

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: P829781

Luminaire Tested: **OHBL-12SE-NL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-NL-UNV-L740-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

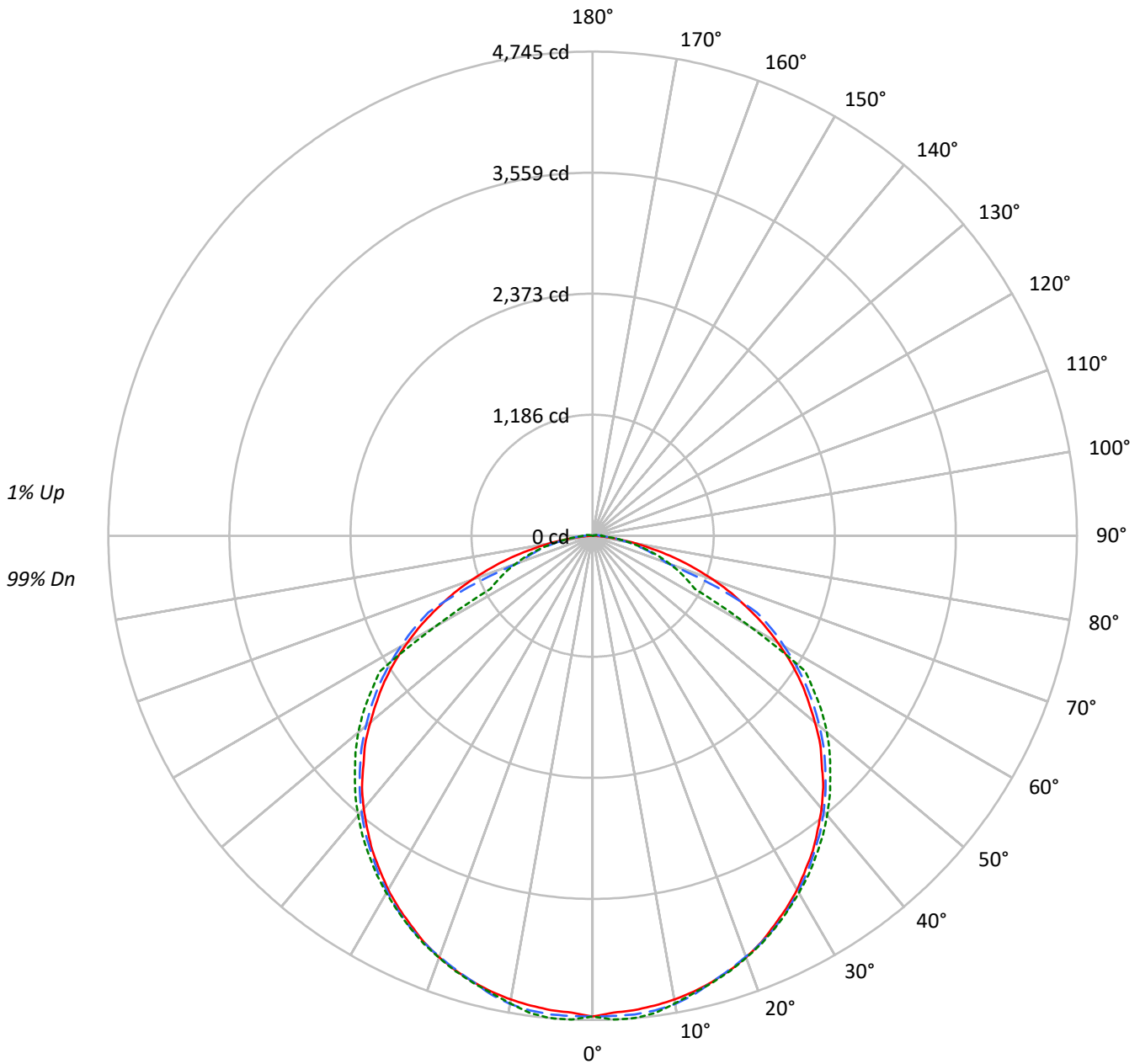
Lumens per Lamp: N/A
Luminaire Lumens: 13226.0 lumens
Efficiency: N/A
Efficacy: 188.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P829781

CATALOG NUMBER: OHBL-12SE-NL-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829781

CATALOG NUMBER: OHBL-12SE-NL-UNV-L740-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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | | | | 99 | | | | | | | | | | | | | | | | |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | | | | 84 | | | | | | | | | | | | | | | | |
| 2 | 99 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | | | | 71 | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | | | | 60 | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | | | | 51 | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | | | | 44 | | | | | | | | | | | | | | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | | | | 39 | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | | | | 34 | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | | | | 30 | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | | | | 27 | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | | | | 25 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15326 | 15326 | 15326 |
| 5° | 15241 | 15379 | 15495 |
| 10° | 15245 | 15390 | 15371 |
| 15° | 15243 | 15240 | 15273 |
| 20° | 15222 | 15199 | 15236 |
| 25° | 15118 | 15195 | 15207 |
| 30° | 15048 | 15125 | 15185 |
| 35° | 14950 | 15032 | 15173 |
| 40° | 14821 | 14961 | 15183 |
| 45° | 14607 | 14828 | 15151 |
| 50° | 14387 | 14680 | 15166 |
| 55° | 14112 | 14478 | 14998 |
| 60° | 13639 | 14123 | 11677 |
| 65° | 12904 | 13655 | 7858 |
| 70° | 11936 | 7249 | 7627 |
| 75° | 10410 | 6888 | 7283 |
| 80° | 8006 | 6319 | 6675 |
| 85° | 4043 | 6387 | 6540 |



TEST NUMBER: P829781

CATALOG NUMBER: OHBL-12SE-NL-UNV-L740-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 447.5 | 3.4 |
| 10°-20° | 1281.4 | 9.7 |
| 20°-30° | 1949.8 | 14.7 |
| 30°-40° | 2370.7 | 17.9 |
| 40°-50° | 2492.7 | 18.8 |
| 50°-60° | 2276.1 | 17.2 |
| 60°-70° | 1459.1 | 11.0 |
| 70°-80° | 689.2 | 5.2 |
| 80°-90° | 191.1 | 1.4 |
| 90°-100° | 50.6 | 0.4 |
| 100°-110° | 13.9 | 0.1 |
| 110°-120° | 3.8 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3678.8 | 27.8 |
| 0°-40° | 6049.5 | 45.7 |
| 0°-60° | 10818.2 | 81.8 |
| 0°-90° | 13157.7 | 99.5 |
| 90°-120° | 68.3 | 0.5 |
| 90°-150° | 68.3 | 0.5 |
| 90°-180° | 68.0 | 0.5 |
| 0°-180° | 13226.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4711 | 4711 | 4711 | 4711 | 4711 | |
| 5° | 4667 | 4685 | 4709 | 4735 | 4745 | 444 |
| 15° | 4526 | 4560 | 4525 | 4531 | 4535 | 1278 |
| 25° | 4212 | 4218 | 4233 | 4240 | 4236 | 1943 |
| 35° | 3764 | 3742 | 3785 | 3831 | 3820 | 2352 |
| 45° | 3175 | 3169 | 3223 | 3299 | 3293 | 2454 |
| 55° | 2488 | 2469 | 2552 | 2638 | 2644 | 2219 |
| 65° | 1676 | 1676 | 1774 | 1018 | 1021 | 1662 |
| 75° | 828 | 844 | 548 | 577 | 579 | 873 |
| 85° | 108 | 137 | 171 | 185 | 175 | 160 |
| 90° | 0 | 46 | 76 | 90 | 88 | 5 |
| 95° | 2 | 24 | 55 | 74 | 74 | 1 |
| 105° | 4 | 9 | 13 | 13 | 12 | 4 |
| 115° | 4 | 6 | 8 | 6 | 1 | 3 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P829781

CATALOG NUMBER: OHBL-12SE-NL-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4710.8 | 4710.8 | 4710.8 | 4710.8 | 4710.8 |
| 2.5° | 4677.7 | 4693.4 | 4710.8 | 4733.1 | 4745.4 |
| 5° | 4666.9 | 4685.1 | 4709.1 | 4734.7 | 4744.6 |
| 7.5° | 4643.8 | 4669.4 | 4692.6 | 4710.8 | 4716.5 |
| 10° | 4614.8 | 4645.5 | 4658.7 | 4657.0 | 4652.9 |
| 12.5° | 4576.0 | 4608.3 | 4604.2 | 4585.1 | 4588.4 |
| 15° | 4525.6 | 4559.5 | 4524.8 | 4531.4 | 4534.7 |
| 17.5° | 4466.1 | 4499.2 | 4458.6 | 4471.8 | 4472.7 |
| 20° | 4396.7 | 4421.4 | 4390.0 | 4400.8 | 4400.8 |
| 22.5° | 4313.2 | 4330.5 | 4317.3 | 4324.7 | 4326.4 |
| 25° | 4211.5 | 4218.1 | 4232.9 | 4239.6 | 4236.3 |
| 27.5° | 4114.0 | 4105.7 | 4134.7 | 4150.3 | 4142.0 |
| 30° | 4005.7 | 3992.5 | 4026.3 | 4052.0 | 4042.1 |
| 32.5° | 3881.7 | 3873.4 | 3912.3 | 3942.8 | 3937.1 |
| 35° | 3764.3 | 3742.0 | 3785.0 | 3831.3 | 3820.5 |
| 37.5° | 3625.4 | 3612.2 | 3660.9 | 3709.8 | 3704.0 |
| 40° | 3489.9 | 3467.5 | 3522.9 | 3580.8 | 3575.0 |
| 42.5° | 3344.4 | 3317.9 | 3378.3 | 3447.8 | 3441.1 |
| 45° | 3174.9 | 3169.1 | 3222.9 | 3298.9 | 3293.1 |
| 47.5° | 3024.6 | 2995.6 | 3070.8 | 3144.4 | 3151.0 |
| 50° | 2842.6 | 2831.9 | 2900.5 | 2989.8 | 2996.4 |
| 52.5° | 2665.0 | 2657.5 | 2729.4 | 2819.5 | 2831.1 |
| 55° | 2488.0 | 2469.0 | 2552.5 | 2637.7 | 2644.3 |
| 57.5° | 2298.8 | 2278.9 | 2364.1 | 2456.7 | 2470.7 |
| 60° | 2096.2 | 2077.2 | 2170.6 | 2256.6 | 1794.6 |
| 62.5° | 1893.7 | 1880.5 | 1978.1 | 1401.1 | 1129.2 |
| 65° | 1676.3 | 1676.3 | 1773.8 | 1017.5 | 1020.8 |
| 67.5° | 1473.0 | 1459.8 | 1322.6 | 914.2 | 914.2 |
| 70° | 1254.8 | 1259.8 | 762.1 | 801.0 | 801.8 |
| 72.5° | 1035.7 | 1053.9 | 658.0 | 689.3 | 691.0 |
| 75° | 828.2 | 844.0 | 548.0 | 577.0 | 579.4 |
| 77.5° | 608.4 | 467.8 | 440.5 | 462.9 | 463.7 |
| 80° | 427.3 | 295.1 | 337.3 | 358.7 | 356.3 |
| 82.5° | 249.6 | 206.6 | 247.1 | 262.9 | 262.0 |
| 85° | 108.3 | 137.2 | 171.1 | 185.2 | 175.2 |
| 87.5° | 34.7 | 85.2 | 106.6 | 114.9 | 114.0 |
| 90° | 0.0 | 46.3 | 76.0 | 90.1 | 88.5 |
| 92.5° | 0.0 | 36.3 | 66.2 | 82.7 | 83.5 |
| 95° | 2.5 | 24.0 | 54.6 | 73.6 | 73.6 |
| 97.5° | 1.7 | 17.3 | 38.9 | 57.8 | 59.5 |
| 100° | 1.7 | 14.0 | 25.6 | 41.3 | 42.2 |
| 102.5° | 4.1 | 11.6 | 15.7 | 26.4 | 27.3 |
| 105° | 4.1 | 9.1 | 13.2 | 13.2 | 12.4 |



TEST NUMBER: P829781

CATALOG NUMBER: OHBL-12SE-NL-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 5.0 | 6.7 | 9.1 | 6.7 | 0.8 |
| 115° | 4.1 | 5.8 | 8.2 | 5.8 | 0.8 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 4.1 | 8.2 | 11.6 | 7.4 | 2.5 |
| 110° | 5.0 | 7.4 | 9.9 | 6.7 | 0.8 |



(END OF REPORT)