

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: P830211

Luminaire Tested: **OHBL-30HE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830211
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-30HE-NL-UNV-L730-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

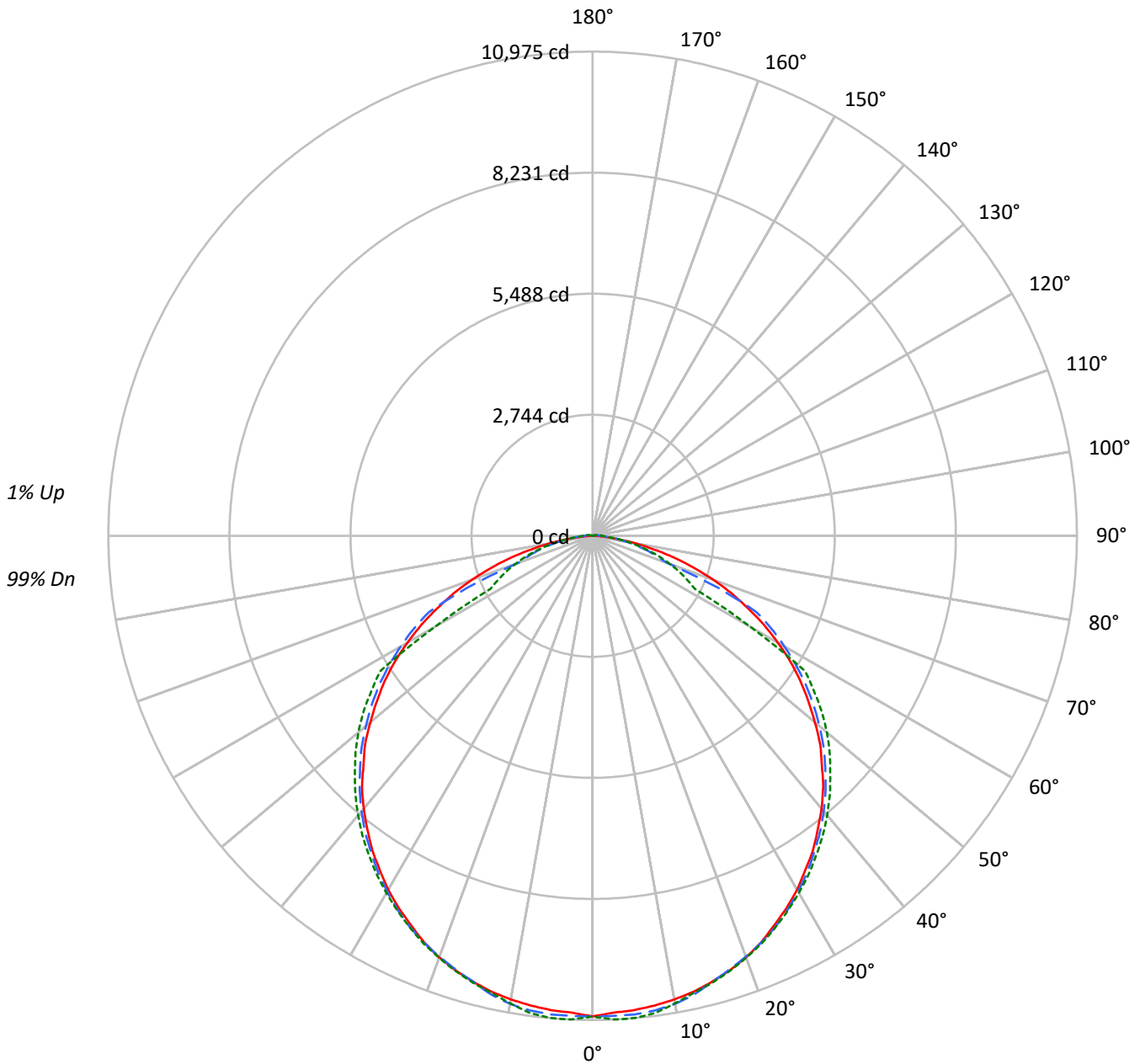
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30588.0 lumens
Efficiency: N/A
Efficacy: 186.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
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: P830211
CATALOG NUMBER: OHBL-30HE-NL-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830211

CATALOG NUMBER: OHBL-30HE-NL-UNV-L730-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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 99 | | | | 99 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 | | | | 84 |
| 2 | 99 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 | | | | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | 60 | | | | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | | | | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 | | | | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | | | | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 | | | | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 | | | | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 | | | | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17230 | 17230 | 17230 |
| 5° | 17135 | 17289 | 17420 |
| 10° | 17139 | 17302 | 17281 |
| 15° | 17136 | 17133 | 17171 |
| 20° | 17113 | 17087 | 17129 |
| 25° | 16996 | 17083 | 17096 |
| 30° | 16917 | 17004 | 17071 |
| 35° | 16808 | 16900 | 17058 |
| 40° | 16663 | 16820 | 17069 |
| 45° | 16422 | 16670 | 17034 |
| 50° | 16175 | 16504 | 17050 |
| 55° | 15865 | 16276 | 16862 |
| 60° | 15334 | 15878 | 13127 |
| 65° | 14508 | 15351 | 8835 |
| 70° | 13418 | 8149 | 8574 |
| 75° | 11704 | 7744 | 8188 |
| 80° | 9001 | 7104 | 7504 |
| 85° | 4544 | 7180 | 7353 |



TEST NUMBER: P830211

CATALOG NUMBER: OHBL-30HE-NL-UNV-L730-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1035.0 | 3.4 |
| 10°-20° | 2963.6 | 9.7 |
| 20°-30° | 4509.3 | 14.7 |
| 30°-40° | 5482.7 | 17.9 |
| 40°-50° | 5764.8 | 18.8 |
| 50°-60° | 5264.0 | 17.2 |
| 60°-70° | 3374.5 | 11.0 |
| 70°-80° | 1594.1 | 5.2 |
| 80°-90° | 442.0 | 1.4 |
| 90°-100° | 117.1 | 0.4 |
| 100°-110° | 32.0 | 0.1 |
| 110°-120° | 8.9 | 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° | 8508.0 | 27.8 |
| 0°-40° | 13990.7 | 45.7 |
| 0°-60° | 25019.5 | 81.8 |
| 0°-90° | 30430.0 | 99.5 |
| 90°-120° | 158.0 | 0.5 |
| 90°-150° | 158.0 | 0.5 |
| 90°-180° | 158.0 | 0.5 |
| 0°-180° | 30588.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 10895 | 10895 | 10895 | 10895 | 10895 | |
| 5° | 10793 | 10835 | 10891 | 10950 | 10973 | ### |
| 15° | 10466 | 10545 | 10465 | 10480 | 10487 | 2955 |
| 25° | 9740 | 9755 | 9790 | 9805 | 9797 | 4494 |
| 35° | 8706 | 8654 | 8754 | 8861 | 8836 | 5441 |
| 45° | 7343 | 7329 | 7454 | 7629 | 7616 | 5675 |
| 55° | 5754 | 5710 | 5903 | 6100 | 6116 | 5132 |
| 65° | 3877 | 3877 | 4102 | 2353 | 2361 | 3844 |
| 75° | 1916 | 1952 | 1267 | 1334 | 1340 | 2019 |
| 85° | 250 | 317 | 396 | 428 | 405 | 370 |
| 90° | 0 | 107 | 176 | 208 | 205 | 11 |
| 95° | 6 | 56 | 126 | 170 | 170 | 3 |
| 105° | 10 | 21 | 31 | 31 | 29 | 10 |
| 115° | 10 | 13 | 19 | 13 | 2 | 7 |
| 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: P830211

CATALOG NUMBER: OHBL-30HE-NL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 10894.7 | 10894.7 | 10894.7 | 10894.7 | 10894.7 |
| 2.5° | 10818.2 | 10854.6 | 10894.7 | 10946.3 | 10974.8 |
| 5° | 10793.3 | 10835.4 | 10890.8 | 10950.1 | 10973.0 |
| 7.5° | 10739.8 | 10798.9 | 10852.6 | 10894.7 | 10908.0 |
| 10° | 10672.8 | 10743.7 | 10774.2 | 10770.4 | 10760.9 |
| 12.5° | 10583.0 | 10657.7 | 10648.1 | 10604.0 | 10611.7 |
| 15° | 10466.4 | 10544.7 | 10464.6 | 10479.8 | 10487.4 |
| 17.5° | 10328.8 | 10405.3 | 10311.6 | 10342.1 | 10344.1 |
| 20° | 10168.3 | 10225.5 | 10152.9 | 10177.8 | 10177.8 |
| 22.5° | 9975.2 | 10015.3 | 9984.7 | 10001.9 | 10005.7 |
| 25° | 9740.0 | 9755.2 | 9789.6 | 9805.0 | 9797.3 |
| 27.5° | 9514.5 | 9495.3 | 9562.3 | 9598.5 | 9579.3 |
| 30° | 9264.0 | 9233.4 | 9311.7 | 9371.0 | 9348.2 |
| 32.5° | 8977.2 | 8958.2 | 9048.0 | 9118.7 | 9105.3 |
| 35° | 8705.8 | 8654.2 | 8753.5 | 8860.6 | 8835.7 |
| 37.5° | 8384.6 | 8354.0 | 8466.7 | 8579.7 | 8566.3 |
| 40° | 8071.1 | 8019.5 | 8147.6 | 8281.3 | 8268.0 |
| 42.5° | 7734.7 | 7673.4 | 7813.0 | 7973.7 | 7958.3 |
| 45° | 7342.6 | 7329.3 | 7453.6 | 7629.4 | 7616.1 |
| 47.5° | 6994.9 | 6927.9 | 7101.8 | 7272.0 | 7287.4 |
| 50° | 6574.2 | 6549.5 | 6708.1 | 6914.6 | 6929.8 |
| 52.5° | 6163.3 | 6146.1 | 6312.3 | 6520.7 | 6547.4 |
| 55° | 5754.1 | 5710.1 | 5903.2 | 6100.2 | 6115.5 |
| 57.5° | 5316.5 | 5270.5 | 5467.5 | 5681.6 | 5714.0 |
| 60° | 4847.9 | 4804.0 | 5020.0 | 5218.9 | 4150.3 |
| 62.5° | 4379.6 | 4349.0 | 4574.7 | 3240.3 | 2611.5 |
| 65° | 3876.9 | 3876.9 | 4102.3 | 2353.2 | 2360.9 |
| 67.5° | 3406.7 | 3376.1 | 3058.8 | 2114.2 | 2114.2 |
| 70° | 2901.9 | 2913.5 | 1762.4 | 1852.5 | 1854.3 |
| 72.5° | 2395.3 | 2437.4 | 1521.8 | 1594.3 | 1598.1 |
| 75° | 1915.5 | 1951.9 | 1267.4 | 1334.4 | 1340.0 |
| 77.5° | 1407.0 | 1082.0 | 1018.9 | 1070.7 | 1072.5 |
| 80° | 988.3 | 682.5 | 780.0 | 829.6 | 823.9 |
| 82.5° | 577.2 | 477.9 | 571.6 | 608.0 | 606.0 |
| 85° | 250.4 | 317.4 | 395.7 | 428.3 | 405.2 |
| 87.5° | 80.1 | 196.9 | 246.5 | 265.7 | 263.7 |
| 90° | 0.0 | 107.1 | 175.9 | 208.3 | 204.6 |
| 92.5° | 0.0 | 84.0 | 153.0 | 191.3 | 193.1 |
| 95° | 5.7 | 55.5 | 126.3 | 170.2 | 170.2 |
| 97.5° | 3.8 | 40.1 | 89.9 | 133.8 | 137.6 |
| 100° | 3.8 | 32.4 | 59.3 | 95.5 | 97.6 |
| 102.5° | 9.5 | 26.7 | 36.2 | 61.1 | 63.1 |
| 105° | 9.5 | 21.0 | 30.6 | 30.6 | 28.7 |



TEST NUMBER: P830211

CATALOG NUMBER: OHBL-30HE-NL-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 11.5 | 15.4 | 21.0 | 15.4 | 1.8 |
| 115° | 9.5 | 13.4 | 19.0 | 13.4 | 1.8 |
| 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° | 9.5 | 19.0 | 26.7 | 17.2 | 5.7 |
| 110° | 11.5 | 17.2 | 22.9 | 15.4 | 1.8 |



(END OF REPORT)