52.8   | 141.2  | 179.9  | 186.6  |
| 97.5°  | 4.5    | 44.6   | 122.6  | 156.8  | 163.5  |
| 100°   | 4.5    | 38.6   | 106.3  | 137.5  | 143.4  |
| 102.5° | 4.5    | 34.2   | 92.9   | 120.4  | 125.6  |
| 105°   | 5.2    | 30.5   | 81.8   | 107.0  | 111.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 5.9 | 20.1  | 56.5 | 75.8  | 78.8 |
| 115°   | 5.9 | 17.1  | 50.5 | 67.6  | 70.6 |
| 117.5° | 6.7 | 14.9  | 44.6 | 60.9  | 63.2 |
| 120°   | 6.7 | 12.6  | 39.4 | 54.3  | 57.2 |
| 122.5° | 6.7 | 10.4  | 34.9 | 49.1  | 51.3 |
| 125°   | 5.9 | 8.2   | 30.5 | 43.9  | 46.1 |
| 127.5° | 5.2 | 6.7   | 26.0 | 39.4  | 41.6 |
| 130°   | 5.2 | 5.9   | 22.3 | 34.9  | 37.2 |
| 132.5° | 5.2 | 6.7   | 18.6 | 30.5  | 33.4 |
| 135°   | 5.2 | 6.7   | 15.6 | 26.8  | 29.7 |
| 137.5° | 5.2 | 6.7   | 12.6 | 23.0  | 26.0 |
| 140°   | 5.9 | 6.7   | 10.4 | 19.3  | 22.3 |
| 142.5° | 6.7 | 6.7   | 8.2  | 16.4  | 18.6 |
| 145°   | 7.4 | 6.7   | 7.4  | 13.4  | 15.6 |
| 147.5° | 7.4 | 7.4   | 7.4  | 10.4  | 12.6 |
| 150°   | 7.4 | 8.2   | 7.4  | 8.2   | 10.4 |
| 152.5° | 7.4 | 8.2   | 7.4  | 6.7   | 8.2  |
| 155°   | 7.4 | 8.2   | 7.4  | 6.7   | 7.4  |
| 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° | 5.2 | 26.8 | 72.1 | 95.1 | 98.9 |
| 110°   | 5.2 | 23.8 | 63.9 | 84.7 | 88.4 |



(END OF REPORT)