

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: P830580

Luminaire Tested: **OHBL-48SE-NL-UNV-L935-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-NL-UNV-L935-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

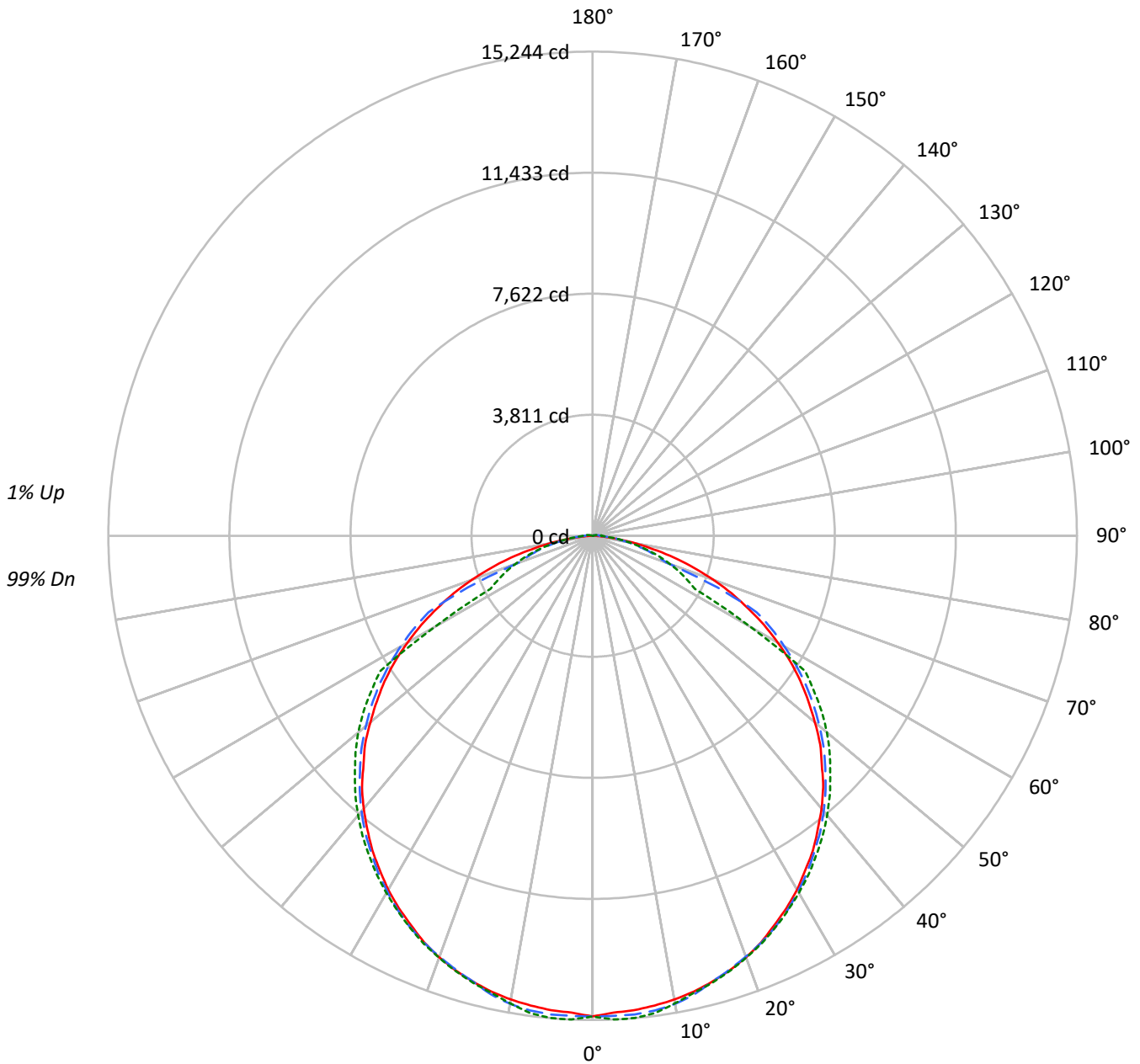
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42487.0 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
Input Voltage (V): NR  
Input Current (Ain): 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

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### Luminous Intensity Polar Plot





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**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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |    |    |    |   | 99 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 109 | 105 | 100 | 97  | 106 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  |    |    |    |   | 84 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 99  | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  |    |    |    |   | 71 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 81  | 73  | 66  | 88  | 79  | 72  | 66  | 76  | 70  | 64  | 73  | 68  | 63  | 70  | 66  | 62  |    |    |    |   | 60 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |    |    |    |   | 51 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 57  | 51  | 46  |    |    |    |   | 44 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 45  | 41  |    |    |    |   | 39 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  |    |    |    |   | 34 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 32  |    |    |    |   | 30 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  |    |    |    |   | 27 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  |    |    |    |   | 25 |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 25847 | 25847 | 25847 |
| 5°  | 25704 | 25936 | 26132 |
| 10° | 25711 | 25955 | 25923 |
| 15° | 25707 | 25702 | 25758 |
| 20° | 25671 | 25633 | 25695 |
| 25° | 25496 | 25626 | 25646 |
| 30° | 25378 | 25509 | 25609 |
| 35° | 25214 | 25352 | 25590 |
| 40° | 24996 | 25233 | 25606 |
| 45° | 24635 | 25008 | 25553 |
| 50° | 24264 | 24759 | 25576 |
| 55° | 23800 | 24417 | 25295 |
| 60° | 23003 | 23819 | 19692 |
| 65° | 21763 | 23029 | 13253 |
| 70° | 20129 | 12225 | 12863 |
| 75° | 17558 | 11617 | 12283 |
| 80° | 13502 | 10657 | 11257 |
| 85° | 6816  | 10771 | 11029 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1437.7  | 3.4       |
| 10°-20°   | 4116.4  | 9.7       |
| 20°-30°   | 6263.5  | 14.7      |
| 30°-40°   | 7615.6  | 17.9      |
| 40°-50°   | 8007.4  | 18.8      |
| 50°-60°   | 7311.7  | 17.2      |
| 60°-70°   | 4687.2  | 11.0      |
| 70°-80°   | 2214.2  | 5.2       |
| 80°-90°   | 614.0   | 1.4       |
| 90°-100°  | 162.6   | 0.4       |
| 100°-110° | 44.5    | 0.1       |
| 110°-120° | 12.3    | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 11817.6 | 27.8      |
| 0°-40°    | 19433.2 | 45.7      |
| 0°-60°    | 34752.3 | 81.8      |
| 0°-90°    | 42267.6 | 99.5      |
| 90°-120°  | 219.5   | 0.5       |
| 90°-150°  | 219.5   | 0.5       |
| 90°-180°  | 219.0   | 0.5       |
| 0°-180°   | 42487.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0°   | 15133 | 15133 | 15133 | 15133 | 15133 |      |
| 5°   | 14992 | 15050 | 15127 | 15210 | 15242 | ###  |
| 15°  | 14538 | 14647 | 14535 | 14556 | 14567 | 4104 |
| 25°  | 13529 | 13550 | 13598 | 13619 | 13608 | 6243 |
| 35°  | 12092 | 12021 | 12159 | 12308 | 12273 | 7557 |
| 45°  | 10199 | 10180 | 10353 | 10597 | 10579 | 7883 |
| 55°  | 7992  | 7931  | 8200  | 8473  | 8494  | 7128 |
| 65°  | 5385  | 5385  | 5698  | 3269  | 3279  | 5339 |
| 75°  | 2661  | 2711  | 1760  | 1854  | 1861  | 2805 |
| 85°  | 348   | 441   | 550   | 595   | 563   | 514  |
| 90°  | 0     | 149   | 244   | 289   | 284   | 15   |
| 95°  | 8     | 77    | 175   | 236   | 236   | 4    |
| 105° | 13    | 29    | 42    | 42    | 40    | 13   |
| 115° | 13    | 19    | 26    | 19    | 2     | 9    |
| 125° | 0     | 0     | 0     | 0     | 0     | 0    |
| 135° | 0     | 0     | 0     | 0     | 0     | 0    |
| 145° | 0     | 0     | 0     | 0     | 0     | 0    |
| 155° | 0     | 0     | 0     | 0     | 0     | 0    |
| 165° | 0     | 0     | 0     | 0     | 0     | 0    |
| 175° | 0     | 0     | 0     | 0     | 0     | 0    |
| 180° | 0     | 0     | 0     | 0     | 0     | 0    |



TEST NUMBER: P830580

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|--------|---------|---------|---------|---------|---------|
| 0°     | 15132.8 | 15132.8 | 15132.8 | 15132.8 | 15132.8 |
| 2.5°   | 15026.5 | 15077.1 | 15132.8 | 15204.5 | 15244.1 |
| 5°     | 14991.9 | 15050.4 | 15127.4 | 15209.8 | 15241.6 |
| 7.5°   | 14917.7 | 14999.8 | 15074.3 | 15132.8 | 15151.3 |
| 10°    | 14824.7 | 14923.1 | 14965.5 | 14960.2 | 14947.0 |
| 12.5°  | 14699.8 | 14803.6 | 14790.4 | 14729.1 | 14739.8 |
| 15°    | 14537.9 | 14646.7 | 14535.4 | 14556.5 | 14567.1 |
| 17.5°  | 14346.7 | 14453.0 | 14322.8 | 14365.3 | 14368.1 |
| 20°    | 14123.8 | 14203.4 | 14102.4 | 14137.0 | 14137.0 |
| 22.5°  | 13855.6 | 13911.3 | 13868.8 | 13892.7 | 13898.1 |
| 25°    | 13528.9 | 13550.0 | 13597.8 | 13619.2 | 13608.5 |
| 27.5°  | 13215.8 | 13189.1 | 13282.1 | 13332.4 | 13305.7 |
| 30°    | 12867.7 | 12825.3 | 12934.1 | 13016.5 | 12984.7 |
| 32.5°  | 12469.4 | 12443.0 | 12567.8 | 12665.9 | 12647.3 |
| 35°    | 12092.4 | 12020.7 | 12158.7 | 12307.5 | 12272.9 |
| 37.5°  | 11646.2 | 11603.8 | 11760.4 | 11917.2 | 11898.7 |
| 40°    | 11210.8 | 11139.1 | 11317.0 | 11502.9 | 11484.3 |
| 42.5°  | 10743.5 | 10658.4 | 10852.3 | 11075.6 | 11054.2 |
| 45°    | 10199.0 | 10180.4 | 10353.1 | 10597.4 | 10578.8 |
| 47.5°  | 9716.0  | 9623.0  | 9864.5  | 10100.9 | 10122.3 |
| 50°    | 9131.6  | 9097.3  | 9317.7  | 9604.4  | 9625.5  |
| 52.5°  | 8560.9  | 8537.0  | 8767.8  | 9057.3  | 9094.5  |
| 55°    | 7992.4  | 7931.4  | 8199.6  | 8473.2  | 8494.5  |
| 57.5°  | 7384.6  | 7320.8  | 7594.4  | 7891.8  | 7936.8  |
| 60°    | 6733.8  | 6672.8  | 6972.8  | 7249.1  | 5764.8  |
| 62.5°  | 6083.3  | 6040.9  | 6354.3  | 4500.8  | 3627.4  |
| 65°    | 5385.0  | 5385.0  | 5698.2  | 3268.7  | 3279.3  |
| 67.5°  | 4731.9  | 4689.5  | 4248.7  | 2936.7  | 2936.7  |
| 70°    | 4030.8  | 4046.8  | 2448.1  | 2573.2  | 2575.7  |
| 72.5°  | 3327.1  | 3385.6  | 2113.8  | 2214.4  | 2219.8  |
| 75°    | 2660.6  | 2711.2  | 1760.4  | 1853.5  | 1861.3  |
| 77.5°  | 1954.4  | 1502.9  | 1415.2  | 1487.2  | 1489.7  |
| 80°    | 1372.7  | 948.0   | 1083.5  | 1152.3  | 1144.5  |
| 82.5°  | 801.8   | 663.7   | 793.9   | 844.5   | 841.7   |
| 85°    | 347.8   | 440.8   | 549.6   | 594.9   | 562.8   |
| 87.5°  | 111.3   | 273.5   | 342.4   | 369.1   | 366.3   |
| 90°    | 0.0     | 148.7   | 244.3   | 289.3   | 284.2   |
| 92.5°  | 0.0     | 116.7   | 212.5   | 265.7   | 268.2   |
| 95°    | 7.9     | 77.0    | 175.4   | 236.4   | 236.4   |
| 97.5°  | 5.3     | 55.7    | 124.8   | 185.8   | 191.2   |
| 100°   | 5.3     | 45.0    | 82.4    | 132.7   | 135.5   |
| 102.5° | 13.2    | 37.1    | 50.3    | 84.9    | 87.7    |
| 105°   | 13.2    | 29.2    | 42.5    | 42.5    | 39.9    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 16.0 | 21.4  | 29.2 | 21.4  | 2.5 |
| 115°   | 13.2 | 18.6  | 26.4 | 18.6  | 2.5 |
| 117.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 120°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 122.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 125°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 127.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 130°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 132.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 135°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 137.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 140°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 142.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 145°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 147.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 150°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 152.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 155°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0 |
| 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° | 13.2 | 26.4 | 37.1 | 23.9 | 7.9 |
| 110°   | 16.0 | 23.9 | 31.8 | 21.4 | 2.5 |



(END OF REPORT)