

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: P830352

Luminaire Tested: **OHBL-36HE-N-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-N-UNV-L935-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

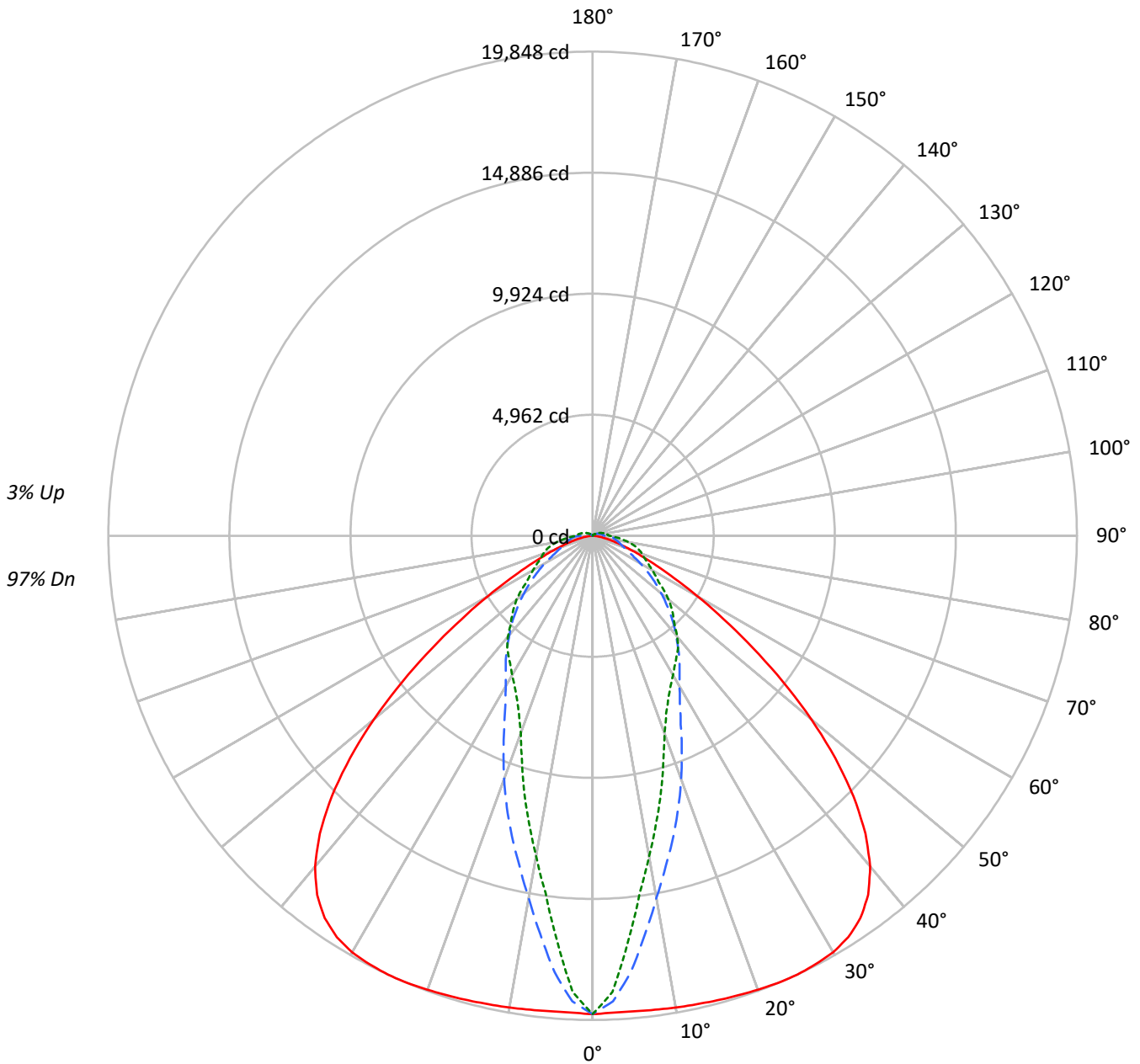
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28938.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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: P830352
CATALOG NUMBER: OHBL-36HE-N-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830352

CATALOG NUMBER: OHBL-36HE-N-UNV-L935-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|--|---|
| RF | 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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 97 | | |
| 1 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 92 | 90 | 88 | 88 | 86 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 82 | | |
| 2 | 100 | 93 | 86 | 81 | 97 | 90 | 85 | 80 | 86 | 82 | 78 | 83 | 79 | 75 | 79 | 76 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 71 | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 74 | 70 | 65 | 72 | 67 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 62 | | |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 57 | 65 | 60 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 54 | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 48 | | |
| 6 | 74 | 62 | 53 | 47 | 72 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 43 | | |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 39 | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 35 | | |
| 9 | 61 | 48 | 41 | 35 | 59 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 38 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 32 | | |
| 10 | 57 | 45 | 37 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 30 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 31008 | 31008 | 31008 |
| 5° | 30945 | 28251 | 26272 |
| 10° | 31294 | 23808 | 21079 |
| 15° | 31905 | 20371 | 17312 |
| 20° | 32802 | 17232 | 14012 |
| 25° | 33936 | 14270 | 12286 |
| 30° | 35109 | 12300 | 11422 |
| 35° | 35840 | 11216 | 10891 |
| 40° | 35226 | 10138 | 10342 |
| 45° | 32407 | 9168 | 9584 |
| 50° | 27341 | 8106 | 9006 |
| 55° | 20775 | 7107 | 8025 |
| 60° | 14559 | 6103 | 7696 |
| 65° | 9793 | 5263 | 7551 |
| 70° | 6688 | 4950 | 7944 |
| 75° | 4641 | 5120 | 8525 |
| 80° | 3195 | 5697 | 8836 |
| 85° | 1869 | 7191 | 9392 |



TEST NUMBER: P830352

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1650.5 | 5.7 |
| 10°-20° | 3882.7 | 13.4 |
| 20°-30° | 4866.9 | 16.8 |
| 30°-40° | 5164.4 | 17.8 |
| 40°-50° | 4669.4 | 16.1 |
| 50°-60° | 3385.6 | 11.7 |
| 60°-70° | 2124.6 | 7.3 |
| 70°-80° | 1406.0 | 4.9 |
| 80°-90° | 810.0 | 2.8 |
| 90°-100° | 392.4 | 1.4 |
| 100°-110° | 270.9 | 0.9 |
| 110°-120° | 167.1 | 0.6 |
| 120°-130° | 81.0 | 0.3 |
| 130°-140° | 37.2 | 0.1 |
| 140°-150° | 20.3 | 0.1 |
| 150°-160° | 8.8 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 10400.1 | 35.9 |
| 0°-40° | 15564.5 | 53.8 |
| 0°-60° | 23619.5 | 81.6 |
| 0°-90° | 27960.2 | 96.6 |
| 90°-120° | 830.4 | 2.9 |
| 90°-150° | 969.0 | 3.3 |
| 90°-180° | 978.0 | 3.4 |
| 0°-180° | 28938.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 19607 | 19607 | 19607 | 19607 | 19607 | |
| 5° | 19568 | 19066 | 17946 | 17114 | 16683 | ### |
| 15° | 19717 | 16071 | 12764 | 11351 | 10836 | 5592 |
| 25° | 19848 | 12426 | 8547 | 7586 | 7345 | 9169 |
| 35° | 19137 | 8261 | 6203 | 6009 | 6007 | 11896 |
| 45° | 15128 | 5232 | 4495 | 4604 | 4682 | 11525 |
| 55° | 8009 | 3243 | 2934 | 3182 | 3296 | 7237 |
| 65° | 2864 | 1881 | 1698 | 2176 | 2418 | 2981 |
| 75° | 884 | 1013 | 1140 | 1771 | 1877 | 986 |
| 85° | 155 | 420 | 834 | 1161 | 1066 | 186 |
| 90° | 0 | 175 | 483 | 681 | 687 | 10 |
| 95° | 8 | 123 | 426 | 578 | 605 | 7 |
| 105° | 15 | 82 | 310 | 410 | 422 | 15 |
| 115° | 20 | 58 | 209 | 261 | 267 | 20 |
| 125° | 22 | 30 | 106 | 134 | 132 | 19 |
| 135° | 19 | 22 | 47 | 73 | 73 | 15 |
| 145° | 22 | 24 | 28 | 43 | 41 | 13 |
| 155° | 22 | 28 | 30 | 32 | 28 | 7 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830352

CATALOG NUMBER: OHBL-36HE-N-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 19607.0 | 19607.0 | 19607.0 | 19607.0 | 19607.0 |
| 2.5° | 19566.0 | 19454.0 | 19105.1 | 18892.3 | 18713.2 |
| 5° | 19567.9 | 19065.9 | 17946.2 | 17113.9 | 16682.9 |
| 7.5° | 19595.8 | 18479.9 | 16462.7 | 15247.8 | 14773.9 |
| 10° | 19638.8 | 17754.0 | 15078.0 | 13783.0 | 13340.7 |
| 12.5° | 19670.5 | 16936.7 | 13859.5 | 12528.9 | 12043.8 |
| 15° | 19717.1 | 16070.8 | 12764.1 | 11351.4 | 10836.4 |
| 17.5° | 19760.1 | 15255.3 | 11681.7 | 10205.7 | 9632.8 |
| 20° | 19803.0 | 14376.4 | 10599.4 | 9078.5 | 8606.4 |
| 22.5° | 19844.0 | 13448.9 | 9543.2 | 8203.3 | 7880.5 |
| 25° | 19847.8 | 12426.3 | 8546.7 | 7585.7 | 7344.9 |
| 27.5° | 19799.2 | 11366.4 | 7738.7 | 7068.8 | 6919.5 |
| 30° | 19715.3 | 10338.2 | 7111.7 | 6695.5 | 6589.2 |
| 32.5° | 19506.3 | 9289.4 | 6626.5 | 6335.4 | 6273.8 |
| 35° | 19136.8 | 8261.2 | 6202.9 | 6008.8 | 6007.0 |
| 37.5° | 18554.6 | 7348.7 | 5743.8 | 5710.2 | 5751.3 |
| 40° | 17694.3 | 6550.0 | 5309.0 | 5398.6 | 5398.6 |
| 42.5° | 16546.6 | 5855.8 | 4915.3 | 5006.7 | 4982.5 |
| 45° | 15128.4 | 5232.5 | 4495.4 | 4603.7 | 4682.0 |
| 47.5° | 13484.4 | 4683.9 | 4066.2 | 4275.2 | 4383.5 |
| 50° | 11696.7 | 4161.4 | 3674.3 | 3941.2 | 4064.4 |
| 52.5° | 9823.1 | 3678.1 | 3291.8 | 3597.8 | 3696.7 |
| 55° | 8009.3 | 3243.3 | 2933.5 | 3181.7 | 3295.5 |
| 57.5° | 6367.1 | 2829.0 | 2582.7 | 2817.8 | 3052.9 |
| 60° | 4954.5 | 2472.6 | 2252.4 | 2588.3 | 2823.4 |
| 62.5° | 3784.4 | 2155.3 | 1942.6 | 2373.7 | 2608.8 |
| 65° | 2864.5 | 1881.0 | 1698.1 | 2175.9 | 2418.5 |
| 67.5° | 2159.1 | 1644.0 | 1507.8 | 2032.2 | 2269.2 |
| 70° | 1621.6 | 1414.5 | 1354.8 | 1942.6 | 2155.3 |
| 72.5° | 1198.0 | 1203.6 | 1233.5 | 1864.2 | 2026.6 |
| 75° | 884.5 | 1013.3 | 1140.2 | 1770.9 | 1877.3 |
| 77.5° | 632.6 | 839.7 | 1056.2 | 1659.0 | 1696.3 |
| 80° | 438.5 | 684.9 | 968.5 | 1511.5 | 1479.8 |
| 82.5° | 274.3 | 548.6 | 890.1 | 1349.2 | 1261.5 |
| 85° | 154.9 | 419.9 | 834.1 | 1160.7 | 1065.5 |
| 87.5° | 69.0 | 313.5 | 729.6 | 905.1 | 845.3 |
| 90° | 0.0 | 175.4 | 483.3 | 681.1 | 686.7 |
| 92.5° | 3.7 | 145.6 | 446.0 | 623.3 | 641.9 |
| 95° | 7.5 | 123.2 | 425.5 | 578.5 | 604.6 |
| 97.5° | 9.3 | 108.2 | 399.3 | 537.4 | 559.8 |
| 100° | 11.2 | 97.0 | 367.6 | 494.5 | 513.2 |
| 102.5° | 13.1 | 89.6 | 337.8 | 449.7 | 464.7 |
| 105° | 14.9 | 82.1 | 309.8 | 410.5 | 421.7 |



TEST NUMBER: P830352

CATALOG NUMBER: OHBL-36HE-N-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 18.7 | 63.4 | 233.3 | 294.8 | 304.2 |
| 115° | 20.5 | 57.8 | 209.0 | 261.3 | 266.9 |
| 117.5° | 22.4 | 50.4 | 182.9 | 229.5 | 231.4 |
| 120° | 22.4 | 44.8 | 156.8 | 195.9 | 195.9 |
| 122.5° | 22.4 | 37.3 | 130.6 | 162.4 | 160.5 |
| 125° | 22.4 | 29.9 | 106.4 | 134.4 | 132.5 |
| 127.5° | 20.5 | 24.3 | 85.8 | 112.0 | 110.1 |
| 130° | 20.5 | 24.3 | 69.0 | 95.2 | 95.2 |
| 132.5° | 18.7 | 22.4 | 56.0 | 82.1 | 82.1 |
| 135° | 18.7 | 22.4 | 46.7 | 72.8 | 72.8 |
| 137.5° | 18.7 | 24.3 | 39.2 | 63.4 | 63.4 |
| 140° | 18.7 | 22.4 | 33.6 | 56.0 | 56.0 |
| 142.5° | 20.5 | 22.4 | 29.9 | 48.5 | 48.5 |
| 145° | 22.4 | 24.3 | 28.0 | 42.9 | 41.1 |
| 147.5° | 22.4 | 26.1 | 28.0 | 37.3 | 35.5 |
| 150° | 22.4 | 28.0 | 28.0 | 33.6 | 31.7 |
| 152.5° | 22.4 | 28.0 | 28.0 | 31.7 | 29.9 |
| 155° | 22.4 | 28.0 | 29.9 | 31.7 | 28.0 |
| 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° | 14.9 | 76.5 | 283.6 | 367.6 | 380.7 |
| 110° | 16.8 | 69.0 | 259.4 | 328.4 | 341.5 |



(END OF REPORT)