

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: P829805

Luminaire Tested: **OHBL-15SE-A-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-A-UNV-L740-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

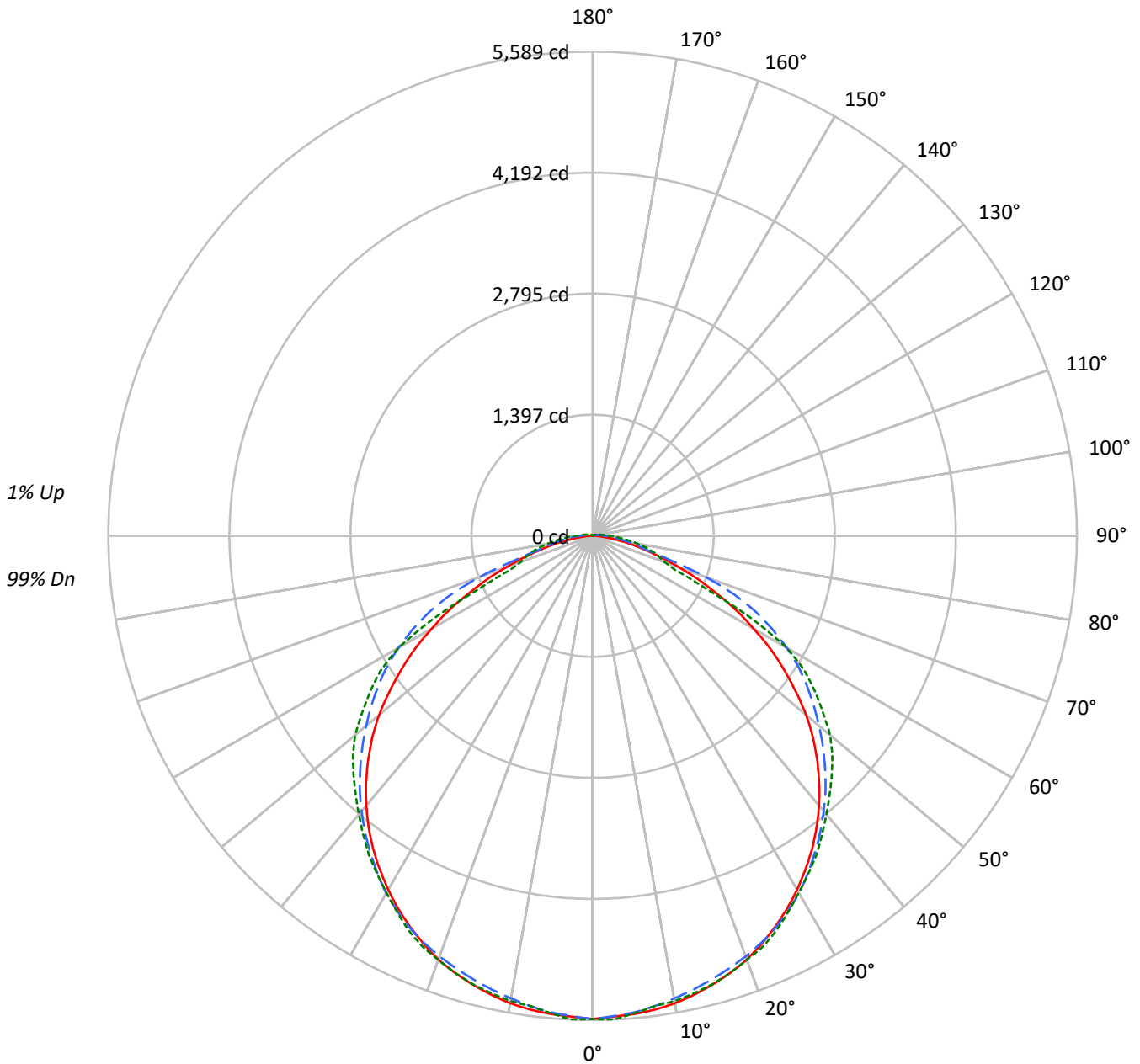
Lumens per Lamp: N/A
Luminaire Lumens: 15766.1 lumens
Efficiency: N/A
Efficacy: 181.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P829805

CATALOG NUMBER: OHBL-15SE-A-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829805

CATALOG NUMBER: OHBL-15SE-A-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 | 110 | 110 | 110 | 106 | 106 | 106 | 101 | 101 | 101 | | | | 99 | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 86 | | | | 83 | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 84 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | | | | 70 | | | | | | | | | | | | | | | | |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 65 | 61 | | | | 59 | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 62 | 57 | 53 | | | | 51 | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | | | | 44 | | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | 38 | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | | | | 34 | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | | | | 30 | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | | | | 27 | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | | | | 24 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18147 | 18147 | 18147 |
| 5° | 18028 | 17777 | 17770 |
| 10° | 17962 | 17404 | 17426 |
| 15° | 17848 | 17101 | 17164 |
| 20° | 17734 | 16872 | 16866 |
| 25° | 17521 | 16640 | 16568 |
| 30° | 17288 | 16333 | 16102 |
| 35° | 17009 | 15908 | 15770 |
| 40° | 16648 | 15467 | 15368 |
| 45° | 16146 | 14969 | 15080 |
| 50° | 15467 | 14410 | 14751 |
| 55° | 14388 | 13843 | 13968 |
| 60° | 12974 | 13074 | 12658 |
| 65° | 11129 | 11797 | 7824 |
| 70° | 8965 | 8991 | 5489 |
| 75° | 6720 | 5160 | 5321 |
| 80° | 4678 | 4072 | 4736 |
| 85° | 2663 | 3399 | 3922 |



TEST NUMBER: P829805

CATALOG NUMBER: OHBL-15SE-A-UNV-L740-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 526.0 | 3.3 |
| 10°-20° | 1508.2 | 9.6 |
| 20°-30° | 2303.5 | 14.6 |
| 30°-40° | 2794.9 | 17.7 |
| 40°-50° | 2929.3 | 18.6 |
| 50°-60° | 2654.4 | 16.8 |
| 60°-70° | 1779.7 | 11.3 |
| 70°-80° | 799.2 | 5.1 |
| 80°-90° | 290.0 | 1.8 |
| 90°-100° | 87.3 | 0.6 |
| 100°-110° | 41.2 | 0.3 |
| 110°-120° | 20.6 | 0.1 |
| 120°-130° | 11.4 | 0.1 |
| 130°-140° | 7.8 | 0.0 |
| 140°-150° | 5.3 | 0.0 |
| 150°-160° | 3.9 | 0.0 |
| 160°-170° | 2.5 | 0.0 |
| 170°-180° | 0.8 | 0.0 |
| 0°-30° | 4337.6 | 27.5 |
| 0°-40° | 7132.6 | 45.2 |
| 0°-60° | 12716.3 | 80.7 |
| 0°-90° | 15585.2 | 98.9 |
| 90°-120° | 149.1 | 0.9 |
| 90°-150° | 173.6 | 1.1 |
| 90°-180° | 181.0 | 1.1 |
| 0°-180° | 15766.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5578 | 5578 | 5578 | 5578 | 5578 | |
| 5° | 5542 | 5561 | 5522 | 5539 | 5532 | 527 |
| 15° | 5362 | 5341 | 5303 | 5350 | 5356 | 1514 |
| 25° | 4981 | 4959 | 4994 | 5040 | 5026 | 2296 |
| 35° | 4415 | 4426 | 4471 | 4518 | 4500 | 2760 |
| 45° | 3664 | 3724 | 3793 | 3890 | 3902 | 2823 |
| 55° | 2696 | 2826 | 3019 | 3140 | 3133 | 2407 |
| 65° | 1582 | 1830 | 2078 | 1753 | 1432 | 1577 |
| 75° | 623 | 903 | 665 | 680 | 724 | 680 |
| 85° | 107 | 206 | 264 | 319 | 334 | 131 |
| 90° | 1 | 69 | 136 | 171 | 179 | 6 |
| 95° | 1 | 43 | 94 | 114 | 117 | 1 |
| 105° | 3 | 19 | 46 | 56 | 58 | 4 |
| 115° | 6 | 10 | 23 | 30 | 32 | 6 |
| 125° | 6 | 6 | 14 | 17 | 18 | 6 |
| 135° | 7 | 8 | 9 | 13 | 14 | 6 |
| 145° | 7 | 8 | 8 | 9 | 10 | 5 |
| 155° | 8 | 9 | 9 | 9 | 8 | 4 |
| 165° | 9 | 9 | 9 | 9 | 9 | 2 |
| 175° | 9 | 9 | 8 | 7 | 7 | 1 |
| 180° | 8 | 8 | 8 | 8 | 8 | |



TEST NUMBER: P829805

CATALOG NUMBER: OHBL-15SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5578.0 | 5578.0 | 5578.0 | 5578.0 | 5578.0 |
| 2.5° | 5555.4 | 5578.8 | 5549.8 | 5581.3 | 5589.3 |
| 5° | 5541.7 | 5561.1 | 5522.4 | 5539.3 | 5532.1 |
| 7.5° | 5516.7 | 5523.2 | 5477.2 | 5490.9 | 5476.4 |
| 10° | 5479.6 | 5476.4 | 5422.4 | 5449.0 | 5452.2 |
| 12.5° | 5424.8 | 5415.1 | 5366.7 | 5407.0 | 5407.8 |
| 15° | 5361.9 | 5340.9 | 5303.0 | 5349.8 | 5356.2 |
| 17.5° | 5289.3 | 5261.9 | 5236.9 | 5297.3 | 5287.7 |
| 20° | 5204.6 | 5172.3 | 5167.5 | 5233.6 | 5209.4 |
| 22.5° | 5099.7 | 5074.7 | 5086.0 | 5148.9 | 5133.6 |
| 25° | 4981.2 | 4959.4 | 4994.1 | 5040.1 | 5025.5 |
| 27.5° | 4856.2 | 4843.3 | 4882.8 | 4918.3 | 4890.0 |
| 30° | 4719.1 | 4711.8 | 4764.2 | 4793.3 | 4757.8 |
| 32.5° | 4569.9 | 4572.3 | 4622.3 | 4661.8 | 4628.7 |
| 35° | 4415.0 | 4425.5 | 4470.6 | 4518.2 | 4500.5 |
| 37.5° | 4244.8 | 4268.2 | 4313.4 | 4367.4 | 4348.9 |
| 40° | 4065.0 | 4098.8 | 4148.8 | 4214.2 | 4197.2 |
| 42.5° | 3870.6 | 3913.3 | 3977.9 | 4050.4 | 4048.8 |
| 45° | 3664.1 | 3723.8 | 3793.2 | 3889.9 | 3902.0 |
| 47.5° | 3449.6 | 3516.5 | 3604.4 | 3733.5 | 3752.0 |
| 50° | 3216.5 | 3300.4 | 3410.0 | 3564.9 | 3576.2 |
| 52.5° | 2956.8 | 3071.3 | 3216.5 | 3364.9 | 3351.2 |
| 55° | 2696.3 | 2826.1 | 3018.9 | 3139.9 | 3132.6 |
| 57.5° | 2436.6 | 2582.5 | 2816.4 | 2902.7 | 2901.9 |
| 60° | 2146.2 | 2330.9 | 2586.6 | 2651.9 | 2587.4 |
| 62.5° | 1877.6 | 2076.0 | 2341.4 | 2293.8 | 2072.8 |
| 65° | 1582.4 | 1830.0 | 2077.6 | 1753.4 | 1431.6 |
| 67.5° | 1320.3 | 1578.4 | 1764.7 | 1200.9 | 1028.3 |
| 70° | 1056.6 | 1341.3 | 1376.0 | 891.2 | 879.1 |
| 72.5° | 822.7 | 1125.9 | 949.3 | 763.0 | 801.7 |
| 75° | 622.6 | 903.3 | 664.6 | 679.9 | 724.3 |
| 77.5° | 454.1 | 693.6 | 517.0 | 596.0 | 632.3 |
| 80° | 312.1 | 491.2 | 421.8 | 500.9 | 525.9 |
| 82.5° | 196.0 | 324.2 | 337.9 | 403.3 | 429.1 |
| 85° | 107.3 | 205.7 | 263.7 | 318.6 | 333.9 |
| 87.5° | 44.4 | 124.2 | 201.6 | 246.0 | 258.9 |
| 90° | 0.8 | 68.6 | 136.3 | 171.0 | 179.1 |
| 92.5° | 0.8 | 52.4 | 111.3 | 137.9 | 143.6 |
| 95° | 0.8 | 42.7 | 93.6 | 113.7 | 116.9 |
| 97.5° | 1.6 | 33.9 | 78.2 | 94.4 | 97.6 |
| 100° | 2.4 | 28.2 | 65.3 | 79.0 | 81.5 |
| 102.5° | 3.2 | 22.6 | 54.8 | 66.1 | 68.6 |
| 105° | 3.2 | 18.6 | 46.0 | 55.7 | 58.1 |



TEST NUMBER: P829805

CATALOG NUMBER: OHBL-15SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 5.6 | 11.3 | 27.4 | 34.7 | 36.3 |
| 115° | 6.5 | 9.7 | 23.4 | 29.8 | 31.5 |
| 117.5° | 6.5 | 8.1 | 20.2 | 25.0 | 26.6 |
| 120° | 6.5 | 7.3 | 17.7 | 21.8 | 22.6 |
| 122.5° | 6.5 | 6.5 | 15.3 | 19.4 | 20.2 |
| 125° | 5.6 | 6.5 | 14.5 | 16.9 | 17.7 |
| 127.5° | 6.5 | 6.5 | 12.9 | 15.3 | 16.1 |
| 130° | 6.5 | 7.3 | 11.3 | 14.5 | 14.5 |
| 132.5° | 7.3 | 8.1 | 10.5 | 13.7 | 13.7 |
| 135° | 7.3 | 8.1 | 8.9 | 12.9 | 13.7 |
| 137.5° | 8.1 | 8.1 | 8.1 | 12.1 | 12.9 |
| 140° | 8.1 | 8.1 | 7.3 | 10.5 | 11.3 |
| 142.5° | 7.3 | 8.1 | 7.3 | 9.7 | 10.5 |
| 145° | 7.3 | 8.1 | 8.1 | 8.9 | 9.7 |
| 147.5° | 8.1 | 8.1 | 8.1 | 8.1 | 8.9 |
| 150° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 152.5° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 155° | 8.1 | 8.9 | 8.9 | 8.9 | 8.1 |
| 157.5° | 8.1 | 8.9 | 8.9 | 8.9 | 8.9 |
| 160° | 8.1 | 8.9 | 8.9 | 8.9 | 8.9 |
| 162.5° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 165° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 167.5° | 8.9 | 9.7 | 8.9 | 8.9 | 8.9 |
| 170° | 8.9 | 8.9 | 8.9 | 8.1 | 8.1 |
| 172.5° | 8.9 | 8.9 | 8.9 | 8.1 | 8.1 |
| 175° | 8.9 | 8.9 | 8.1 | 7.3 | 7.3 |
| 177.5° | 9.7 | 8.9 | 8.1 | 7.3 | 6.5 |
| 180° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|-----|------|------|------|------|
| 107.5° | 4.0 | 15.3 | 39.5 | 47.6 | 49.2 |
| 110° | 4.8 | 12.9 | 33.1 | 40.3 | 41.9 |



(END OF REPORT)