

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: P829869

Luminaire Tested: **OHBL-15SE-W-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829869
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-15SE-W-UNV-L840-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

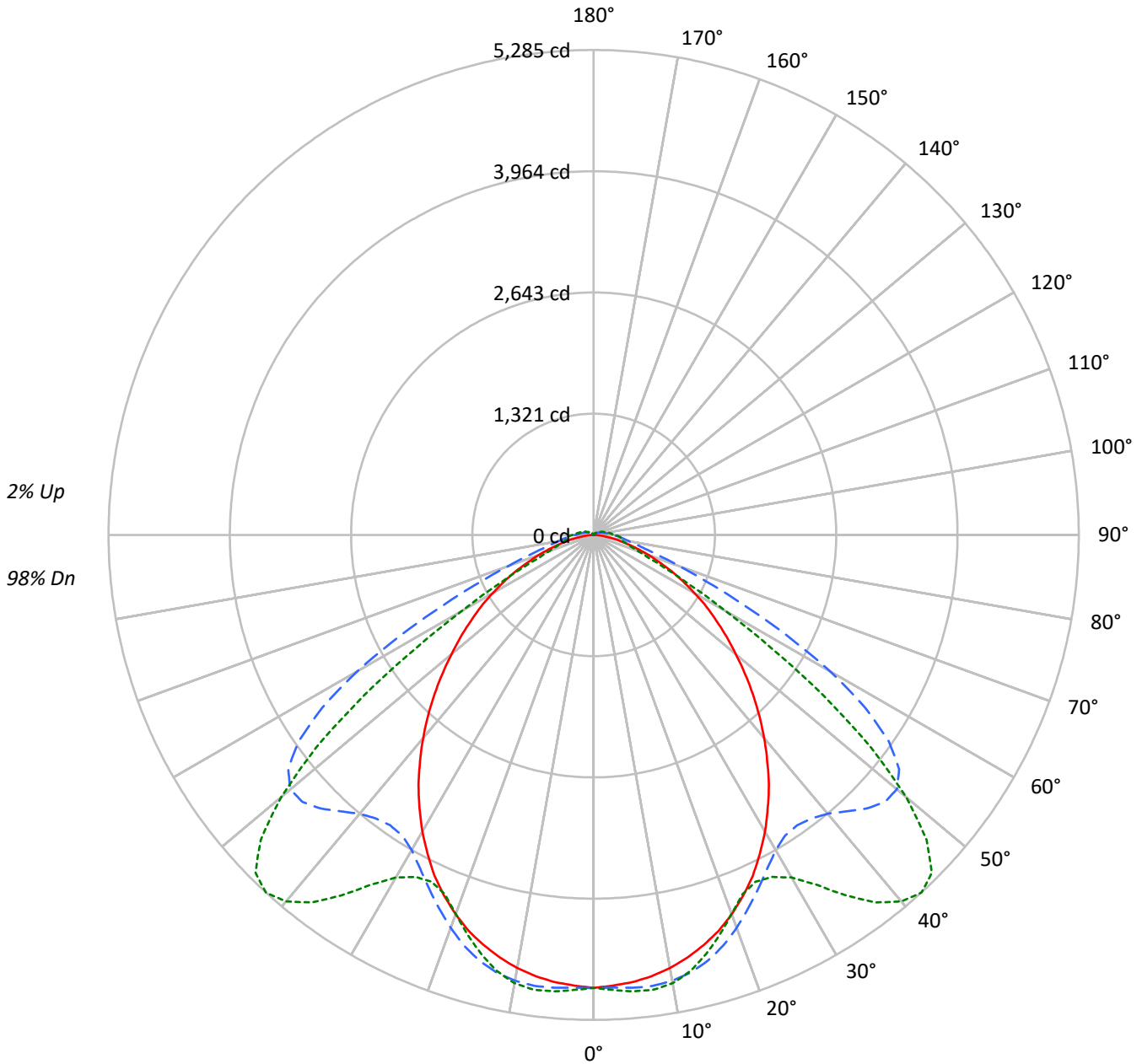
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14781.0 lumens
Efficiency: N/A
Efficacy: 169.9 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): 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: P829869
CATALOG NUMBER: OHBL-15SE-W-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829869

CATALOG NUMBER: OHBL-15SE-W-UNV-L840-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° | 16060 | 16060 | 16060 |
| 5° | 15911 | 15949 | 16039 |
| 10° | 15711 | 15838 | 15856 |
| 15° | 15405 | 15490 | 15154 |
| 20° | 14985 | 14873 | 14224 |
| 25° | 14423 | 14149 | 13750 |
| 30° | 13676 | 13590 | 14584 |
| 35° | 12823 | 13749 | 16802 |
| 40° | 11834 | 14782 | 19094 |
| 45° | 10799 | 16631 | 20132 |
| 50° | 9721 | 18219 | 18324 |
| 55° | 8707 | 17998 | 13639 |
| 60° | 7675 | 15025 | 8077 |
| 65° | 6584 | 10202 | 4697 |
| 70° | 5349 | 6451 | 3212 |
| 75° | 4069 | 4482 | 2754 |
| 80° | 2921 | 3752 | 2743 |
| 85° | 1983 | 3789 | 3416 |



TEST NUMBER: P829869

CATALOG NUMBER: OHBL-15SE-W-UNV-L840-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 471.7 | 3.2 |
| 10°-20° | 1335.8 | 9.0 |
| 20°-30° | 1954.8 | 13.2 |
| 30°-40° | 2538.7 | 17.2 |
| 40°-50° | 3100.1 | 21.0 |
| 50°-60° | 2730.1 | 18.5 |
| 60°-70° | 1422.7 | 9.6 |
| 70°-80° | 610.1 | 4.1 |
| 80°-90° | 293.0 | 2.0 |
| 90°-100° | 137.7 | 0.9 |
| 100°-110° | 85.6 | 0.6 |
| 110°-120° | 50.6 | 0.3 |
| 120°-130° | 27.5 | 0.2 |
| 130°-140° | 13.8 | 0.1 |
| 140°-150° | 6.6 | 0.0 |
| 150°-160° | 2.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 3762.4 | 25.5 |
| 0°-40° | 6301.1 | 42.6 |
| 0°-60° | 12131.2 | 82.1 |
| 0°-90° | 14456.9 | 97.8 |
| 90°-120° | 273.8 | 1.9 |
| 90°-150° | 321.8 | 2.2 |
| 90°-180° | 324.0 | 2.2 |
| 0°-180° | 14781.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4937 | 4937 | 4937 | 4937 | 4937 | |
| 5° | 4891 | 4928 | 4955 | 4998 | 4993 | 464 |
| 15° | 4628 | 4758 | 4804 | 4767 | 4729 | 1303 |
| 25° | 4100 | 4320 | 4246 | 4166 | 4171 | 1882 |
| 35° | 3328 | 3680 | 3864 | 4506 | 4795 | 2074 |
| 45° | 2451 | 3083 | 4214 | 5103 | 5209 | 1890 |
| 55° | 1632 | 2701 | 3925 | 3441 | 3059 | 1464 |
| 65° | 936 | 1871 | 1797 | 999 | 860 | 926 |
| 75° | 377 | 876 | 577 | 395 | 375 | 411 |
| 85° | 80 | 312 | 294 | 288 | 291 | 89 |
| 90° | 1 | 113 | 194 | 222 | 227 | 6 |
| 95° | 2 | 66 | 154 | 181 | 186 | 2 |
| 105° | 4 | 37 | 100 | 120 | 122 | 4 |
| 115° | 6 | 21 | 62 | 76 | 78 | 7 |
| 125° | 8 | 11 | 36 | 47 | 48 | 6 |
| 135° | 6 | 6 | 17 | 29 | 30 | 5 |
| 145° | 8 | 6 | 8 | 14 | 16 | 5 |
| 155° | 8 | 8 | 6 | 6 | 6 | 3 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P829869

CATALOG NUMBER: OHBL-15SE-W-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4936.6 | 4936.6 | 4936.6 | 4936.6 | 4936.6 |
| 2.5° | 4915.3 | 4936.6 | 4937.6 | 4967.5 | 4964.3 |
| 5° | 4890.8 | 4928.1 | 4954.7 | 4998.4 | 4993.0 |
| 7.5° | 4850.3 | 4908.9 | 4955.8 | 5003.7 | 4999.4 |
| 10° | 4792.8 | 4872.7 | 4934.5 | 4973.9 | 4961.1 |
| 12.5° | 4718.2 | 4823.7 | 4884.4 | 4892.9 | 4868.4 |
| 15° | 4627.7 | 4757.7 | 4803.5 | 4767.2 | 4728.9 |
| 17.5° | 4525.5 | 4677.8 | 4693.7 | 4614.9 | 4567.0 |
| 20° | 4397.7 | 4571.3 | 4555.3 | 4446.7 | 4393.4 |
| 22.5° | 4256.0 | 4454.1 | 4403.0 | 4289.0 | 4237.9 |
| 25° | 4100.5 | 4319.9 | 4246.4 | 4166.5 | 4170.8 |
| 27.5° | 3918.4 | 4167.6 | 4096.2 | 4132.5 | 4200.6 |
| 30° | 3733.1 | 4007.8 | 3964.2 | 4175.1 | 4309.3 |
| 32.5° | 3529.6 | 3843.8 | 3883.2 | 4299.7 | 4519.1 |
| 35° | 3328.3 | 3679.8 | 3864.1 | 4506.3 | 4794.9 |
| 37.5° | 3105.7 | 3513.7 | 3894.9 | 4744.9 | 5047.4 |
| 40° | 2889.5 | 3351.8 | 3965.2 | 4959.0 | 5214.6 |
| 42.5° | 2669.1 | 3206.9 | 4083.5 | 5085.7 | 5284.9 |
| 45° | 2450.7 | 3083.4 | 4214.5 | 5102.7 | 5209.2 |
| 47.5° | 2232.4 | 2979.0 | 4305.0 | 4967.5 | 4918.5 |
| 50° | 2021.5 | 2886.3 | 4311.4 | 4642.6 | 4442.4 |
| 52.5° | 1824.5 | 2801.1 | 4194.2 | 4125.0 | 3814.0 |
| 55° | 1631.7 | 2701.0 | 3924.8 | 3441.2 | 3058.9 |
| 57.5° | 1455.9 | 2562.6 | 3509.4 | 2706.3 | 2288.8 |
| 60° | 1269.6 | 2375.1 | 2972.6 | 1980.0 | 1650.9 |
| 62.5° | 1098.1 | 2141.8 | 2370.8 | 1378.2 | 1186.5 |
| 65° | 936.2 | 1871.3 | 1796.8 | 999.0 | 859.5 |
| 67.5° | 764.7 | 1591.2 | 1326.0 | 728.5 | 639.0 |
| 70° | 630.5 | 1331.3 | 987.3 | 566.6 | 514.4 |
| 72.5° | 493.1 | 1084.2 | 738.1 | 460.1 | 431.4 |
| 75° | 377.0 | 875.5 | 577.3 | 395.1 | 374.9 |
| 77.5° | 278.0 | 692.3 | 464.4 | 349.3 | 330.2 |
| 80° | 194.9 | 545.3 | 388.7 | 312.1 | 304.6 |
| 82.5° | 131.0 | 421.8 | 331.2 | 297.2 | 298.2 |
| 85° | 79.9 | 312.1 | 294.0 | 287.6 | 290.8 |
| 87.5° | 38.3 | 221.5 | 252.4 | 262.0 | 265.2 |
| 90° | 1.1 | 112.9 | 193.8 | 221.5 | 226.9 |
| 92.5° | 0.0 | 86.3 | 170.4 | 198.1 | 203.4 |
| 95° | 2.1 | 66.0 | 154.4 | 181.1 | 186.4 |
| 97.5° | 2.1 | 54.3 | 138.5 | 166.2 | 169.3 |
| 100° | 3.2 | 46.9 | 123.5 | 150.2 | 153.4 |
| 102.5° | 3.2 | 41.5 | 110.8 | 134.2 | 136.3 |
| 105° | 4.3 | 37.3 | 100.1 | 120.4 | 122.5 |



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CATALOG NUMBER: OHBL-15SE-W-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 6.4 | 25.6 | 70.3 | 85.2 | 87.3 |
| 115° | 6.4 | 21.3 | 61.8 | 75.6 | 77.7 |
| 117.5° | 7.5 | 19.2 | 54.3 | 67.1 | 68.2 |
| 120° | 7.5 | 16.0 | 46.9 | 59.6 | 60.7 |
| 122.5° | 7.5 | 12.8 | 41.5 | 53.3 | 54.3 |
| 125° | 7.5 | 10.7 | 36.2 | 46.9 | 47.9 |
| 127.5° | 6.4 | 7.5 | 30.9 | 41.5 | 42.6 |
| 130° | 6.4 | 6.4 | 25.6 | 36.2 | 38.3 |
| 132.5° | 6.4 | 6.4 | 21.3 | 32.0 | 34.1 |
| 135° | 6.4 | 6.4 | 17.0 | 28.8 | 29.8 |
| 137.5° | 6.4 | 6.4 | 13.8 | 24.5 | 26.6 |
| 140° | 6.4 | 6.4 | 10.7 | 21.3 | 22.4 |
| 142.5° | 7.5 | 6.4 | 9.6 | 18.1 | 19.2 |
| 145° | 8.5 | 6.4 | 7.5 | 13.8 | 16.0 |
| 147.5° | 8.5 | 7.5 | 7.5 | 11.7 | 12.8 |
| 150° | 8.5 | 8.5 | 6.4 | 8.5 | 10.7 |
| 152.5° | 8.5 | 8.5 | 6.4 | 6.4 | 8.5 |
| 155° | 8.5 | 8.5 | 6.4 | 6.4 | 6.4 |
| 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° | 5.3 | 33.0 | 89.5 | 107.6 | 109.7 |
| 110° | 5.3 | 28.8 | 78.8 | 95.9 | 98.0 |



(END OF REPORT)