

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: P830438

Luminaire Tested: **OHBL-36SE-NL-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830438
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-36SE-NL-UNV-L950-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

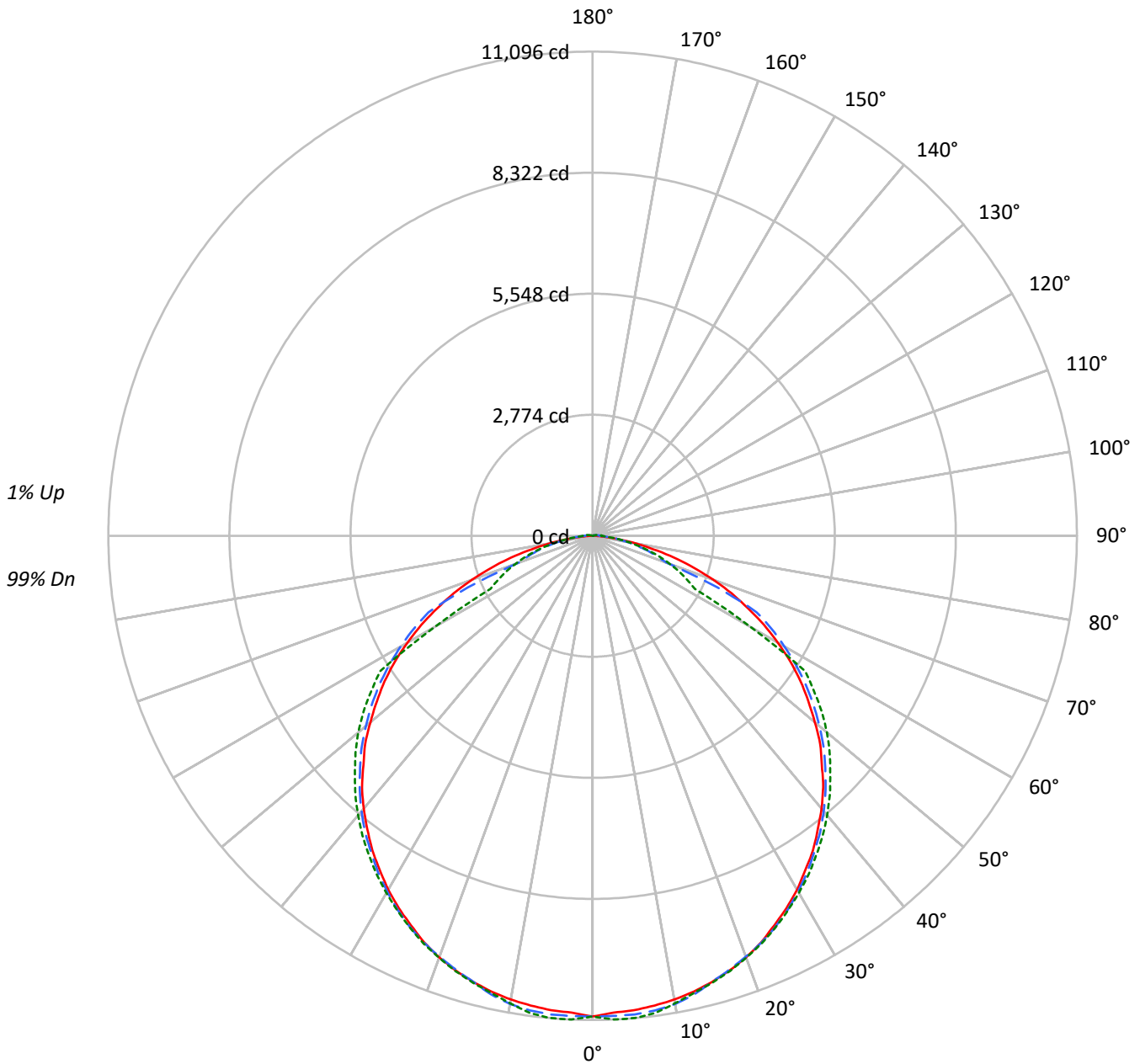
Lumens per Lamp: N/A
Luminaire Lumens: 30927.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): 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: P830438

CATALOG NUMBER: OHBL-36SE-NL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830438

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17421 | 17421 | 17421 |
| 5° | 17324 | 17481 | 17613 |
| 10° | 17329 | 17494 | 17472 |
| 15° | 17326 | 17323 | 17361 |
| 20° | 17303 | 17276 | 17319 |
| 25° | 17184 | 17272 | 17285 |
| 30° | 17105 | 17193 | 17260 |
| 35° | 16994 | 17087 | 17247 |
| 40° | 16847 | 17007 | 17258 |
| 45° | 16604 | 16855 | 17223 |
| 50° | 16354 | 16687 | 17239 |
| 55° | 16041 | 16457 | 17049 |
| 60° | 15504 | 16054 | 13273 |
| 65° | 14668 | 15521 | 8933 |
| 70° | 13567 | 8240 | 8669 |
| 75° | 11834 | 7830 | 8279 |
| 80° | 9100 | 7183 | 7587 |
| 85° | 4593 | 7260 | 7434 |



TEST NUMBER: P830438

CATALOG NUMBER: OHBL-36SE-NL-UNV-L950-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1046.5 | 3.4 |
| 10°-20° | 2996.4 | 9.7 |
| 20°-30° | 4559.3 | 14.7 |
| 30°-40° | 5543.5 | 17.9 |
| 40°-50° | 5828.7 | 18.8 |
| 50°-60° | 5322.3 | 17.2 |
| 60°-70° | 3411.9 | 11.0 |
| 70°-80° | 1611.7 | 5.2 |
| 80°-90° | 446.9 | 1.4 |
| 90°-100° | 118.4 | 0.4 |
| 100°-110° | 32.4 | 0.1 |
| 110°-120° | 9.0 | 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° | 8602.2 | 27.8 |
| 0°-40° | 14145.7 | 45.7 |
| 0°-60° | 25296.8 | 81.8 |
| 0°-90° | 30767.2 | 99.5 |
| 90°-120° | 159.8 | 0.5 |
| 90°-150° | 159.8 | 0.5 |
| 90°-180° | 160.0 | 0.5 |
| 0°-180° | 30927.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 11015 | 11015 | 11015 | 11015 | 11015 | |
| 5° | 10913 | 10955 | 11012 | 11072 | 11095 | ### |
| 15° | 10582 | 10662 | 10580 | 10596 | 10604 | 2988 |
| 25° | 9848 | 9863 | 9898 | 9914 | 9906 | 4544 |
| 35° | 8802 | 8750 | 8850 | 8959 | 8934 | 5501 |
| 45° | 7424 | 7410 | 7536 | 7714 | 7700 | 5738 |
| 55° | 5818 | 5773 | 5969 | 6168 | 6183 | 5189 |
| 65° | 3920 | 3920 | 4148 | 2379 | 2387 | 3886 |
| 75° | 1937 | 1974 | 1281 | 1349 | 1355 | 2042 |
| 85° | 253 | 321 | 400 | 433 | 410 | 374 |
| 90° | 0 | 108 | 178 | 211 | 207 | 11 |
| 95° | 6 | 56 | 128 | 172 | 172 | 3 |
| 105° | 10 | 21 | 31 | 31 | 29 | 10 |
| 115° | 10 | 14 | 19 | 14 | 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 | |



TEST NUMBER: P830438

CATALOG NUMBER: OHBL-36SE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|----------------|----------------|----------------|----------------|----------------|
| 0° | 11015.4 | 11015.4 | 11015.4 | 11015.4 | <i>11015.4</i> |
| 2.5° | <i>10938.0</i> | <i>10974.9</i> | <i>11015.4</i> | <i>11067.6</i> | <i>11096.4</i> |
| 5° | 10912.9 | 10955.4 | 11011.5 | 11071.5 | <i>11094.6</i> |
| 7.5° | 10858.9 | 10918.6 | 10972.8 | 11015.4 | <i>11028.9</i> |
| 10° | 10791.1 | 10862.7 | 10893.6 | 10889.8 | <i>10880.1</i> |
| 12.5° | 10700.3 | 10775.8 | 10766.2 | 10721.5 | <i>10729.3</i> |
| 15° | 10582.4 | 10661.6 | 10580.5 | 10595.9 | <i>10603.7</i> |
| 17.5° | 10443.2 | 10520.6 | 10425.8 | 10456.7 | <i>10458.8</i> |
| 20° | 10281.0 | 10338.9 | 10265.4 | 10290.6 | <i>10290.6</i> |
| 22.5° | 10085.7 | 10126.3 | 10095.4 | 10112.7 | <i>10116.6</i> |
| 25° | 9847.9 | 9863.3 | 9898.1 | 9913.6 | <i>9905.9</i> |
| 27.5° | 9620.0 | 9600.5 | 9668.3 | 9704.9 | <i>9685.5</i> |
| 30° | 9366.6 | 9335.7 | 9414.9 | 9474.9 | <i>9451.8</i> |
| 32.5° | 9076.7 | 9057.4 | 9148.3 | 9219.7 | <i>9206.2</i> |
| 35° | 8802.3 | 8750.1 | 8850.5 | 8958.8 | <i>8933.6</i> |
| 37.5° | 8477.5 | 8446.6 | 8560.6 | 8674.8 | <i>8661.3</i> |
| 40° | 8160.5 | 8108.3 | 8237.9 | 8373.1 | <i>8359.6</i> |
| 42.5° | 7820.4 | 7758.4 | 7899.6 | 8062.1 | <i>8046.5</i> |
| 45° | 7424.0 | 7410.5 | 7536.2 | 7714.0 | <i>7700.5</i> |
| 47.5° | 7072.5 | 7004.7 | 7180.5 | 7352.6 | <i>7368.2</i> |
| 50° | 6647.0 | 6622.1 | 6782.5 | 6991.2 | <i>7006.6</i> |
| 52.5° | 6231.6 | 6214.2 | 6382.2 | 6593.0 | <i>6620.0</i> |
| 55° | 5817.8 | 5773.4 | 5968.6 | 6167.8 | <i>6183.3</i> |
| 57.5° | 5375.4 | 5329.0 | 5528.1 | 5744.6 | <i>5777.3</i> |
| 60° | 4901.7 | 4857.3 | 5075.6 | 5276.8 | <i>4196.3</i> |
| 62.5° | 4428.1 | 4397.2 | 4625.4 | 3276.2 | <i>2640.4</i> |
| 65° | 3919.8 | 3919.8 | 4147.8 | 2379.3 | <i>2387.1</i> |
| 67.5° | 3444.4 | 3413.5 | 3092.7 | 2137.6 | <i>2137.6</i> |
| 70° | 2934.1 | 2945.7 | 1782.0 | 1873.0 | <i>1874.9</i> |
| 72.5° | 2421.9 | 2464.4 | 1538.7 | 1611.9 | <i>1615.8</i> |
| 75° | 1936.7 | 1973.5 | 1281.4 | 1349.2 | <i>1354.9</i> |
| 77.5° | 1422.6 | 1094.0 | 1030.1 | 1082.5 | <i>1084.4</i> |
| 80° | 999.2 | 690.0 | 788.7 | 838.8 | <i>833.1</i> |
| 82.5° | 583.6 | 483.1 | 577.9 | 614.7 | <i>612.7</i> |
| 85° | 253.1 | 320.9 | 400.1 | 433.0 | <i>409.7</i> |
| 87.5° | 81.0 | 199.1 | 249.2 | 268.7 | <i>266.6</i> |
| 90° | 0.0 | 108.3 | 177.8 | 210.6 | <i>206.9</i> |
| 92.5° | 0.0 | 84.9 | 154.7 | 193.4 | <i>195.2</i> |
| 95° | 5.7 | 56.1 | 127.7 | 172.1 | <i>172.1</i> |
| 97.5° | 3.9 | 40.5 | 90.9 | 135.3 | <i>139.2</i> |
| 100° | 3.9 | 32.7 | 60.0 | 96.6 | <i>98.6</i> |
| 102.5° | 9.6 | 27.0 | 36.6 | 61.8 | <i>63.8</i> |
| 105° | 9.6 | 21.3 | 30.9 | 30.9 | <i>29.1</i> |



TEST NUMBER: P830438

CATALOG NUMBER: OHBL-36SE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 11.7 | 15.6 | 21.3 | 15.6 | 1.8 |
| 115° | 9.6 | 13.5 | 19.2 | 13.5 | 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° | 9.6 | 19.2 | 27.0 | 17.4 | 5.7 |
| 110° | 11.7 | 17.4 | 23.1 | 15.6 | 1.8 |



(END OF REPORT)