

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: P830726

Luminaire Tested: **OHBL-60SE-NL-UNV-L950-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830726
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-60SE-NL-UNV-L950-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

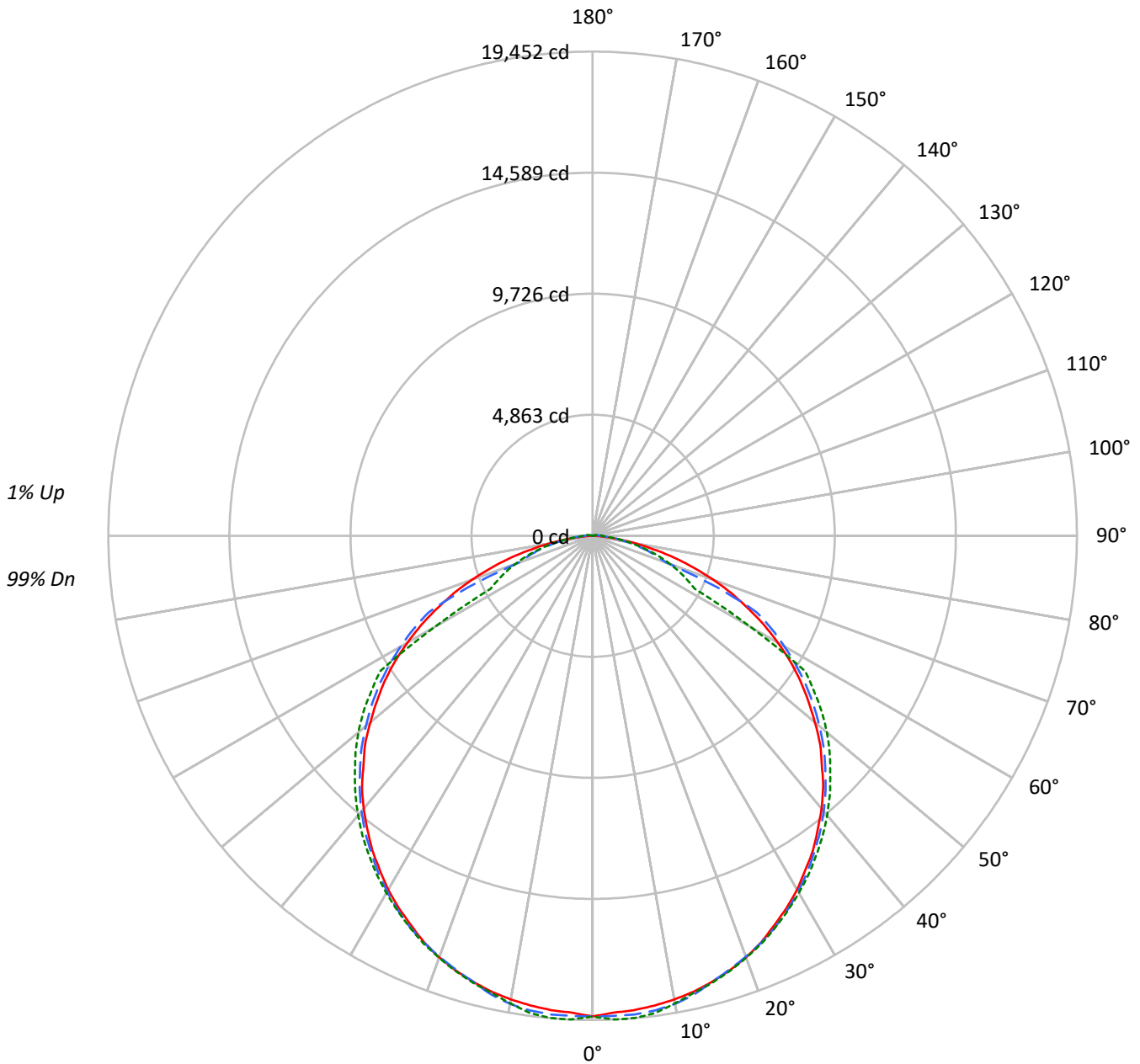
Lumens per Lamp: N/A
Luminaire Lumens: 54214.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 362
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: P830726

CATALOG NUMBER: OHBL-60SE-NL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830726

CATALOG NUMBER: OHBL-60SE-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° | 32981 | 32981 | 32981 |
| 5° | 32798 | 33095 | 33345 |
| 10° | 32808 | 33119 | 33078 |
| 15° | 32802 | 32796 | 32868 |
| 20° | 32757 | 32708 | 32788 |
| 25° | 32533 | 32699 | 32725 |
| 30° | 32383 | 32550 | 32677 |
| 35° | 32173 | 32349 | 32653 |
| 40° | 31895 | 32197 | 32673 |
| 45° | 31435 | 31910 | 32606 |
| 50° | 30961 | 31592 | 32636 |
| 55° | 30369 | 31156 | 32277 |
| 60° | 29352 | 30393 | 25128 |
| 65° | 27770 | 29385 | 16911 |
| 70° | 25685 | 15599 | 16413 |
| 75° | 22404 | 14824 | 15674 |
| 80° | 17229 | 13598 | 14364 |
| 85° | 8695 | 13743 | 14075 |



TEST NUMBER: P830726

CATALOG NUMBER: OHBL-60SE-NL-UNV-L950-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1834.5 | 3.4 |
| 10°-20° | 5252.6 | 9.7 |
| 20°-30° | 7992.3 | 14.7 |
| 30°-40° | 9717.6 | 17.9 |
| 40°-50° | 10217.5 | 18.8 |
| 50°-60° | 9329.8 | 17.2 |
| 60°-70° | 5980.9 | 11.0 |
| 70°-80° | 2825.3 | 5.2 |
| 80°-90° | 783.4 | 1.4 |
| 90°-100° | 207.5 | 0.4 |
| 100°-110° | 56.8 | 0.1 |
| 110°-120° | 15.7 | 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° | 15079.4 | 27.8 |
| 0°-40° | 24797.0 | 45.7 |
| 0°-60° | 44344.4 | 81.8 |
| 0°-90° | 53934.0 | 99.5 |
| 90°-120° | 280.0 | 0.5 |
| 90°-150° | 280.0 | 0.5 |
| 90°-180° | 280.0 | 0.5 |
| 0°-180° | 54214.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 19310 | 19310 | 19310 | 19310 | 19310 | |
| 5° | 19130 | 19204 | 19303 | 19408 | 19448 | ### |
| 15° | 18551 | 18689 | 18547 | 18574 | 18588 | 5237 |
| 25° | 17263 | 17290 | 17351 | 17378 | 17365 | 7966 |
| 35° | 15430 | 15339 | 15515 | 15704 | 15660 | 9643 |
| 45° | 13014 | 12990 | 13211 | 13522 | 13499 | 10059 |
| 55° | 10198 | 10121 | 10463 | 10812 | 10839 | 9095 |
| 65° | 6871 | 6871 | 7271 | 4171 | 4184 | 6812 |
| 75° | 3395 | 3460 | 2246 | 2365 | 2375 | 3579 |
| 85° | 444 | 562 | 701 | 759 | 718 | 656 |
| 90° | 0 | 190 | 312 | 369 | 363 | 19 |
| 95° | 10 | 98 | 224 | 302 | 302 | 5 |
| 105° | 17 | 37 | 54 | 54 | 51 | 17 |
| 115° | 17 | 24 | 34 | 24 | 3 | 12 |
| 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: P830726

CATALOG NUMBER: OHBL-60SE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 19309.6 | 19309.6 | 19309.6 | 19309.6 | 19309.6 |
| 2.5° | 19174.0 | 19238.6 | 19309.6 | 19401.1 | 19451.7 |
| 5° | 19129.9 | 19204.5 | 19302.8 | 19407.9 | 19448.5 |
| 7.5° | 19035.2 | 19140.0 | 19235.0 | 19309.6 | 19333.3 |
| 10° | 18916.5 | 19042.0 | 19096.2 | 19089.4 | 19072.5 |
| 12.5° | 18757.2 | 18889.6 | 18872.7 | 18794.5 | 18808.1 |
| 15° | 18550.6 | 18689.4 | 18547.3 | 18574.3 | 18587.9 |
| 17.5° | 18306.6 | 18442.2 | 18276.2 | 18330.3 | 18333.9 |
| 20° | 18022.2 | 18123.7 | 17994.9 | 18039.0 | 18039.0 |
| 22.5° | 17680.0 | 17751.0 | 17696.8 | 17727.3 | 17734.1 |
| 25° | 17263.1 | 17290.0 | 17351.0 | 17378.3 | 17364.6 |
| 27.5° | 16863.5 | 16829.4 | 16948.2 | 17012.4 | 16978.3 |
| 30° | 16419.4 | 16365.2 | 16504.1 | 16609.2 | 16568.6 |
| 32.5° | 15911.1 | 15877.4 | 16036.7 | 16161.8 | 16138.2 |
| 35° | 15430.1 | 15338.6 | 15514.7 | 15704.5 | 15660.4 |
| 37.5° | 14860.8 | 14806.6 | 15006.4 | 15206.6 | 15182.9 |
| 40° | 14305.1 | 14213.6 | 14440.7 | 14677.8 | 14654.1 |
| 42.5° | 13708.9 | 13600.2 | 13847.7 | 14132.6 | 14105.3 |
| 45° | 13014.1 | 12990.4 | 13210.6 | 13522.4 | 13498.7 |
| 47.5° | 12397.8 | 12279.0 | 12587.2 | 12888.9 | 12916.1 |
| 50° | 11652.0 | 11608.2 | 11889.5 | 12255.4 | 12282.3 |
| 52.5° | 10923.8 | 10893.3 | 11187.8 | 11557.3 | 11604.6 |
| 55° | 10198.5 | 10120.6 | 10462.8 | 10811.9 | 10839.1 |
| 57.5° | 9422.9 | 9341.5 | 9690.5 | 10070.0 | 10127.4 |
| 60° | 8592.5 | 8514.6 | 8897.4 | 9250.0 | 7355.9 |
| 62.5° | 7762.4 | 7708.2 | 8108.2 | 5743.1 | 4628.6 |
| 65° | 6871.3 | 6871.3 | 7270.9 | 4170.9 | 4184.5 |
| 67.5° | 6038.0 | 5983.8 | 5421.4 | 3747.2 | 3747.2 |
| 70° | 5143.4 | 5163.8 | 3123.7 | 3283.4 | 3286.6 |
| 72.5° | 4245.5 | 4320.1 | 2697.2 | 2825.7 | 2832.5 |
| 75° | 3394.9 | 3459.5 | 2246.3 | 2365.1 | 2375.1 |
| 77.5° | 2493.8 | 1917.7 | 1805.8 | 1897.6 | 1900.9 |
| 80° | 1751.6 | 1209.6 | 1382.5 | 1470.4 | 1460.4 |
| 82.5° | 1023.1 | 846.9 | 1013.0 | 1077.6 | 1074.0 |
| 85° | 443.7 | 562.5 | 701.3 | 759.1 | 718.2 |
| 87.5° | 142.1 | 349.0 | 436.9 | 471.0 | 467.4 |
| 90° | 0.0 | 189.8 | 311.7 | 369.1 | 362.7 |
| 92.5° | 0.0 | 148.9 | 271.2 | 339.0 | 342.2 |
| 95° | 10.0 | 98.3 | 223.8 | 301.7 | 301.7 |
| 97.5° | 6.8 | 71.0 | 159.3 | 237.1 | 243.9 |
| 100° | 6.8 | 57.4 | 105.1 | 169.3 | 172.9 |
| 102.5° | 16.9 | 47.4 | 64.2 | 108.3 | 111.9 |
| 105° | 16.9 | 37.3 | 54.2 | 54.2 | 50.9 |



TEST NUMBER: P830726

CATALOG NUMBER: OHBL-60SE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 20.4 | 27.3 | 37.3 | 27.3 | 3.2 |
| 115° | 16.9 | 23.7 | 33.7 | 23.7 | 3.2 |
| 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° | 16.9 | 33.7 | 47.4 | 30.5 | 10.0 |
| 110° | 20.4 | 30.5 | 40.5 | 27.3 | 3.2 |



(END OF REPORT)