

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: P830303

Luminaire Tested: **OHBL-30SE-W-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30SE-W-UNV-L930-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

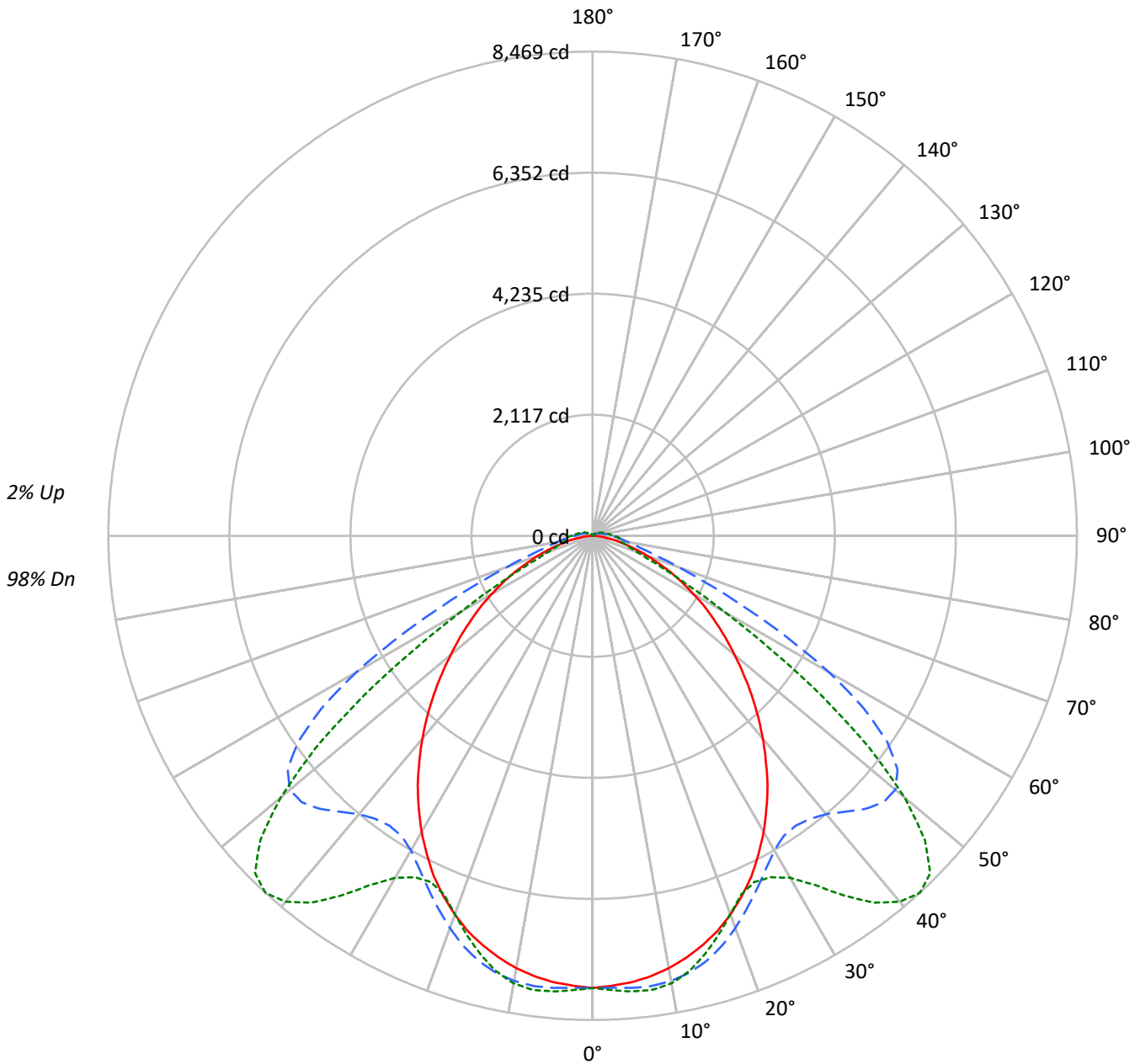
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23686.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174
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: P830303
CATALOG NUMBER: OHBL-30SE-W-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830303

CATALOG NUMBER: OHBL-30SE-W-UNV-L930-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 |
| RC | 80 | | | | 70 | | | | 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | |
| 2 | 99 | 91 | 85 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 77 | 74 | 78 | 75 | 72 | 70 | | | |
| 3 | 90 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 62 | 69 | 65 | 61 | 59 | | | |
| 4 | 83 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 57 | 51 | 46 | 55 | 50 | 45 | 43 | | | |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 | | | |
| 7 | 65 | 51 | 43 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 40 | 35 | 33 | | | |
| 8 | 60 | 47 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 35 | 30 | 25 | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13511 | 13511 | 13511 |
| 5° | 13386 | 13492 | 13599 |
| 10° | 13217 | 13472 | 13549 |
| 15° | 12960 | 13249 | 13050 |
| 20° | 12607 | 12793 | 12347 |
| 25° | 12134 | 12242 | 12034 |
| 30° | 11505 | 11832 | 12875 |
| 35° | 10788 | 12051 | 14972 |
| 40° | 9956 | 13052 | 17188 |
| 45° | 9085 | 14804 | 18330 |
| 50° | 8178 | 16370 | 16901 |
| 55° | 7325 | 16349 | 12772 |
| 60° | 6456 | 13831 | 7702 |
| 65° | 5539 | 9550 | 4583 |
| 70° | 4501 | 6173 | 3229 |
| 75° | 3424 | 4422 | 2887 |
| 80° | 2457 | 3884 | 3063 |
| 85° | 1668 | 4265 | 4260 |



TEST NUMBER: P830303

CATALOG NUMBER: OHBL-30SE-W-UNV-L930-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 756.0 | 3.2 |
| 10°-20° | 2140.6 | 9.0 |
| 20°-30° | 3132.5 | 13.2 |
| 30°-40° | 4068.2 | 17.2 |
| 40°-50° | 4967.7 | 21.0 |
| 50°-60° | 4374.9 | 18.5 |
| 60°-70° | 2279.8 | 9.6 |
| 70°-80° | 977.6 | 4.1 |
| 80°-90° | 469.5 | 2.0 |
| 90°-100° | 220.6 | 0.9 |
| 100°-110° | 137.1 | 0.6 |
| 110°-120° | 81.1 | 0.3 |
| 120°-130° | 44.1 | 0.2 |
| 130°-140° | 22.1 | 0.1 |
| 140°-150° | 10.6 | 0.0 |
| 150°-160° | 3.7 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 6029.1 | 25.5 |
| 0°-40° | 10097.2 | 42.6 |
| 0°-60° | 19439.8 | 82.1 |
| 0°-90° | 23166.7 | 97.8 |
| 90°-120° | 438.7 | 1.9 |
| 90°-150° | 515.5 | 2.2 |
| 90°-180° | 519.0 | 2.2 |
| 0°-180° | 23686.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 7911 | 7911 | 7911 | 7911 | 7911 | |
| 5° | 7837 | 7897 | 7940 | 8010 | 8001 | 743 |
| 15° | 7416 | 7624 | 7697 | 7639 | 7578 | 2088 |
| 25° | 6571 | 6922 | 6805 | 6677 | 6684 | 3015 |
| 35° | 5334 | 5897 | 6192 | 7221 | 7684 | 3324 |
| 45° | 3927 | 4941 | 6754 | 8177 | 8348 | 3028 |
| 55° | 2615 | 4328 | 6289 | 5514 | 4902 | 2347 |
| 65° | 1500 | 2999 | 2879 | 1601 | 1377 | 1484 |
| 75° | 604 | 1403 | 925 | 633 | 601 | 659 |
| 85° | 128 | 500 | 471 | 461 | 466 | 143 |
| 90° | 2 | 181 | 311 | 355 | 364 | 9 |
| 95° | 3 | 106 | 248 | 290 | 299 | 3 |
| 105° | 7 | 60 | 160 | 193 | 196 | 7 |
| 115° | 10 | 34 | 99 | 121 | 125 | 11 |
| 125° | 12 | 17 | 58 | 75 | 77 | 10 |
| 135° | 10 | 10 | 27 | 46 | 48 | 8 |
| 145° | 14 | 10 | 12 | 22 | 26 | 8 |
| 155° | 14 | 14 | 10 | 10 | 10 | 4 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830303

CATALOG NUMBER: OHBL-30SE-W-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 7910.7 | 7910.7 | 7910.7 | 7910.7 | 7910.7 |
| 2.5° | 7876.6 | 7910.7 | 7912.4 | 7960.2 | 7955.1 |
| 5° | 7837.3 | 7897.0 | 7939.7 | 8009.7 | 8001.1 |
| 7.5° | 7772.4 | 7866.3 | 7941.4 | 8018.2 | 8011.4 |
| 10° | 7680.3 | 7808.3 | 7907.3 | 7970.4 | 7949.9 |
| 12.5° | 7560.8 | 7729.8 | 7827.1 | 7840.7 | 7801.5 |
| 15° | 7415.7 | 7624.0 | 7697.4 | 7639.3 | 7577.9 |
| 17.5° | 7251.9 | 7496.0 | 7521.6 | 7395.3 | 7318.5 |
| 20° | 7047.1 | 7325.3 | 7299.7 | 7125.6 | 7040.3 |
| 22.5° | 6820.1 | 7137.5 | 7055.6 | 6873.0 | 6791.1 |
| 25° | 6570.9 | 6922.5 | 6804.7 | 6676.7 | 6683.6 |
| 27.5° | 6279.1 | 6678.4 | 6564.1 | 6622.1 | 6731.3 |
| 30° | 5982.1 | 6422.4 | 6352.4 | 6690.4 | 6905.4 |
| 32.5° | 5656.1 | 6159.6 | 6222.7 | 6890.1 | 7241.7 |
| 35° | 5333.5 | 5896.8 | 6192.0 | 7221.2 | 7683.7 |
| 37.5° | 4976.8 | 5630.5 | 6241.5 | 7603.5 | 8088.2 |
| 40° | 4630.4 | 5371.1 | 6354.2 | 7946.5 | 8356.1 |
| 42.5° | 4277.1 | 5139.0 | 6543.6 | 8149.6 | 8468.8 |
| 45° | 3927.2 | 4941.0 | 6753.5 | 8176.9 | 8347.6 |
| 47.5° | 3577.3 | 4773.7 | 6898.6 | 7960.2 | 7881.7 |
| 50° | 3239.4 | 4625.2 | 6908.8 | 7439.6 | 7118.8 |
| 52.5° | 2923.6 | 4488.7 | 6721.1 | 6610.2 | 6111.8 |
| 55° | 2614.7 | 4328.3 | 6289.3 | 5514.4 | 4901.7 |
| 57.5° | 2333.1 | 4106.4 | 5623.7 | 4336.8 | 3667.8 |
| 60° | 2034.4 | 3806.0 | 4763.5 | 3172.8 | 2645.4 |
| 62.5° | 1759.6 | 3432.2 | 3799.2 | 2208.5 | 1901.3 |
| 65° | 1500.2 | 2998.7 | 2879.3 | 1600.9 | 1377.3 |
| 67.5° | 1225.4 | 2549.9 | 2124.9 | 1167.4 | 1024.0 |
| 70° | 1010.4 | 2133.4 | 1582.1 | 908.0 | 824.4 |
| 72.5° | 790.2 | 1737.5 | 1182.8 | 737.3 | 691.2 |
| 75° | 604.2 | 1402.9 | 925.0 | 633.2 | 600.8 |
| 77.5° | 445.5 | 1109.4 | 744.1 | 559.8 | 529.1 |
| 80° | 312.3 | 873.8 | 623.0 | 500.1 | 488.1 |
| 82.5° | 209.9 | 675.9 | 530.8 | 476.2 | 477.9 |
| 85° | 128.0 | 500.1 | 471.1 | 460.8 | 465.9 |
| 87.5° | 61.4 | 355.0 | 404.5 | 419.9 | 425.0 |
| 90° | 1.7 | 180.9 | 310.6 | 355.0 | 363.5 |
| 92.5° | 0.0 | 138.2 | 273.1 | 317.5 | 326.0 |
| 95° | 3.4 | 105.8 | 247.5 | 290.1 | 298.7 |
| 97.5° | 3.4 | 87.0 | 221.9 | 266.2 | 271.4 |
| 100° | 5.1 | 75.1 | 198.0 | 240.6 | 245.8 |
| 102.5° | 5.1 | 66.6 | 177.5 | 215.0 | 218.5 |
| 105° | 6.8 | 59.7 | 160.4 | 192.9 | 196.3 |



TEST NUMBER: P830303

CATALOG NUMBER: OHBL-30SE-W-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 10.2 | 41.0 | 112.6 | 136.5 | 140.0 |
| 115° | 10.2 | 34.1 | 99.0 | 121.2 | 124.6 |
| 117.5° | 11.9 | 30.7 | 87.0 | 107.5 | 109.2 |
| 120° | 11.9 | 25.6 | 75.1 | 95.6 | 97.3 |
| 122.5° | 11.9 | 20.5 | 66.6 | 85.3 | 87.0 |
| 125° | 11.9 | 17.1 | 58.0 | 75.1 | 76.8 |
| 127.5° | 10.2 | 11.9 | 49.5 | 66.6 | 68.3 |
| 130° | 10.2 | 10.2 | 41.0 | 58.0 | 61.4 |
| 132.5° | 10.2 | 10.2 | 34.1 | 51.2 | 54.6 |
| 135° | 10.2 | 10.2 | 27.3 | 46.1 | 47.8 |
| 137.5° | 10.2 | 10.2 | 22.2 | 39.3 | 42.7 |
| 140° | 10.2 | 10.2 | 17.1 | 34.1 | 35.8 |
| 142.5° | 11.9 | 10.2 | 15.4 | 29.0 | 30.7 |
| 145° | 13.7 | 10.2 | 11.9 | 22.2 | 25.6 |
| 147.5° | 13.7 | 11.9 | 11.9 | 18.8 | 20.5 |
| 150° | 13.7 | 13.7 | 10.2 | 13.7 | 17.1 |
| 152.5° | 13.7 | 13.7 | 10.2 | 10.2 | 13.7 |
| 155° | 13.7 | 13.7 | 10.2 | 10.2 | 10.2 |
| 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° | 8.5 | 52.9 | 143.4 | 172.4 | <i>175.8</i> |
| 110° | 8.5 | 46.1 | 126.3 | 153.6 | <i>157.0</i> |



(END OF REPORT)