

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: P826488

Luminaire Tested: **OHBL-15SE-NL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826488  
REPORT IS A COMBINATION OF REPORTS P826225 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-NL-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

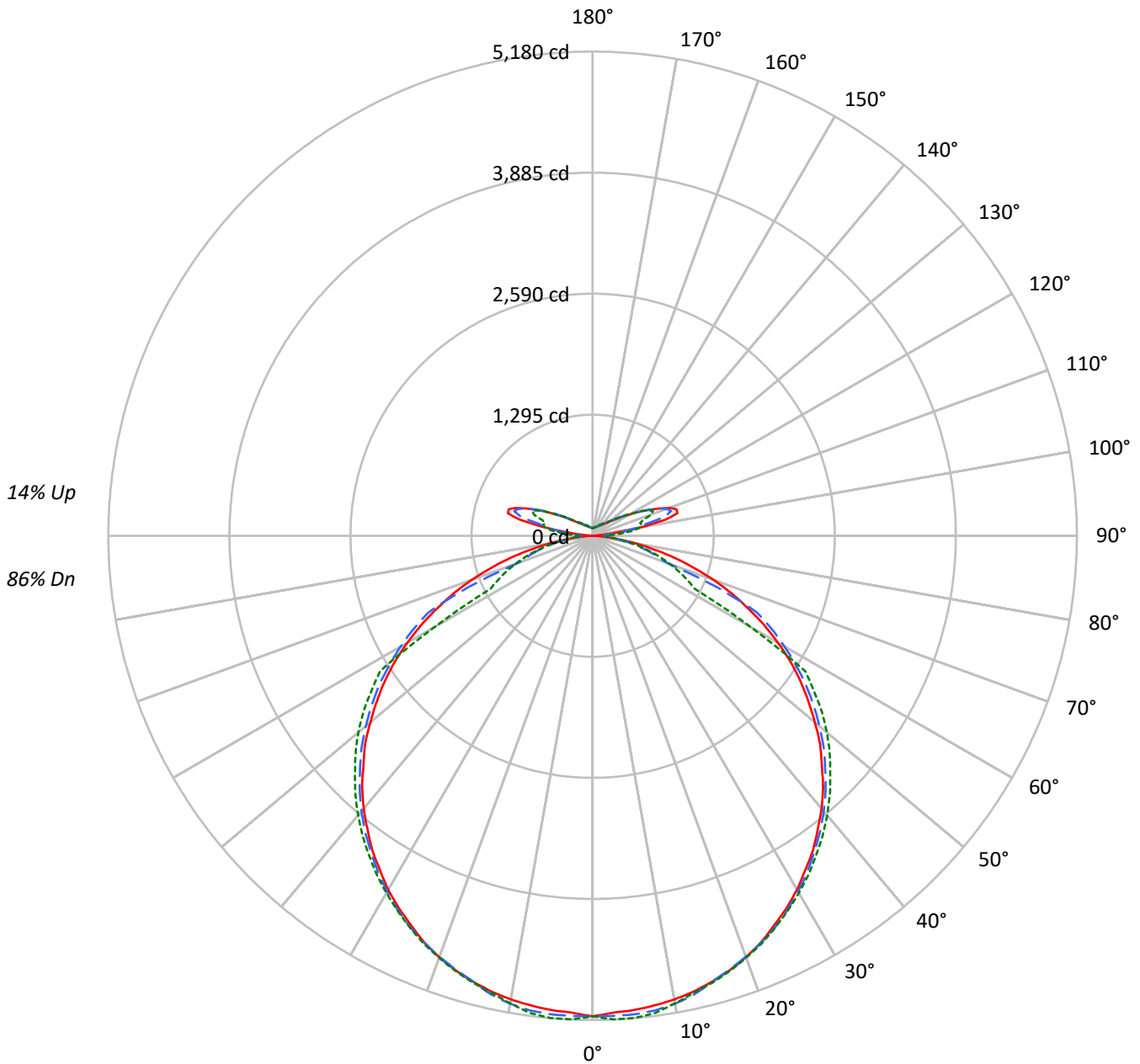
Lumens per Lamp: N/A  
Luminaire Lumens: 16687.9 lumens  
Efficiency: N/A  
Efficacy: 159.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 104.4  
Input Voltage (V): NR  
Input Current (Ain): 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 | 102 | 98  | 94  | 102 | 98  | 94  | 91  | 91  | 88  | 86  | 85 | 83 | 81 | 79 | 78 | 76 | 73 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 97  | 89  | 82  | 77  | 93  | 86  | 80  | 75  | 80  | 75  | 71  | 75 | 71 | 68 | 70 | 67 | 64 | 61 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 88  | 78  | 70  | 64  | 85  | 76  | 68  | 63  | 71  | 65  | 60  | 66 | 61 | 57 | 62 | 58 | 54 | 52 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 81  | 69  | 61  | 54  | 77  | 67  | 59  | 53  | 63  | 56  | 51  | 59 | 53 | 49 | 55 | 51 | 47 | 44 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 74  | 62  | 53  | 47  | 71  | 60  | 52  | 46  | 56  | 49  | 44  | 53 | 47 | 42 | 50 | 45 | 41 | 38 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 68  | 56  | 47  | 41  | 66  | 54  | 46  | 40  | 51  | 44  | 39  | 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 | 30 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 59  | 46  | 38  | 32  | 57  | 44  | 37  | 31  | 42  | 35  | 30  | 40 | 34 | 29 | 38 | 32 | 28 | 26 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 55  | 42  | 34  | 29  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 26 | 35 | 29 | 26 | 24 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 51  | 39  | 31  | 26  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 34 | 28 | 24 | 32 | 27 | 23 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16727 | 16727 | 16727 |
| 5°  | 16470 | 16640 | 16873 |
| 10° | 16311 | 16508 | 16699 |
| 15° | 16142 | 16202 | 16553 |
| 20° | 15950 | 16009 | 16471 |
| 25° | 15666 | 15849 | 16395 |
| 30° | 15407 | 15611 | 16324 |
| 35° | 15109 | 15338 | 16260 |
| 40° | 14761 | 15071 | 16212 |
| 45° | 14308 | 14719 | 16111 |
| 50° | 13821 | 14324 | 16047 |
| 55° | 13241 | 13836 | 15775 |
| 60° | 12427 | 13149 | 12186 |
| 65° | 11313 | 12282 | 8117  |
| 70° | 9914  | 6213  | 7760  |
| 75° | 7965  | 5483  | 7235  |
| 80° | 5302  | 4408  | 6336  |
| 85° | 1913  | 3262  | 5480  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 488.5   | 2.9       |
| 10°-20°   | 1398.6  | 8.4       |
| 20°-30°   | 2128.1  | 12.8      |
| 30°-40°   | 2587.5  | 15.5      |
| 40°-50°   | 2720.6  | 16.3      |
| 50°-60°   | 2484.3  | 14.9      |
| 60°-70°   | 1592.5  | 9.5       |
| 70°-80°   | 752.3   | 4.5       |
| 80°-90°   | 214.3   | 1.3       |
| 90°-100°  | 271.0   | 1.6       |
| 100°-110° | 764.1   | 4.6       |
| 110°-120° | 646.7   | 3.9       |
| 120°-130° | 308.2   | 1.8       |
| 130°-140° | 154.2   | 0.9       |
| 140°-150° | 89.4    | 0.5       |
| 150°-160° | 52.1    | 0.3       |
| 160°-170° | 27.0    | 0.2       |
| 170°-180° | 8.2     | 0.0       |
| 0°-30°    | 4015.2  | 24.1      |
| 0°-40°    | 6602.7  | 39.6      |
| 0°-60°    | 11807.7 | 70.8      |
| 0°-90°    | 14366.8 | 86.1      |
| 90°-120°  | 1681.8  | 10.1      |
| 90°-150°  | 2233.7  | 13.4      |
| 90°-180°  | 2321.0  | 13.9      |
| 0°-180°   | 16687.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5142 | 5142  | 5142 | 5142  | 5142 |      |
| 5°   | 5094 | 5114  | 5140 | 5168  | 5179 | 484  |
| 15°  | 4940 | 4976  | 4939 | 4946  | 4949 | 1395 |
| 25°  | 4597 | 4604  | 4620 | 4627  | 4624 | 2121 |
| 35°  | 4109 | 4084  | 4131 | 4182  | 4170 | 2568 |
| 45°  | 3465 | 3459  | 3518 | 3601  | 3594 | 2678 |
| 55°  | 2716 | 2695  | 2786 | 2879  | 2886 | 2422 |
| 65°  | 1830 | 1830  | 1936 | 1111  | 1114 | 1814 |
| 75°  | 904  | 921   | 598  | 630   | 632  | 953  |
| 85°  | 118  | 150   | 187  | 202   | 191  | 175  |
| 90°  | 5    | 82    | 127  | 156   | 161  | 9    |
| 95°  | 52   | 129   | 220  | 292   | 320  | 155  |
| 105° | 938  | 933   | 800  | 574   | 527  | 890  |
| 115° | 648  | 657   | 659  | 655   | 644  | 653  |
| 125° | 314  | 331   | 338  | 337   | 334  | 295  |
| 135° | 186  | 190   | 196  | 198   | 200  | 147  |
| 145° | 135  | 139   | 141  | 142   | 143  | 86   |
| 155° | 108  | 110   | 112  | 113   | 113  | 51   |
| 165° | 93   | 94    | 95   | 95    | 95   | 27   |
| 175° | 84   | 85    | 85   | 86    | 86   | 8    |
| 180° | 84   | 84    | 84   | 84    | 84   |      |



TEST NUMBER: P826488

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5141.6 | 5141.6 | 5141.6 | 5141.6 | 5141.6 |
| 2.5°   | 5105.5 | 5122.7 | 5141.6 | 5166.0 | 5179.5 |
| 5°     | 5093.8 | 5113.7 | 5139.8 | 5167.8 | 5178.6 |
| 7.5°   | 5068.6 | 5096.5 | 5121.8 | 5141.6 | 5147.9 |
| 10°    | 5036.9 | 5070.4 | 5084.8 | 5083.0 | 5078.5 |
| 12.5°  | 4994.6 | 5029.7 | 5025.3 | 5004.4 | 5008.1 |
| 15°    | 4939.5 | 4976.5 | 4938.6 | 4945.8 | 4949.4 |
| 17.5°  | 4874.5 | 4910.6 | 4866.4 | 4880.9 | 4881.8 |
| 20°    | 4798.8 | 4825.9 | 4791.5 | 4803.3 | 4803.3 |
| 22.5°  | 4707.7 | 4726.6 | 4712.1 | 4720.3 | 4722.1 |
| 25°    | 4596.7 | 4603.8 | 4620.1 | 4627.4 | 4623.7 |
| 27.5°  | 4490.3 | 4481.2 | 4512.8 | 4529.9 | 4520.8 |
| 30°    | 4372.0 | 4357.6 | 4394.5 | 4422.6 | 4411.8 |
| 32.5°  | 4236.7 | 4227.7 | 4270.1 | 4303.4 | 4297.1 |
| 35°    | 4108.6 | 4084.2 | 4131.1 | 4181.6 | 4169.9 |
| 37.5°  | 3957.0 | 3942.6 | 3995.8 | 4049.1 | 4042.8 |
| 40°    | 3809.0 | 3784.7 | 3845.1 | 3908.3 | 3902.0 |
| 42.5°  | 3650.3 | 3621.4 | 3687.2 | 3763.1 | 3755.8 |
| 45°    | 3465.3 | 3459.0 | 3517.6 | 3600.6 | 3594.4 |
| 47.5°  | 3301.1 | 3269.6 | 3351.6 | 3432.0 | 3439.2 |
| 50°    | 3102.6 | 3090.9 | 3165.8 | 3263.3 | 3270.4 |
| 52.5°  | 2908.7 | 2900.6 | 2979.0 | 3077.3 | 3090.0 |
| 55°    | 2715.5 | 2694.9 | 2786.0 | 2879.0 | 2886.2 |
| 57.5°  | 2509.1 | 2487.4 | 2580.3 | 2681.4 | 2696.7 |
| 60°    | 2288.0 | 2267.2 | 2369.1 | 2463.0 | 1958.7 |
| 62.5°  | 2067.0 | 2052.5 | 2159.0 | 1529.3 | 1232.4 |
| 65°    | 1829.7 | 1829.7 | 1936.0 | 1110.6 | 1114.2 |
| 67.5°  | 1607.7 | 1593.3 | 1443.6 | 997.7  | 997.7  |
| 70°    | 1369.5 | 1375.0 | 831.7  | 874.3  | 875.1  |
| 72.5°  | 1130.4 | 1150.4 | 718.2  | 752.4  | 754.2  |
| 75°    | 903.9  | 921.2  | 598.2  | 629.7  | 632.4  |
| 77.5°  | 664.0  | 510.6  | 480.8  | 505.3  | 506.1  |
| 80°    | 466.4  | 322.1  | 368.1  | 391.5  | 388.9  |
| 82.5°  | 272.4  | 225.5  | 269.8  | 286.9  | 286.0  |
| 85°    | 118.2  | 149.7  | 186.8  | 202.1  | 191.2  |
| 87.5°  | 37.8   | 93.0   | 116.3  | 125.4  | 124.4  |
| 90°    | 4.7    | 82.2   | 126.7  | 156.0  | 160.8  |
| 92.5°  | 15.8   | 81.5   | 139.2  | 185.2  | 198.1  |
| 95°    | 52.0   | 129.4  | 219.7  | 292.5  | 320.4  |
| 97.5°  | 252.2  | 289.7  | 333.7  | 415.8  | 448.3  |
| 100°   | 515.5  | 560.6  | 468.2  | 510.3  | 519.7  |
| 102.5° | 798.2  | 801.7  | 592.2  | 544.4  | 537.9  |
| 105°   | 937.8  | 933.1  | 799.8  | 573.7  | 527.3  |



TEST NUMBER: P826488

CATALOG NUMBER: OHBL-15SE-NL-UNV-L830-CD-UPL24

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 757.4 | 770.3 | 758.1 | 734.0 | 697.8 |
| 115°   | 648.4 | 656.8 | 659.4 | 654.9 | 643.9 |
| 117.5° | 550.9 | 551.8 | 555.5 | 554.6 | 555.5 |
| 120°   | 456.0 | 466.2 | 474.6 | 469.9 | 464.3 |
| 122.5° | 382.5 | 393.6 | 399.2 | 397.3 | 391.8 |
| 125°   | 314.5 | 331.3 | 337.8 | 336.9 | 334.1 |
| 127.5° | 266.1 | 278.2 | 287.5 | 288.5 | 287.5 |
| 130°   | 231.7 | 239.2 | 248.5 | 249.4 | 250.3 |
| 132.5° | 205.7 | 212.2 | 218.7 | 222.4 | 221.5 |
| 135°   | 186.1 | 189.8 | 196.3 | 198.2 | 200.1 |
| 137.5° | 170.3 | 173.1 | 178.7 | 181.5 | 181.5 |
| 140°   | 156.3 | 160.1 | 164.7 | 166.6 | 167.5 |
| 142.5° | 144.2 | 148.0 | 151.7 | 153.5 | 153.5 |
| 145°   | 134.9 | 138.7 | 141.4 | 142.4 | 143.3 |
| 147.5° | 126.6 | 130.3 | 132.1 | 134.0 | 134.0 |
| 150°   | 120.0 | 121.9 | 124.7 | 125.6 | 126.6 |
| 152.5° | 113.5 | 115.4 | 118.2 | 119.1 | 119.1 |
| 155°   | 107.9 | 109.8 | 111.7 | 112.6 | 112.6 |
| 157.5° | 103.3 | 105.2 | 107.0 | 107.9 | 107.9 |
| 160°   | 99.6  | 100.5 | 102.4 | 103.3 | 103.3 |
| 162.5° | 95.8  | 96.8  | 97.7  | 98.6  | 98.6  |
| 165°   | 93.1  | 94.0  | 94.9  | 94.9  | 94.9  |
| 167.5° | 90.3  | 90.3  | 91.2  | 92.1  | 92.1  |
| 170°   | 87.5  | 88.4  | 88.4  | 89.3  | 89.3  |
| 172.5° | 85.6  | 86.5  | 86.5  | 86.5  | 87.5  |
| 175°   | 83.8  | 84.7  | 84.7  | 85.6  | 85.6  |
| 177.5° | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  |
| 180°   | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 941.5 | 949.7 | 880.8 | 686.5 | 567.5 |
| 110°   | 870.0 | 881.0 | 841.8 | 766.6 | 669.0 |



(END OF REPORT)