

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: P829827

Luminaire Tested: **OHBL-15SE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829827
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-15SE-MFL-UNV-L730-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

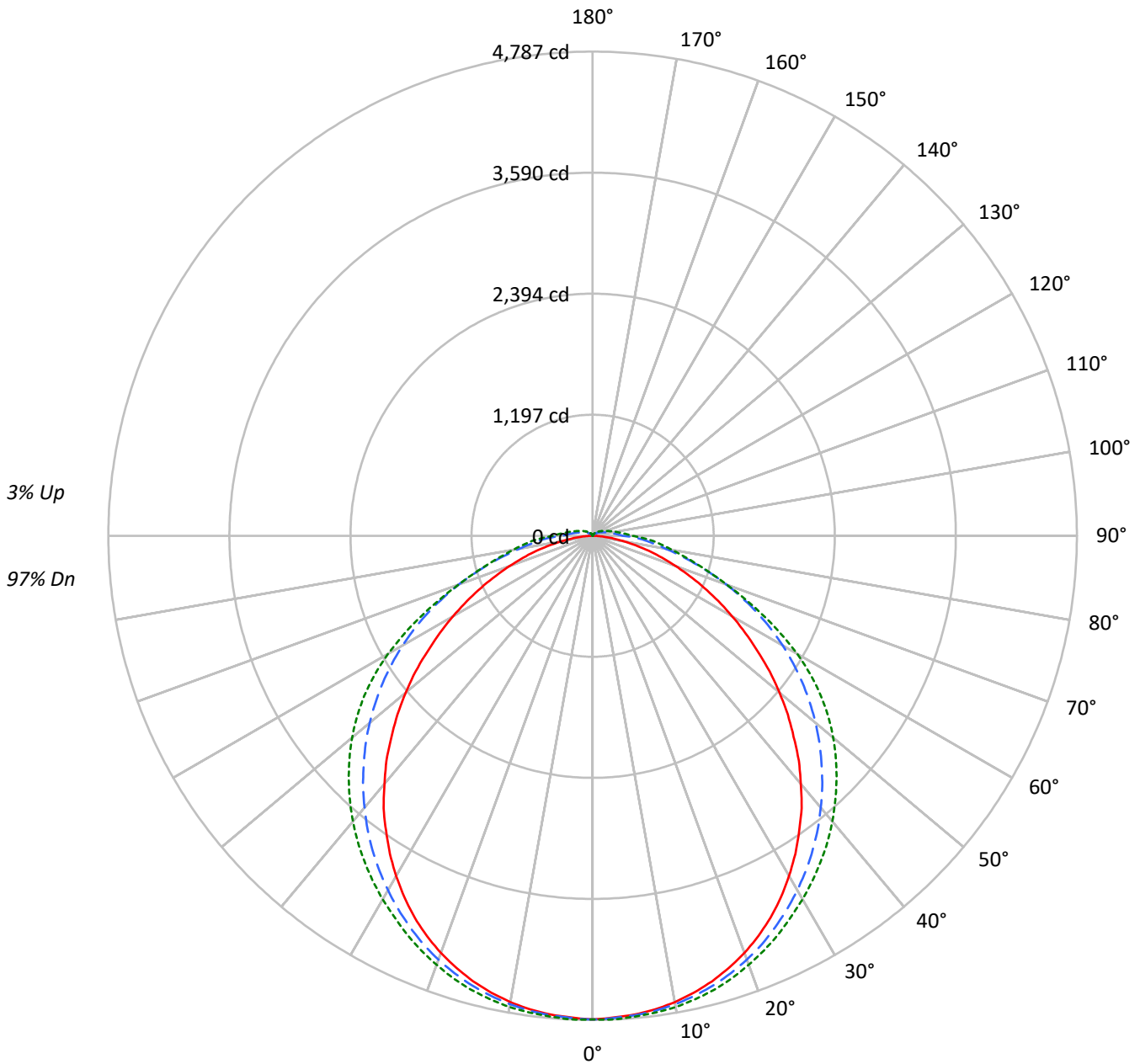
Lumens per Lamp: N/A
Luminaire Lumens: 14313.0 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
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: P829827

CATALOG NUMBER: OHBL-15SE-MFL-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829827

CATALOG NUMBER: OHBL-15SE-MFL-UNV-L730-CD

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° | 15559 | 15559 | 15559 |
| 5° | 15459 | 15319 | 15328 |
| 10° | 15351 | 15094 | 15121 |
| 15° | 15179 | 14845 | 14890 |
| 20° | 14952 | 14560 | 14612 |
| 25° | 14648 | 14227 | 14331 |
| 30° | 14227 | 13871 | 14046 |
| 35° | 13717 | 13498 | 13776 |
| 40° | 13105 | 13077 | 13500 |
| 45° | 12383 | 12623 | 13176 |
| 50° | 11594 | 12157 | 12803 |
| 55° | 10623 | 11604 | 12280 |
| 60° | 9630 | 10962 | 11423 |
| 65° | 8544 | 10168 | 10158 |
| 70° | 7369 | 9185 | 8799 |
| 75° | 6177 | 8051 | 7739 |
| 80° | 4684 | 7073 | 7156 |
| 85° | 2964 | 6698 | 7067 |



TEST NUMBER: P829827

CATALOG NUMBER: OHBL-15SE-MFL-UNV-L730-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 453.2 | 3.2 |
| 10°-20° | 1300.1 | 9.1 |
| 20°-30° | 1966.1 | 13.7 |
| 30°-40° | 2360.3 | 16.5 |
| 40°-50° | 2437.8 | 17.0 |
| 50°-60° | 2193.3 | 15.3 |
| 60°-70° | 1652.2 | 11.5 |
| 70°-80° | 997.6 | 7.0 |
| 80°-90° | 487.9 | 3.4 |
| 90°-100° | 205.4 | 1.4 |
| 100°-110° | 117.2 | 0.8 |
| 110°-120° | 68.8 | 0.5 |
| 120°-130° | 38.9 | 0.3 |
| 130°-140° | 20.5 | 0.1 |
| 140°-150° | 10.0 | 0.1 |
| 150°-160° | 3.7 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3719.3 | 26.0 |
| 0°-40° | 6079.6 | 42.5 |
| 0°-60° | 10710.8 | 74.8 |
| 0°-90° | 13848.5 | 96.8 |
| 90°-120° | 391.4 | 2.7 |
| 90°-150° | 460.8 | 3.2 |
| 90°-180° | 465.0 | 3.2 |
| 0°-180° | 14313.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4782 | 4782 | 4782 | 4782 | 4782 | |
| 5° | 4752 | 4765 | 4759 | 4778 | 4772 | 451 |
| 15° | 4560 | 4582 | 4603 | 4642 | 4647 | 1286 |
| 25° | 4164 | 4210 | 4270 | 4336 | 4347 | 1916 |
| 35° | 3560 | 3644 | 3793 | 3908 | 3932 | 2226 |
| 45° | 2810 | 2952 | 3199 | 3373 | 3410 | 2170 |
| 55° | 1991 | 2197 | 2530 | 2721 | 2754 | 1785 |
| 65° | 1215 | 1463 | 1791 | 1880 | 1859 | 1207 |
| 75° | 572 | 822 | 1037 | 1064 | 1053 | 611 |
| 85° | 119 | 315 | 520 | 591 | 602 | 138 |
| 90° | 0 | 123 | 297 | 374 | 390 | 8 |
| 95° | 6 | 83 | 222 | 283 | 294 | 5 |
| 105° | 8 | 48 | 129 | 168 | 176 | 8 |
| 115° | 9 | 27 | 80 | 106 | 111 | 10 |
| 125° | 9 | 13 | 48 | 69 | 73 | 8 |
| 135° | 8 | 10 | 25 | 42 | 47 | 6 |
| 145° | 12 | 10 | 12 | 21 | 25 | 7 |
| 155° | 12 | 13 | 12 | 10 | 12 | 4 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P829827

CATALOG NUMBER: OHBL-15SE-MFL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4782.4 | 4782.4 | 4782.4 | 4782.4 | 4782.4 |
| 2.5° | 4768.4 | 4780.1 | 4773.1 | 4788.3 | 4787.1 |
| 5° | 4752.0 | 4764.9 | 4759.0 | 4777.7 | 4771.9 |
| 7.5° | 4723.9 | 4738.0 | 4736.8 | 4757.8 | 4755.5 |
| 10° | 4682.9 | 4698.2 | 4702.8 | 4730.9 | 4730.9 |
| 12.5° | 4626.8 | 4646.7 | 4658.4 | 4692.3 | 4693.5 |
| 15° | 4560.0 | 4582.3 | 4603.4 | 4642.0 | 4646.7 |
| 17.5° | 4479.3 | 4507.4 | 4536.6 | 4581.1 | 4587.0 |
| 20° | 4388.0 | 4419.6 | 4459.4 | 4506.2 | 4513.2 |
| 22.5° | 4282.6 | 4320.1 | 4371.6 | 4426.6 | 4434.8 |
| 25° | 4164.4 | 4210.1 | 4269.8 | 4336.5 | 4347.0 |
| 27.5° | 4029.8 | 4082.5 | 4163.3 | 4238.2 | 4247.5 |
| 30° | 3883.5 | 3945.6 | 4046.2 | 4135.2 | 4150.4 |
| 32.5° | 3729.0 | 3800.4 | 3924.5 | 4024.0 | 4045.0 |
| 35° | 3560.5 | 3643.6 | 3793.4 | 3908.1 | 3931.5 |
| 37.5° | 3394.3 | 3485.6 | 3655.3 | 3786.4 | 3814.5 |
| 40° | 3200.0 | 3313.5 | 3507.8 | 3653.0 | 3686.9 |
| 42.5° | 3017.4 | 3140.3 | 3360.3 | 3518.4 | 3551.1 |
| 45° | 2810.2 | 2951.9 | 3198.8 | 3373.2 | 3409.5 |
| 47.5° | 2615.9 | 2769.3 | 3043.2 | 3223.4 | 3260.9 |
| 50° | 2411.1 | 2579.7 | 2876.9 | 3065.4 | 3104.0 |
| 52.5° | 2206.3 | 2387.7 | 2704.9 | 2900.4 | 2936.6 |
| 55° | 1990.9 | 2196.9 | 2530.5 | 2721.3 | 2754.1 |
| 57.5° | 1790.8 | 2008.5 | 2351.4 | 2532.8 | 2552.7 |
| 60° | 1593.0 | 1818.9 | 2168.8 | 2328.0 | 2335.0 |
| 62.5° | 1399.8 | 1637.4 | 1981.6 | 2108.0 | 2098.6 |
| 65° | 1214.9 | 1463.1 | 1790.8 | 1879.7 | 1858.7 |
| 67.5° | 1037.0 | 1293.3 | 1595.3 | 1652.7 | 1624.6 |
| 70° | 868.5 | 1128.3 | 1405.7 | 1435.0 | 1409.2 |
| 72.5° | 719.8 | 971.5 | 1213.7 | 1238.3 | 1219.6 |
| 75° | 572.3 | 821.7 | 1037.0 | 1063.9 | 1053.4 |
| 77.5° | 434.2 | 676.5 | 874.3 | 909.4 | 911.8 |
| 80° | 312.5 | 544.3 | 732.7 | 787.7 | 794.7 |
| 82.5° | 206.0 | 422.5 | 614.5 | 684.7 | 695.2 |
| 85° | 119.4 | 314.8 | 519.7 | 591.1 | 601.6 |
| 87.5° | 51.5 | 227.1 | 417.8 | 482.2 | 495.1 |
| 90° | 0.0 | 122.9 | 297.3 | 374.5 | 389.8 |
| 92.5° | 3.5 | 101.8 | 255.2 | 325.4 | 338.3 |
| 95° | 5.9 | 83.1 | 222.4 | 283.2 | 293.8 |
| 97.5° | 7.0 | 70.2 | 193.1 | 247.0 | 257.5 |
| 100° | 7.0 | 60.9 | 167.4 | 216.5 | 225.9 |
| 102.5° | 7.0 | 53.8 | 146.3 | 189.6 | 197.8 |
| 105° | 8.2 | 48.0 | 128.7 | 168.5 | 175.6 |



TEST NUMBER: P829827

CATALOG NUMBER: OHBL-15SE-MFL-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-------|
| 112.5° | 9.4 | 31.6 | 89.0 | 119.4 | 124.1 |
| 115° | 9.4 | 26.9 | 79.6 | 106.5 | 111.2 |
| 117.5° | 10.5 | 23.4 | 70.2 | 96.0 | 99.5 |
| 120° | 10.5 | 19.9 | 62.0 | 85.4 | 90.1 |
| 122.5° | 10.5 | 16.4 | 55.0 | 77.2 | 80.8 |
| 125° | 9.4 | 12.9 | 48.0 | 69.1 | 72.6 |
| 127.5° | 8.2 | 10.5 | 41.0 | 62.0 | 65.5 |
| 130° | 8.2 | 9.4 | 35.1 | 55.0 | 58.5 |
| 132.5° | 8.2 | 10.5 | 29.3 | 48.0 | 52.7 |
| 135° | 8.2 | 10.5 | 24.6 | 42.1 | 46.8 |
| 137.5° | 8.2 | 10.5 | 19.9 | 36.3 | 41.0 |
| 140° | 9.4 | 10.5 | 16.4 | 30.4 | 35.1 |
| 142.5° | 10.5 | 10.5 | 12.9 | 25.7 | 29.3 |
| 145° | 11.7 | 10.5 | 11.7 | 21.1 | 24.6 |
| 147.5° | 11.7 | 11.7 | 11.7 | 16.4 | 19.9 |
| 150° | 11.7 | 12.9 | 11.7 | 12.9 | 16.4 |
| 152.5° | 11.7 | 12.9 | 11.7 | 10.5 | 12.9 |
| 155° | 11.7 | 12.9 | 11.7 | 10.5 | 11.7 |
| 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° | 8.2 | 42.1 | 113.5 | 149.8 | 155.7 |
| 110° | 8.2 | 37.5 | 100.7 | 133.4 | 139.3 |



(END OF REPORT)