

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: P830006

Luminaire Tested: **OHBL-18SE-NL-UNV-L950-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-NL-UNV-L950-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

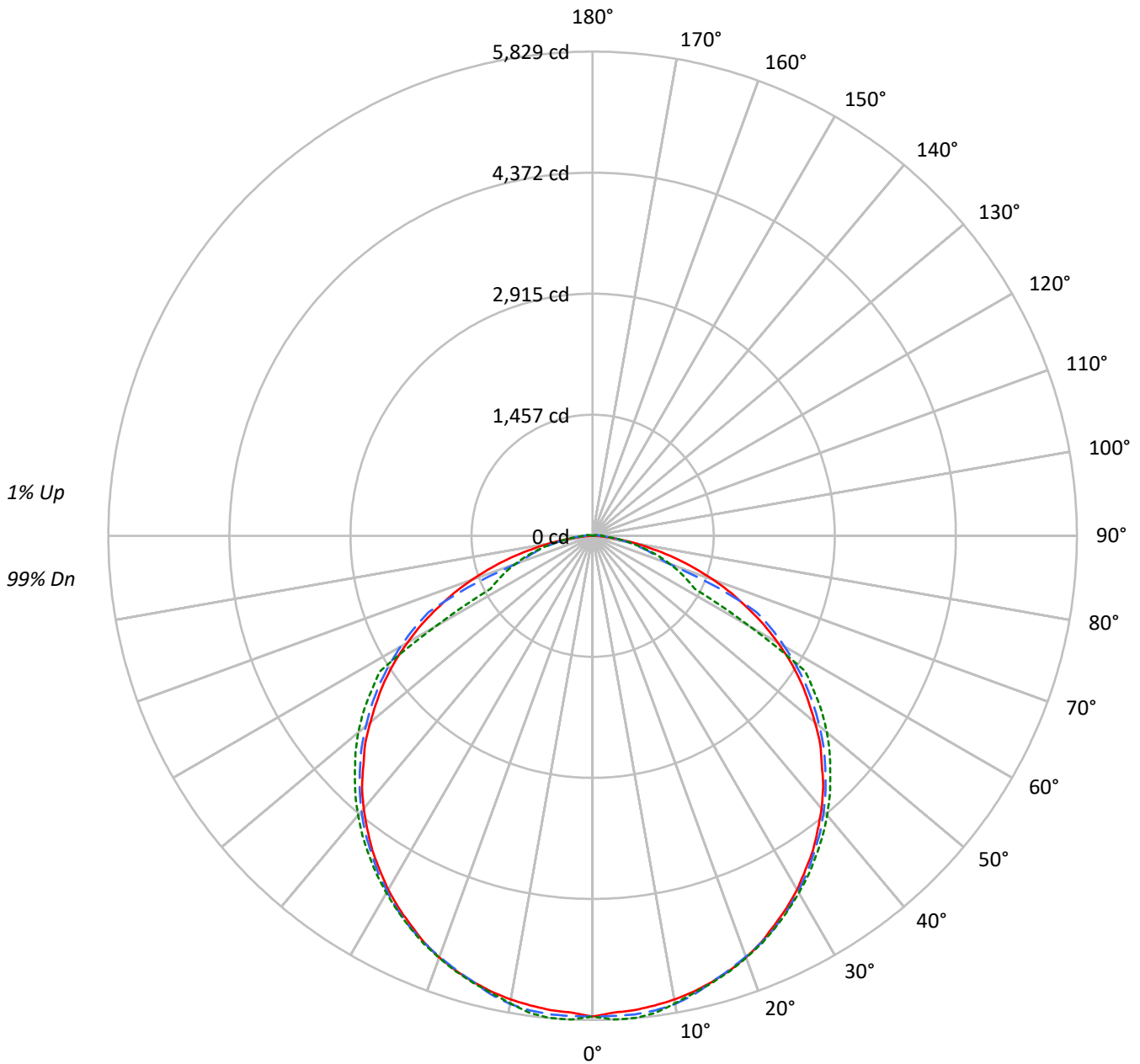
Lumens per Lamp: N/A
Luminaire Lumens: 16247.0 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 105
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: P830006

CATALOG NUMBER: OHBL-18SE-NL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830006

CATALOG NUMBER: OHBL-18SE-NL-UNV-L950-CD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | | | | | 99 | | | | | | | | | | | | | | | |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | | | | | 84 | | | | | | | | | | | | | | | |
| 2 | 99 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | | | | | 71 | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | | | | | 60 | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | | | | | 51 | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | | | | | 44 | | | | | | | | | | | | | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | | | | | 34 | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | | | | | 30 | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | | | | | 27 | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | | | | | 25 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9884 | 9884 | 9884 |
| 5° | 9829 | 9918 | 9993 |
| 10° | 9832 | 9925 | 9913 |
| 15° | 9830 | 9828 | 9850 |
| 20° | 9817 | 9802 | 9826 |
| 25° | 9750 | 9799 | 9807 |
| 30° | 9704 | 9755 | 9793 |
| 35° | 9642 | 9695 | 9785 |
| 40° | 9558 | 9649 | 9792 |
| 45° | 9421 | 9563 | 9771 |
| 50° | 9279 | 9468 | 9780 |
| 55° | 9101 | 9337 | 9673 |
| 60° | 8796 | 9108 | 7531 |
| 65° | 8322 | 8806 | 5068 |
| 70° | 7697 | 4675 | 4918 |
| 75° | 6714 | 4443 | 4697 |
| 80° | 5163 | 4075 | 4304 |
| 85° | 2606 | 4119 | 4217 |



TEST NUMBER: P830006

CATALOG NUMBER: OHBL-18SE-NL-UNV-L950-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 549.8 | 3.4 |
| 10°-20° | 1574.1 | 9.7 |
| 20°-30° | 2395.2 | 14.7 |
| 30°-40° | 2912.2 | 17.9 |
| 40°-50° | 3062.0 | 18.8 |
| 50°-60° | 2796.0 | 17.2 |
| 60°-70° | 1792.4 | 11.0 |
| 70°-80° | 846.7 | 5.2 |
| 80°-90° | 234.8 | 1.4 |
| 90°-100° | 62.2 | 0.4 |
| 100°-110° | 17.0 | 0.1 |
| 110°-120° | 4.7 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 4519.1 | 27.8 |
| 0°-40° | 7431.2 | 45.7 |
| 0°-60° | 13289.3 | 81.8 |
| 0°-90° | 16163.1 | 99.5 |
| 90°-120° | 83.9 | 0.5 |
| 90°-150° | 83.9 | 0.5 |
| 90°-180° | 84.0 | 0.5 |
| 0°-180° | 16247.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5787 | 5787 | 5787 | 5787 | 5787 | |
| 5° | 5733 | 5755 | 5785 | 5816 | 5828 | 545 |
| 15° | 5559 | 5601 | 5558 | 5566 | 5570 | 1569 |
| 25° | 5174 | 5182 | 5200 | 5208 | 5204 | 2387 |
| 35° | 4624 | 4597 | 4650 | 4706 | 4693 | 2890 |
| 45° | 3900 | 3893 | 3959 | 4052 | 4045 | 3015 |
| 55° | 3056 | 3033 | 3136 | 3240 | 3248 | 2726 |
| 65° | 2059 | 2059 | 2179 | 1250 | 1254 | 2042 |
| 75° | 1017 | 1037 | 673 | 709 | 712 | 1073 |
| 85° | 133 | 169 | 210 | 228 | 215 | 197 |
| 90° | 0 | 57 | 93 | 111 | 109 | 6 |
| 95° | 3 | 30 | 67 | 90 | 90 | 2 |
| 105° | 5 | 11 | 16 | 16 | 15 | 5 |
| 115° | 5 | 7 | 10 | 7 | 1 | 4 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P830006

CATALOG NUMBER: OHBL-18SE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5786.8 | 5786.8 | 5786.8 | 5786.8 | 5786.8 |
| 2.5° | 5746.1 | 5765.5 | 5786.8 | 5814.2 | 5829.3 |
| 5° | 5732.9 | 5755.3 | 5784.7 | 5816.2 | 5828.4 |
| 7.5° | 5704.5 | 5735.9 | 5764.4 | 5786.8 | 5793.9 |
| 10° | 5668.9 | 5706.6 | 5722.8 | 5720.8 | 5715.7 |
| 12.5° | 5621.2 | 5660.9 | 5655.8 | 5632.4 | 5636.5 |
| 15° | 5559.3 | 5600.9 | 5558.3 | 5566.4 | 5570.5 |
| 17.5° | 5486.2 | 5526.8 | 5477.0 | 5493.3 | 5494.4 |
| 20° | 5400.9 | 5431.4 | 5392.8 | 5406.0 | 5406.0 |
| 22.5° | 5298.4 | 5319.7 | 5303.4 | 5312.6 | 5314.6 |
| 25° | 5173.5 | 5181.5 | 5199.8 | 5208.0 | 5203.9 |
| 27.5° | 5053.7 | 5043.5 | 5079.1 | 5098.3 | 5088.1 |
| 30° | 4920.6 | 4904.4 | 4946.0 | 4977.5 | 4965.3 |
| 32.5° | 4768.3 | 4758.2 | 4805.9 | 4843.4 | 4836.3 |
| 35° | 4624.1 | 4596.7 | 4649.5 | 4706.4 | 4693.1 |
| 37.5° | 4453.5 | 4437.3 | 4497.2 | 4557.1 | 4550.1 |
| 40° | 4287.0 | 4259.6 | 4327.6 | 4398.7 | 4391.6 |
| 42.5° | 4108.3 | 4075.8 | 4149.9 | 4235.3 | 4227.1 |
| 45° | 3900.1 | 3893.0 | 3959.0 | 4052.4 | 4045.3 |
| 47.5° | 3715.4 | 3679.8 | 3772.2 | 3862.6 | 3870.7 |
| 50° | 3491.9 | 3478.8 | 3563.1 | 3672.7 | 3680.8 |
| 52.5° | 3273.7 | 3264.5 | 3352.8 | 3463.5 | 3477.7 |
| 55° | 3056.3 | 3033.0 | 3135.5 | 3240.1 | 3248.3 |
| 57.5° | 2823.9 | 2799.5 | 2904.1 | 3017.8 | 3035.0 |
| 60° | 2575.0 | 2551.7 | 2666.4 | 2772.1 | 2204.5 |
| 62.5° | 2326.3 | 2310.0 | 2429.9 | 1721.1 | 1387.1 |
| 65° | 2059.2 | 2059.2 | 2179.0 | 1249.9 | 1254.0 |
| 67.5° | 1809.5 | 1793.3 | 1624.7 | 1123.0 | 1123.0 |
| 70° | 1541.4 | 1547.5 | 936.1 | 984.0 | 984.9 |
| 72.5° | 1272.3 | 1294.7 | 808.3 | 846.8 | 848.8 |
| 75° | 1017.4 | 1036.8 | 673.2 | 708.8 | 711.8 |
| 77.5° | 747.4 | 574.7 | 541.2 | 568.7 | 569.7 |
| 80° | 524.9 | 362.5 | 414.3 | 440.7 | 437.6 |
| 82.5° | 306.6 | 253.8 | 303.6 | 322.9 | 321.9 |
| 85° | 133.0 | 168.6 | 210.2 | 227.5 | 215.2 |
| 87.5° | 42.6 | 104.6 | 130.9 | 141.2 | 140.1 |
| 90° | 0.0 | 56.9 | 93.4 | 110.6 | 108.7 |
| 92.5° | 0.0 | 44.6 | 81.3 | 101.6 | 102.6 |
| 95° | 3.0 | 29.5 | 67.1 | 90.4 | 90.4 |
| 97.5° | 2.0 | 21.3 | 47.7 | 71.1 | 73.1 |
| 100° | 2.0 | 17.2 | 31.5 | 50.7 | 51.8 |
| 102.5° | 5.1 | 14.2 | 19.2 | 32.5 | 33.5 |
| 105° | 5.1 | 11.2 | 16.2 | 16.2 | 15.3 |



TEST NUMBER: P830006

CATALOG NUMBER: OHBL-18SE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-----|
| 112.5° | 6.1 | 8.2 | 11.2 | 8.2 | 1.0 |
| 115° | 5.1 | 7.1 | 10.1 | 7.1 | 1.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|-----|------|------|-----|-----|
| 107.5° | 5.1 | 10.1 | 14.2 | 9.1 | 3.0 |
| 110° | 6.1 | 9.1 | 12.1 | 8.2 | 1.0 |



(END OF REPORT)