

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: P830231

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830231
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-30HE-W-UNV-L930-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

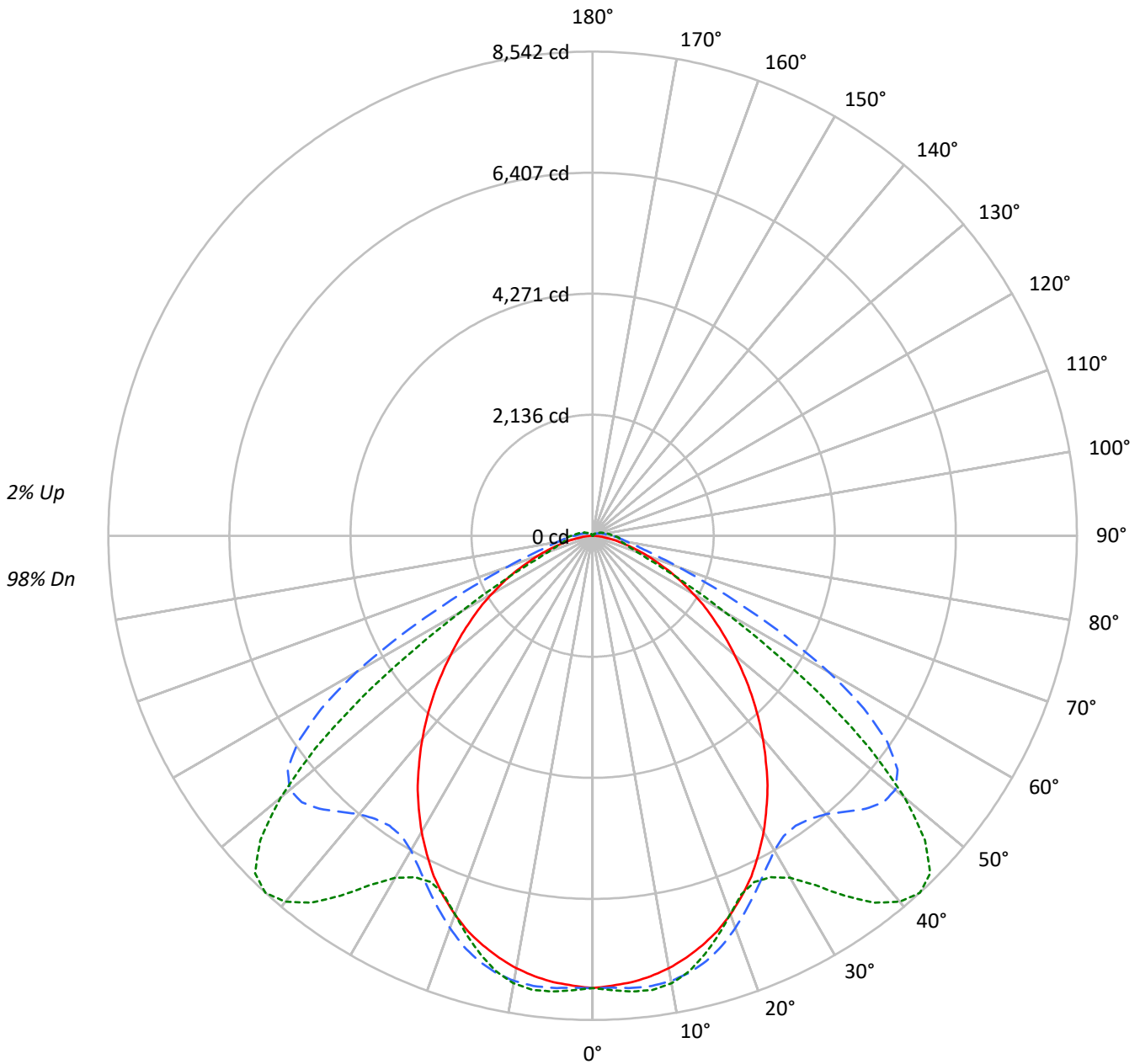
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23891.0 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 163.8
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: P830231
CATALOG NUMBER: OHBL-30HE-W-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830231

CATALOG NUMBER: OHBL-30HE-W-UNV-L930-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 | 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° | 12619 | 12619 | 12619 |
| 5° | 12501 | 12607 | 12709 |
| 10° | 12344 | 12593 | 12670 |
| 15° | 12104 | 12391 | 12211 |
| 20° | 11774 | 11970 | 11561 |
| 25° | 11332 | 11460 | 11277 |
| 30° | 10745 | 11082 | 12074 |
| 35° | 10075 | 11294 | 14052 |
| 40° | 9298 | 12239 | 16146 |
| 45° | 8485 | 13892 | 17235 |
| 50° | 7638 | 15374 | 15910 |
| 55° | 6841 | 15369 | 12040 |
| 60° | 6030 | 13018 | 7273 |
| 65° | 5173 | 9002 | 4337 |
| 70° | 4203 | 5830 | 3065 |
| 75° | 3198 | 4190 | 2752 |
| 80° | 2295 | 3696 | 2940 |
| 85° | 1558 | 4096 | 4143 |



TEST NUMBER: P830231

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

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 762.5 | 3.2 |
| 10°-20° | 2159.2 | 9.0 |
| 20°-30° | 3159.6 | 13.2 |
| 30°-40° | 4103.4 | 17.2 |
| 40°-50° | 5010.7 | 21.0 |
| 50°-60° | 4412.7 | 18.5 |
| 60°-70° | 2299.5 | 9.6 |
| 70°-80° | 986.1 | 4.1 |
| 80°-90° | 473.6 | 2.0 |
| 90°-100° | 222.5 | 0.9 |
| 100°-110° | 138.3 | 0.6 |
| 110°-120° | 81.8 | 0.3 |
| 120°-130° | 44.4 | 0.2 |
| 130°-140° | 22.3 | 0.1 |
| 140°-150° | 10.7 | 0.0 |
| 150°-160° | 3.8 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 6081.2 | 25.5 |
| 0°-40° | 10184.6 | 42.6 |
| 0°-60° | 19608.0 | 82.1 |
| 0°-90° | 23367.2 | 97.8 |
| 90°-120° | 442.5 | 1.9 |
| 90°-150° | 520.0 | 2.2 |
| 90°-180° | 524.0 | 2.2 |
| 0°-180° | 23891.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 7979 | 7979 | 7979 | 7979 | 7979 | |
| 5° | 7905 | 7965 | 8008 | 8079 | 8070 | 750 |
| 15° | 7480 | 7690 | 7764 | 7705 | 7644 | 2106 |
| 25° | 6628 | 6982 | 6864 | 6734 | 6741 | 3042 |
| 35° | 5380 | 5948 | 6246 | 7284 | 7750 | 3353 |
| 45° | 3961 | 4984 | 6812 | 8248 | 8420 | 3054 |
| 55° | 2637 | 4366 | 6344 | 5562 | 4944 | 2367 |
| 65° | 1513 | 3025 | 2904 | 1615 | 1389 | 1497 |
| 75° | 609 | 1415 | 933 | 639 | 606 | 665 |
| 85° | 129 | 504 | 475 | 465 | 470 | 144 |
| 90° | 2 | 182 | 313 | 358 | 367 | 9 |
| 95° | 3 | 107 | 250 | 293 | 301 | 3 |
| 105° | 7 | 60 | 162 | 194 | 198 | 7 |
| 115° | 10 | 34 | 100 | 122 | 126 | 11 |
| 125° | 12 | 17 | 58 | 76 | 78 | 10 |
| 135° | 10 | 10 | 28 | 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: P830231

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 7979.2 | 7979.2 | 7979.2 | 7979.2 | 7979.2 |
| 2.5° | 7944.7 | 7979.2 | 7980.9 | 8029.1 | 8023.9 |
| 5° | 7905.1 | 7965.4 | 8008.4 | 8079.0 | 8070.4 |
| 7.5° | 7839.7 | 7934.4 | 8010.1 | 8087.6 | 8080.7 |
| 10° | 7746.8 | 7875.9 | 7975.7 | 8039.4 | 8018.8 |
| 12.5° | 7626.3 | 7796.7 | 7894.8 | 7908.6 | 7869.0 |
| 15° | 7479.9 | 7689.9 | 7764.0 | 7705.4 | 7643.5 |
| 17.5° | 7314.7 | 7560.8 | 7586.7 | 7459.3 | 7381.8 |
| 20° | 7108.1 | 7388.7 | 7362.9 | 7187.3 | 7101.2 |
| 22.5° | 6879.1 | 7199.3 | 7116.7 | 6932.5 | 6849.9 |
| 25° | 6627.8 | 6982.4 | 6863.6 | 6734.5 | 6741.4 |
| 27.5° | 6333.4 | 6736.2 | 6620.9 | 6679.4 | 6789.6 |
| 30° | 6033.9 | 6478.0 | 6407.4 | 6748.3 | 6965.2 |
| 32.5° | 5705.1 | 6212.9 | 6276.6 | 6949.7 | 7304.3 |
| 35° | 5379.7 | 5947.8 | 6245.6 | 7283.7 | 7750.2 |
| 37.5° | 5019.9 | 5679.2 | 6295.5 | 7669.3 | 8158.2 |
| 40° | 4670.4 | 5417.6 | 6409.1 | 8015.3 | 8428.5 |
| 42.5° | 4314.1 | 5183.4 | 6600.2 | 8220.2 | 8542.1 |
| 45° | 3961.2 | 4983.7 | 6812.0 | 8247.7 | 8419.9 |
| 47.5° | 3608.3 | 4815.0 | 6958.3 | 8029.1 | 7949.9 |
| 50° | 3267.4 | 4665.3 | 6968.6 | 7504.0 | 7180.4 |
| 52.5° | 2948.9 | 4527.5 | 6779.3 | 6667.4 | 6164.7 |
| 55° | 2637.3 | 4365.7 | 6343.7 | 5562.2 | 4944.2 |
| 57.5° | 2353.3 | 4141.9 | 5672.3 | 4374.3 | 3699.5 |
| 60° | 2052.0 | 3838.9 | 4804.7 | 3200.3 | 2668.3 |
| 62.5° | 1774.9 | 3461.9 | 3832.1 | 2227.6 | 1917.8 |
| 65° | 1513.2 | 3024.7 | 2904.2 | 1614.8 | 1389.3 |
| 67.5° | 1236.0 | 2571.9 | 2143.3 | 1177.5 | 1032.9 |
| 70° | 1019.1 | 2151.9 | 1595.8 | 915.8 | 831.5 |
| 72.5° | 797.1 | 1752.5 | 1193.0 | 743.7 | 697.2 |
| 75° | 609.4 | 1415.1 | 933.1 | 638.7 | 606.0 |
| 77.5° | 449.3 | 1119.0 | 750.6 | 564.7 | 533.7 |
| 80° | 315.0 | 881.4 | 628.3 | 504.4 | 492.3 |
| 82.5° | 211.7 | 681.7 | 535.4 | 480.3 | 482.0 |
| 85° | 129.1 | 504.4 | 475.1 | 464.8 | 470.0 |
| 87.5° | 62.0 | 358.1 | 408.0 | 423.5 | 428.7 |
| 90° | 1.7 | 182.5 | 313.3 | 358.1 | 366.7 |
| 92.5° | 0.0 | 139.4 | 275.4 | 320.2 | 328.8 |
| 95° | 3.4 | 106.7 | 249.6 | 292.7 | 301.3 |
| 97.5° | 3.4 | 87.8 | 223.8 | 268.6 | 273.7 |
| 100° | 5.2 | 75.7 | 199.7 | 242.7 | 247.9 |
| 102.5° | 5.2 | 67.1 | 179.0 | 216.9 | 220.4 |
| 105° | 6.9 | 60.3 | 161.8 | 194.5 | 198.0 |



TEST NUMBER: P830231

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

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 10.3 | 41.3 | 113.6 | 137.7 | 141.2 |
| 115° | 10.3 | 34.4 | 99.8 | 122.2 | 125.7 |
| 117.5° | 12.1 | 31.0 | 87.8 | 108.5 | 110.2 |
| 120° | 12.1 | 25.8 | 75.7 | 96.4 | 98.1 |
| 122.5° | 12.1 | 20.7 | 67.1 | 86.1 | 87.8 |
| 125° | 12.1 | 17.2 | 58.5 | 75.7 | 77.5 |
| 127.5° | 10.3 | 12.1 | 49.9 | 67.1 | 68.9 |
| 130° | 10.3 | 10.3 | 41.3 | 58.5 | 62.0 |
| 132.5° | 10.3 | 10.3 | 34.4 | 51.6 | 55.1 |
| 135° | 10.3 | 10.3 | 27.5 | 46.5 | 48.2 |
| 137.5° | 10.3 | 10.3 | 22.4 | 39.6 | 43.0 |
| 140° | 10.3 | 10.3 | 17.2 | 34.4 | 36.2 |
| 142.5° | 12.1 | 10.3 | 15.5 | 29.3 | 31.0 |
| 145° | 13.8 | 10.3 | 12.1 | 22.4 | 25.8 |
| 147.5° | 13.8 | 12.1 | 12.1 | 18.9 | 20.7 |
| 150° | 13.8 | 13.8 | 10.3 | 13.8 | 17.2 |
| 152.5° | 13.8 | 13.8 | 10.3 | 10.3 | 13.8 |
| 155° | 13.8 | 13.8 | 10.3 | 10.3 | 10.3 |
| 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° | 8.6 | 53.4 | 144.6 | 173.9 | 177.3 |
| 110° | 8.6 | 46.5 | 127.4 | 154.9 | 158.4 |



(END OF REPORT)