

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: P826376

Luminaire Tested: **OHB-18SE-N-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826376
REPORT IS A COMBINATION OF REPORTS P826200 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: OHB-18SE-N-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

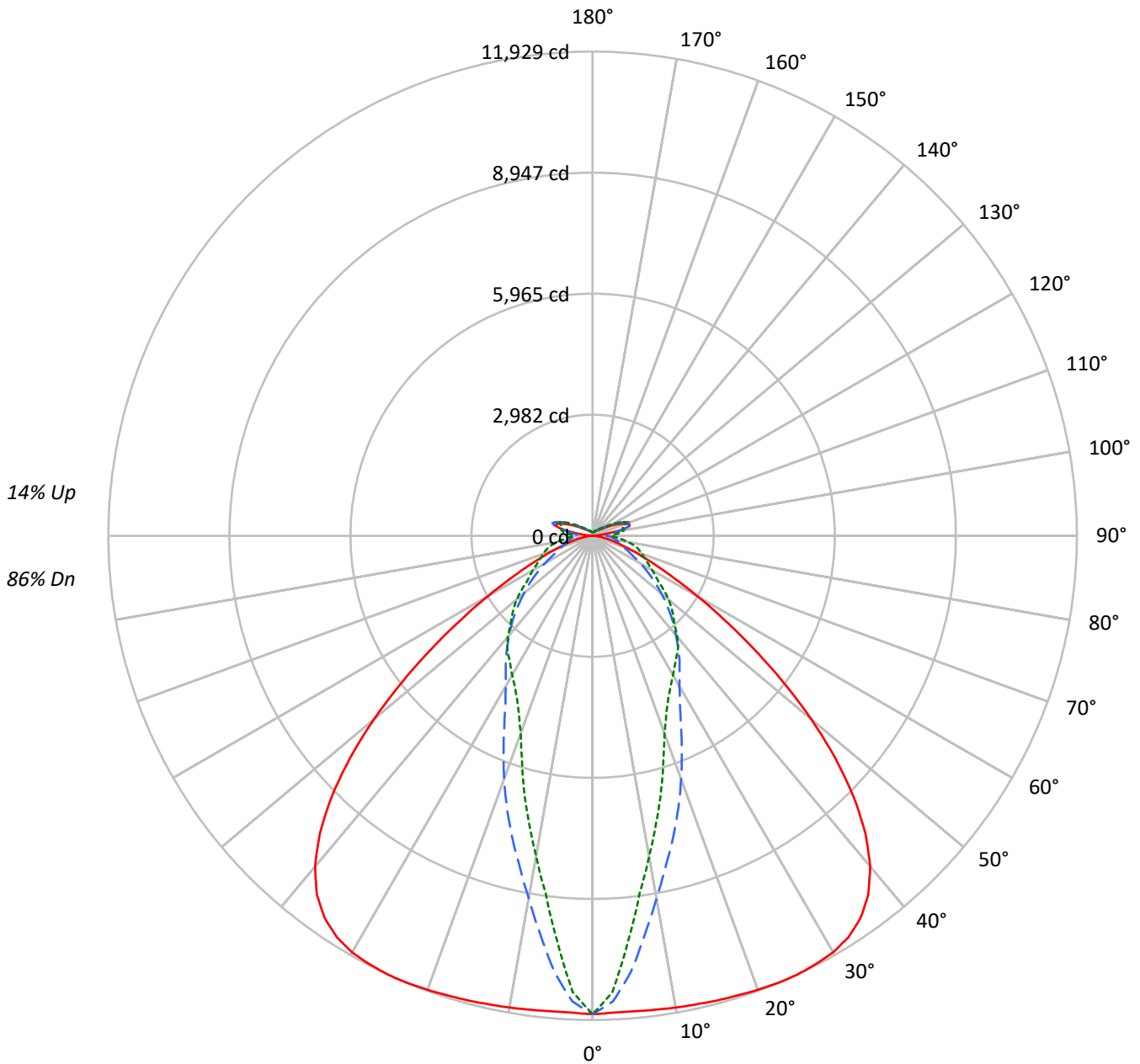
Lumens per Lamp: N/A
Luminaire Lumens: 19645.2 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): 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: P826376

CATALOG NUMBER: OHB-18SE-N-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826376

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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 | 95 | 91 | 91 | 89 | 86 | 85 | 83 | 81 | 79 | 78 | 76 | 73 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 84 | 79 | 94 | 87 | 82 | 77 | 81 | 77 | 73 | 76 | 72 | 69 | 71 | 68 | 66 | 63 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 80 | 73 | 67 | 86 | 78 | 71 | 66 | 73 | 67 | 63 | 68 | 64 | 60 | 64 | 60 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 72 | 64 | 58 | 80 | 70 | 63 | 57 | 66 | 60 | 55 | 62 | 57 | 53 | 58 | 54 | 51 | 48 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 65 | 57 | 51 | 74 | 63 | 56 | 50 | 60 | 53 | 49 | 56 | 51 | 47 | 53 | 49 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 59 | 51 | 46 | 69 | 58 | 50 | 45 | 55 | 48 | 43 | 52 | 46 | 42 | 49 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 7 | 67 | 54 | 46 | 41 | 64 | 53 | 46 | 40 | 50 | 44 | 39 | 48 | 42 | 38 | 45 | 40 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 62 | 50 | 42 | 37 | 60 | 49 | 42 | 36 | 46 | 40 | 35 | 44 | 38 | 34 | 42 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 59 | 46 | 39 | 34 | 57 | 45 | 38 | 33 | 43 | 37 | 32 | 41 | 35 | 31 | 39 | 34 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 10 | 55 | 43 | 36 | 31 | 53 | 42 | 35 | 30 | 40 | 34 | 30 | 38 | 33 | 29 | 37 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 39367 | 39367 | 39367 |
| 5° | 39096 | 35758 | 33372 |
| 10° | 39345 | 30043 | 26791 |
| 15° | 39915 | 25628 | 22016 |
| 20° | 40826 | 21611 | 17830 |
| 25° | 42011 | 17838 | 15643 |
| 30° | 43213 | 15323 | 14552 |
| 35° | 43835 | 13920 | 13885 |
| 40° | 42786 | 12530 | 13195 |
| 45° | 39050 | 11279 | 12239 |
| 50° | 32645 | 9920 | 11513 |
| 55° | 24533 | 8643 | 10271 |
| 60° | 16958 | 7365 | 9865 |
| 65° | 11205 | 6291 | 9697 |
| 70° | 7468 | 5840 | 10229 |
| 75° | 4996 | 5930 | 11017 |
| 80° | 3234 | 6411 | 11491 |
| 85° | 1665 | 7671 | 12362 |



TEST NUMBER: P826376

CATALOG NUMBER: OHB-18SE-N-UNV-L830-CD-UPL24

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 992.0 | 5.0 |
| 10°-20° | 2333.7 | 11.9 |
| 20°-30° | 2925.2 | 14.9 |
| 30°-40° | 3104.0 | 15.8 |
| 40°-50° | 2806.5 | 14.3 |
| 50°-60° | 2034.9 | 10.4 |
| 60°-70° | 1277.0 | 6.5 |
| 70°-80° | 845.1 | 4.3 |
| 80°-90° | 492.6 | 2.5 |
| 90°-100° | 451.6 | 2.3 |
| 100°-110° | 911.8 | 4.6 |
| 110°-120° | 743.0 | 3.8 |
| 120°-130° | 356.9 | 1.8 |
| 130°-140° | 176.6 | 0.9 |
| 140°-150° | 101.6 | 0.5 |
| 150°-160° | 57.4 | 0.3 |
| 160°-170° | 27.0 | 0.1 |
| 170°-180° | 8.2 | 0.0 |
| 0°-30° | 6250.9 | 31.8 |
| 0°-40° | 9354.9 | 47.6 |
| 0°-60° | 14196.4 | 72.3 |
| 0°-90° | 16811.0 | 85.6 |
| 90°-120° | 2106.4 | 10.7 |
| 90°-150° | 2741.6 | 14.0 |
| 90°-180° | 2834.0 | 14.4 |
| 0°-180° | 19645.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 11785 | 11785 | 11785 | 11785 | 11785 | |
| 5° | 11761 | 11459 | 10786 | 10286 | 10027 | ### |
| 15° | 11851 | 9659 | 7672 | 6823 | 6513 | 3361 |
| 25° | 11929 | 7469 | 5137 | 4559 | 4415 | 5511 |
| 35° | 11502 | 4965 | 3728 | 3612 | 3610 | 7150 |
| 45° | 9093 | 3145 | 2702 | 2767 | 2814 | 6927 |
| 55° | 4814 | 1949 | 1763 | 1912 | 1981 | 4350 |
| 65° | 1722 | 1130 | 1021 | 1308 | 1454 | 1792 |
| 75° | 532 | 609 | 685 | 1064 | 1128 | 593 |
| 85° | 93 | 252 | 501 | 698 | 640 | 112 |
| 90° | 5 | 137 | 334 | 467 | 477 | 9 |
| 95° | 54 | 177 | 416 | 560 | 604 | 157 |
| 105° | 942 | 972 | 972 | 806 | 767 | 895 |
| 115° | 656 | 685 | 776 | 806 | 803 | 662 |
| 125° | 328 | 349 | 402 | 418 | 414 | 307 |
| 135° | 197 | 203 | 224 | 242 | 244 | 156 |
| 145° | 148 | 153 | 158 | 168 | 168 | 94 |
| 155° | 121 | 127 | 130 | 132 | 129 | 55 |
| 165° | 93 | 94 | 95 | 95 | 95 | 27 |
| 175° | 84 | 85 | 85 | 86 | 86 | 8 |
| 180° | 84 | 84 | 84 | 84 | 84 | |



TEST NUMBER: P826376

CATALOG NUMBER: OHB-18SE-N-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 11784.6 | 11784.6 | 11784.6 | 11784.6 | 11784.6 |
| 2.5° | 11760.0 | 11692.7 | 11483.0 | 11355.1 | 11247.4 |
| 5° | 11761.1 | 11459.4 | 10786.4 | 10286.3 | 10027.1 |
| 7.5° | 11777.9 | 11107.2 | 9894.8 | 9164.7 | 8879.7 |
| 10° | 11803.7 | 10671.0 | 9062.6 | 8284.2 | 8018.3 |
| 12.5° | 11822.8 | 10179.7 | 8330.1 | 7530.4 | 7238.8 |
| 15° | 11850.9 | 9659.3 | 7671.8 | 6822.7 | 6513.1 |
| 17.5° | 11876.7 | 9169.1 | 7021.2 | 6134.0 | 5789.7 |
| 20° | 11902.5 | 8640.9 | 6370.7 | 5456.6 | 5172.9 |
| 22.5° | 11927.1 | 8083.4 | 5735.9 | 4930.5 | 4736.5 |
| 25° | 11929.4 | 7468.7 | 5136.9 | 4559.4 | 4414.6 |
| 27.5° | 11900.2 | 6831.7 | 4651.3 | 4248.6 | 4158.9 |
| 30° | 11849.8 | 6213.7 | 4274.4 | 4024.3 | 3960.4 |
| 32.5° | 11724.2 | 5583.3 | 3982.8 | 3807.8 | 3770.8 |
| 35° | 11502.0 | 4965.4 | 3728.2 | 3611.6 | 3610.5 |
| 37.5° | 11152.2 | 4416.9 | 3452.3 | 3432.1 | 3456.8 |
| 40° | 10635.0 | 3936.8 | 3191.0 | 3244.8 | 3244.8 |
| 42.5° | 9945.2 | 3519.5 | 2954.3 | 3009.2 | 2994.7 |
| 45° | 9092.8 | 3145.0 | 2702.0 | 2767.0 | 2814.1 |
| 47.5° | 8104.7 | 2815.2 | 2444.0 | 2569.6 | 2634.7 |
| 50° | 7030.3 | 2501.1 | 2208.4 | 2368.8 | 2442.9 |
| 52.5° | 5904.1 | 2210.7 | 1978.5 | 2162.4 | 2221.9 |
| 55° | 4814.0 | 1949.3 | 1763.1 | 1912.3 | 1980.8 |
| 57.5° | 3826.9 | 1700.3 | 1552.3 | 1693.6 | 1835.0 |
| 60° | 2977.9 | 1486.1 | 1353.8 | 1555.7 | 1697.0 |
| 62.5° | 2274.6 | 1295.4 | 1167.6 | 1426.6 | 1568.0 |
| 65° | 1721.6 | 1130.5 | 1020.6 | 1307.8 | 1453.6 |
| 67.5° | 1297.7 | 988.2 | 906.3 | 1221.4 | 1363.9 |
| 70° | 974.7 | 850.2 | 814.3 | 1167.6 | 1295.4 |
| 72.5° | 720.1 | 723.4 | 741.4 | 1120.5 | 1218.1 |
| 75° | 531.6 | 609.0 | 685.3 | 1064.4 | 1128.3 |
| 77.5° | 380.2 | 504.7 | 634.8 | 997.1 | 1019.5 |
| 80° | 263.5 | 411.6 | 582.2 | 908.5 | 889.4 |
| 82.5° | 164.9 | 329.8 | 535.0 | 810.9 | 758.2 |
| 85° | 93.1 | 252.4 | 501.4 | 697.6 | 640.4 |
| 87.5° | 41.5 | 188.4 | 438.6 | 544.0 | 508.1 |
| 90° | 4.7 | 137.1 | 334.3 | 467.0 | 477.0 |
| 92.5° | 18.1 | 129.3 | 335.1 | 469.6 | 492.8 |
| 95° | 53.8 | 177.4 | 415.8 | 559.8 | 603.5 |
| 97.5° | 255.9 | 335.8 | 531.3 | 675.7 | 719.9 |
| 100° | 520.4 | 603.7 | 661.1 | 762.5 | 782.1 |
| 102.5° | 801.6 | 843.0 | 778.1 | 785.9 | 787.3 |
| 105° | 942.3 | 972.4 | 971.6 | 806.0 | 767.2 |



TEST NUMBER: P826376

CATALOG NUMBER: OHB-18SE-N-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 763.1 | 801.2 | 888.4 | 903.9 | 879.8 |
| 115° | 656.3 | 685.3 | 776.1 | 805.6 | 803.4 |
| 117.5° | 564.4 | 582.1 | 665.4 | 692.6 | 694.7 |
| 120° | 469.5 | 493.1 | 568.8 | 587.7 | 582.2 |
| 122.5° | 396.0 | 416.1 | 477.7 | 495.0 | 488.3 |
| 125° | 328.0 | 349.2 | 401.7 | 417.6 | 413.7 |
| 127.5° | 278.5 | 292.8 | 339.1 | 355.8 | 353.7 |
| 130° | 244.1 | 253.8 | 290.0 | 306.6 | 307.5 |
| 132.5° | 216.9 | 225.7 | 252.4 | 271.7 | 270.8 |
| 135° | 197.4 | 203.3 | 224.4 | 241.9 | 243.8 |
| 137.5° | 181.6 | 187.7 | 202.2 | 219.6 | 219.6 |
| 140° | 167.6 | 173.5 | 184.9 | 200.3 | 201.2 |
| 142.5° | 156.6 | 161.5 | 169.6 | 182.7 | 182.7 |
| 145° | 148.4 | 153.3 | 158.3 | 168.2 | 168.0 |
| 147.5° | 140.0 | 146.0 | 149.0 | 156.4 | 155.3 |
| 150° | 133.5 | 138.7 | 141.5 | 145.8 | 145.6 |
| 152.5° | 127.0 | 132.2 | 135.0 | 138.2 | 137.1 |
| 155° | 121.4 | 126.6 | 129.6 | 131.7 | 129.4 |
| 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° | 946.0 | 986.8 | 1038.7 | 899.3 | 793.7 |
| 110° | 874.5 | 914.4 | 986.9 | 956.7 | 873.4 |



(END OF REPORT)