

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: P828558

Luminaire Tested: **OHBL-12SE-MCL-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828558  
REPORT IS A COMBINATION OF REPORTS P826150 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-MCL-UNV-L950-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

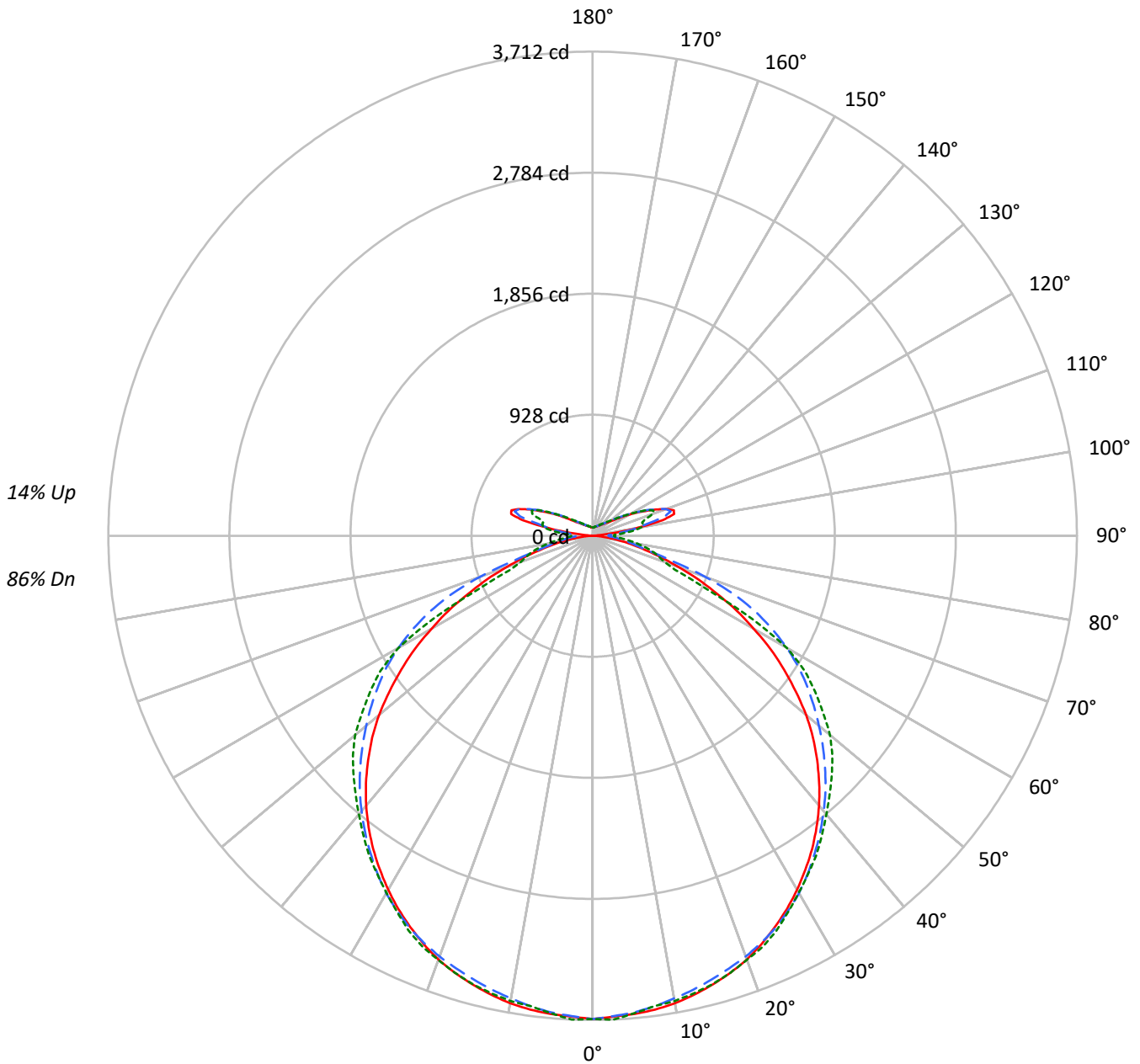
Lumens per Lamp: N/A  
Luminaire Lumens: 12027.8 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 82.3  
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   | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 96 | 96 | 96 | 89 | 89 | 89 | 86 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 106 | 101 | 97  | 94  | 102 | 98  | 94  | 91  | 91  | 88  | 85  | 85 | 83 | 80 | 79 | 77 | 76 | 73 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 97  | 89  | 82  | 77  | 93  | 86  | 80  | 75  | 80  | 75  | 71  | 75 | 71 | 67 | 70 | 67 | 64 | 61 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 88  | 78  | 70  | 64  | 84  | 75  | 68  | 62  | 70  | 64  | 60  | 66 | 61 | 57 | 62 | 58 | 54 | 52 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 81  | 69  | 61  | 54  | 77  | 67  | 59  | 53  | 63  | 56  | 51  | 59 | 53 | 49 | 55 | 50 | 47 | 44 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 74  | 62  | 53  | 47  | 71  | 60  | 52  | 46  | 56  | 49  | 44  | 53 | 47 | 42 | 49 | 45 | 41 | 38 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 68  | 55  | 47  | 40  | 66  | 54  | 46  | 40  | 51  | 44  | 38  | 48 | 42 | 37 | 45 | 40 | 36 | 33 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 35  | 46  | 39  | 34  | 43 | 37 | 33 | 41 | 36 | 32 | 29 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 46  | 37  | 32  | 57  | 44  | 37  | 31  | 42  | 35  | 30  | 40 | 34 | 29 | 37 | 32 | 28 | 26 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 42  | 34  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 36 | 31 | 26 | 35 | 29 | 25 | 24 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 51  | 38  | 31  | 26  | 49  | 37  | 30  | 25  | 36  | 29  | 25  | 34 | 28 | 24 | 32 | 27 | 23 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12053 | 12053 | 12053 |
| 5°  | 11823 | 11807 | 11954 |
| 10° | 11632 | 11559 | 11871 |
| 15° | 11412 | 11358 | 11842 |
| 20° | 11192 | 11206 | 11790 |
| 25° | 10907 | 11052 | 11741 |
| 30° | 10608 | 10848 | 11577 |
| 35° | 10275 | 10566 | 11516 |
| 40° | 9886  | 10273 | 11417 |
| 45° | 9405  | 9942  | 11421 |
| 50° | 8812  | 9571  | 11421 |
| 55° | 7985  | 9195  | 11103 |
| 60° | 6974  | 8683  | 10388 |
| 65° | 5744  | 7836  | 6687  |
| 70° | 4381  | 5971  | 4954  |
| 75° | 3038  | 3427  | 5193  |
| 80° | 1867  | 2704  | 5235  |
| 85° | 836   | 2258  | 5505  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 349.3   | 2.9       |
| 10°-20°   | 1001.7  | 8.3       |
| 20°-30°   | 1530.0  | 12.7      |
| 30°-40°   | 1856.4  | 15.4      |
| 40°-50°   | 1945.6  | 16.2      |
| 50°-60°   | 1763.0  | 14.7      |
| 60°-70°   | 1182.0  | 9.8       |
| 70°-80°   | 530.8   | 4.4       |
| 80°-90°   | 196.5   | 1.6       |
| 90°-100°  | 206.9   | 1.7       |
| 100°-110° | 544.4   | 4.5       |
| 110°-120° | 457.9   | 3.8       |
| 120°-130° | 220.9   | 1.8       |
| 130°-140° | 111.8   | 0.9       |
| 140°-150° | 65.4    | 0.5       |
| 150°-160° | 38.7    | 0.3       |
| 160°-170° | 20.4    | 0.2       |
| 170°-180° | 6.2     | 0.1       |
| 0°-30°    | 2881.0  | 24.0      |
| 0°-40°    | 4737.4  | 39.4      |
| 0°-60°    | 8446.0  | 70.2      |
| 0°-90°    | 10355.4 | 86.1      |
| 90°-120°  | 1209.1  | 10.1      |
| 90°-150°  | 1607.1  | 13.4      |
| 90°-180°  | 1672.0  | 13.9      |
| 0°-180°   | 12027.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3705 | 3705  | 3705 | 3705  | 3705 |      |
| 5°   | 3681 | 3694  | 3668 | 3679  | 3674 | 350  |
| 15°  | 3561 | 3547  | 3522 | 3553  | 3558 | 1006 |
| 25°  | 3308 | 3294  | 3317 | 3348  | 3338 | 1525 |
| 35°  | 2932 | 2939  | 2969 | 3001  | 2989 | 1833 |
| 45°  | 2434 | 2473  | 2519 | 2584  | 2592 | 1875 |
| 55°  | 1791 | 1877  | 2005 | 2085  | 2081 | 1599 |
| 65°  | 1051 | 1216  | 1380 | 1165  | 951  | 1047 |
| 75°  | 414  | 600   | 441  | 452   | 481  | 452  |
| 85°  | 71   | 137   | 175  | 212   | 222  | 87   |
| 90°  | 4    | 67    | 120  | 153   | 162  | 7    |
| 95°  | 34   | 100   | 174  | 221   | 244  | 105  |
| 105° | 646  | 650   | 575  | 420   | 392  | 614  |
| 115° | 450  | 458   | 466  | 465   | 465  | 454  |
| 125° | 221  | 232   | 244  | 244   | 243  | 208  |
| 135° | 134  | 137   | 142  | 146   | 147  | 106  |
| 145° | 99   | 101   | 104  | 105   | 106  | 63   |
| 155° | 80   | 82    | 83   | 84    | 84   | 38   |
| 165° | 70   | 71    | 71   | 72    | 72   | 20   |
| 175° | 64   | 64    | 64   | 64    | 64   | 6    |
| 180° | 64   | 64    | 64   | 64    | 64   |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3704.9 | 3704.9 | 3704.9 | 3704.9 | 3704.9 |
| 2.5°   | 3689.8 | 3705.4 | 3686.1 | 3707.0 | 3712.4 |
| 5°     | 3680.8 | 3693.6 | 3667.9 | 3679.1 | 3674.4 |
| 7.5°   | 3664.2 | 3668.4 | 3637.9 | 3647.0 | 3637.3 |
| 10°    | 3639.5 | 3637.3 | 3601.5 | 3619.1 | 3621.3 |
| 12.5°  | 3603.1 | 3596.6 | 3564.5 | 3591.3 | 3591.8 |
| 15°    | 3561.3 | 3547.3 | 3522.2 | 3553.2 | 3557.5 |
| 17.5°  | 3513.1 | 3494.9 | 3478.3 | 3518.5 | 3512.0 |
| 20°    | 3456.8 | 3435.4 | 3432.2 | 3476.1 | 3460.0 |
| 22.5°  | 3387.2 | 3370.6 | 3378.1 | 3419.9 | 3409.7 |
| 25°    | 3308.4 | 3294.0 | 3317.0 | 3347.5 | 3337.9 |
| 27.5°  | 3225.4 | 3216.9 | 3243.1 | 3266.7 | 3247.9 |
| 30°    | 3134.3 | 3129.6 | 3164.3 | 3183.6 | 3160.1 |
| 32.5°  | 3035.2 | 3036.9 | 3070.1 | 3096.4 | 3074.4 |
| 35°    | 2932.4 | 2939.3 | 2969.3 | 3001.0 | 2989.2 |
| 37.5°  | 2819.3 | 2834.9 | 2864.9 | 2900.8 | 2888.5 |
| 40°    | 2699.9 | 2722.4 | 2755.6 | 2799.0 | 2787.8 |
| 42.5°  | 2570.8 | 2599.2 | 2642.1 | 2690.2 | 2689.2 |
| 45°    | 2433.7 | 2473.3 | 2519.4 | 2583.6 | 2591.7 |
| 47.5°  | 2291.2 | 2335.6 | 2394.0 | 2479.7 | 2492.1 |
| 50°    | 2136.3 | 2192.0 | 2264.9 | 2367.8 | 2375.2 |
| 52.5°  | 1963.8 | 2039.9 | 2136.3 | 2234.9 | 2225.8 |
| 55°    | 1790.8 | 1877.0 | 2005.1 | 2085.4 | 2080.7 |
| 57.5°  | 1618.3 | 1715.3 | 1870.6 | 1928.0 | 1927.4 |
| 60°    | 1425.5 | 1548.1 | 1717.9 | 1761.3 | 1718.5 |
| 62.5°  | 1247.1 | 1378.9 | 1555.1 | 1523.5 | 1376.8 |
| 65°    | 1051.1 | 1215.5 | 1380.0 | 1164.6 | 950.8  |
| 67.5°  | 876.9  | 1048.4 | 1172.1 | 797.6  | 683.0  |
| 70°    | 701.7  | 890.8  | 913.9  | 591.9  | 583.9  |
| 72.5°  | 546.4  | 747.8  | 630.5  | 506.8  | 532.4  |
| 75°    | 413.6  | 600.0  | 441.4  | 451.6  | 481.1  |
| 77.5°  | 301.6  | 460.7  | 343.3  | 395.9  | 419.9  |
| 80°    | 207.3  | 326.2  | 280.1  | 332.6  | 349.3  |
| 82.5°  | 130.2  | 215.4  | 224.5  | 267.9  | 285.0  |
| 85°    | 71.2   | 136.6  | 175.2  | 211.6  | 221.8  |
| 87.5°  | 29.5   | 82.5   | 133.9  | 163.4  | 172.0  |
| 90°    | 4.0    | 67.3   | 120.1  | 152.7  | 162.4  |
| 92.5°  | 11.8   | 63.5   | 121.7  | 157.7  | 168.4  |
| 95°    | 33.6   | 99.7   | 174.3  | 220.8  | 243.7  |
| 97.5°  | 170.6  | 207.7  | 258.9  | 307.9  | 324.0  |
| 100°   | 351.1  | 385.7  | 351.2  | 375.1  | 381.9  |
| 102.5° | 549.1  | 561.1  | 431.2  | 400.4  | 396.8  |
| 105°   | 646.4  | 650.5  | 574.8  | 420.4  | 392.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 527.1 | 534.4 | 534.6 | 525.6 | 504.9 |
| 115°   | 450.3 | 457.7 | 465.9 | 465.0 | 465.2 |
| 117.5° | 384.2 | 387.9 | 397.7 | 399.2 | 401.1 |
| 120°   | 321.6 | 328.2 | 338.7 | 338.7 | 337.6 |
| 122.5° | 269.4 | 277.3 | 287.5 | 287.6 | 286.4 |
| 125°   | 221.1 | 232.1 | 243.5 | 244.2 | 243.1 |
| 127.5° | 188.6 | 196.4 | 208.6 | 209.3 | 208.1 |
| 130°   | 164.2 | 170.8 | 178.8 | 181.8 | 182.7 |
| 132.5° | 148.2 | 151.5 | 158.2 | 161.3 | 163.0 |
| 135°   | 133.5 | 136.7 | 141.5 | 146.0 | 147.4 |
| 137.5° | 122.8 | 125.4 | 128.9 | 133.2 | 134.7 |
| 140°   | 113.2 | 115.8 | 117.8 | 121.7 | 123.1 |
| 142.5° | 104.8 | 108.0 | 110.0 | 112.5 | 113.9 |
| 145°   | 98.7  | 101.0 | 103.6 | 105.0 | 105.6 |
| 147.5° | 93.2  | 94.9  | 96.7  | 98.4  | 98.9  |
| 150°   | 88.0  | 89.7  | 91.5  | 92.3  | 93.2  |
| 152.5° | 84.5  | 85.4  | 87.1  | 88.0  | 88.0  |
| 155°   | 80.2  | 82.4  | 83.3  | 84.2  | 83.6  |
| 157.5° | 77.6  | 78.9  | 79.8  | 80.7  | 80.7  |
| 160°   | 74.9  | 75.5  | 76.3  | 77.2  | 77.2  |
| 162.5° | 72.9  | 72.9  | 73.7  | 74.6  | 74.6  |
| 165°   | 70.3  | 71.1  | 71.1  | 72.0  | 72.0  |
| 167.5° | 68.5  | 69.0  | 69.4  | 69.4  | 70.3  |
| 170°   | 66.8  | 66.8  | 67.6  | 67.1  | 67.1  |
| 172.5° | 65.0  | 65.9  | 65.9  | 65.4  | 65.4  |
| 175°   | 64.2  | 64.2  | 64.5  | 63.9  | 63.9  |
| 177.5° | 63.8  | 64.2  | 63.6  | 63.0  | 62.5  |
| 180°   | 63.6  | 63.6  | 63.6  | 63.6  | 63.6  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 653.0 | 660.5 | 626.2 | 497.7 | 423.1 |
| 110°   | 598.8 | 611.1 | 598.4 | 551.1 | 492.1 |



(END OF REPORT)