

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: P830588

Luminaire Tested: **OHBL-48SE-W-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

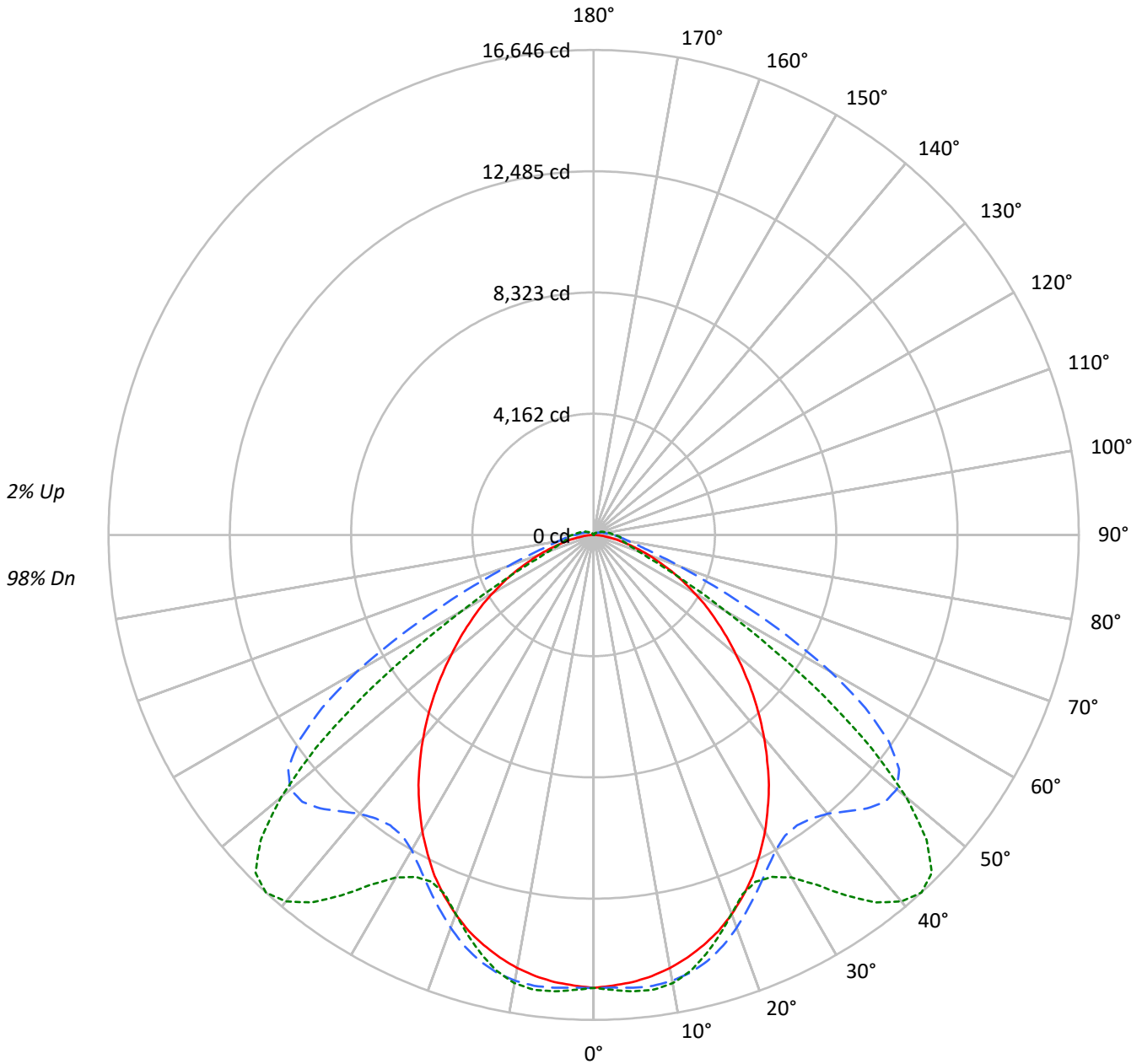
Test Method: LM-79-08  
Report Number: P830588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-W-UNV-L835-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46555.0 lumens  
Efficiency: N/A  
Efficacy: 161.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
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

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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 | 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°  | 26557 | 26557 | 26557 |
| 5°  | 26309 | 26519 | 26729 |
| 10° | 25979 | 26479 | 26631 |
| 15° | 25472 | 26041 | 25649 |
| 20° | 24778 | 25146 | 24268 |
| 25° | 23849 | 24062 | 23653 |
| 30° | 22613 | 23257 | 25307 |
| 35° | 21203 | 23686 | 29429 |
| 40° | 19568 | 25653 | 33784 |
| 45° | 17857 | 29098 | 36028 |
| 50° | 16074 | 32175 | 33219 |
| 55° | 14397 | 32134 | 25103 |
| 60° | 12690 | 27185 | 15139 |
| 65° | 10888 | 18770 | 9009  |
| 70° | 8846  | 12133 | 6347  |
| 75° | 6729  | 8693  | 5674  |
| 80° | 4831  | 7632  | 6021  |
| 85° | 3279  | 8382  | 8374  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1485.8  | 3.2       |
| 10°-20°   | 4207.4  | 9.0       |
| 20°-30°   | 6156.9  | 13.2      |
| 30°-40°   | 7996.0  | 17.2      |
| 40°-50°   | 9764.1  | 21.0      |
| 50°-60°   | 8598.8  | 18.5      |
| 60°-70°   | 4480.9  | 9.6       |
| 70°-80°   | 1921.6  | 4.1       |
| 80°-90°   | 922.8   | 2.0       |
| 90°-100°  | 433.6   | 0.9       |
| 100°-110° | 269.5   | 0.6       |
| 110°-120° | 159.3   | 0.3       |
| 120°-130° | 86.6    | 0.2       |
| 130°-140° | 43.5    | 0.1       |
| 140°-150° | 20.9    | 0.0       |
| 150°-160° | 7.3     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 11850.2 | 25.5      |
| 0°-40°    | 19846.1 | 42.6      |
| 0°-60°    | 38209.1 | 82.1      |
| 0°-90°    | 45534.4 | 97.8      |
| 90°-120°  | 862.4   | 1.9       |
| 90°-150°  | 1013.3  | 2.2       |
| 90°-180°  | 1021.0  | 2.2       |
| 0°-180°   | 46555.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0°   | 15548 | 15548 | 15548 | 15548 | 15548 |      |
| 5°   | 15404 | 15522 | 15606 | 15743 | 15726 | ###  |
| 15°  | 14576 | 14985 | 15129 | 15015 | 14894 | 4104 |
| 25°  | 12915 | 13606 | 13375 | 13123 | 13137 | 5927 |
| 35°  | 10483 | 11590 | 12170 | 14193 | 15102 | 6534 |
| 45°  | 7719  | 9712  | 13274 | 16072 | 16407 | 5952 |
| 55°  | 5139  | 8507  | 12362 | 10839 | 9634  | 4612 |
| 65°  | 2949  | 5894  | 5659  | 3147  | 2707  | 2917 |
| 75°  | 1188  | 2758  | 1818  | 1245  | 1181  | 1295 |
| 85°  | 252   | 983   | 926   | 906   | 916   | 280  |
| 90°  | 3     | 356   | 610   | 698   | 714   | 17   |
| 95°  | 7     | 208   | 486   | 570   | 587   | 5    |
| 105° | 13    | 117   | 315   | 379   | 386   | 14   |
| 115° | 20    | 67    | 195   | 238   | 245   | 21   |
| 125° | 24    | 34    | 114   | 148   | 151   | 20   |
| 135° | 20    | 20    | 54    | 91    | 94    | 16   |
| 145° | 27    | 20    | 24    | 44    | 50    | 16   |
| 155° | 27    | 27    | 20    | 20    | 20    | 8    |
| 165° | 0     | 0     | 0     | 0     | 0     | 0    |
| 175° | 0     | 0     | 0     | 0     | 0     | 0    |
| 180° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|--------|---------|---------|---------|---------|---------|
| 0°     | 15548.5 | 15548.5 | 15548.5 | 15548.5 | 15548.5 |
| 2.5°   | 15481.4 | 15548.5 | 15551.9 | 15645.8 | 15635.7 |
| 5°     | 15404.3 | 15521.7 | 15605.5 | 15743.1 | 15726.3 |
| 7.5°   | 15276.8 | 15461.3 | 15608.9 | 15759.9 | 15746.4 |
| 10°    | 15095.7 | 15347.2 | 15541.8 | 15665.9 | 15625.7 |
| 12.5°  | 14860.8 | 15192.9 | 15384.1 | 15411.0 | 15333.8 |
| 15°    | 14575.7 | 14984.9 | 15129.2 | 15015.1 | 14894.4 |
| 17.5°  | 14253.6 | 14733.4 | 14783.7 | 14535.4 | 14384.5 |
| 20°    | 13851.1 | 14397.9 | 14347.6 | 14005.4 | 13837.7 |
| 22.5°  | 13404.9 | 14028.9 | 13867.9 | 13508.9 | 13347.9 |
| 25°    | 12915.2 | 13606.2 | 13374.7 | 13123.2 | 13136.6 |
| 27.5°  | 12341.5 | 13126.5 | 12901.7 | 13015.8 | 13230.5 |
| 30°    | 11757.8 | 12623.3 | 12485.8 | 13150.0 | 13572.7 |
| 32.5°  | 11117.1 | 12106.7 | 12230.8 | 13542.5 | 14233.5 |
| 35°    | 10483.1 | 11590.1 | 12170.4 | 14193.3 | 15102.4 |
| 37.5°  | 9782.0  | 11066.8 | 12267.7 | 14944.7 | 15897.4 |
| 40°    | 9101.0  | 10556.9 | 12489.1 | 15619.0 | 16424.1 |
| 42.5°  | 8406.6  | 10100.7 | 12861.5 | 16018.2 | 16645.5 |
| 45°    | 7718.9  | 9711.5  | 13274.1 | 16071.8 | 16407.3 |
| 47.5°  | 7031.2  | 9382.8  | 13559.2 | 15645.8 | 15491.5 |
| 50°    | 6367.0  | 9090.9  | 13579.4 | 14622.7 | 13992.0 |
| 52.5°  | 5746.4  | 8822.6  | 13210.4 | 12992.3 | 12012.8 |
| 55°    | 5139.2  | 8507.2  | 12361.7 | 10838.7 | 9634.4  |
| 57.5°  | 4585.7  | 8071.1  | 11053.4 | 8524.0  | 7209.0  |
| 60°    | 3998.7  | 7480.7  | 9362.7  | 6236.2  | 5199.6  |
| 62.5°  | 3458.6  | 6746.1  | 7467.3  | 4340.8  | 3737.0  |
| 65°    | 2948.7  | 5894.0  | 5659.2  | 3146.6  | 2707.2  |
| 67.5°  | 2408.6  | 5011.8  | 4176.5  | 2294.5  | 2012.8  |
| 70°    | 1985.9  | 4193.2  | 3109.7  | 1784.6  | 1620.3  |
| 72.5°  | 1553.2  | 3415.0  | 2324.7  | 1449.2  | 1358.6  |
| 75°    | 1187.5  | 2757.5  | 1818.2  | 1244.6  | 1180.8  |
| 77.5°  | 875.5   | 2180.5  | 1462.6  | 1100.3  | 1039.9  |
| 80°    | 613.9   | 1717.5  | 1224.4  | 982.9   | 959.4   |
| 82.5°  | 412.6   | 1328.4  | 1043.3  | 935.9   | 939.3   |
| 85°    | 251.6   | 982.9   | 925.9   | 905.7   | 915.8   |
| 87.5°  | 120.8   | 697.8   | 795.0   | 825.2   | 835.3   |
| 90°    | 3.4     | 355.6   | 610.5   | 697.8   | 714.5   |
| 92.5°  | 0.0     | 271.7   | 536.7   | 624.0   | 640.7   |
| 95°    | 6.7     | 208.0   | 486.4   | 570.3   | 587.1   |
| 97.5°  | 6.7     | 171.1   | 436.1   | 523.3   | 533.4   |
| 100°   | 10.1    | 147.6   | 389.1   | 473.0   | 483.1   |
| 102.5° | 10.1    | 130.8   | 348.9   | 422.7   | 429.4   |
| 105°   | 13.4    | 117.4   | 315.3   | 379.1   | 385.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°   | 67.5° | 90°   |
|--------|------|-------|-------|-------|-------|
| 112.5° | 20.1 | 80.5  | 221.4 | 268.4 | 275.1 |
| 115°   | 20.1 | 67.1  | 194.6 | 238.2 | 244.9 |
| 117.5° | 23.5 | 60.4  | 171.1 | 211.3 | 214.7 |
| 120°   | 23.5 | 50.3  | 147.6 | 187.9 | 191.2 |
| 122.5° | 23.5 | 40.3  | 130.8 | 167.7 | 171.1 |
| 125°   | 23.5 | 33.5  | 114.1 | 147.6 | 151.0 |
| 127.5° | 20.1 | 23.5  | 97.3  | 130.8 | 134.2 |
| 130°   | 20.1 | 20.1  | 80.5  | 114.1 | 120.8 |
| 132.5° | 20.1 | 20.1  | 67.1  | 100.6 | 107.3 |
| 135°   | 20.1 | 20.1  | 53.7  | 90.6  | 93.9  |
| 137.5° | 20.1 | 20.1  | 43.6  | 77.2  | 83.9  |
| 140°   | 20.1 | 20.1  | 33.5  | 67.1  | 70.4  |
| 142.5° | 23.5 | 20.1  | 30.2  | 57.0  | 60.4  |
| 145°   | 26.8 | 20.1  | 23.5  | 43.6  | 50.3  |
| 147.5° | 26.8 | 23.5  | 23.5  | 36.9  | 40.3  |
| 150°   | 26.8 | 26.8  | 20.1  | 26.8  | 33.5  |
| 152.5° | 26.8 | 26.8  | 20.1  | 20.1  | 26.8  |
| 155°   | 26.8 | 26.8  | 20.1  | 20.1  | 20.1  |
| 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° | 16.8 | 104.0 | 281.8 | 338.8 | 345.5 |
| 110°   | 16.8 | 90.6  | 248.2 | 301.9 | 308.6 |



(END OF REPORT)