

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: P828611

Luminaire Tested: **OHBL-18SE-A-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P828611  
REPORT IS A COMBINATION OF REPORTS P826233 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-A-UNV-L950-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

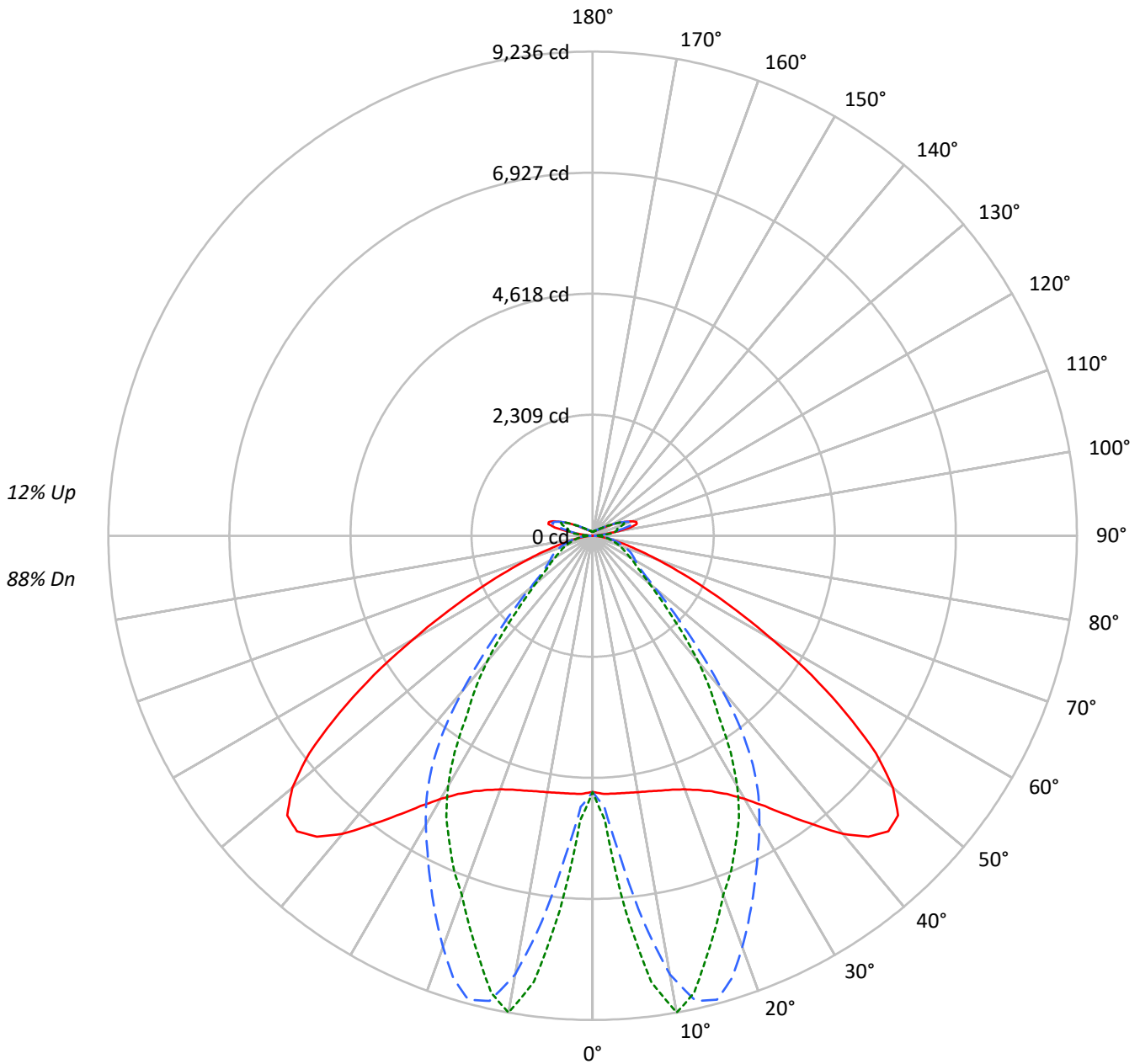
Lumens per Lamp: N/A  
Luminaire Lumens: 17788.2 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P828611

CATALOG NUMBER: OHBL-18SE-A-UNV-L950-CD-UPL24

### Luminous Intensity Polar Plot





TEST NUMBER: P828611

CATALOG NUMBER: OHBL-18SE-A-UNV-L950-CD-UPL24

**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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 91 | 91 | 91 | 88 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 108 | 104 | 100 | 97  | 104 | 100 | 97  | 94  | 94  | 92  | 89  | 88 | 86 | 84 | 83 | 81 | 80 | 77 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 93  | 87  | 82  | 96  | 90  | 85  | 80  | 84  | 80  | 77  | 80 | 76 | 73 | 75 | 72 | 70 | 67 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 92  | 83  | 76  | 71  | 89  | 81  | 74  | 69  | 76  | 71  | 66  | 72 | 68 | 64 | 68 | 64 | 61 | 59 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 85  | 75  | 67  | 61  | 82  | 73  | 66  | 60  | 69  | 63  | 58  | 65 | 60 | 56 | 62 | 58 | 54 | 52 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 79  | 68  | 60  | 54  | 76  | 66  | 59  | 53  | 63  | 56  | 52  | 60 | 54 | 50 | 57 | 52 | 49 | 46 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 73  | 62  | 54  | 48  | 71  | 60  | 53  | 47  | 57  | 51  | 46  | 55 | 49 | 45 | 52 | 47 | 44 | 42 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 68  | 56  | 49  | 43  | 66  | 55  | 48  | 43  | 53  | 46  | 42  | 50 | 45 | 40 | 48 | 43 | 39 | 37 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 64  | 52  | 44  | 39  | 62  | 51  | 43  | 38  | 48  | 42  | 38  | 46 | 41 | 37 | 44 | 40 | 36 | 34 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 60  | 48  | 40  | 35  | 58  | 47  | 40  | 35  | 45  | 39  | 34  | 43 | 37 | 33 | 41 | 36 | 33 | 31 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 56  | 44  | 37  | 32  | 55  | 43  | 37  | 32  | 42  | 36  | 31  | 40 | 35 | 31 | 38 | 34 | 30 | 28 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 8348  | 8348  | 8348  |
| 5°  | 8390  | 10499 | 12237 |
| 10° | 8465  | 14475 | 15895 |
| 15° | 8667  | 15769 | 14589 |
| 20° | 9025  | 14631 | 13038 |
| 25° | 9683  | 13158 | 11926 |
| 30° | 10798 | 11848 | 10604 |
| 35° | 12694 | 10370 | 8450  |
| 40° | 15263 | 7897  | 6725  |
| 45° | 17508 | 5380  | 4787  |
| 50° | 17749 | 3691  | 3540  |
| 55° | 15364 | 2904  | 2892  |
| 60° | 11477 | 2718  | 2602  |
| 65° | 7866  | 2726  | 2465  |
| 70° | 5029  | 2630  | 2387  |
| 75° | 3025  | 2434  | 2284  |
| 80° | 1779  | 2139  | 2357  |
| 85° | 857   | 1836  | 2184  |



TEST NUMBER: P828611

CATALOG NUMBER: OHBL-18SE-A-UNV-L950-CD-UPL24

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 638.1   | 3.6       |
| 10°-20°   | 2252.1  | 12.7      |
| 20°-30°   | 3318.5  | 18.7      |
| 30°-40°   | 3487.3  | 19.6      |
| 40°-50°   | 2668.4  | 15.0      |
| 50°-60°   | 1611.3  | 9.1       |
| 60°-70°   | 983.3   | 5.5       |
| 70°-80°   | 536.7   | 3.0       |
| 80°-90°   | 193.7   | 1.1       |
| 90°-100°  | 201.6   | 1.1       |
| 100°-110° | 699.8   | 3.9       |
| 110°-120° | 600.3   | 3.4       |
| 120°-130° | 288.0   | 1.6       |
| 130°-140° | 144.1   | 0.8       |
| 140°-150° | 83.5    | 0.5       |
| 150°-160° | 48.7    | 0.3       |
| 160°-170° | 25.2    | 0.1       |
| 170°-180° | 7.7     | 0.0       |
| 0°-30°    | 6208.7  | 34.9      |
| 0°-40°    | 9695.9  | 54.5      |
| 0°-60°    | 13975.6 | 78.6      |
| 0°-90°    | 15689.3 | 88.2      |
| 90°-120°  | 1501.7  | 8.4       |
| 90°-150°  | 2017.3  | 11.3      |
| 90°-180°  | 2099.0  | 11.8      |
| 0°-180°   | 17788.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4888 | 4888  | 4888 | 4888  | 4888 |      |
| 5°   | 4936 | 5296  | 6178 | 6899  | 7165 | 472  |
| 15°  | 5033 | 7839  | 9161 | 8549  | 8348 | 1431 |
| 25°  | 5378 | 9097  | 7314 | 6622  | 6458 | 2513 |
| 35°  | 6514 | 7285  | 5328 | 4437  | 4178 | 4133 |
| 45°  | 7973 | 4157  | 2454 | 2160  | 2069 | 6024 |
| 55°  | 5896 | 1410  | 1117 | 1036  | 1032 | 5210 |
| 65°  | 2364 | 892   | 822  | 703   | 668  | 2422 |
| 75°  | 629  | 555   | 509  | 420   | 403  | 724  |
| 85°  | 94   | 172   | 203  | 185   | 168  | 116  |
| 90°  | 4    | 30    | 41   | 54    | 60   | 8    |
| 95°  | 46   | 96    | 150  | 198   | 224  | 143  |
| 105° | 872  | 862   | 734  | 522   | 480  | 827  |
| 115° | 602  | 608   | 608  | 606   | 601  | 607  |
| 125° | 294  | 310   | 316  | 315   | 312  | 276  |
| 135° | 174  | 177   | 184  | 185   | 187  | 137  |
| 145° | 126  | 130   | 132  | 133   | 134  | 80   |
| 155° | 101  | 103   | 104  | 105   | 105  | 47   |
| 165° | 87   | 88    | 89   | 89    | 89   | 25   |
| 175° | 78   | 79    | 79   | 80    | 80   | 8    |
| 180° | 78   | 78    | 78   | 78    | 78   |      |



TEST NUMBER: P828611

CATALOG NUMBER: OHBL-18SE-A-UNV-L950-CD-UPL24

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4887.5 | 4887.5 | 4887.5 | 4887.5 | 4887.5 |
| 2.5°   | 4927.6 | 4977.8 | 5176.2 | 5381.9 | 5432.0 |
| 5°     | 4936.5 | 5296.2 | 6178.4 | 6898.7 | 7164.9 |
| 7.5°   | 4947.1 | 5812.0 | 7420.2 | 8302.1 | 8584.4 |
| 10°    | 4967.0 | 6464.2 | 8496.2 | 9129.3 | 9236.0 |
| 12.5°  | 4991.7 | 7155.3 | 9088.2 | 9065.2 | 8930.7 |
| 15°    | 5032.8 | 7838.7 | 9161.2 | 8548.8 | 8347.8 |
| 17.5°  | 5076.0 | 8416.9 | 8843.0 | 7986.6 | 7811.7 |
| 20°    | 5146.2 | 8846.2 | 8348.2 | 7487.0 | 7288.1 |
| 22.5°  | 5247.4 | 9082.2 | 7829.3 | 7035.2 | 6905.4 |
| 25°    | 5377.9 | 9097.4 | 7313.9 | 6621.6 | 6458.1 |
| 27.5°  | 5553.0 | 8886.4 | 6819.9 | 6216.5 | 6043.9 |
| 30°    | 5791.0 | 8482.3 | 6360.9 | 5728.0 | 5513.8 |
| 32.5°  | 6114.5 | 7900.7 | 5887.7 | 5138.2 | 4898.0 |
| 35°    | 6514.3 | 7285.4 | 5328.3 | 4437.4 | 4177.9 |
| 37.5°  | 6950.7 | 6602.1 | 4649.4 | 3816.8 | 3665.7 |
| 40°    | 7420.2 | 5898.1 | 3844.9 | 3236.0 | 3127.8 |
| 42.5°  | 7786.5 | 5132.8 | 3097.5 | 2689.2 | 2574.2 |
| 45°    | 7973.2 | 4157.2 | 2454.4 | 2159.8 | 2069.0 |
| 47.5°  | 7900.6 | 3227.0 | 1945.8 | 1716.1 | 1688.8 |
| 50°    | 7476.1 | 2382.8 | 1557.6 | 1413.6 | 1402.3 |
| 52.5°  | 6812.5 | 1776.0 | 1286.6 | 1197.6 | 1178.1 |
| 55°    | 5896.5 | 1409.6 | 1117.3 | 1035.6 | 1032.4 |
| 57.5°  | 4950.6 | 1197.6 | 1014.2 | 950.9  | 928.9  |
| 60°    | 3941.7 | 1067.9 | 936.0  | 864.6  | 819.9  |
| 62.5°  | 3089.7 | 977.1  | 878.6  | 781.5  | 739.8  |
| 65°    | 2363.9 | 892.4  | 822.0  | 703.4  | 667.6  |
| 67.5°  | 1762.2 | 811.7  | 752.9  | 621.2  | 600.3  |
| 70°    | 1283.9 | 728.9  | 674.0  | 552.4  | 535.9  |
| 72.5°  | 915.1  | 646.3  | 595.2  | 487.9  | 469.7  |
| 75°    | 629.4  | 555.0  | 509.1  | 420.0  | 403.1  |
| 77.5°  | 424.6  | 461.7  | 424.2  | 358.6  | 351.5  |
| 80°    | 283.5  | 366.1  | 343.1  | 303.9  | 299.5  |
| 82.5°  | 172.1  | 265.8  | 270.7  | 247.1  | 235.2  |
| 85°    | 93.7   | 172.1  | 202.8  | 184.8  | 167.6  |
| 87.5°  | 36.7   | 95.4   | 139.8  | 125.5  | 118.2  |
| 90°    | 4.3    | 29.6   | 40.9   | 53.9   | 60.0   |
| 92.5°  | 14.8   | 39.1   | 62.6   | 88.7   | 100.0  |
| 95°    | 46.1   | 96.5   | 149.5  | 198.2  | 224.3  |
| 97.5°  | 233.9  | 253.0  | 272.1  | 329.5  | 358.2  |
| 100°   | 479.9  | 509.5  | 411.2  | 434.7  | 442.5  |
| 102.5° | 741.6  | 737.3  | 537.3  | 481.7  | 474.7  |
| 105°   | 872.1  | 862.5  | 733.8  | 522.5  | 479.9  |



TEST NUMBER: P828611

CATALOG NUMBER: OHBL-18SE-A-UNV-L950-CD-UPL24

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 702.5 | 712.9 | 699.0 | 679.0 | 651.2 |
| 115°   | 601.7 | 607.7 | 607.7 | 606.0 | 600.8 |
| 117.5° | 514.7 | 515.6 | 519.1 | 518.2 | 519.1 |
| 120°   | 426.0 | 435.6 | 443.4 | 439.1 | 433.9 |
| 122.5° | 357.3 | 367.8 | 373.0 | 371.3 | 366.0 |
| 125°   | 293.9 | 309.5 | 315.6 | 314.7 | 312.1 |
| 127.5° | 248.7 | 260.0 | 268.7 | 269.5 | 268.7 |
| 130°   | 216.5 | 223.4 | 232.1 | 233.0 | 233.9 |
| 132.5° | 192.1 | 198.2 | 204.3 | 207.8 | 206.9 |
| 135°   | 173.9 | 177.4 | 183.5 | 185.2 | 186.9 |
| 137.5° | 159.1 | 161.7 | 166.9 | 169.5 | 169.5 |
| 140°   | 146.1 | 149.5 | 153.9 | 155.6 | 156.5 |
| 142.5° | 134.8 | 138.2 | 141.7 | 143.5 | 143.5 |
| 145°   | 126.1 | 129.5 | 132.2 | 133.0 | 133.9 |
| 147.5° | 118.2 | 121.7 | 123.5 | 125.2 | 125.2 |
| 150°   | 112.2 | 113.9 | 116.5 | 117.4 | 118.2 |
| 152.5° | 106.1 | 107.8 | 110.4 | 111.3 | 111.3 |
| 155°   | 100.9 | 102.6 | 104.3 | 105.2 | 105.2 |
| 157.5° | 96.5  | 98.2  | 100.0 | 100.9 | 100.9 |
| 160°   | 93.0  | 93.9  | 95.6  | 96.5  | 96.5  |
| 162.5° | 89.6  | 90.4  | 91.3  | 92.2  | 92.2  |
| 165°   | 86.9  | 87.8  | 88.7  | 88.7  | 88.7  |
| 167.5° | 84.3  | 84.3  | 85.2  | 86.1  | 86.1  |
| 170°   | 81.7  | 82.6  | 82.6  | 83.5  | 83.5  |
| 172.5° | 80.0  | 80.9  | 80.9  | 80.9  | 81.7  |
| 175°   | 78.2  | 79.1  | 79.1  | 80.0  | 80.0  |
| 177.5° | 78.2  | 78.2  | 78.2  | 78.2  | 78.2  |
| 180°   | 78.2  | 78.2  | 78.2  | 78.2  | 78.2  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 875.5 | 879.0 | 811.2 | 633.8 | 527.8 |
| 110°   | 807.7 | 815.5 | 776.4 | 709.5 | 624.3 |



(END OF REPORT)