

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: P828481

Luminaire Tested: **OHB-18SE-W-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828481
REPORT IS A COMBINATION OF REPORTS P826142 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: OHB-18SE-W-UNV-L950-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

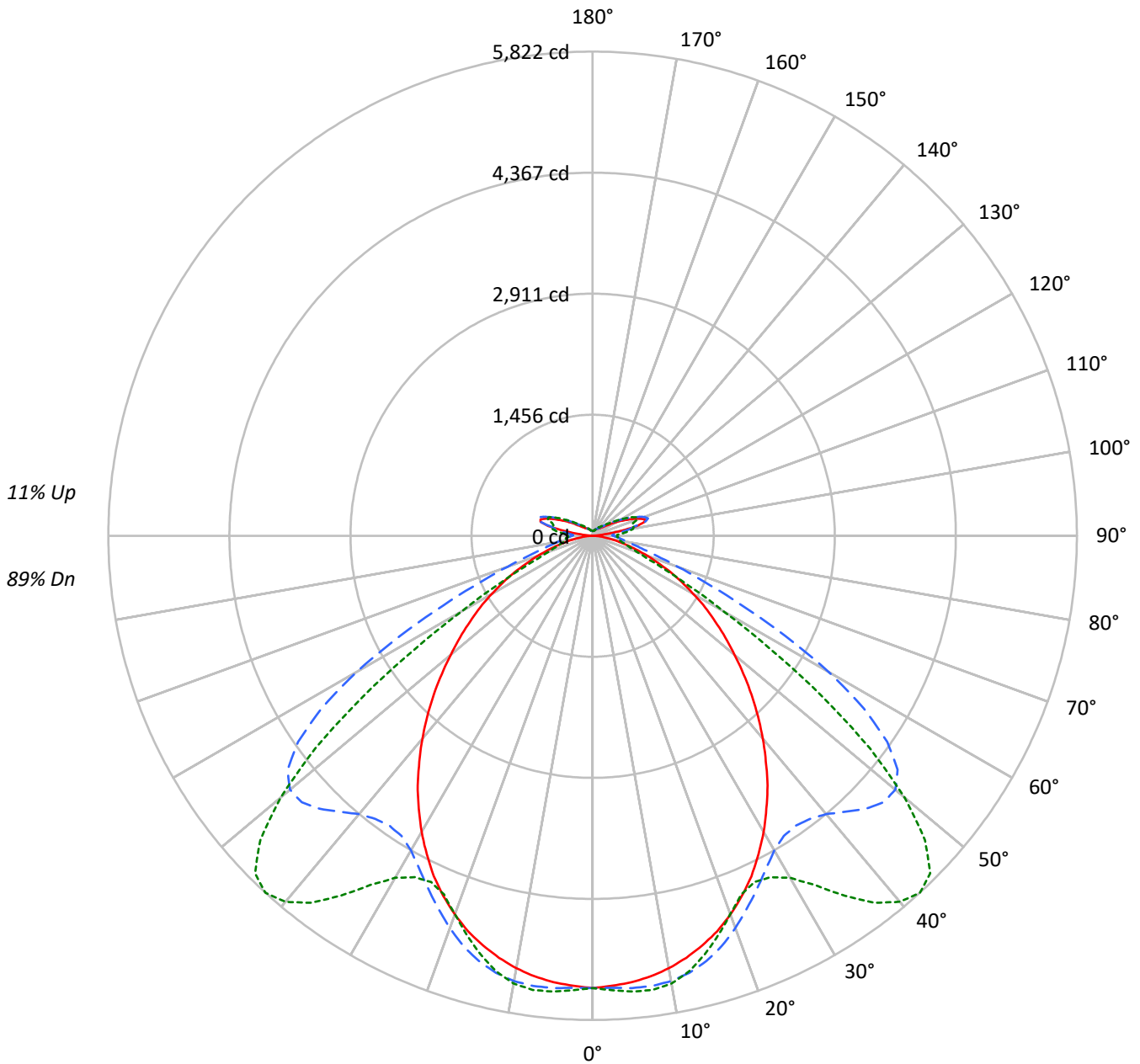
Lumens per Lamp: N/A
Luminaire Lumens: 17840.9 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 119.9
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

TEST NUMBER: P828481

CATALOG NUMBER: OHB-18SE-W-UNV-L950-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P828481

CATALOG NUMBER: OHB-18SE-W-UNV-L950-CD-UPL18

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 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 102 | 98 | 94 | 103 | 99 | 95 | 92 | 93 | 90 | 87 | 87 | 85 | 83 | 82 | 80 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 2 | 97 | 89 | 83 | 77 | 94 | 87 | 81 | 76 | 81 | 77 | 72 | 77 | 73 | 69 | 72 | 69 | 66 | 63 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 71 | 65 | 85 | 76 | 69 | 63 | 72 | 66 | 61 | 68 | 63 | 58 | 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 | 39 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 41 | 66 | 54 | 46 | 40 | 51 | 44 | 39 | 49 | 42 | 38 | 46 | 41 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 42 | 36 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 44 | 38 | 33 | 42 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 32 | 57 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 38 | 33 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 26 | 35 | 30 | 26 | 24 | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 31 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 34 | 28 | 24 | 33 | 27 | 23 | 21 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18168 | 18168 | 18168 |
| 5° | 17912 | 18096 | 18308 |
| 10° | 17601 | 18022 | 18263 |
| 15° | 17172 | 17678 | 17611 |
| 20° | 16619 | 17025 | 16684 |
| 25° | 15909 | 16246 | 16282 |
| 30° | 14998 | 15656 | 17445 |
| 35° | 13975 | 15895 | 20316 |
| 40° | 12808 | 17155 | 23362 |
| 45° | 11596 | 19383 | 24961 |
| 50° | 10342 | 21337 | 23066 |
| 55° | 9161 | 21196 | 17476 |
| 60° | 7965 | 17816 | 10573 |
| 65° | 6713 | 12201 | 6317 |
| 70° | 5323 | 7802 | 4476 |
| 75° | 3904 | 5504 | 4034 |
| 80° | 2637 | 4717 | 4336 |
| 85° | 1574 | 4955 | 6183 |



TEST NUMBER: P828481

CATALOG NUMBER: OHB-18SE-W-UNV-L950-CD-UPL18

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 519.7 | 2.9 |
| 10°-20° | 1471.7 | 8.2 |
| 20°-30° | 2153.6 | 12.1 |
| 30°-40° | 2796.9 | 15.7 |
| 40°-50° | 3415.4 | 19.1 |
| 50°-60° | 3007.8 | 16.9 |
| 60°-70° | 1567.4 | 8.8 |
| 70°-80° | 672.2 | 3.8 |
| 80°-90° | 326.7 | 1.8 |
| 90°-100° | 300.5 | 1.7 |
| 100°-110° | 611.3 | 3.4 |
| 110°-120° | 499.9 | 2.8 |
| 120°-130° | 243.6 | 1.4 |
| 130°-140° | 121.8 | 0.7 |
| 140°-150° | 69.2 | 0.4 |
| 150°-160° | 38.7 | 0.2 |
| 160°-170° | 18.7 | 0.1 |
| 170°-180° | 5.7 | 0.0 |
| 0°-30° | 4145.1 | 23.2 |
| 0°-40° | 6942.1 | 38.9 |
| 0°-60° | 13365.3 | 74.9 |
| 0°-90° | 15931.6 | 89.3 |
| 90°-120° | 1411.7 | 7.9 |
| 90°-150° | 1846.2 | 10.3 |
| 90°-180° | 1909.0 | 10.7 |
| 0°-180° | 17840.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5439 | 5439 | 5439 | 5439 | 5439 | |
| 5° | 5388 | 5429 | 5459 | 5507 | 5501 | 511 |
| 15° | 5098 | 5242 | 5292 | 5252 | 5210 | 1436 |
| 25° | 4518 | 4759 | 4678 | 4590 | 4595 | 2073 |
| 35° | 3667 | 4054 | 4257 | 4965 | 5283 | 2286 |
| 45° | 2700 | 3397 | 4643 | 5622 | 5739 | 2082 |
| 55° | 1798 | 2976 | 4324 | 3791 | 3370 | 1613 |
| 65° | 1031 | 2062 | 1980 | 1101 | 947 | 1020 |
| 75° | 415 | 965 | 636 | 435 | 413 | 453 |
| 85° | 88 | 344 | 324 | 317 | 320 | 98 |
| 90° | 5 | 146 | 243 | 283 | 293 | 9 |
| 95° | 35 | 144 | 282 | 345 | 371 | 106 |
| 105° | 649 | 679 | 655 | 516 | 489 | 616 |
| 115° | 453 | 475 | 518 | 528 | 530 | 457 |
| 125° | 226 | 240 | 274 | 285 | 284 | 211 |
| 135° | 136 | 138 | 154 | 169 | 171 | 107 |
| 145° | 103 | 103 | 106 | 114 | 117 | 65 |
| 155° | 84 | 86 | 84 | 85 | 85 | 38 |
| 165° | 64 | 65 | 65 | 66 | 66 | 18 |
| 175° | 58 | 58 | 59 | 59 | 59 | 6 |
| 180° | 58 | 58 | 58 | 58 | 58 | |



TEST NUMBER: P828481

CATALOG NUMBER: OHB-18SE-W-UNV-L950-CD-UPL18

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5438.8 | 5438.8 | 5438.8 | 5438.8 | 5438.8 |
| 2.5° | 5415.3 | 5438.8 | 5439.9 | 5472.8 | 5469.3 |
| 5° | 5388.3 | 5429.4 | 5458.7 | 5506.9 | 5501.0 |
| 7.5° | 5343.8 | 5408.3 | 5459.9 | 5512.7 | 5508.0 |
| 10° | 5280.4 | 5368.4 | 5436.5 | 5479.8 | 5465.8 |
| 12.5° | 5198.2 | 5314.4 | 5381.3 | 5390.6 | 5363.7 |
| 15° | 5098.5 | 5241.6 | 5292.1 | 5252.2 | 5210.0 |
| 17.5° | 4985.8 | 5153.6 | 5171.3 | 5084.4 | 5031.6 |
| 20° | 4845.1 | 5036.3 | 5018.7 | 4899.1 | 4840.4 |
| 22.5° | 4689.0 | 4907.2 | 4850.9 | 4725.3 | 4669.0 |
| 25° | 4517.6 | 4759.3 | 4678.4 | 4590.4 | 4595.1 |
| 27.5° | 4317.0 | 4591.6 | 4512.9 | 4552.8 | 4628.0 |
| 30° | 4112.8 | 4415.6 | 4367.5 | 4599.8 | 4747.7 |
| 32.5° | 3888.7 | 4234.9 | 4278.3 | 4737.1 | 4978.8 |
| 35° | 3667.0 | 4054.1 | 4257.1 | 4964.7 | 5282.7 |
| 37.5° | 3421.7 | 3871.1 | 4291.2 | 5227.5 | 5560.8 |
| 40° | 3183.5 | 3692.7 | 4368.6 | 5463.4 | 5745.0 |
| 42.5° | 2940.5 | 3533.2 | 4498.9 | 5603.0 | 5822.5 |
| 45° | 2700.1 | 3397.0 | 4643.2 | 5621.8 | 5739.2 |
| 47.5° | 2459.5 | 3282.1 | 4743.0 | 5472.8 | 5418.8 |
| 50° | 2227.2 | 3180.0 | 4750.0 | 5114.9 | 4894.4 |
| 52.5° | 2010.1 | 3086.1 | 4620.9 | 4544.7 | 4202.0 |
| 55° | 1797.7 | 2975.8 | 4324.0 | 3791.3 | 3370.1 |
| 57.5° | 1604.0 | 2823.3 | 3866.4 | 2981.7 | 2521.6 |
| 60° | 1398.7 | 2616.7 | 3275.0 | 2181.3 | 1818.8 |
| 62.5° | 1209.8 | 2359.8 | 2612.0 | 1518.4 | 1307.2 |
| 65° | 1031.4 | 2061.7 | 1979.6 | 1100.6 | 946.9 |
| 67.5° | 842.5 | 1753.1 | 1460.9 | 802.6 | 704.1 |
| 70° | 694.7 | 1466.8 | 1087.8 | 624.3 | 566.8 |
| 72.5° | 543.3 | 1194.5 | 813.2 | 506.9 | 475.2 |
| 75° | 415.4 | 964.6 | 636.0 | 435.3 | 413.1 |
| 77.5° | 306.3 | 762.8 | 511.6 | 384.9 | 363.8 |
| 80° | 214.8 | 600.8 | 428.3 | 343.8 | 335.6 |
| 82.5° | 144.3 | 464.6 | 364.9 | 327.3 | 328.6 |
| 85° | 88.0 | 343.8 | 323.9 | 316.8 | 320.3 |
| 87.5° | 42.3 | 244.1 | 278.1 | 288.7 | 292.2 |
| 90° | 4.6 | 146.2 | 243.1 | 283.2 | 293.4 |
| 92.5° | 11.3 | 123.7 | 235.5 | 284.3 | 297.2 |
| 95° | 35.4 | 144.1 | 282.3 | 344.6 | 371.4 |
| 97.5° | 171.9 | 245.0 | 359.5 | 428.2 | 445.7 |
| 100° | 353.0 | 418.6 | 443.9 | 488.0 | 496.7 |
| 102.5° | 550.4 | 591.7 | 516.8 | 504.4 | 501.5 |
| 105° | 649.0 | 679.2 | 654.6 | 516.0 | 488.8 |



TEST NUMBER: P828481

CATALOG NUMBER: OHB-18SE-W-UNV-L950-CD-UPL18

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 530.4 | 555.1 | 593.9 | 596.4 | 577.1 |
| 115° | 453.1 | 474.7 | 518.4 | 528.4 | 529.9 |
| 117.5° | 388.1 | 403.7 | 444.1 | 456.5 | 458.5 |
| 120° | 325.5 | 341.0 | 378.6 | 390.0 | 389.4 |
| 122.5° | 273.4 | 287.1 | 323.1 | 333.4 | 332.8 |
| 125° | 225.5 | 239.5 | 273.8 | 284.7 | 284.0 |
| 127.5° | 191.4 | 200.3 | 234.0 | 244.8 | 244.3 |
| 130° | 167.0 | 173.1 | 199.5 | 212.1 | 215.3 |
| 132.5° | 150.5 | 153.1 | 174.8 | 187.4 | 191.5 |
| 135° | 135.7 | 138.3 | 154.4 | 169.0 | 171.1 |
| 137.5° | 124.4 | 127.0 | 138.7 | 152.2 | 155.4 |
| 140° | 114.9 | 117.5 | 124.8 | 138.2 | 140.2 |
| 142.5° | 108.2 | 109.6 | 115.7 | 126.0 | 128.1 |
| 145° | 103.3 | 102.7 | 106.4 | 114.3 | 116.7 |
| 147.5° | 97.2 | 97.7 | 99.5 | 105.9 | 107.1 |
| 150° | 92.0 | 93.7 | 93.1 | 96.3 | 99.6 |
| 152.5° | 88.5 | 89.4 | 88.8 | 89.6 | 92.0 |
| 155° | 84.2 | 85.9 | 84.4 | 85.3 | 85.3 |
| 157.5° | 72.2 | 73.0 | 73.9 | 74.8 | 74.8 |
| 160° | 69.6 | 69.6 | 70.4 | 71.3 | 71.3 |
| 162.5° | 66.9 | 66.9 | 67.8 | 68.7 | 68.7 |
| 165° | 64.3 | 65.2 | 65.2 | 66.1 | 66.1 |
| 167.5° | 62.6 | 62.6 | 63.5 | 63.5 | 64.3 |
| 170° | 60.9 | 60.9 | 61.7 | 61.7 | 61.7 |
| 172.5° | 59.1 | 60.0 | 60.0 | 60.0 | 60.0 |
| 175° | 58.3 | 58.3 | 59.1 | 59.1 | 59.1 |
| 177.5° | 57.4 | 58.3 | 58.3 | 58.3 | 58.3 |
| 180° | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 656.2 | 686.7 | 698.5 | 584.5 | 511.2 |
| 110° | 601.4 | 634.2 | 663.3 | 629.9 | 572.3 |



(END OF REPORT)