

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: P826516

Luminaire Tested: **OHBL-18SE-MFL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826516  
REPORT IS A COMBINATION OF REPORTS P826163 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-18SE-MFL-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

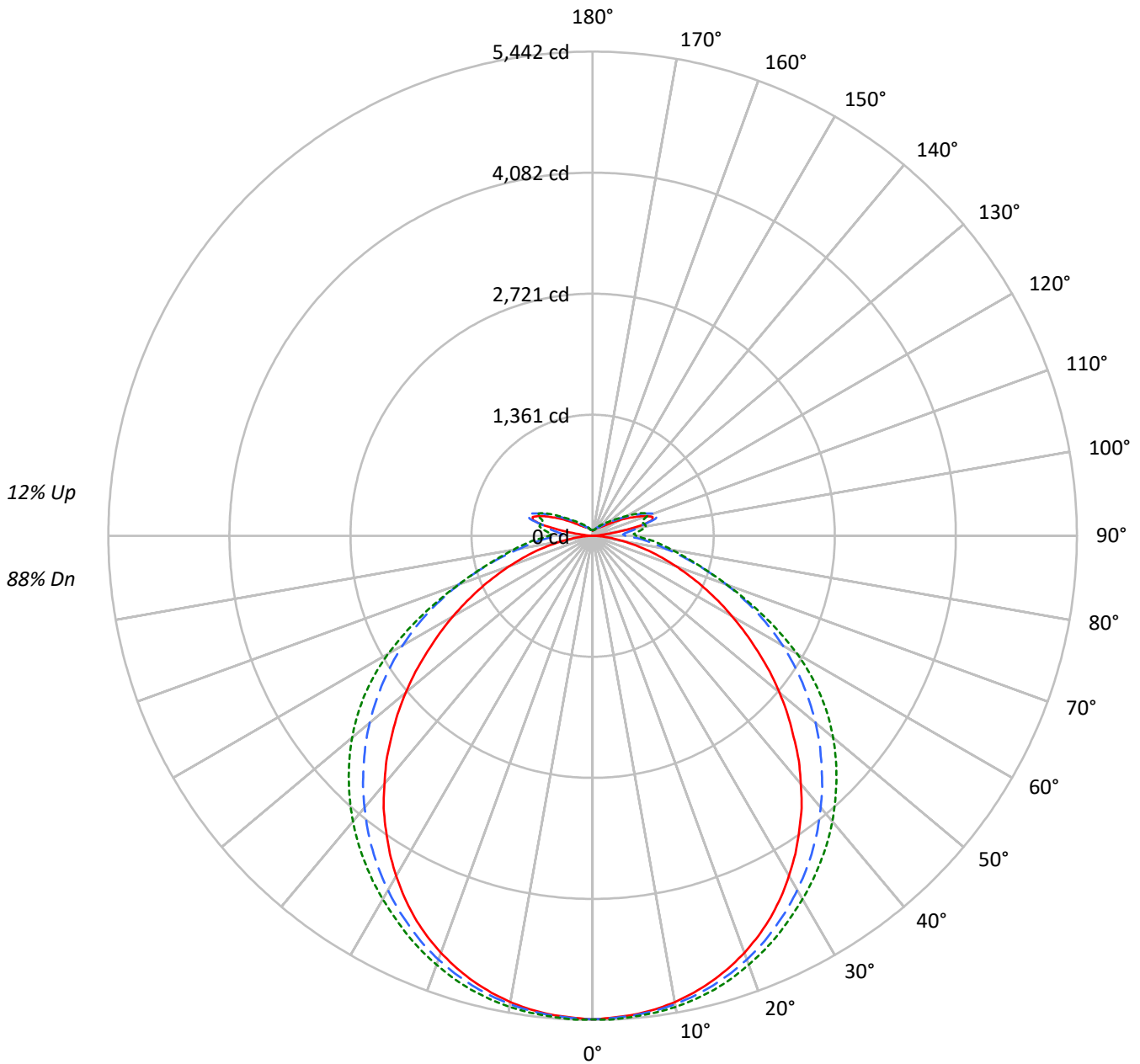
Lumens per Lamp: N/A  
Luminaire Lumens: 17935.4 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 117.3  
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

TEST NUMBER: P826516

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L830-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P826516

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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 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 91 | 91 | 91 | 88 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 105 | 100 | 96  | 92  | 101 | 97  | 93  | 89  | 91  | 87  | 84  | 85 | 82 | 80 | 79 | 77 | 75 | 72 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 96  | 87  | 81  | 75  | 92  | 84  | 78  | 73  | 79  | 74  | 69  | 74 | 70 | 66 | 69 | 66 | 63 | 60 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 87  | 77  | 69  | 62  | 84  | 74  | 67  | 61  | 69  | 63  | 58  | 65 | 60 | 56 | 61 | 57 | 53 | 50 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 62  | 55  | 49  | 58 | 52 | 47 | 54 | 50 | 46 | 43 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 73  | 61  | 52  | 45  | 70  | 59  | 50  | 44  | 55  | 48  | 43  | 52 | 46 | 41 | 49 | 44 | 40 | 37 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 68  | 54  | 46  | 39  | 65  | 53  | 45  | 39  | 50  | 43  | 37  | 47 | 41 | 36 | 44 | 39 | 35 | 32 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 63  | 49  | 41  | 35  | 60  | 48  | 40  | 34  | 45  | 38  | 33  | 43 | 37 | 32 | 40 | 35 | 31 | 29 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 30  | 41  | 34  | 29  | 39 | 33 | 28 | 37 | 32 | 28 | 26 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 54  | 41  | 33  | 28  | 52  | 40  | 32  | 27  | 38  | 31  | 26  | 36 | 30 | 26 | 34 | 29 | 25 | 23 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 51  | 38  | 30  | 25  | 49  | 37  | 30  | 25  | 35  | 29  | 24  | 33 | 27 | 23 | 32 | 26 | 23 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9285 | 9285 | 9285 |
| 5°  | 9181 | 9193 | 9264 |
| 10° | 9072 | 9108 | 9255 |
| 15° | 8926 | 9007 | 9231 |
| 20° | 8748 | 8884 | 9177 |
| 25° | 8524 | 8732 | 9125 |
| 30° | 8231 | 8567 | 9074 |
| 35° | 7887 | 8392 | 9039 |
| 40° | 7482 | 8190 | 9011 |
| 45° | 7014 | 7971 | 8966 |
| 50° | 6507 | 7749 | 8908 |
| 55° | 5897 | 7477 | 8770 |
| 60° | 5272 | 7158 | 8424 |
| 65° | 4596 | 6751 | 7801 |
| 70° | 3867 | 6234 | 7135 |
| 75° | 3126 | 5636 | 6785 |
| 80° | 2229 | 5191 | 7108 |
| 85° | 1241 | 5348 | 8912 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 515.1   | 2.9       |
| 10°-20°   | 1477.8  | 8.2       |
| 20°-30°   | 2234.9  | 12.5      |
| 30°-40°   | 2683.0  | 15.0      |
| 40°-50°   | 2771.1  | 15.5      |
| 50°-60°   | 2493.1  | 13.9      |
| 60°-70°   | 1878.0  | 10.5      |
| 70°-80°   | 1134.0  | 6.3       |
| 80°-90°   | 558.8   | 3.1       |
| 90°-100°  | 392.8   | 2.2       |
| 100°-110° | 686.6   | 3.8       |
| 110°-120° | 553.6   | 3.1       |
| 120°-130° | 272.5   | 1.5       |
| 130°-140° | 137.3   | 0.8       |
| 140°-150° | 77.5    | 0.4       |
| 150°-160° | 42.9    | 0.2       |
| 160°-170° | 20.0    | 0.1       |
| 170°-180° | 6.1     | 0.0       |
| 0°-30°    | 4227.8  | 23.6      |
| 0°-40°    | 6910.8  | 38.5      |
| 0°-60°    | 12175.1 | 67.9      |
| 0°-90°    | 15746.0 | 87.8      |
| 90°-120°  | 1633.0  | 9.1       |
| 90°-150°  | 2120.5  | 11.8      |
| 90°-180°  | 2189.0  | 12.2      |
| 0°-180°   | 17935.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5436 | 5436  | 5436 | 5436  | 5436 |      |
| 5°   | 5402 | 5416  | 5410 | 5431  | 5424 | 513  |
| 15°  | 5184 | 5209  | 5233 | 5277  | 5282 | 1461 |
| 25°  | 4734 | 4786  | 4854 | 4929  | 4941 | 2177 |
| 35°  | 4047 | 4142  | 4312 | 4442  | 4469 | 2530 |
| 45°  | 3194 | 3355  | 3636 | 3834  | 3876 | 2466 |
| 55°  | 2263 | 2497  | 2876 | 3093  | 3131 | 2029 |
| 65°  | 1381 | 1663  | 2036 | 2137  | 2113 | 1372 |
| 75°  | 651  | 934   | 1179 | 1209  | 1197 | 694  |
| 85°  | 136  | 358   | 591  | 672   | 684  | 157  |
| 90°  | 4    | 163   | 370  | 468   | 490  | 11   |
| 95°  | 42   | 171   | 373  | 477   | 512  | 117  |
| 105° | 699  | 738   | 729  | 602   | 578  | 663  |
| 115° | 488  | 514   | 572  | 598   | 602  | 492  |
| 125° | 243  | 258   | 305  | 328   | 330  | 228  |
| 135° | 147  | 152   | 173  | 195   | 201  | 116  |
| 145° | 114  | 114   | 118  | 130   | 134  | 72   |
| 155° | 93   | 96    | 96   | 96    | 97   | 42   |
| 165° | 69   | 70    | 70   | 71    | 71   | 20   |
| 175° | 62   | 62    | 63   | 63    | 63   | 6    |
| 180° | 62   | 62    | 62   | 62    | 62   |      |



TEST NUMBER: P826516

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L830-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5436.3 | 5436.3 | 5436.3 | 5436.3 | 5436.3 |
| 2.5°   | 5420.3 | 5433.6 | 5425.6 | 5442.9 | 5441.6 |
| 5°     | 5401.7 | 5416.3 | 5409.7 | 5430.9 | 5424.3 |
| 7.5°   | 5369.8 | 5385.7 | 5384.4 | 5408.3 | 5405.7 |
| 10°    | 5323.2 | 5340.5 | 5345.8 | 5377.8 | 5377.8 |
| 12.5°  | 5259.3 | 5281.9 | 5295.2 | 5333.9 | 5335.2 |
| 15°    | 5183.5 | 5208.8 | 5232.7 | 5276.6 | 5281.9 |
| 17.5°  | 5091.7 | 5123.6 | 5156.9 | 5207.4 | 5214.1 |
| 20°    | 4987.9 | 5023.8 | 5069.0 | 5122.2 | 5130.2 |
| 22.5°  | 4868.2 | 4910.7 | 4969.3 | 5031.8 | 5041.1 |
| 25°    | 4733.8 | 4785.7 | 4853.5 | 4929.3 | 4941.3 |
| 27.5°  | 4580.8 | 4640.7 | 4732.4 | 4817.6 | 4828.3 |
| 30°    | 4414.5 | 4485.0 | 4599.4 | 4700.5 | 4717.8 |
| 32.5°  | 4238.9 | 4320.0 | 4461.1 | 4574.1 | 4598.1 |
| 35°    | 4047.3 | 4141.7 | 4312.0 | 4442.4 | 4469.0 |
| 37.5°  | 3858.4 | 3962.1 | 4155.0 | 4304.0 | 4336.0 |
| 40°    | 3637.4 | 3766.5 | 3987.4 | 4152.4 | 4190.9 |
| 42.5°  | 3429.9 | 3569.6 | 3819.7 | 3999.3 | 4036.7 |
| 45°    | 3194.4 | 3355.4 | 3636.1 | 3834.4 | 3875.7 |
| 47.5°  | 2973.6 | 3147.9 | 3459.2 | 3664.1 | 3706.7 |
| 50°    | 2740.8 | 2932.4 | 3270.3 | 3484.5 | 3528.4 |
| 52.5°  | 2507.9 | 2714.2 | 3074.7 | 3296.9 | 3338.1 |
| 55°    | 2263.1 | 2497.2 | 2876.4 | 3093.4 | 3130.6 |
| 57.5°  | 2035.6 | 2283.1 | 2672.9 | 2879.1 | 2901.8 |
| 60°    | 1810.8 | 2067.5 | 2465.3 | 2646.3 | 2654.3 |
| 62.5°  | 1591.2 | 1861.3 | 2252.5 | 2396.2 | 2385.5 |
| 65°    | 1381.0 | 1663.1 | 2035.6 | 2136.7 | 2112.7 |
| 67.5°  | 1178.8 | 1470.2 | 1813.4 | 1878.6 | 1846.7 |
| 70°    | 987.2  | 1282.6 | 1597.9 | 1631.2 | 1601.9 |
| 72.5°  | 818.2  | 1104.3 | 1379.7 | 1407.7 | 1386.3 |
| 75°    | 650.6  | 934.0  | 1178.8 | 1209.4 | 1197.4 |
| 77.5°  | 493.6  | 769.0  | 993.8  | 1033.8 | 1036.5 |
| 80°    | 355.2  | 618.6  | 832.8  | 895.4  | 903.4  |
| 82.5°  | 234.1  | 480.3  | 698.5  | 778.3  | 790.3  |
| 85°    | 135.7  | 357.9  | 590.7  | 671.9  | 683.9  |
| 87.5°  | 58.5   | 258.1  | 475.0  | 548.2  | 562.8  |
| 90°    | 3.7    | 162.9  | 369.6  | 467.6  | 489.6  |
| 92.5°  | 16.1   | 146.5  | 341.2  | 440.6  | 462.7  |
| 95°    | 42.0   | 170.8  | 372.9  | 477.4  | 511.7  |
| 97.5°  | 189.5  | 278.0  | 441.0  | 543.2  | 570.0  |
| 100°   | 382.1  | 461.8  | 519.7  | 591.4  | 607.6  |
| 102.5° | 593.3  | 645.6  | 588.8  | 597.0  | 600.8  |
| 105°   | 698.8  | 737.6  | 728.9  | 602.0  | 578.3  |



TEST NUMBER: P826516

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 570.8 | 599.8 | 653.9 | 673.5 | 655.7 |
| 115°   | 488.0 | 513.6 | 572.5 | 597.5 | 601.9 |
| 117.5° | 418.7 | 436.1 | 491.1 | 518.5 | 523.4 |
| 120°   | 351.7 | 368.8 | 420.4 | 444.2 | 447.7 |
| 122.5° | 295.8 | 310.8 | 359.4 | 381.9 | 384.0 |
| 125°   | 243.2 | 258.4 | 304.8 | 327.9 | 330.0 |
| 127.5° | 206.6 | 217.7 | 260.6 | 283.6 | 285.8 |
| 130°   | 180.5 | 188.3 | 223.2 | 246.8 | 251.7 |
| 132.5° | 162.8 | 168.3 | 195.1 | 217.4 | 224.5 |
| 135°   | 147.0 | 152.5 | 173.1 | 195.0 | 201.2 |
| 137.5° | 134.9 | 140.4 | 154.8 | 175.2 | 181.5 |
| 140°   | 126.0 | 130.2 | 139.6 | 157.4 | 163.7 |
| 142.5° | 119.0 | 121.8 | 127.2 | 142.8 | 147.7 |
| 145°   | 113.8 | 114.4 | 118.5 | 130.0 | 134.0 |
| 147.5° | 107.3 | 109.2 | 111.0 | 118.2 | 122.2 |
| 150°   | 101.7 | 104.9 | 105.4 | 107.7 | 112.6 |
| 152.5° | 98.0  | 100.2 | 100.8 | 100.4 | 103.0 |
| 155°   | 93.3  | 96.5  | 96.1  | 95.8  | 97.1  |
| 157.5° | 77.2  | 78.2  | 79.1  | 80.0  | 80.0  |
| 160°   | 74.4  | 74.4  | 75.4  | 76.3  | 76.3  |
| 162.5° | 71.7  | 71.7  | 72.6  | 73.5  | 73.5  |
| 165°   | 68.9  | 69.8  | 69.8  | 70.7  | 70.7  |
| 167.5° | 67.0  | 67.0  | 67.9  | 67.9  | 68.9  |
| 170°   | 65.1  | 65.1  | 66.1  | 66.1  | 66.1  |
| 172.5° | 63.3  | 64.2  | 64.2  | 64.2  | 64.2  |
| 175°   | 62.3  | 62.3  | 63.3  | 63.3  | 63.3  |
| 177.5° | 61.4  | 62.3  | 62.3  | 62.3  | 62.3  |
| 180°   | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 705.4 | 744.0 | 771.2 | 669.1 | 594.8 |
| 110°   | 646.7 | 687.5 | 731.4 | 712.8 | 655.2 |



(END OF REPORT)