

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: P830378

Luminaire Tested: **OHBL-36HE-W-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830378
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-36HE-W-UNV-L950-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

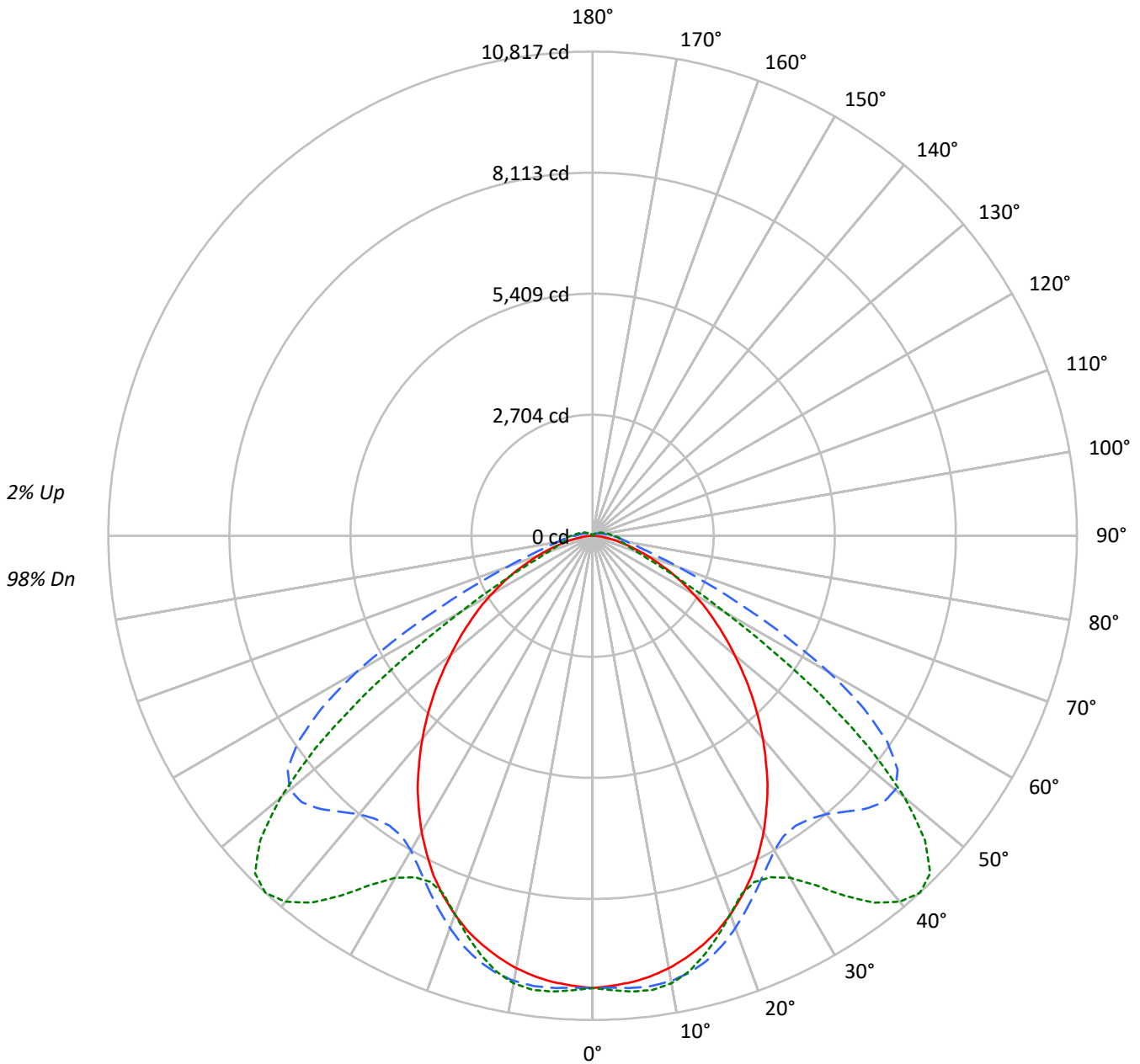
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30254.0 lumens
Efficiency: N/A
Efficacy: 142.7 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): 212
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: P830378
CATALOG NUMBER: OHBL-36HE-W-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830378

CATALOG NUMBER: OHBL-36HE-W-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 | 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° | 15980 | 15980 | 15980 |
| 5° | 15831 | 15964 | 16094 |
| 10° | 15632 | 15947 | 16045 |
| 15° | 15327 | 15691 | 15464 |
| 20° | 14910 | 15158 | 14641 |
| 25° | 14350 | 14512 | 14280 |
| 30° | 13607 | 14034 | 15290 |
| 35° | 12759 | 14301 | 17794 |
| 40° | 11774 | 15498 | 20446 |
| 45° | 10745 | 17592 | 21826 |
| 50° | 9672 | 19469 | 20148 |
| 55° | 8663 | 19463 | 15246 |
| 60° | 7636 | 16485 | 9210 |
| 65° | 6551 | 11399 | 5493 |
| 70° | 5323 | 7384 | 3881 |
| 75° | 4049 | 5306 | 3485 |
| 80° | 2906 | 4681 | 3723 |
| 85° | 1973 | 5187 | 5246 |



TEST NUMBER: P830378

CATALOG NUMBER: OHBL-36HE-W-UNV-L950-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 965.6 | 3.2 |
| 10°-20° | 2734.2 | 9.0 |
| 20°-30° | 4001.1 | 13.2 |
| 30°-40° | 5196.2 | 17.2 |
| 40°-50° | 6345.3 | 21.0 |
| 50°-60° | 5588.0 | 18.5 |
| 60°-70° | 2911.9 | 9.6 |
| 70°-80° | 1248.7 | 4.1 |
| 80°-90° | 599.7 | 2.0 |
| 90°-100° | 281.8 | 0.9 |
| 100°-110° | 175.1 | 0.6 |
| 110°-120° | 103.5 | 0.3 |
| 120°-130° | 56.3 | 0.2 |
| 130°-140° | 28.2 | 0.1 |
| 140°-150° | 13.6 | 0.0 |
| 150°-160° | 4.7 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 7700.9 | 25.5 |
| 0°-40° | 12897.1 | 42.6 |
| 0°-60° | 24830.4 | 82.1 |
| 0°-90° | 29590.7 | 97.8 |
| 90°-120° | 560.4 | 1.9 |
| 90°-150° | 658.5 | 2.2 |
| 90°-180° | 663.0 | 2.2 |
| 0°-180° | 30254.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 10104 | 10104 | 10104 | 10104 | 10104 | |
| 5° | 10010 | 10087 | 10141 | 10231 | 10220 | 949 |
| 15° | 9472 | 9738 | 9832 | 9758 | 9679 | 2667 |
| 25° | 8393 | 8842 | 8692 | 8528 | 8537 | 3852 |
| 35° | 6812 | 7532 | 7909 | 9224 | 9814 | 4246 |
| 45° | 5016 | 6311 | 8626 | 10444 | 10662 | 3868 |
| 55° | 3340 | 5528 | 8033 | 7044 | 6261 | 2997 |
| 65° | 1916 | 3830 | 3678 | 2045 | 1759 | 1896 |
| 75° | 772 | 1792 | 1182 | 809 | 767 | 841 |
| 85° | 164 | 639 | 602 | 589 | 595 | 182 |
| 90° | 2 | 231 | 397 | 453 | 464 | 11 |
| 95° | 4 | 135 | 316 | 371 | 382 | 3 |
| 105° | 9 | 76 | 205 | 246 | 251 | 9 |
| 115° | 13 | 44 | 126 | 155 | 159 | 14 |
| 125° | 15 | 22 | 74 | 96 | 98 | 13 |
| 135° | 13 | 13 | 35 | 59 | 61 | 10 |
| 145° | 17 | 13 | 15 | 28 | 33 | 10 |
| 155° | 17 | 17 | 13 | 13 | 13 | 5 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830378

CATALOG NUMBER: OHBL-36HE-W-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 10104.3 | 10104.3 | 10104.3 | 10104.3 | 10104.3 |
| 2.5° | 10060.7 | 10104.3 | 10106.5 | 10167.5 | 10161.0 |
| 5° | 10010.5 | 10086.8 | 10141.3 | 10230.7 | 10219.8 |
| 7.5° | 9927.7 | 10047.6 | 10143.5 | 10241.6 | 10232.9 |
| 10° | 9810.0 | 9973.5 | 10099.9 | 10180.6 | 10154.4 |
| 12.5° | 9657.4 | 9873.2 | 9997.5 | 10014.9 | 9964.8 |
| 15° | 9472.1 | 9738.0 | 9831.8 | 9757.7 | 9679.2 |
| 17.5° | 9262.8 | 9574.5 | 9607.2 | 9445.9 | 9347.8 |
| 20° | 9001.2 | 9356.5 | 9323.8 | 9101.5 | 8992.5 |
| 22.5° | 8711.3 | 9116.7 | 9012.1 | 8778.8 | 8674.2 |
| 25° | 8393.0 | 8842.1 | 8691.6 | 8528.1 | 8536.9 |
| 27.5° | 8020.2 | 8530.3 | 8384.3 | 8458.4 | 8597.9 |
| 30° | 7640.9 | 8203.3 | 8113.9 | 8545.6 | 8820.3 |
| 32.5° | 7224.5 | 7867.6 | 7948.3 | 8800.6 | 9249.7 |
| 35° | 6812.5 | 7531.9 | 7909.0 | 9223.6 | 9814.3 |
| 37.5° | 6356.9 | 7191.8 | 7972.2 | 9711.9 | 10331.0 |
| 40° | 5914.3 | 6860.4 | 8116.1 | 10150.1 | 10673.3 |
| 42.5° | 5463.1 | 6564.0 | 8358.1 | 10409.5 | 10817.1 |
| 45° | 5016.2 | 6311.1 | 8626.2 | 10444.4 | 10662.4 |
| 47.5° | 4569.3 | 6097.5 | 8811.5 | 10167.5 | 10067.2 |
| 50° | 4137.6 | 5907.8 | 8824.6 | 9502.6 | 9092.8 |
| 52.5° | 3734.3 | 5733.4 | 8584.8 | 8443.1 | 7806.6 |
| 55° | 3339.8 | 5528.5 | 8033.3 | 7043.6 | 6260.9 |
| 57.5° | 2980.1 | 5245.1 | 7183.1 | 5539.4 | 4684.8 |
| 60° | 2598.6 | 4861.4 | 6084.4 | 4052.6 | 3379.0 |
| 62.5° | 2247.6 | 4384.0 | 4852.7 | 2820.9 | 2428.5 |
| 65° | 1916.2 | 3830.3 | 3677.7 | 2044.8 | 1759.3 |
| 67.5° | 1565.2 | 3256.9 | 2714.1 | 1491.1 | 1308.0 |
| 70° | 1290.6 | 2725.0 | 2020.9 | 1159.8 | 1052.9 |
| 72.5° | 1009.3 | 2219.2 | 1510.7 | 941.8 | 882.9 |
| 75° | 771.7 | 1792.0 | 1181.6 | 808.8 | 767.4 |
| 77.5° | 569.0 | 1417.0 | 950.5 | 715.0 | 675.8 |
| 80° | 398.9 | 1116.2 | 795.7 | 638.7 | 623.5 |
| 82.5° | 268.1 | 863.3 | 678.0 | 608.2 | 610.4 |
| 85° | 163.5 | 638.7 | 601.7 | 588.6 | 595.1 |
| 87.5° | 78.5 | 453.4 | 516.7 | 536.3 | 542.8 |
| 90° | 2.2 | 231.1 | 396.8 | 453.4 | 464.3 |
| 92.5° | 0.0 | 176.6 | 348.8 | 405.5 | 416.4 |
| 95° | 4.4 | 135.2 | 316.1 | 370.6 | 381.5 |
| 97.5° | 4.4 | 111.2 | 283.4 | 340.1 | 346.6 |
| 100° | 6.5 | 95.9 | 252.9 | 307.4 | 313.9 |
| 102.5° | 6.5 | 85.0 | 226.7 | 274.7 | 279.0 |
| 105° | 8.7 | 76.3 | 204.9 | 246.3 | 250.7 |



TEST NUMBER: P830378

CATALOG NUMBER: OHBL-36HE-W-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 13.1 | 52.3 | 143.9 | 174.4 | 178.8 |
| 115° | 13.1 | 43.6 | 126.4 | 154.8 | 159.1 |
| 117.5° | 15.3 | 39.2 | 111.2 | 137.3 | 139.5 |
| 120° | 15.3 | 32.7 | 95.9 | 122.1 | 124.3 |
| 122.5° | 15.3 | 26.2 | 85.0 | 109.0 | 111.2 |
| 125° | 15.3 | 21.8 | 74.1 | 95.9 | 98.1 |
| 127.5° | 13.1 | 15.3 | 63.2 | 85.0 | 87.2 |
| 130° | 13.1 | 13.1 | 52.3 | 74.1 | 78.5 |
| 132.5° | 13.1 | 13.1 | 43.6 | 65.4 | 69.8 |
| 135° | 13.1 | 13.1 | 34.9 | 58.9 | 61.0 |
| 137.5° | 13.1 | 13.1 | 28.3 | 50.1 | 54.5 |
| 140° | 13.1 | 13.1 | 21.8 | 43.6 | 45.8 |
| 142.5° | 15.3 | 13.1 | 19.6 | 37.1 | 39.2 |
| 145° | 17.4 | 13.1 | 15.3 | 28.3 | 32.7 |
| 147.5° | 17.4 | 15.3 | 15.3 | 24.0 | 26.2 |
| 150° | 17.4 | 17.4 | 13.1 | 17.4 | 21.8 |
| 152.5° | 17.4 | 17.4 | 13.1 | 13.1 | 17.4 |
| 155° | 17.4 | 17.4 | 13.1 | 13.1 | 13.1 |
| 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° | 10.9 | 67.6 | 183.1 | 220.2 | 224.5 |
| 110° | 10.9 | 58.9 | 161.3 | 196.2 | 200.6 |



(END OF REPORT)