

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: P829820

Luminaire Tested: **OHBL-15SE-MCL-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

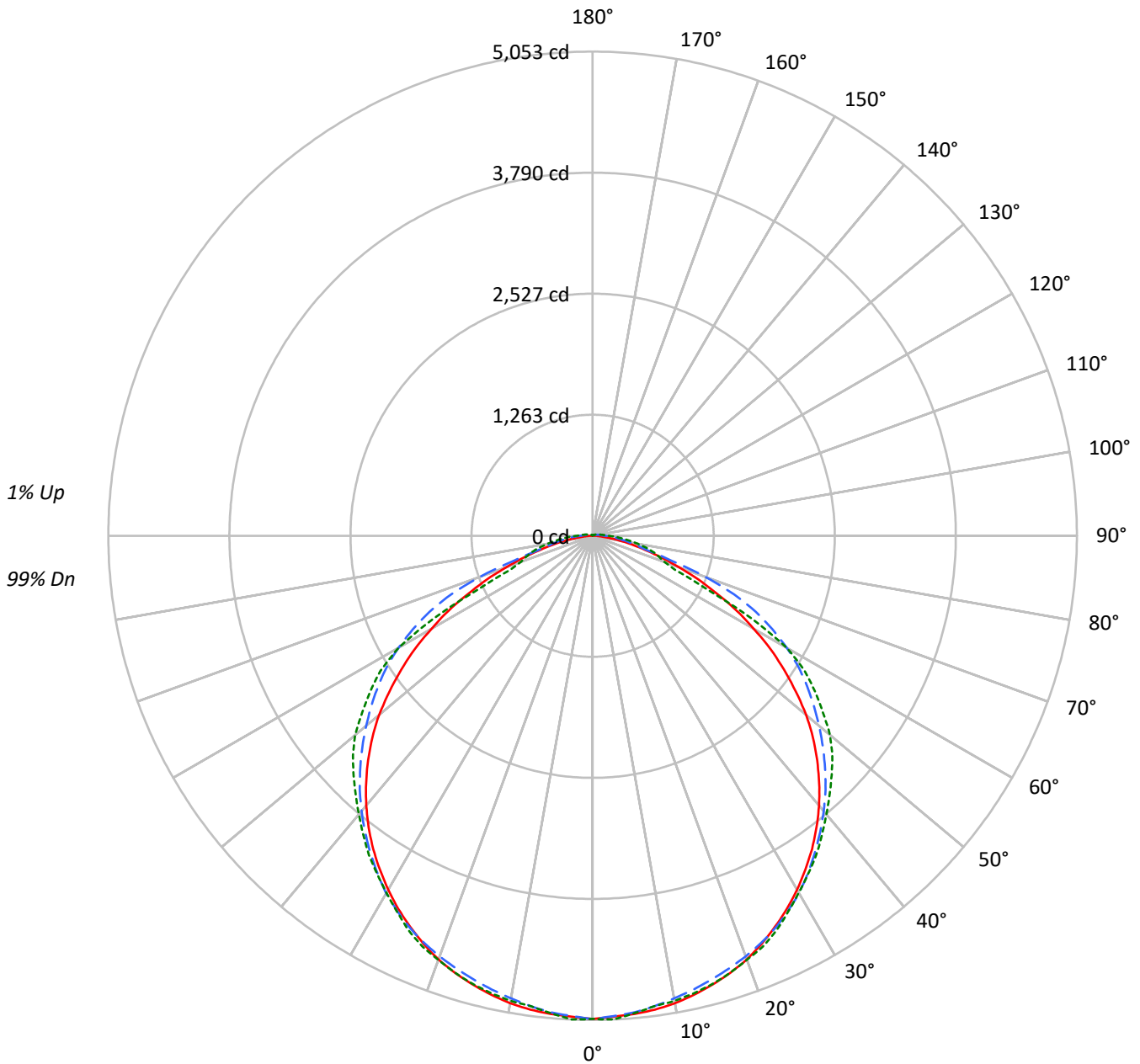
Test Method: LM-79-08  
Report Number: P829820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-MCL-UNV-L835-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14253.0 lumens  
Efficiency: N/A  
Efficacy: 163.8 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<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 | 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°  | 16406 | 16406 | 16406 |
| 5°  | 16298 | 16071 | 16065 |
| 10° | 16239 | 15734 | 15754 |
| 15° | 16136 | 15460 | 15517 |
| 20° | 16032 | 15253 | 15248 |
| 25° | 15839 | 15043 | 14978 |
| 30° | 15629 | 14766 | 14557 |
| 35° | 15377 | 14381 | 14257 |
| 40° | 15050 | 13983 | 13893 |
| 45° | 14597 | 13532 | 13633 |
| 50° | 13983 | 13027 | 13335 |
| 55° | 13007 | 12515 | 12627 |
| 60° | 11729 | 11819 | 11444 |
| 65° | 10062 | 10665 | 7073  |
| 70° | 8104  | 8128  | 4963  |
| 75° | 6076  | 4664  | 4810  |
| 80° | 4230  | 3681  | 4281  |
| 85° | 2408  | 3073  | 3546  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 475.5   | 3.3       |
| 10°-20°   | 1363.5  | 9.6       |
| 20°-30°   | 2082.4  | 14.6      |
| 30°-40°   | 2526.7  | 17.7      |
| 40°-50°   | 2648.2  | 18.6      |
| 50°-60°   | 2399.7  | 16.8      |
| 60°-70°   | 1608.9  | 11.3      |
| 70°-80°   | 722.5   | 5.1       |
| 80°-90°   | 262.2   | 1.8       |
| 90°-100°  | 78.9    | 0.6       |
| 100°-110° | 37.2    | 0.3       |
| 110°-120° | 18.7    | 0.1       |
| 120°-130° | 10.3    | 0.1       |
| 130°-140° | 7.1     | 0.0       |
| 140°-150° | 4.8     | 0.0       |
| 150°-160° | 3.5     | 0.0       |
| 160°-170° | 2.3     | 0.0       |
| 170°-180° | 0.7     | 0.0       |
| 0°-30°    | 3921.4  | 27.5      |
| 0°-40°    | 6448.1  | 45.2      |
| 0°-60°    | 11496.0 | 80.7      |
| 0°-90°    | 14089.5 | 98.9      |
| 90°-120°  | 134.8   | 0.9       |
| 90°-150°  | 156.9   | 1.1       |
| 90°-180°  | 163.0   | 1.1       |
| 0°-180°   | 14253.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5043 | 5043  | 5043 | 5043  | 5043 |      |
| 5°   | 5010 | 5027  | 4992 | 5008  | 5001 | 476  |
| 15°  | 4847 | 4828  | 4794 | 4836  | 4842 | 1369 |
| 25°  | 4503 | 4484  | 4515 | 4556  | 4543 | 2076 |
| 35°  | 3991 | 4001  | 4042 | 4085  | 4069 | 2495 |
| 45°  | 3312 | 3366  | 3429 | 3517  | 3528 | 2552 |
| 55°  | 2438 | 2555  | 2729 | 2838  | 2832 | 2176 |
| 65°  | 1431 | 1654  | 1878 | 1585  | 1294 | 1425 |
| 75°  | 563  | 817   | 601  | 615   | 655  | 615  |
| 85°  | 97   | 186   | 238  | 288   | 302  | 118  |
| 90°  | 1    | 62    | 123  | 155   | 162  | 6    |
| 95°  | 1    | 39    | 85   | 103   | 106  | 1    |
| 105° | 3    | 17    | 42   | 50    | 52   | 3    |
| 115° | 6    | 9     | 21   | 27    | 28   | 5    |
| 125° | 5    | 6     | 13   | 15    | 16   | 5    |
| 135° | 7    | 7     | 8    | 12    | 12   | 5    |
| 145° | 7    | 7     | 7    | 8     | 9    | 4    |
| 155° | 7    | 8     | 8    | 8     | 7    | 3    |
| 165° | 8    | 8     | 8    | 8     | 8    | 2    |
| 175° | 8    | 8     | 7    | 7     | 7    | 1    |
| 180° | 7    | 7     | 7    | 7     | 7    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5042.7 | 5042.7 | 5042.7 | 5042.7 | 5042.7 |
| 2.5°   | 5022.3 | 5043.5 | 5017.2 | 5045.6 | 5052.9 |
| 5°     | 5009.9 | 5027.4 | 4992.4 | 5007.7 | 5001.2 |
| 7.5°   | 4987.3 | 4993.1 | 4951.6 | 4964.0 | 4950.9 |
| 10°    | 4953.8 | 4950.9 | 4902.0 | 4926.1 | 4929.0 |
| 12.5°  | 4904.2 | 4895.4 | 4851.7 | 4888.1 | 4888.9 |
| 15°    | 4847.3 | 4828.4 | 4794.1 | 4836.4 | 4842.2 |
| 17.5°  | 4781.7 | 4756.9 | 4734.3 | 4789.0 | 4780.2 |
| 20°    | 4705.1 | 4676.0 | 4671.6 | 4731.4 | 4709.5 |
| 22.5°  | 4610.3 | 4587.7 | 4597.9 | 4654.8 | 4641.0 |
| 25°    | 4503.2 | 4483.5 | 4514.8 | 4556.4 | 4543.3 |
| 27.5°  | 4390.1 | 4378.5 | 4414.2 | 4446.3 | 4420.8 |
| 30°    | 4266.2 | 4259.6 | 4307.0 | 4333.3 | 4301.2 |
| 32.5°  | 4131.3 | 4133.5 | 4178.7 | 4214.4 | 4184.5 |
| 35°    | 3991.3 | 4000.8 | 4041.6 | 4084.6 | 4068.6 |
| 37.5°  | 3837.5 | 3858.6 | 3899.4 | 3948.3 | 3931.5 |
| 40°    | 3674.9 | 3705.5 | 3750.7 | 3809.7 | 3794.4 |
| 42.5°  | 3499.1 | 3537.8 | 3596.1 | 3661.7 | 3660.3 |
| 45°    | 3312.5 | 3366.4 | 3429.1 | 3516.6 | 3527.6 |
| 47.5°  | 3118.5 | 3179.0 | 3258.5 | 3375.2 | 3392.0 |
| 50°    | 2907.8 | 2983.6 | 3082.8 | 3222.8 | 3233.0 |
| 52.5°  | 2673.0 | 2776.6 | 2907.8 | 3042.0 | 3029.6 |
| 55°    | 2437.5 | 2554.9 | 2729.2 | 2838.5 | 2832.0 |
| 57.5°  | 2202.7 | 2334.7 | 2546.2 | 2624.2 | 2623.4 |
| 60°    | 1940.2 | 2107.2 | 2338.3 | 2397.4 | 2339.1 |
| 62.5°  | 1697.4 | 1876.8 | 2116.7 | 2073.7 | 1873.9 |
| 65°    | 1430.6 | 1654.4 | 1878.3 | 1585.1 | 1294.2 |
| 67.5°  | 1193.6 | 1426.9 | 1595.4 | 1085.7 | 929.7  |
| 70°    | 955.2  | 1212.6 | 1243.9 | 805.7  | 794.8  |
| 72.5°  | 743.7  | 1017.9 | 858.2  | 689.8  | 724.8  |
| 75°    | 562.9  | 816.6  | 600.8  | 614.7  | 654.8  |
| 77.5°  | 410.5  | 627.1  | 467.4  | 538.8  | 571.6  |
| 80°    | 282.2  | 444.0  | 381.3  | 452.8  | 475.4  |
| 82.5°  | 177.2  | 293.1  | 305.5  | 364.6  | 387.9  |
| 85°    | 97.0   | 185.9  | 238.4  | 288.0  | 301.9  |
| 87.5°  | 40.1   | 112.3  | 182.3  | 222.4  | 234.1  |
| 90°    | 0.7    | 62.0   | 123.2  | 154.6  | 161.9  |
| 92.5°  | 0.7    | 47.4   | 100.6  | 124.7  | 129.8  |
| 95°    | 0.7    | 38.6   | 84.6   | 102.8  | 105.7  |
| 97.5°  | 1.5    | 30.6   | 70.7   | 85.3   | 88.2   |
| 100°   | 2.2    | 25.5   | 59.1   | 71.5   | 73.6   |
| 102.5° | 2.9    | 20.4   | 49.6   | 59.8   | 62.0   |
| 105°   | 2.9    | 16.8   | 41.6   | 50.3   | 52.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 5.1 | 10.2  | 24.8 | 31.4  | 32.8 |
| 115°   | 5.8 | 8.7   | 21.1 | 27.0  | 28.4 |
| 117.5° | 5.8 | 7.3   | 18.2 | 22.6  | 24.1 |
| 120°   | 5.8 | 6.6   | 16.0 | 19.7  | 20.4 |
| 122.5° | 5.8 | 5.8   | 13.9 | 17.5  | 18.2 |
| 125°   | 5.1 | 5.8   | 13.1 | 15.3  | 16.0 |
| 127.5° | 5.8 | 5.8   | 11.7 | 13.9  | 14.6 |
| 130°   | 5.8 | 6.6   | 10.2 | 13.1  | 13.1 |
| 132.5° | 6.6 | 7.3   | 9.5  | 12.4  | 12.4 |
| 135°   | 6.6 | 7.3   | 8.0  | 11.7  | 12.4 |
| 137.5° | 7.3 | 7.3   | 7.3  | 10.9  | 11.7 |
| 140°   | 7.3 | 7.3   | 6.6  | 9.5   | 10.2 |
| 142.5° | 6.6 | 7.3   | 6.6  | 8.7   | 9.5  |
| 145°   | 6.6 | 7.3   | 7.3  | 8.0   | 8.7  |
| 147.5° | 7.3 | 7.3   | 7.3  | 7.3   | 8.0  |
| 150°   | 7.3 | 7.3   | 7.3  | 7.3   | 7.3  |
| 152.5° | 7.3 | 7.3   | 7.3  | 7.3   | 7.3  |
| 155°   | 7.3 | 8.0   | 8.0  | 8.0   | 7.3  |
| 157.5° | 7.3 | 8.0   | 8.0  | 8.0   | 8.0  |
| 160°   | 7.3 | 8.0   | 8.0  | 8.0   | 8.0  |
| 162.5° | 8.0 | 8.0   | 8.0  | 8.0   | 8.0  |
| 165°   | 8.0 | 8.0   | 8.0  | 8.0   | 8.0  |
| 167.5° | 8.0 | 8.7   | 8.0  | 8.0   | 8.0  |
| 170°   | 8.0 | 8.0   | 8.0  | 7.3   | 7.3  |
| 172.5° | 8.0 | 8.0   | 8.0  | 7.3   | 7.3  |
| 175°   | 8.0 | 8.0   | 7.3  | 6.6   | 6.6  |
| 177.5° | 8.7 | 8.0   | 7.3  | 6.6   | 5.8  |
| 180°   | 7.3 | 7.3   | 7.3  | 7.3   | 7.3  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |     |      |      |      |      |
|--------|-----|------|------|------|------|
| 107.5° | 3.6 | 13.9 | 35.7 | 43.0 | 44.5 |
| 110°   | 4.4 | 11.7 | 29.9 | 36.5 | 37.9 |



(END OF REPORT)