

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: P829800

Luminaire Tested: **OHBL-12SE-W-UNV-L935-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829800
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-12SE-W-UNV-L935-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

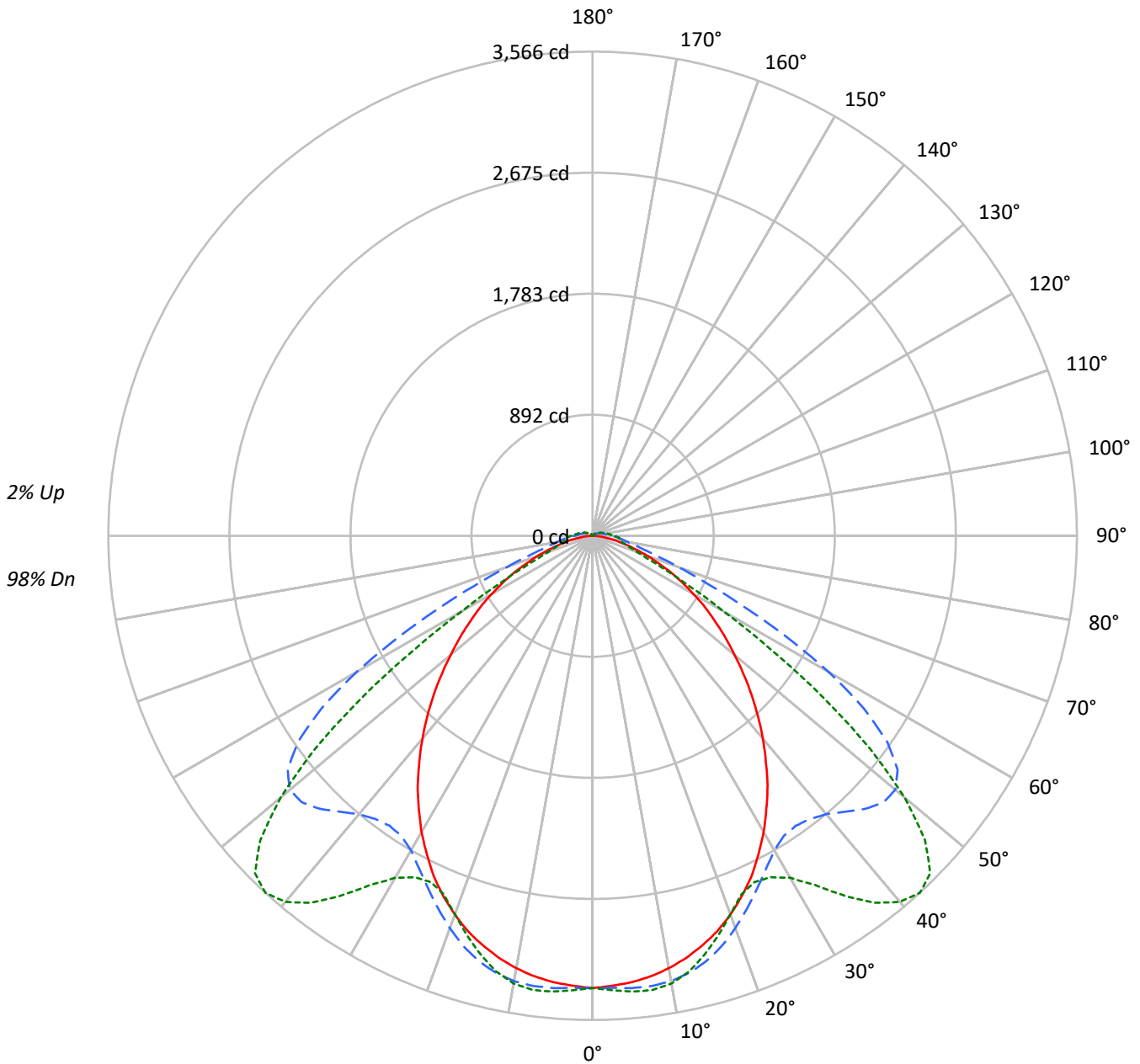
Lumens per Lamp: N/A
Luminaire Lumens: 9975.0 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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: P829800

CATALOG NUMBER: OHBL-12SE-W-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829800

CATALOG NUMBER: OHBL-12SE-W-UNV-L935-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 | 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° | 10838 | 10838 | 10838 |
| 5° | 10738 | 10763 | 10824 |
| 10° | 10602 | 10688 | 10701 |
| 15° | 10396 | 10453 | 10227 |
| 20° | 10113 | 10037 | 9599 |
| 25° | 9733 | 9548 | 9279 |
| 30° | 9229 | 9171 | 9842 |
| 35° | 8653 | 9279 | 11339 |
| 40° | 7986 | 9976 | 12885 |
| 45° | 7288 | 11224 | 13586 |
| 50° | 6560 | 12295 | 12366 |
| 55° | 5876 | 12145 | 9204 |
| 60° | 5179 | 10140 | 5450 |
| 65° | 4444 | 6885 | 3170 |
| 70° | 3610 | 4354 | 2168 |
| 75° | 2746 | 3025 | 1859 |
| 80° | 1971 | 2532 | 1851 |
| 85° | 1338 | 2557 | 2305 |



TEST NUMBER: P829800

CATALOG NUMBER: OHBL-12SE-W-UNV-L935-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 318.4 | 3.2 |
| 10°-20° | 901.5 | 9.0 |
| 20°-30° | 1319.2 | 13.2 |
| 30°-40° | 1713.2 | 17.2 |
| 40°-50° | 2092.1 | 21.0 |
| 50°-60° | 1842.4 | 18.5 |
| 60°-70° | 960.1 | 9.6 |
| 70°-80° | 411.7 | 4.1 |
| 80°-90° | 197.7 | 2.0 |
| 90°-100° | 92.9 | 0.9 |
| 100°-110° | 57.8 | 0.6 |
| 110°-120° | 34.1 | 0.3 |
| 120°-130° | 18.5 | 0.2 |
| 130°-140° | 9.3 | 0.1 |
| 140°-150° | 4.5 | 0.0 |
| 150°-160° | 1.6 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2539.0 | 25.5 |
| 0°-40° | 4252.3 | 42.6 |
| 0°-60° | 8186.8 | 82.1 |
| 0°-90° | 9756.3 | 97.8 |
| 90°-120° | 184.8 | 1.9 |
| 90°-150° | 217.1 | 2.2 |
| 90°-180° | 219.0 | 2.2 |
| 0°-180° | 9975.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3332 | 3332 | 3332 | 3332 | 3332 | |
| 5° | 3301 | 3326 | 3344 | 3373 | 3370 | 313 |
| 15° | 3123 | 3211 | 3242 | 3217 | 3191 | 879 |
| 25° | 2767 | 2915 | 2866 | 2812 | 2815 | 1270 |
| 35° | 2246 | 2483 | 2608 | 3041 | 3236 | 1400 |
| 45° | 1654 | 2081 | 2844 | 3444 | 3516 | 1275 |
| 55° | 1101 | 1823 | 2649 | 2322 | 2064 | 988 |
| 65° | 632 | 1263 | 1213 | 674 | 580 | 625 |
| 75° | 254 | 591 | 390 | 267 | 253 | 277 |
| 85° | 54 | 211 | 198 | 194 | 196 | 60 |
| 90° | 1 | 76 | 131 | 150 | 153 | 4 |
| 95° | 1 | 45 | 104 | 122 | 126 | 1 |
| 105° | 3 | 25 | 68 | 81 | 83 | 3 |
| 115° | 4 | 14 | 42 | 51 | 52 | 4 |
| 125° | 5 | 7 | 24 | 32 | 32 | 4 |
| 135° | 4 | 4 | 12 | 19 | 20 | 3 |
| 145° | 6 | 4 | 5 | 9 | 11 | 3 |
| 155° | 6 | 6 | 4 | 4 | 4 | 2 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P829800

CATALOG NUMBER: OHBL-12SE-W-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3331.5 | 3331.5 | 3331.5 | 3331.5 | 3331.5 |
| 2.5° | 3317.1 | 3331.5 | 3332.2 | 3352.3 | 3350.2 |
| 5° | 3300.6 | 3325.7 | 3343.7 | 3373.2 | 3369.6 |
| 7.5° | 3273.2 | 3312.8 | 3344.4 | 3376.7 | 3373.9 |
| 10° | 3234.4 | 3288.3 | 3330.0 | 3356.6 | 3348.0 |
| 12.5° | 3184.1 | 3255.3 | 3296.2 | 3302.0 | 3285.5 |
| 15° | 3123.0 | 3210.7 | 3241.6 | 3217.2 | 3191.3 |
| 17.5° | 3054.0 | 3156.8 | 3167.6 | 3114.4 | 3082.1 |
| 20° | 2967.8 | 3084.9 | 3074.2 | 3000.8 | 2964.9 |
| 22.5° | 2872.2 | 3005.9 | 2971.4 | 2894.5 | 2860.0 |
| 25° | 2767.2 | 2915.3 | 2865.7 | 2811.8 | 2814.7 |
| 27.5° | 2644.3 | 2812.5 | 2764.4 | 2788.8 | 2834.8 |
| 30° | 2519.3 | 2704.7 | 2675.2 | 2817.6 | 2908.1 |
| 32.5° | 2382.0 | 2594.0 | 2620.6 | 2901.6 | 3049.7 |
| 35° | 2246.1 | 2483.3 | 2607.7 | 3041.1 | 3235.9 |
| 37.5° | 2095.9 | 2371.2 | 2628.5 | 3202.1 | 3406.2 |
| 40° | 1950.0 | 2261.9 | 2676.0 | 3346.6 | 3519.1 |
| 42.5° | 1801.2 | 2164.2 | 2755.7 | 3432.1 | 3566.5 |
| 45° | 1653.9 | 2080.8 | 2844.1 | 3443.6 | 3515.5 |
| 47.5° | 1506.5 | 2010.4 | 2905.2 | 3352.3 | 3319.2 |
| 50° | 1364.2 | 1947.8 | 2909.6 | 3133.1 | 2998.0 |
| 52.5° | 1231.2 | 1890.3 | 2830.5 | 2783.8 | 2573.9 |
| 55° | 1101.1 | 1822.8 | 2648.6 | 2322.3 | 2064.3 |
| 57.5° | 982.5 | 1729.3 | 2368.3 | 1826.4 | 1544.6 |
| 60° | 856.8 | 1602.8 | 2006.1 | 1336.2 | 1114.1 |
| 62.5° | 741.0 | 1445.4 | 1600.0 | 930.1 | 800.7 |
| 65° | 631.8 | 1262.9 | 1212.6 | 674.2 | 580.0 |
| 67.5° | 516.1 | 1073.8 | 894.9 | 491.6 | 431.3 |
| 70° | 425.5 | 898.5 | 666.3 | 382.4 | 347.2 |
| 72.5° | 332.8 | 731.7 | 498.1 | 310.5 | 291.1 |
| 75° | 254.4 | 590.8 | 389.6 | 266.7 | 253.0 |
| 77.5° | 187.6 | 467.2 | 313.4 | 235.8 | 222.8 |
| 80° | 131.5 | 368.0 | 262.3 | 210.6 | 205.6 |
| 82.5° | 88.4 | 284.6 | 223.5 | 200.5 | 201.3 |
| 85° | 53.9 | 210.6 | 198.4 | 194.1 | 196.2 |
| 87.5° | 25.9 | 149.5 | 170.3 | 176.8 | 179.0 |
| 90° | 0.7 | 76.2 | 130.8 | 149.5 | 153.1 |
| 92.5° | 0.0 | 58.2 | 115.0 | 133.7 | 137.3 |
| 95° | 1.4 | 44.6 | 104.2 | 122.2 | 125.8 |
| 97.5° | 1.4 | 36.7 | 93.4 | 112.1 | 114.3 |
| 100° | 2.2 | 31.6 | 83.4 | 101.3 | 103.5 |
| 102.5° | 2.2 | 28.0 | 74.8 | 90.6 | 92.0 |
| 105° | 2.9 | 25.2 | 67.6 | 81.2 | 82.7 |



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CATALOG NUMBER: OHBL-12SE-W-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 4.3 | 17.3 | 47.4 | 57.5 | 58.9 |
| 115° | 4.3 | 14.4 | 41.7 | 51.0 | 52.5 |
| 117.5° | 5.0 | 12.9 | 36.7 | 45.3 | 46.0 |
| 120° | 5.0 | 10.8 | 31.6 | 40.3 | 41.0 |
| 122.5° | 5.0 | 8.6 | 28.0 | 35.9 | 36.7 |
| 125° | 5.0 | 7.2 | 24.4 | 31.6 | 32.3 |
| 127.5° | 4.3 | 5.0 | 20.8 | 28.0 | 28.8 |
| 130° | 4.3 | 4.3 | 17.3 | 24.4 | 25.9 |
| 132.5° | 4.3 | 4.3 | 14.4 | 21.6 | 23.0 |
| 135° | 4.3 | 4.3 | 11.5 | 19.4 | 20.1 |
| 137.5° | 4.3 | 4.3 | 9.3 | 16.5 | 18.0 |
| 140° | 4.3 | 4.3 | 7.2 | 14.4 | 15.1 |
| 142.5° | 5.0 | 4.3 | 6.5 | 12.2 | 12.9 |
| 145° | 5.8 | 4.3 | 5.0 | 9.3 | 10.8 |
| 147.5° | 5.8 | 5.0 | 5.0 | 7.9 | 8.6 |
| 150° | 5.8 | 5.8 | 4.3 | 5.8 | 7.2 |
| 152.5° | 5.8 | 5.8 | 4.3 | 4.3 | 5.8 |
| 155° | 5.8 | 5.8 | 4.3 | 4.3 | 4.3 |
| 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° | 3.6 | 22.3 | 60.4 | 72.6 | 74.0 |
| 110° | 3.6 | 19.4 | 53.2 | 64.7 | 66.1 |



(END OF REPORT)