

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: P830704

Luminaire Tested: **OHBL-60SE-N-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-60SE-N-UNV-L735-CD  
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

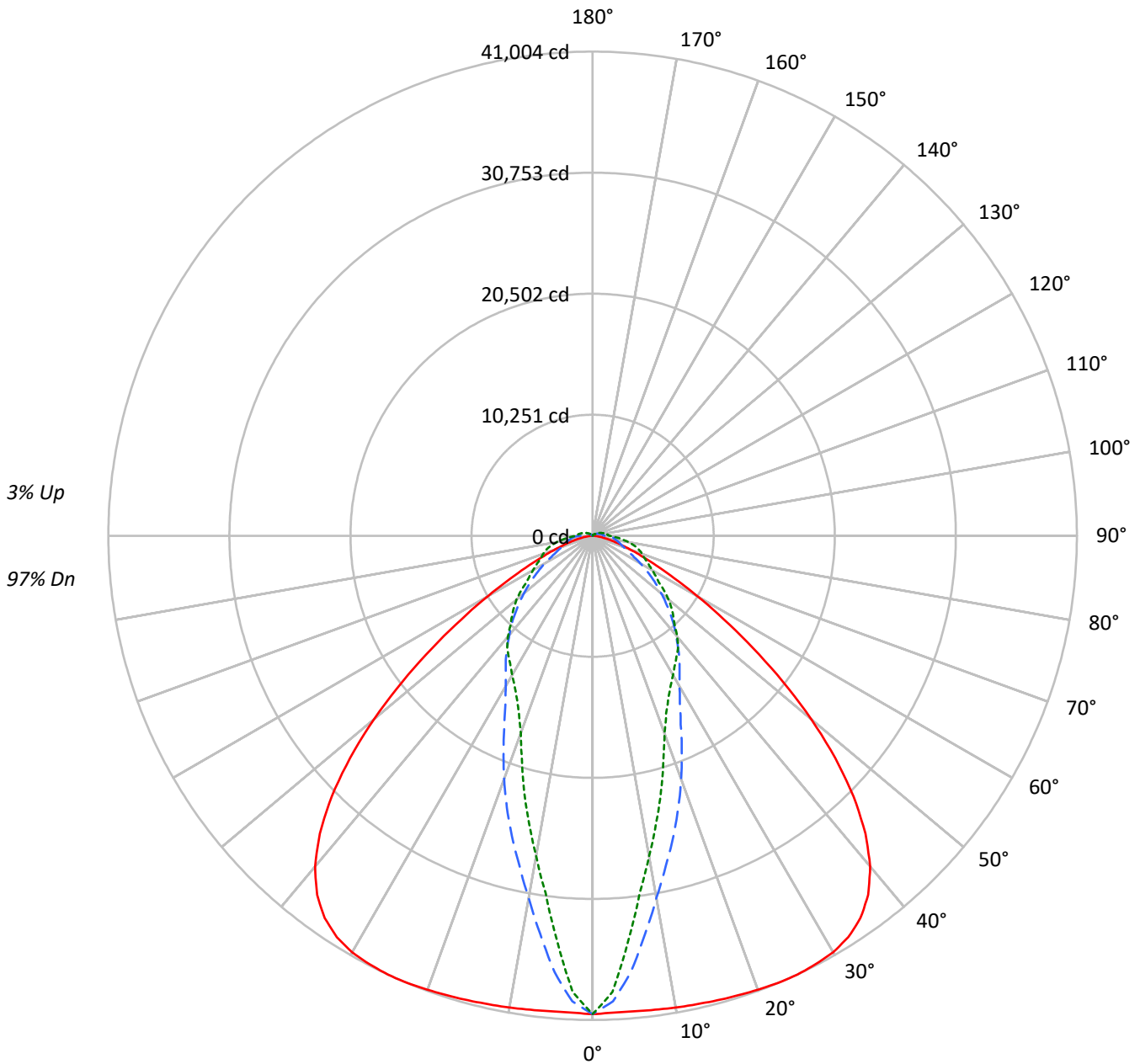
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59783.0 lumens  
Efficiency: N/A  
Efficacy: 165.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 362  
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  |     |    |    | 20 |    |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 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   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 97 |
| 1   | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 97  | 94  | 91  | 92  | 90  | 88  | 88 | 86 | 85 | 85 | 85 | 85 | 82 |
| 2   | 100 | 93  | 86  | 81  | 97  | 90  | 85  | 80  | 86  | 82  | 78  | 83  | 79  | 75  | 79 | 76 | 73 | 73 | 73 | 73 | 71 |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 69  | 78  | 72  | 67  | 74  | 70  | 65  | 72 | 67 | 64 | 64 | 64 | 64 | 62 |
| 4   | 85  | 74  | 66  | 60  | 83  | 73  | 66  | 60  | 70  | 64  | 59  | 67  | 62  | 57  | 65 | 60 | 56 | 56 | 56 | 56 | 54 |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 59  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 59 | 54 | 50 | 50 | 50 | 50 | 48 |
| 6   | 74  | 62  | 53  | 47  | 72  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 50  | 46  | 55 | 49 | 45 | 45 | 45 | 45 | 43 |
| 7   | 69  | 56  | 48  | 43  | 67  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 50 | 45 | 41 | 41 | 41 | 41 | 39 |
| 8   | 65  | 52  | 44  | 39  | 63  | 51  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 38  | 47 | 41 | 37 | 37 | 37 | 37 | 35 |
| 9   | 61  | 48  | 41  | 35  | 59  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44 | 38 | 34 | 34 | 34 | 34 | 32 |
| 10  | 57  | 45  | 37  | 33  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 41 | 35 | 32 | 32 | 32 | 32 | 30 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 69184 | 69184 | 69184 |
| 5°  | 69043 | 63004 | 58578 |
| 10° | 69822 | 53071 | 46971 |
| 15° | 71186 | 45388 | 38552 |
| 20° | 73186 | 38377 | 31182 |
| 25° | 75717 | 31766 | 27322 |
| 30° | 78334 | 27366 | 25381 |
| 35° | 79964 | 24940 | 24182 |
| 40° | 78596 | 22528 | 22942 |
| 45° | 72305 | 20358 | 21239 |
| 50° | 61003 | 17986 | 19935 |
| 55° | 46353 | 15754 | 17739 |
| 60° | 32484 | 13511 | 16983 |
| 65° | 21850 | 11636 | 16626 |
| 70° | 14922 | 10920 | 17443 |
| 75° | 10355 | 11262 | 18637 |
| 80° | 7129  | 12472 | 19186 |
| 85° | 4170  | 15601 | 20128 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3409.8  | 5.7       |
| 10°-20°   | 8021.3  | 13.4      |
| 20°-30°   | 10054.6 | 16.8      |
| 30°-40°   | 10669.1 | 17.8      |
| 40°-50°   | 9646.5  | 16.1      |
| 50°-60°   | 6994.4  | 11.7      |
| 60°-70°   | 4389.3  | 7.3       |
| 70°-80°   | 2904.7  | 4.9       |
| 80°-90°   | 1673.4  | 2.8       |
| 90°-100°  | 810.7   | 1.4       |
| 100°-110° | 559.6   | 0.9       |
| 110°-120° | 345.3   | 0.6       |
| 120°-130° | 167.2   | 0.3       |
| 130°-140° | 76.9    | 0.1       |
| 140°-150° | 42.0    | 0.1       |
| 150°-160° | 18.3    | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 21485.6 | 35.9      |
| 0°-40°    | 32154.7 | 53.8      |
| 0°-60°    | 48795.6 | 81.6      |
| 0°-90°    | 57763.0 | 96.6      |
| 90°-120°  | 1715.6  | 2.9       |
| 90°-150°  | 2001.8  | 3.3       |
| 90°-180°  | 2020.0  | 3.4       |
| 0°-180°   | 59783.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux  |
|------|-------|-------|-------|-------|-------|-------|
| 0°   | 40506 | 40506 | 40506 | 40506 | 40506 |       |
| 5°   | 40425 | 39388 | 37075 | 35356 | 34465 | ###   |
| 15°  | 40734 | 33201 | 26369 | 23451 | 22387 | 11552 |
| 25°  | 41004 | 25672 | 17657 | 15671 | 15174 | 18943 |
| 35°  | 39535 | 17067 | 12815 | 12414 | 12410 | 24577 |
| 45°  | 31254 | 10810 | 9287  | 9511  | 9673  | 23809 |
| 55°  | 16546 | 6700  | 6060  | 6573  | 6808  | 14950 |
| 65°  | 5918  | 3886  | 3508  | 4495  | 4996  | 6158  |
| 75°  | 1827  | 2093  | 2356  | 3658  | 3878  | 2037  |
| 85°  | 320   | 867   | 1723  | 2398  | 2201  | 384   |
| 90°  | 0     | 362   | 998   | 1407  | 1419  | 21    |
| 95°  | 15    | 254   | 879   | 1195  | 1249  | 14    |
| 105° | 31    | 170   | 640   | 848   | 871   | 31    |
| 115° | 42    | 120   | 432   | 540   | 551   | 42    |
| 125° | 46    | 62    | 220   | 278   | 274   | 40    |
| 135° | 39    | 46    | 96    | 150   | 150   | 30    |
| 145° | 46    | 50    | 58    | 89    | 85    | 28    |
| 155° | 46    | 58    | 62    | 66    | 58    | 14    |
| 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°     | 40506.2 | 40506.2 | 40506.2 | 40506.2 | 40506.2 |
| 2.5°   | 40421.4 | 40190.0 | 39469.1 | 39029.6 | 38659.5 |
| 5°     | 40425.2 | 39388.2 | 37075.1 | 35355.7 | 34465.1 |
| 7.5°   | 40483.0 | 38177.7 | 34010.2 | 31500.5 | 30521.3 |
| 10°    | 40571.7 | 36678.0 | 31149.7 | 28474.2 | 27560.5 |
| 12.5°  | 40637.2 | 34989.4 | 28632.3 | 25883.5 | 24881.2 |
| 15°    | 40733.6 | 33200.6 | 26369.3 | 23450.9 | 22386.9 |
| 17.5°  | 40822.3 | 31515.9 | 24133.3 | 21083.9 | 19900.3 |
| 20°    | 40911.0 | 29700.2 | 21897.3 | 18755.4 | 17780.0 |
| 22.5°  | 40995.8 | 27784.1 | 19715.3 | 16947.3 | 16280.3 |
| 25°    | 41003.5 | 25671.5 | 17656.6 | 15671.2 | 15173.9 |
| 27.5°  | 40903.3 | 23481.8 | 15987.4 | 14603.3 | 14294.9 |
| 30°    | 40729.8 | 21357.6 | 14692.0 | 13832.3 | 13612.6 |
| 32.5°  | 40298.0 | 19191.0 | 13689.7 | 13088.3 | 12961.0 |
| 35°    | 39534.7 | 17066.8 | 12814.6 | 12413.6 | 12409.8 |
| 37.5°  | 38331.9 | 15181.6 | 11866.2 | 11796.8 | 11881.6 |
| 40°    | 36554.6 | 13531.6 | 10967.9 | 11153.0 | 11153.0 |
| 42.5°  | 34183.7 | 12097.5 | 10154.5 | 10343.4 | 10293.3 |
| 45°    | 31253.8 | 10809.9 | 9287.1  | 9510.7  | 9672.6  |
| 47.5°  | 27857.4 | 9676.5  | 8400.4  | 8832.2  | 9055.8  |
| 50°    | 24164.1 | 8597.0  | 7590.8  | 8142.1  | 8396.5  |
| 52.5°  | 20293.6 | 7598.5  | 6800.5  | 7432.7  | 7637.1  |
| 55°    | 16546.3 | 6700.3  | 6060.3  | 6573.0  | 6808.2  |
| 57.5°  | 13153.8 | 5844.4  | 5335.5  | 5821.3  | 6307.0  |
| 60°    | 10235.5 | 5108.1  | 4653.2  | 5347.1  | 5832.9  |
| 62.5°  | 7818.3  | 4452.7  | 4013.2  | 4903.8  | 5389.5  |
| 65°    | 5917.7  | 3886.0  | 3508.2  | 4495.1  | 4996.3  |
| 67.5°  | 4460.4  | 3396.4  | 3115.0  | 4198.3  | 4687.9  |
| 70°    | 3350.1  | 2922.2  | 2798.8  | 4013.2  | 4452.7  |
| 72.5°  | 2475.0  | 2486.6  | 2548.3  | 3851.3  | 4186.7  |
| 75°    | 1827.3  | 2093.4  | 2355.5  | 3658.5  | 3878.3  |
| 77.5°  | 1306.9  | 1734.8  | 2182.0  | 3427.2  | 3504.3  |
| 80°    | 906.0   | 1414.8  | 2000.8  | 3122.7  | 3057.1  |
| 82.5°  | 566.7   | 1133.4  | 1838.9  | 2787.3  | 2606.1  |
| 85°    | 320.0   | 867.4   | 1723.3  | 2397.9  | 2201.3  |
| 87.5°  | 142.6   | 647.7   | 1507.4  | 1869.8  | 1746.4  |
| 90°    | 0.0     | 362.4   | 998.5   | 1407.1  | 1418.7  |
| 92.5°  | 7.7     | 300.7   | 921.4   | 1287.6  | 1326.2  |
| 95°    | 15.4    | 254.4   | 879.0   | 1195.1  | 1249.1  |
| 97.5°  | 19.3    | 223.6   | 825.0   | 1110.3  | 1156.5  |
| 100°   | 23.1    | 200.5   | 759.5   | 1021.6  | 1060.2  |
| 102.5° | 27.0    | 185.0   | 697.8   | 929.1   | 959.9   |
| 105°   | 30.8    | 169.6   | 640.0   | 848.1   | 871.3   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°   | 67.5° | 90°   |
|--------|------|-------|-------|-------|-------|
| 112.5° | 38.6 | 131.1 | 481.9 | 609.1 | 628.4 |
| 115°   | 42.4 | 119.5 | 431.8 | 539.7 | 551.3 |
| 117.5° | 46.3 | 104.1 | 377.8 | 474.2 | 478.0 |
| 120°   | 46.3 | 92.5  | 323.8 | 404.8 | 404.8 |
| 122.5° | 46.3 | 77.1  | 269.9 | 335.4 | 331.5 |
| 125°   | 46.3 | 61.7  | 219.7 | 277.6 | 273.7 |
| 127.5° | 42.4 | 50.1  | 177.3 | 231.3 | 227.5 |
| 130°   | 42.4 | 50.1  | 142.6 | 196.6 | 196.6 |
| 132.5° | 38.6 | 46.3  | 115.7 | 169.6 | 169.6 |
| 135°   | 38.6 | 46.3  | 96.4  | 150.4 | 150.4 |
| 137.5° | 38.6 | 50.1  | 81.0  | 131.1 | 131.1 |
| 140°   | 38.6 | 46.3  | 69.4  | 115.7 | 115.7 |
| 142.5° | 42.4 | 46.3  | 61.7  | 100.2 | 100.2 |
| 145°   | 46.3 | 50.1  | 57.8  | 88.7  | 84.8  |
| 147.5° | 46.3 | 54.0  | 57.8  | 77.1  | 73.2  |
| 150°   | 46.3 | 57.8  | 57.8  | 69.4  | 65.5  |
| 152.5° | 46.3 | 57.8  | 57.8  | 65.5  | 61.7  |
| 155°   | 46.3 | 57.8  | 61.7  | 65.5  | 57.8  |
| 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   |



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







|        |      |       |       |       |       |
|--------|------|-------|-------|-------|-------|
| 107.5° | 30.8 | 158.1 | 586.0 | 759.5 | 786.5 |
| 110°   | 34.7 | 142.6 | 535.9 | 678.5 | 705.5 |



(END OF REPORT)