

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: P827719

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827719  
REPORT IS A COMBINATION OF REPORTS P826164 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-N-UNV-L930-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

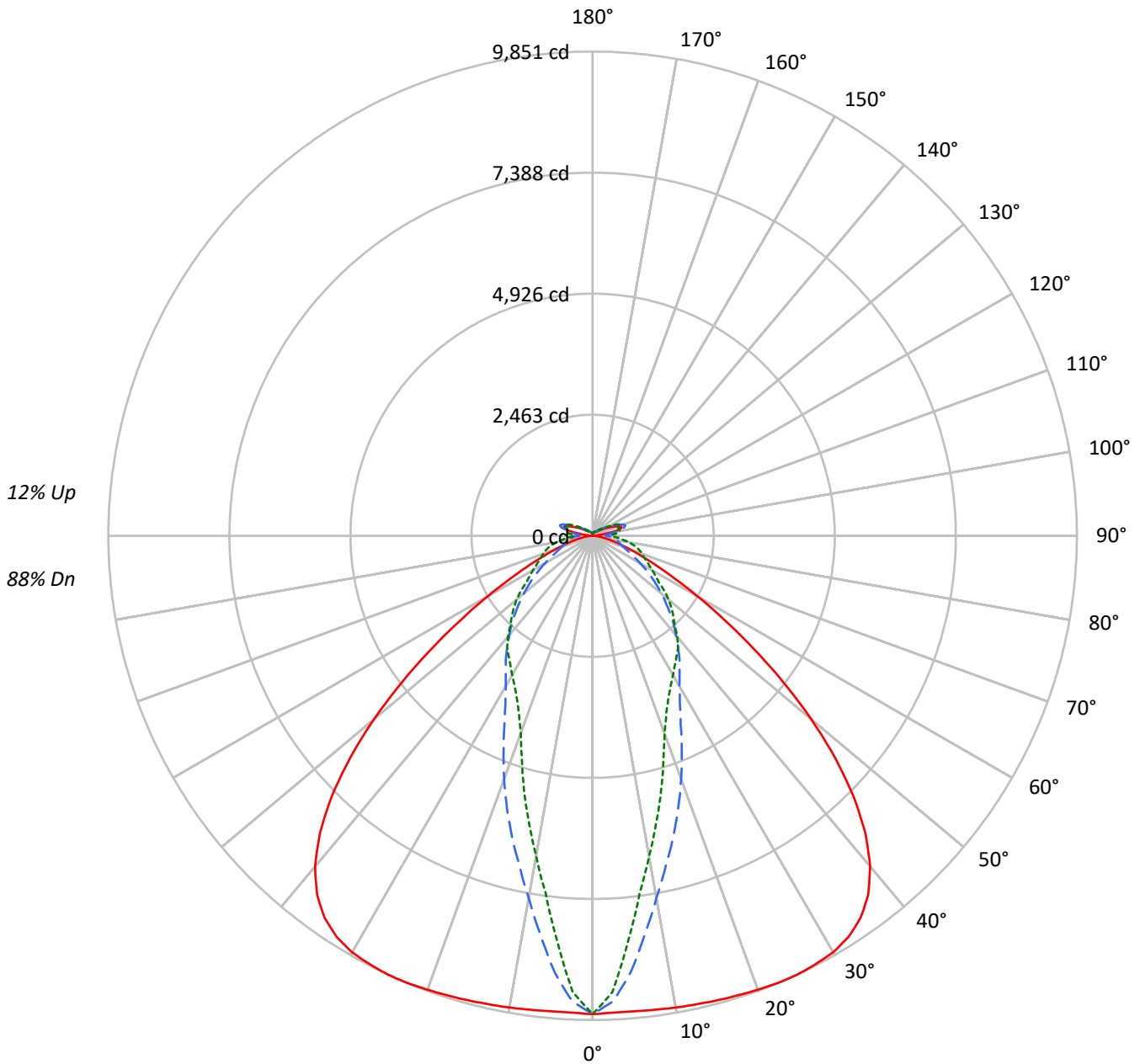
Lumens per Lamp: N/A  
Luminaire Lumens: 15809.3 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 91 | 91 | 91 | 88 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 107 | 102 | 98  | 95  | 103 | 99  | 95  | 92  | 92  | 90  | 87  | 87 | 84 | 82 | 81 | 79 | 78 | 75 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 91  | 85  | 79  | 94  | 88  | 82  | 77  | 82  | 78  | 74  | 77 | 74 | 70 | 73 | 70 | 67 | 64 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 90  | 81  | 74  | 68  | 87  | 78  | 72  | 66  | 74  | 68  | 64  | 70 | 65 | 61 | 66 | 62 | 59 | 56 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 73  | 65  | 59  | 80  | 71  | 63  | 58  | 67  | 61  | 56  | 63 | 58 | 54 | 60 | 55 | 52 | 49 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 66  | 58  | 52  | 75  | 64  | 56  | 51  | 61  | 54  | 49  | 57 | 52 | 48 | 54 | 50 | 46 | 44 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 72  | 60  | 52  | 46  | 69  | 58  | 51  | 45  | 55  | 49  | 44  | 53 | 47 | 43 | 50 | 45 | 41 | 39 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 67  | 55  | 47  | 41  | 65  | 53  | 46  | 41  | 51  | 44  | 40  | 48 | 43 | 39 | 46 | 41 | 37 | 35 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 63  | 50  | 43  | 37  | 61  | 49  | 42  | 37  | 47  | 41  | 36  | 45 | 39 | 35 | 43 | 38 | 34 | 32 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 59  | 47  | 39  | 34  | 57  | 46  | 38  | 34  | 44  | 37  | 33  | 42 | 36 | 32 | 40 | 35 | 31 | 30 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 56  | 43  | 36  | 31  | 54  | 42  | 36  | 31  | 41  | 34  | 30  | 39 | 33 | 30 | 37 | 32 | 29 | 27 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16621 | 16621 | 16621 |
| 5°  | 16507 | 15136 | 14142 |
| 10° | 16612 | 12750 | 11395 |
| 15° | 16852 | 10904 | 9399  |
| 20° | 17237 | 9220  | 7641  |
| 25° | 17737 | 7631  | 6732  |
| 30° | 18245 | 6575  | 6290  |
| 35° | 18508 | 5992  | 6030  |
| 40° | 18064 | 5412  | 5761  |
| 45° | 16487 | 4891  | 5376  |
| 50° | 13783 | 4321  | 5092  |
| 55° | 10358 | 3785  | 4582  |
| 60° | 7160  | 3246  | 4447  |
| 65° | 4731  | 2795  | 4432  |
| 70° | 3153  | 2623  | 4765  |
| 75° | 2110  | 2706  | 5280  |
| 80° | 1366  | 2996  | 5779  |
| 85° | 703   | 3748  | 6891  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 819.2   | 5.2       |
| 10°-20°   | 1927.1  | 12.2      |
| 20°-30°   | 2415.6  | 15.3      |
| 30°-40°   | 2563.2  | 16.2      |
| 40°-50°   | 2317.5  | 14.7      |
| 50°-60°   | 1680.4  | 10.6      |
| 60°-70°   | 1054.5  | 6.7       |
| 70°-80°   | 697.8   | 4.4       |
| 80°-90°   | 405.7   | 2.6       |
| 90°-100°  | 333.2   | 2.1       |
| 100°-110° | 615.1   | 3.9       |
| 110°-120° | 495.9   | 3.1       |
| 120°-130° | 238.5   | 1.5       |
| 130°-140° | 117.5   | 0.7       |
| 140°-150° | 67.6    | 0.4       |
| 150°-160° | 38.0    | 0.2       |
| 160°-170° | 17.4    | 0.1       |
| 170°-180° | 5.3     | 0.0       |
| 0°-30°    | 5161.8  | 32.7      |
| 0°-40°    | 7725.0  | 48.9      |
| 0°-60°    | 11722.8 | 74.2      |
| 0°-90°    | 13880.8 | 87.8      |
| 90°-120°  | 1444.2  | 9.1       |
| 90°-150°  | 1867.8  | 11.8      |
| 90°-180°  | 1928.0  | 12.2      |
| 0°-180°   | 15809.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 9731 | 9731  | 9731 | 9731  | 9731 |      |
| 5°   | 9712 | 9463  | 8907 | 8494  | 8280 | 928  |
| 15°  | 9786 | 7976  | 6335 | 5634  | 5378 | 2775 |
| 25°  | 9851 | 6167  | 4242 | 3765  | 3645 | 4551 |
| 35°  | 9498 | 4100  | 3079 | 2982  | 2981 | 5904 |
| 45°  | 7508 | 2597  | 2231 | 2285  | 2324 | 5720 |
| 55°  | 3975 | 1610  | 1456 | 1579  | 1636 | 3592 |
| 65°  | 1422 | 934   | 843  | 1080  | 1200 | 1479 |
| 75°  | 439  | 503   | 566  | 879   | 932  | 489  |
| 85°  | 77   | 208   | 414  | 576   | 529  | 92   |
| 90°  | 3    | 107   | 267  | 374   | 381  | 7    |
| 95°  | 34   | 127   | 315  | 422   | 454  | 100  |
| 105° | 606  | 634   | 660  | 560   | 538  | 576  |
| 115° | 425  | 448   | 522  | 544   | 546  | 428  |
| 125° | 213  | 227   | 270  | 283   | 281  | 200  |
| 135° | 129  | 133   | 149  | 164   | 165  | 102  |
| 145° | 98   | 101   | 105  | 114   | 112  | 62   |
| 155° | 81   | 85    | 87   | 88    | 87   | 36   |
| 165° | 60   | 61    | 61   | 61    | 61   | 17   |
| 175° | 54   | 54    | 55   | 55    | 55   | 5    |
| 180° | 54   | 54    | 54   | 54    | 54   |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 9731.4 | 9731.4 | 9731.4 | 9731.4 | 9731.4 |
| 2.5°   | 9711.0 | 9655.4 | 9482.2 | 9376.6 | 9287.7 |
| 5°     | 9711.9 | 9462.8 | 8907.0 | 8494.0 | 8280.0 |
| 7.5°   | 9725.8 | 9171.9 | 8170.7 | 7567.8 | 7332.6 |
| 10°    | 9747.0 | 8811.6 | 7483.5 | 6840.8 | 6621.2 |
| 12.5°  | 9762.8 | 8405.9 | 6878.7 | 6218.3 | 5977.5 |
| 15°    | 9786.0 | 7976.2 | 6335.1 | 5633.9 | 5378.3 |
| 17.5°  | 9807.3 | 7571.5 | 5797.9 | 5065.3 | 4780.9 |
| 20°    | 9828.6 | 7135.2 | 5260.7 | 4505.8 | 4271.6 |
| 22.5°  | 9849.0 | 6675.0 | 4736.4 | 4071.5 | 3911.3 |
| 25°    | 9850.8 | 6167.4 | 4241.9 | 3764.9 | 3645.4 |
| 27.5°  | 9826.7 | 5641.4 | 3840.9 | 3508.3 | 3434.3 |
| 30°    | 9785.0 | 5131.1 | 3529.7 | 3323.1 | 3270.4 |
| 32.5°  | 9681.3 | 4610.5 | 3288.9 | 3144.3 | 3113.8 |
| 35°    | 9497.9 | 4100.2 | 3078.6 | 2982.3 | 2981.4 |
| 37.5°  | 9208.9 | 3647.3 | 2850.7 | 2834.1 | 2854.5 |
| 40°    | 8782.0 | 3250.9 | 2635.0 | 2679.5 | 2679.5 |
| 42.5°  | 8212.4 | 2906.4 | 2439.6 | 2484.9 | 2472.9 |
| 45°    | 7508.5 | 2597.0 | 2231.2 | 2284.9 | 2323.8 |
| 47.5°  | 6692.5 | 2324.7 | 2018.2 | 2121.9 | 2175.5 |
| 50°    | 5805.3 | 2065.4 | 1823.7 | 1956.1 | 2017.2 |
| 52.5°  | 4875.4 | 1825.5 | 1633.8 | 1785.7 | 1834.8 |
| 55°    | 3975.1 | 1609.7 | 1456.0 | 1579.2 | 1635.7 |
| 57.5°  | 3160.1 | 1404.1 | 1281.9 | 1398.5 | 1515.2 |
| 60°    | 2459.0 | 1227.2 | 1117.9 | 1284.6 | 1401.3 |
| 62.5°  | 1878.3 | 1069.7 | 964.2  | 1178.1 | 1294.8 |
| 65°    | 1421.7 | 933.6  | 842.8  | 1079.9 | 1200.3 |
| 67.5°  | 1071.6 | 815.9  | 748.4  | 1008.6 | 1126.3 |
| 70°    | 804.9  | 702.0  | 672.4  | 964.2  | 1069.7 |
| 72.5°  | 594.6  | 597.4  | 612.2  | 925.2  | 1005.8 |
| 75°    | 439.0  | 502.9  | 565.9  | 879.0  | 931.8  |
| 77.5°  | 314.0  | 416.8  | 524.2  | 823.4  | 841.9  |
| 80°    | 217.7  | 339.9  | 480.7  | 750.2  | 734.5  |
| 82.5°  | 136.1  | 272.3  | 441.8  | 669.6  | 626.1  |
| 85°    | 76.9   | 208.4  | 414.0  | 576.1  | 528.8  |
| 87.5°  | 34.3   | 155.6  | 362.1  | 449.2  | 419.5  |
| 90°    | 3.2    | 107.3  | 267.4  | 374.4  | 381.2  |
| 92.5°  | 12.4   | 98.9   | 265.8  | 370.8  | 386.5  |
| 95°    | 34.4   | 127.4  | 315.4  | 422.1  | 454.4  |
| 97.5°  | 162.2  | 225.9  | 390.6  | 494.7  | 518.7  |
| 100°   | 330.5  | 389.3  | 468.6  | 545.3  | 559.4  |
| 102.5° | 514.9  | 552.1  | 534.6  | 554.6  | 557.2  |
| 105°   | 606.4  | 634.1  | 659.8  | 560.3  | 538.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 495.9 | 521.4 | 595.9 | 613.5 | 598.0 |
| 115°   | 424.9 | 448.2 | 522.4 | 543.5 | 545.5 |
| 117.5° | 364.3 | 380.6 | 448.1 | 469.6 | 471.3 |
| 120°   | 306.1 | 322.9 | 381.7 | 398.8 | 397.1 |
| 122.5° | 257.6 | 272.3 | 322.7 | 336.0 | 333.4 |
| 125°   | 213.2 | 226.6 | 270.2 | 283.3 | 280.8 |
| 127.5° | 181.6 | 190.7 | 228.5 | 240.6 | 238.1 |
| 130°   | 158.9 | 166.4 | 193.5 | 207.3 | 208.1 |
| 132.5° | 142.7 | 146.9 | 168.5 | 182.2 | 183.8 |
| 135°   | 128.9 | 133.1 | 149.2 | 163.8 | 164.7 |
| 137.5° | 118.4 | 123.6 | 134.3 | 147.9 | 148.7 |
| 140°   | 109.5 | 113.7 | 121.7 | 134.5 | 135.3 |
| 142.5° | 103.1 | 106.5 | 112.6 | 122.7 | 123.5 |
| 145°   | 98.4  | 101.0 | 105.2 | 113.5 | 112.5 |
| 147.5° | 92.7  | 96.2  | 98.8  | 105.0 | 104.1 |
| 150°   | 87.9  | 92.3  | 93.9  | 97.5  | 97.4  |
| 152.5° | 84.6  | 88.3  | 89.9  | 92.6  | 91.6  |
| 155°   | 80.6  | 85.0  | 86.7  | 88.5  | 86.7  |
| 157.5° | 67.1  | 67.9  | 68.7  | 69.5  | 69.5  |
| 160°   | 64.7  | 64.7  | 65.5  | 66.3  | 66.3  |
| 162.5° | 62.2  | 62.2  | 63.0  | 63.9  | 63.9  |
| 165°   | 59.8  | 60.6  | 60.6  | 61.4  | 61.4  |
| 167.5° | 58.2  | 58.2  | 59.0  | 59.0  | 59.8  |
| 170°   | 56.6  | 56.6  | 57.4  | 57.4  | 57.4  |
| 172.5° | 55.0  | 55.8  | 55.8  | 55.8  | 55.8  |
| 175°   | 54.2  | 54.2  | 55.0  | 55.0  | 55.0  |
| 177.5° | 53.4  | 54.2  | 54.2  | 54.2  | 54.2  |
| 180°   | 54.2  | 54.2  | 54.2  | 54.2  | 54.2  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 612.1 | 642.6 | 698.6 | 615.7 | 551.8 |
| 110°   | 562.0 | 594.4 | 664.7 | 650.5 | 601.2 |



(END OF REPORT)