

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: P828604

Luminaire Tested: **OHBL-18HE-NL-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828604
REPORT IS A COMBINATION OF REPORTS P826159 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-18HE-NL-UNV-L950-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

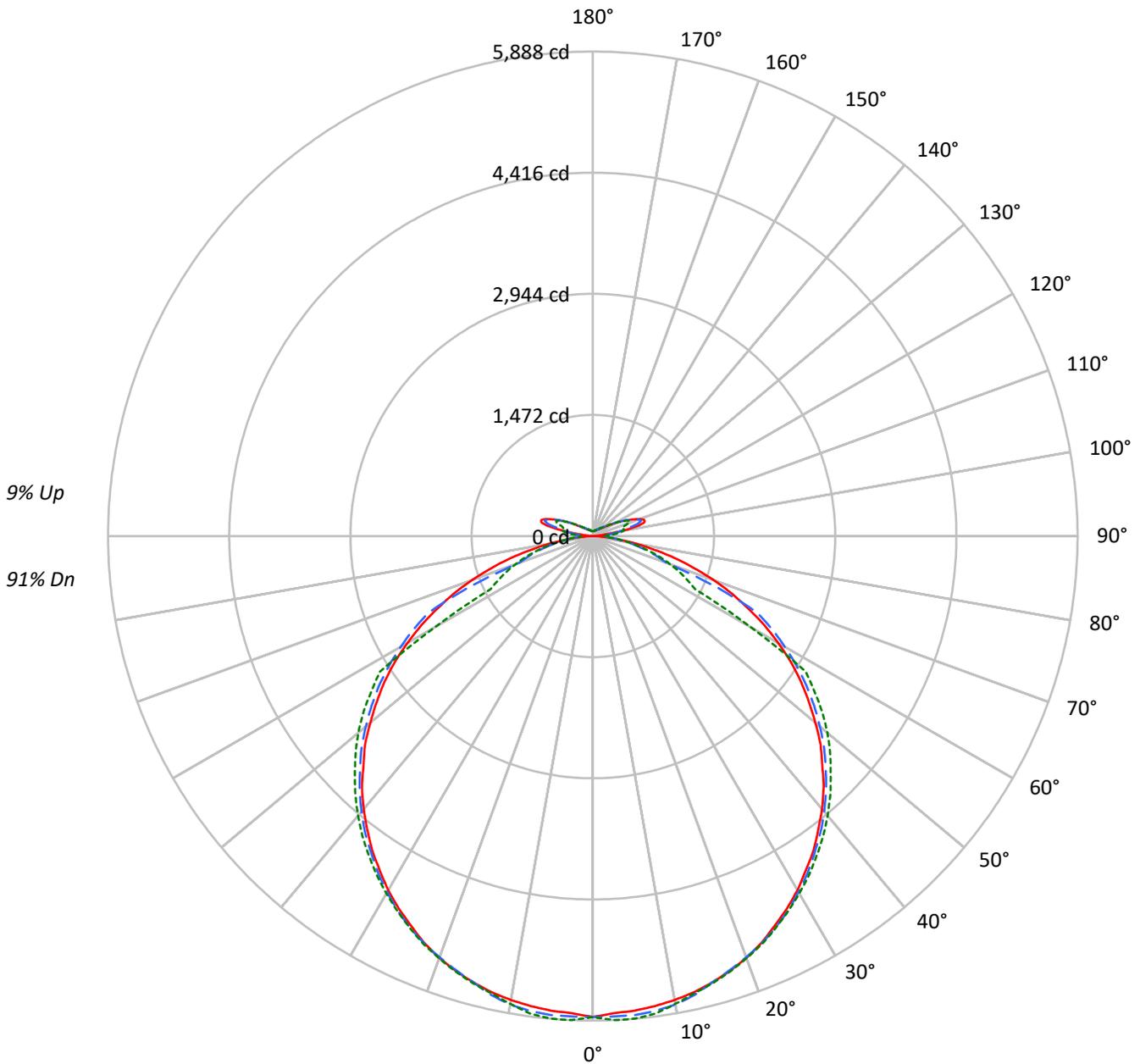
Lumens per Lamp: N/A
Luminaire Lumens: 17966.1 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 115.3
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: P828604

CATALOG NUMBER: OHBL-18HE-NL-UNV-L950-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P828604

CATALOG NUMBER: OHBL-18HE-NL-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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 91 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 103 | 99 | 95 | 104 | 100 | 96 | 93 | 94 | 91 | 88 | 88 | 86 | 84 | 83 | 81 | 80 | 77 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 78 | 94 | 87 | 81 | 76 | 82 | 77 | 73 | 78 | 74 | 70 | 73 | 70 | 67 | 65 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 71 | 65 | 86 | 77 | 70 | 64 | 73 | 66 | 61 | 69 | 64 | 59 | 65 | 61 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 62 | 55 | 79 | 68 | 60 | 54 | 64 | 58 | 52 | 61 | 55 | 51 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 63 | 54 | 47 | 72 | 61 | 53 | 47 | 58 | 51 | 45 | 55 | 49 | 44 | 52 | 47 | 43 | 40 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 52 | 45 | 40 | 50 | 43 | 39 | 47 | 42 | 38 | 35 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 42 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 43 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 39 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 50 | 38 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 25 | 34 | 28 | 24 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|-------|
| 0° | 9983 | 9983 | 9983 |
| 5° | 9876 | 9964 | 10070 |
| 10° | 9827 | 9918 | 9966 |
| 15° | 9772 | 9767 | 9879 |
| 20° | 9703 | 9685 | 9830 |
| 25° | 9580 | 9623 | 9785 |
| 30° | 9474 | 9517 | 9742 |
| 35° | 9346 | 9390 | 9704 |
| 40° | 9192 | 9270 | 9675 |
| 45° | 8976 | 9102 | 9615 |
| 50° | 8746 | 8913 | 9577 |
| 55° | 8467 | 8673 | 9414 |
| 60° | 8048 | 8319 | 7273 |
| 65° | 7448 | 7864 | 4844 |
| 70° | 6674 | 4043 | 4631 |
| 75° | 5541 | 3653 | 4318 |
| 80° | 3891 | 3057 | 3780 |
| 85° | 1561 | 2449 | 3271 |



TEST NUMBER: P828604

CATALOG NUMBER: OHBL-18HE-NL-UNV-L950-CD-UPL18

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 555.3 | 3.1 |
| 10°-20° | 1589.9 | 8.8 |
| 20°-30° | 2419.2 | 13.5 |
| 30°-40° | 2941.4 | 16.4 |
| 40°-50° | 3092.7 | 17.2 |
| 50°-60° | 2824.0 | 15.7 |
| 60°-70° | 1810.3 | 10.1 |
| 70°-80° | 855.2 | 4.8 |
| 80°-90° | 241.0 | 1.3 |
| 90°-100° | 211.7 | 1.2 |
| 100°-110° | 534.2 | 3.0 |
| 110°-120° | 448.9 | 2.5 |
| 120°-130° | 213.3 | 1.2 |
| 130°-140° | 106.6 | 0.6 |
| 140°-150° | 61.9 | 0.3 |
| 150°-160° | 36.1 | 0.2 |
| 160°-170° | 18.7 | 0.1 |
| 170°-180° | 5.7 | 0.0 |
| 0°-30° | 4564.4 | 25.4 |
| 0°-40° | 7505.7 | 41.8 |
| 0°-60° | 13422.5 | 74.7 |
| 0°-90° | 16329.1 | 90.9 |
| 90°-120° | 1194.8 | 6.7 |
| 90°-150° | 1576.5 | 8.8 |
| 90°-180° | 1637.0 | 9.1 |
| 0°-180° | 17966.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5845 | 5845 | 5845 | 5845 | 5845 | |
| 5° | 5790 | 5813 | 5843 | 5875 | 5887 | 551 |
| 15° | 5615 | 5657 | 5614 | 5622 | 5626 | 1585 |
| 25° | 5225 | 5233 | 5252 | 5260 | 5256 | 2411 |
| 35° | 4670 | 4643 | 4696 | 4754 | 4740 | 2919 |
| 45° | 3939 | 3932 | 3999 | 4093 | 4086 | 3045 |
| 55° | 3087 | 3063 | 3167 | 3273 | 3281 | 2753 |
| 65° | 2080 | 2080 | 2201 | 1262 | 1267 | 2062 |
| 75° | 1028 | 1047 | 680 | 716 | 719 | 1083 |
| 85° | 134 | 170 | 212 | 230 | 217 | 199 |
| 90° | 4 | 79 | 124 | 151 | 153 | 8 |
| 95° | 36 | 101 | 180 | 236 | 257 | 106 |
| 105° | 649 | 650 | 561 | 400 | 369 | 616 |
| 115° | 451 | 458 | 460 | 452 | 445 | 454 |
| 125° | 217 | 228 | 234 | 233 | 231 | 204 |
| 135° | 129 | 131 | 136 | 137 | 138 | 102 |
| 145° | 94 | 96 | 98 | 99 | 99 | 59 |
| 155° | 75 | 76 | 77 | 78 | 78 | 35 |
| 165° | 64 | 65 | 65 | 66 | 66 | 18 |
| 175° | 58 | 58 | 59 | 59 | 59 | 6 |
| 180° | 58 | 58 | 58 | 58 | 58 | |



TEST NUMBER: P828604

CATALOG NUMBER: OHBL-18HE-NL-UNV-L950-CD-UPL18

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5844.8 | 5844.8 | 5844.8 | 5844.8 | 5844.8 |
| 2.5° | 5803.7 | 5823.3 | 5844.8 | 5872.5 | 5887.8 |
| 5° | 5790.4 | 5812.9 | 5842.8 | 5874.6 | 5886.8 |
| 7.5° | 5761.7 | 5793.5 | 5822.2 | 5844.8 | 5852.0 |
| 10° | 5725.8 | 5763.8 | 5780.2 | 5778.2 | 5773.0 |
| 12.5° | 5677.6 | 5717.6 | 5712.5 | 5688.9 | 5692.9 |
| 15° | 5615.0 | 5657.0 | 5614.1 | 5622.2 | 5626.3 |
| 17.5° | 5541.2 | 5582.3 | 5531.9 | 5548.4 | 5549.4 |
| 20° | 5455.1 | 5485.8 | 5446.8 | 5460.2 | 5460.2 |
| 22.5° | 5351.5 | 5373.0 | 5356.6 | 5365.9 | 5367.9 |
| 25° | 5225.4 | 5233.4 | 5252.0 | 5260.2 | 5256.1 |
| 27.5° | 5104.3 | 5094.1 | 5130.0 | 5149.5 | 5139.1 |
| 30° | 4969.9 | 4953.6 | 4995.6 | 5027.4 | 5015.1 |
| 32.5° | 4816.1 | 4805.9 | 4854.1 | 4892.0 | 4884.8 |
| 35° | 4670.5 | 4642.8 | 4696.1 | 4753.5 | 4740.2 |
| 37.5° | 4498.2 | 4481.8 | 4542.2 | 4602.8 | 4595.7 |
| 40° | 4330.0 | 4302.3 | 4371.0 | 4442.8 | 4435.6 |
| 42.5° | 4149.5 | 4116.6 | 4191.5 | 4277.8 | 4269.5 |
| 45° | 3939.2 | 3932.1 | 3998.7 | 4093.1 | 4085.9 |
| 47.5° | 3752.6 | 3716.7 | 3810.0 | 3901.3 | 3909.5 |
| 50° | 3526.9 | 3513.7 | 3598.8 | 3709.6 | 3717.7 |
| 52.5° | 3306.5 | 3297.3 | 3386.4 | 3498.2 | 3512.6 |
| 55° | 3087.0 | 3063.4 | 3167.0 | 3272.6 | 3280.8 |
| 57.5° | 2852.2 | 2827.5 | 2933.2 | 3048.1 | 3065.5 |
| 60° | 2600.9 | 2577.3 | 2693.1 | 2799.9 | 2226.6 |
| 62.5° | 2349.6 | 2333.2 | 2454.3 | 1738.4 | 1401.0 |
| 65° | 2079.9 | 2079.9 | 2200.8 | 1262.4 | 1266.6 |
| 67.5° | 1827.7 | 1811.2 | 1641.0 | 1134.2 | 1134.2 |
| 70° | 1556.8 | 1563.0 | 945.5 | 993.9 | 994.8 |
| 72.5° | 1285.0 | 1307.6 | 816.4 | 855.3 | 857.4 |
| 75° | 1027.6 | 1047.2 | 679.9 | 715.9 | 718.9 |
| 77.5° | 754.9 | 580.4 | 546.6 | 574.4 | 575.4 |
| 80° | 530.2 | 366.1 | 418.5 | 445.1 | 442.0 |
| 82.5° | 309.7 | 256.4 | 306.7 | 326.2 | 325.1 |
| 85° | 134.3 | 170.2 | 212.3 | 229.8 | 217.4 |
| 87.5° | 43.0 | 105.6 | 132.2 | 142.6 | 141.5 |
| 90° | 3.5 | 79.2 | 123.9 | 150.8 | 153.3 |
| 92.5° | 11.3 | 73.7 | 129.9 | 168.7 | 176.6 |
| 95° | 36.1 | 101.0 | 179.9 | 236.5 | 257.4 |
| 97.5° | 171.6 | 206.7 | 255.1 | 316.9 | 332.9 |
| 100° | 351.6 | 384.3 | 339.6 | 373.8 | 380.1 |
| 102.5° | 552.0 | 560.4 | 414.2 | 389.3 | 385.2 |
| 105° | 649.4 | 649.5 | 560.7 | 399.9 | 369.3 |



TEST NUMBER: P828604

CATALOG NUMBER: OHBL-18HE-NL-UNV-L950-CD-UPL18

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 529.6 | 535.1 | 527.8 | 510.8 | 481.8 |
| 115° | 451.2 | 458.4 | 460.5 | 452.3 | 445.2 |
| 117.5° | 379.9 | 382.6 | 384.3 | 382.6 | 383.4 |
| 120° | 317.3 | 323.4 | 326.9 | 324.3 | 322.6 |
| 122.5° | 265.2 | 273.0 | 277.4 | 274.7 | 273.0 |
| 125° | 217.4 | 227.8 | 233.9 | 233.0 | 231.3 |
| 127.5° | 184.3 | 192.1 | 200.0 | 199.1 | 197.4 |
| 130° | 160.0 | 166.1 | 171.3 | 172.2 | 173.0 |
| 132.5° | 143.5 | 146.1 | 151.3 | 152.2 | 153.9 |
| 135° | 128.7 | 131.3 | 135.6 | 137.4 | 138.2 |
| 137.5° | 117.4 | 120.0 | 123.5 | 125.2 | 126.1 |
| 140° | 107.8 | 110.4 | 113.0 | 114.8 | 115.6 |
| 142.5° | 100.0 | 102.6 | 105.2 | 106.1 | 106.9 |
| 145° | 93.9 | 95.6 | 98.2 | 99.1 | 99.1 |
| 147.5° | 87.8 | 89.6 | 91.3 | 93.0 | 93.0 |
| 150° | 82.6 | 84.3 | 86.1 | 86.9 | 87.8 |
| 152.5° | 79.1 | 80.0 | 81.7 | 82.6 | 82.6 |
| 155° | 74.8 | 76.5 | 77.4 | 78.2 | 78.2 |
| 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° | 655.5 | 660.5 | 614.3 | 475.2 | 393.4 |
| 110° | 601.7 | 611.7 | 588.7 | 532.5 | 465.2 |



(END OF REPORT)