

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: P827713

Luminaire Tested: **OHBL-18SE-MCL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827713  
REPORT IS A COMBINATION OF REPORTS P826162 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-MCL-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

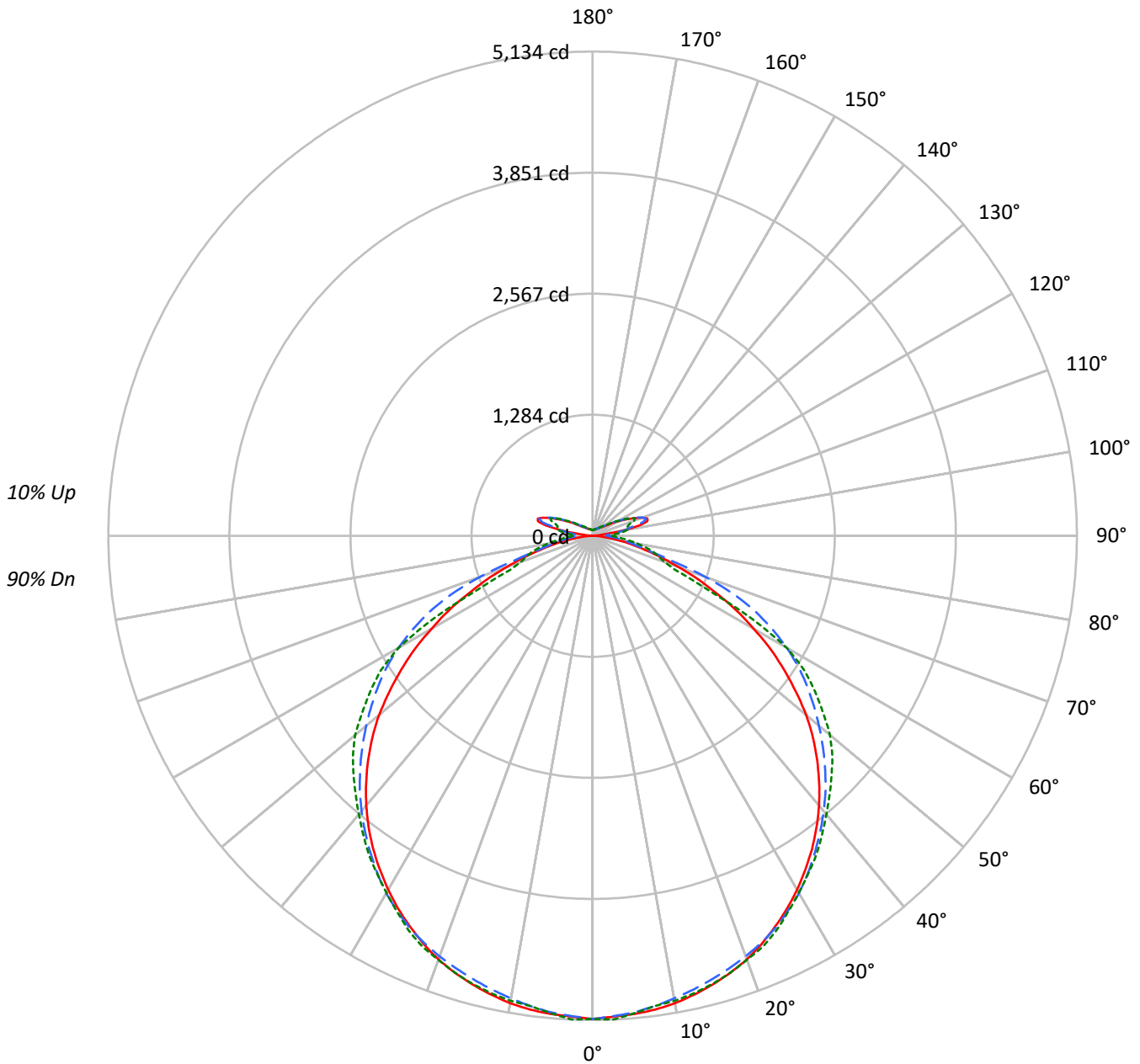
Lumens per Lamp: N/A  
Luminaire Lumens: 15928.1 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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

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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   | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 99 | 99 | 99 | 93 | 93 | 93 | 90 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 107 | 102 | 98  | 94  | 103 | 99  | 95  | 92  | 93  | 90  | 87  | 87 | 85 | 83 | 82 | 80 | 79 | 76 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 97  | 89  | 83  | 77  | 94  | 87  | 81  | 76  | 82  | 77  | 72  | 77 | 73 | 69 | 72 | 69 | 66 | 64 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 89  | 79  | 71  | 64  | 86  | 76  | 69  | 63  | 72  | 66  | 61  | 68 | 63 | 59 | 64 | 60 | 56 | 54 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 81  | 70  | 61  | 55  | 78  | 68  | 60  | 54  | 64  | 57  | 52  | 60 | 55 | 50 | 57 | 52 | 48 | 46 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 62  | 53  | 47  | 72  | 60  | 52  | 46  | 57  | 50  | 45  | 54 | 48 | 43 | 51 | 46 | 42 | 40 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 56  | 47  | 41  | 66  | 54  | 46  | 40  | 52  | 45  | 39  | 49 | 43 | 38 | 47 | 41 | 37 | 35 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 51  | 42  | 36  | 62  | 49  | 41  | 36  | 47  | 40  | 35  | 45 | 38 | 34 | 42 | 37 | 33 | 31 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 32  | 43  | 36  | 31  | 41 | 35 | 30 | 39 | 33 | 29 | 27 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 28  | 39  | 33  | 28  | 38 | 31 | 27 | 36 | 30 | 26 | 25 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 26  | 50  | 38  | 31  | 26  | 36  | 30  | 25  | 35 | 29 | 25 | 33 | 28 | 24 | 22 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8751 | 8751 | 8751 |
| 5°  | 8652 | 8620 | 8678 |
| 10° | 8578 | 8485 | 8618 |
| 15° | 8481 | 8384 | 8598 |
| 20° | 8384 | 8319 | 8560 |
| 25° | 8238 | 8253 | 8524 |
| 30° | 8082 | 8151 | 8405 |
| 35° | 7902 | 7992 | 8361 |
| 40° | 7680 | 7827 | 8289 |
| 45° | 7390 | 7637 | 8292 |
| 50° | 7014 | 7422 | 8293 |
| 55° | 6453 | 7208 | 8060 |
| 60° | 5740 | 6898 | 7542 |
| 65° | 4837 | 6329 | 4855 |
| 70° | 3802 | 4931 | 3597 |
| 75° | 2748 | 2919 | 3770 |
| 80° | 1799 | 2415 | 3801 |
| 85° | 901  | 2194 | 3997 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 483.1   | 3.0       |
| 10°-20°   | 1385.3  | 8.7       |
| 20°-30°   | 2115.8  | 13.3      |
| 30°-40°   | 2567.2  | 16.1      |
| 40°-50°   | 2690.6  | 16.9      |
| 50°-60°   | 2438.1  | 15.3      |
| 60°-70°   | 1634.7  | 10.3      |
| 70°-80°   | 734.0   | 4.6       |
| 80°-90°   | 270.0   | 1.7       |
| 90°-100°  | 218.6   | 1.4       |
| 100°-110° | 518.5   | 3.3       |
| 110°-120° | 431.9   | 2.7       |
| 120°-130° | 208.8   | 1.3       |
| 130°-140° | 106.3   | 0.7       |
| 140°-150° | 62.4    | 0.4       |
| 150°-160° | 37.2    | 0.2       |
| 160°-170° | 19.7    | 0.1       |
| 170°-180° | 6.0     | 0.0       |
| 0°-30°    | 3984.2  | 25.0      |
| 0°-40°    | 6551.4  | 41.1      |
| 0°-60°    | 11680.1 | 73.3      |
| 0°-90°    | 14318.8 | 89.9      |
| 90°-120°  | 1169.0  | 7.3       |
| 90°-150°  | 1546.4  | 9.7       |
| 90°-180°  | 1609.0  | 10.1      |
| 0°-180°   | 15928.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5124 | 5124  | 5124 | 5124  | 5124 |      |
| 5°   | 5090 | 5108  | 5072 | 5088  | 5081 | 484  |
| 15°  | 4925 | 4906  | 4871 | 4914  | 4920 | 1391 |
| 25°  | 4575 | 4555  | 4587 | 4629  | 4616 | 2109 |
| 35°  | 4055 | 4065  | 4106 | 4150  | 4134 | 2535 |
| 45°  | 3366 | 3420  | 3484 | 3573  | 3584 | 2593 |
| 55°  | 2477 | 2596  | 2773 | 2884  | 2877 | 2211 |
| 65°  | 1454 | 1681  | 1908 | 1610  | 1315 | 1448 |
| 75°  | 572  | 830   | 610  | 624   | 665  | 625  |
| 85°  | 98   | 189   | 242  | 293   | 307  | 120  |
| 90°  | 4    | 83    | 153  | 193   | 205  | 8    |
| 95°  | 31   | 106   | 190  | 239   | 262  | 98   |
| 105° | 602  | 610   | 548  | 408   | 382  | 572  |
| 115° | 421  | 428   | 440  | 441   | 442  | 424  |
| 125° | 207  | 218   | 231  | 232   | 231  | 195  |
| 135° | 126  | 130   | 134  | 140   | 141  | 100  |
| 145° | 94   | 96    | 99   | 100   | 101  | 60   |
| 155° | 77   | 79    | 80   | 81    | 80   | 36   |
| 165° | 68   | 69    | 69   | 70    | 70   | 19   |
| 175° | 62   | 62    | 62   | 62    | 62   | 6    |
| 180° | 62   | 62    | 62   | 62    | 62   |      |



TEST NUMBER: P827713

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5123.5 | 5123.5 | 5123.5 | 5123.5 | 5123.5 |
| 2.5°   | 5102.8 | 5124.3 | 5097.6 | 5126.4 | 5133.9 |
| 5°     | 5090.2 | 5107.9 | 5072.4 | 5088.0 | 5081.3 |
| 7.5°   | 5067.2 | 5073.1 | 5030.9 | 5043.5 | 5030.2 |
| 10°    | 5033.1 | 5030.2 | 4980.5 | 5005.0 | 5007.9 |
| 12.5°  | 4982.7 | 4973.8 | 4929.4 | 4966.4 | 4967.2 |
| 15°    | 4924.9 | 4905.7 | 4870.9 | 4913.9 | 4919.8 |
| 17.5°  | 4858.2 | 4833.1 | 4810.1 | 4865.7 | 4856.8 |
| 20°    | 4780.5 | 4750.9 | 4746.5 | 4807.2 | 4784.9 |
| 22.5°  | 4684.2 | 4661.3 | 4671.6 | 4729.4 | 4715.3 |
| 25°    | 4575.3 | 4555.3 | 4587.1 | 4629.4 | 4616.1 |
| 27.5°  | 4460.5 | 4448.6 | 4484.9 | 4517.5 | 4491.6 |
| 30°    | 4334.5 | 4327.8 | 4376.0 | 4402.7 | 4370.1 |
| 32.5°  | 4197.4 | 4199.7 | 4245.6 | 4281.9 | 4251.6 |
| 35°    | 4055.2 | 4064.9 | 4106.3 | 4150.1 | 4133.7 |
| 37.5°  | 3898.9 | 3920.4 | 3961.9 | 4011.5 | 3994.5 |
| 40°    | 3733.7 | 3764.8 | 3810.7 | 3870.8 | 3855.2 |
| 42.5°  | 3555.2 | 3594.4 | 3653.7 | 3720.4 | 3718.9 |
| 45°    | 3365.5 | 3420.4 | 3484.1 | 3573.0 | 3584.1 |
| 47.5°  | 3168.5 | 3229.9 | 3310.7 | 3429.3 | 3446.2 |
| 50°    | 2954.4 | 3031.4 | 3132.2 | 3274.4 | 3284.8 |
| 52.5°  | 2715.8 | 2821.0 | 2954.4 | 3090.7 | 3078.1 |
| 55°    | 2476.6 | 2595.8 | 2772.9 | 2884.0 | 2877.3 |
| 57.5°  | 2238.0 | 2372.1 | 2586.9 | 2666.2 | 2665.5 |
| 60°    | 1971.3 | 2141.0 | 2375.8 | 2435.8 | 2376.6 |
| 62.5°  | 1724.7 | 1906.9 | 2150.6 | 2106.9 | 1903.9 |
| 65°    | 1453.5 | 1680.9 | 1908.3 | 1610.5 | 1314.9 |
| 67.5°  | 1212.7 | 1449.7 | 1620.9 | 1103.1 | 944.5  |
| 70°    | 970.5  | 1232.0 | 1263.8 | 818.6  | 807.5  |
| 72.5°  | 755.6  | 1034.2 | 871.9  | 700.8  | 736.4  |
| 75°    | 571.9  | 829.8  | 610.5  | 624.5  | 665.3  |
| 77.5°  | 417.1  | 637.1  | 474.9  | 547.5  | 580.8  |
| 80°    | 286.7  | 451.1  | 387.4  | 460.0  | 483.0  |
| 82.5°  | 180.0  | 297.8  | 310.4  | 370.4  | 394.1  |
| 85°    | 98.5   | 188.9  | 242.3  | 292.6  | 306.7  |
| 87.5°  | 40.7   | 114.1  | 185.2  | 225.9  | 237.8  |
| 90°    | 4.0    | 83.2   | 152.7  | 193.4  | 204.9  |
| 92.5°  | 11.2   | 74.9   | 146.7  | 188.1  | 199.7  |
| 95°    | 31.4   | 105.6  | 190.2  | 239.4  | 261.8  |
| 97.5°  | 159.1  | 203.3  | 264.2  | 314.6  | 330.5  |
| 100°   | 327.1  | 367.1  | 346.1  | 372.5  | 379.6  |
| 102.5° | 511.4  | 528.4  | 417.3  | 392.2  | 389.5  |
| 105°   | 602.0  | 610.4  | 548.2  | 407.6  | 382.3  |



TEST NUMBER: P827713

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L930-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 491.8 | 500.2 | 505.4 | 499.1 | 480.3 |
| 115°   | 420.6 | 428.4 | 440.2 | 441.3 | 441.9 |
| 117.5° | 359.1 | 363.1 | 375.8 | 378.6 | 380.9 |
| 120°   | 300.9 | 307.3 | 320.3 | 321.5 | 320.7 |
| 122.5° | 252.4 | 259.7 | 271.9 | 273.2 | 272.3 |
| 125°   | 207.3 | 217.7 | 230.8 | 232.2 | 231.3 |
| 127.5° | 177.3 | 184.5 | 197.8 | 199.2 | 198.3 |
| 130°   | 154.6 | 161.0 | 169.6 | 173.4 | 174.2 |
| 132.5° | 140.0 | 143.2 | 150.3 | 154.1 | 155.7 |
| 135°   | 126.3 | 129.5 | 134.3 | 139.6 | 141.1 |
| 137.5° | 116.6 | 119.0 | 122.2 | 127.5 | 129.1 |
| 140°   | 107.7 | 110.1 | 111.7 | 116.3 | 117.9 |
| 142.5° | 99.6  | 102.8 | 104.4 | 107.5 | 109.0 |
| 145°   | 93.9  | 96.4  | 98.8  | 100.3 | 101.0 |
| 147.5° | 89.1  | 90.7  | 92.3  | 93.9  | 94.7  |
| 150°   | 84.2  | 85.8  | 87.5  | 88.3  | 89.1  |
| 152.5° | 81.0  | 81.8  | 83.4  | 84.2  | 84.2  |
| 155°   | 77.0  | 79.3  | 80.1  | 80.9  | 80.2  |
| 157.5° | 74.5  | 76.1  | 76.9  | 77.7  | 77.7  |
| 160°   | 72.1  | 72.8  | 73.6  | 74.4  | 74.4  |
| 162.5° | 70.4  | 70.4  | 71.2  | 72.0  | 72.0  |
| 165°   | 68.0  | 68.8  | 68.8  | 69.6  | 69.6  |
| 167.5° | 66.4  | 67.1  | 67.2  | 67.2  | 68.0  |
| 170°   | 64.7  | 64.7  | 65.6  | 64.8  | 64.8  |
| 172.5° | 63.1  | 63.9  | 63.9  | 63.2  | 63.2  |
| 175°   | 62.3  | 62.3  | 62.4  | 61.6  | 61.6  |
| 177.5° | 62.2  | 62.3  | 61.6  | 60.8  | 60.1  |
| 180°   | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 608.4 | 618.7 | 594.0 | 477.0 | 408.1 |
| 110°   | 558.2 | 572.1 | 566.3 | 524.4 | 470.2 |



(END OF REPORT)