

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: P830178

Luminaire Tested: **OHBL-30HE-MCL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-MCL-UNV-L750-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

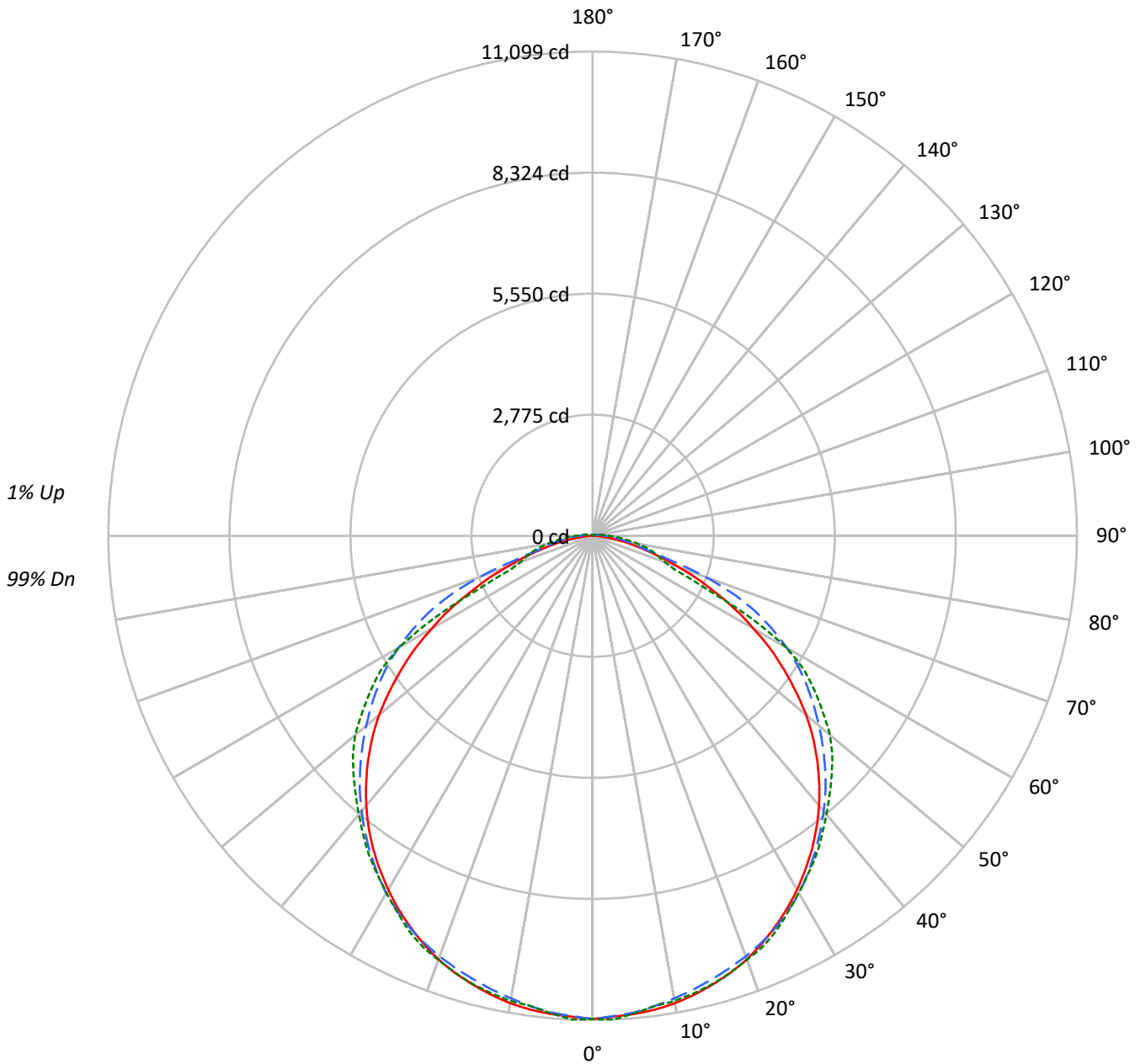
Lumens per Lamp: N/A
Luminaire Lumens: 31306.9 lumens
Efficiency: N/A
Efficacy: 191.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830178

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L750-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830178

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L750-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 | 106 | 106 | 106 | 101 | 101 | 101 | | | | 99 | | | | | | | | | | | | | | | | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 86 | | | | 83 | | | | | | | | | | | | | | | | |
| 2 | 99 | 91 | 84 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | | | | 70 | | | | | | | | | | | | | | | | |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 75 | 69 | 64 | 72 | 67 | 63 | 70 | 65 | 61 | | | | 59 | | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 62 | 57 | 53 | | | | 51 | | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | | | | 44 | | | | | | | | | | | | | | | | |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | 38 | | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | | | | 34 | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | | | | 30 | | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | | | | 27 | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | | | | 24 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17517 | 17517 | 17517 |
| 5° | 17403 | 17263 | 17299 |
| 10° | 17339 | 17001 | 17107 |
| 15° | 17229 | 16806 | 16992 |
| 20° | 17119 | 16682 | 16842 |
| 25° | 16912 | 16558 | 16693 |
| 30° | 16688 | 16363 | 16377 |
| 35° | 16419 | 16053 | 16203 |
| 40° | 16070 | 15732 | 15966 |
| 45° | 15586 | 15361 | 15861 |
| 50° | 14930 | 14939 | 15735 |
| 55° | 13888 | 14524 | 15148 |
| 60° | 12524 | 13916 | 14004 |
| 65° | 10743 | 12788 | 8875 |
| 70° | 8653 | 9983 | 6435 |
| 75° | 6487 | 5926 | 6531 |
| 80° | 4516 | 4927 | 6235 |
| 85° | 2570 | 4515 | 5844 |



TEST NUMBER: P830178

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L750-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1044.4 | 3.3 |
| 10°-20° | 2994.9 | 9.6 |
| 20°-30° | 4574.1 | 14.6 |
| 30°-40° | 5550.0 | 17.7 |
| 40°-50° | 5816.9 | 18.6 |
| 50°-60° | 5271.0 | 16.8 |
| 60°-70° | 3534.0 | 11.3 |
| 70°-80° | 1586.9 | 5.1 |
| 80°-90° | 575.9 | 1.8 |
| 90°-100° | 173.3 | 0.6 |
| 100°-110° | 81.8 | 0.3 |
| 110°-120° | 41.0 | 0.1 |
| 120°-130° | 22.6 | 0.1 |
| 130°-140° | 15.5 | 0.0 |
| 140°-150° | 10.4 | 0.0 |
| 150°-160° | 7.8 | 0.0 |
| 160°-170° | 5.0 | 0.0 |
| 170°-180° | 1.6 | 0.0 |
| 0°-30° | 8613.4 | 27.5 |
| 0°-40° | 14163.3 | 45.2 |
| 0°-60° | 25251.2 | 80.7 |
| 0°-90° | 30947.9 | 98.9 |
| 90°-120° | 296.1 | 0.9 |
| 90°-150° | 344.7 | 1.1 |
| 90°-180° | 359.0 | 1.1 |
| 0°-180° | 31306.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 11076 | 11076 | 11076 | 11076 | 11076 | |
| 5° | 11004 | 11043 | 10966 | 11000 | 10985 | ### |
| 15° | 10647 | 10606 | 10530 | 10623 | 10636 | 3006 |
| 25° | 9891 | 9848 | 9917 | 10008 | 9979 | 4559 |
| 35° | 8767 | 8788 | 8878 | 8972 | 8937 | 5480 |
| 45° | 7276 | 7394 | 7532 | 7724 | 7748 | 5605 |
| 55° | 5354 | 5612 | 5995 | 6235 | 6220 | 4779 |
| 65° | 3142 | 3634 | 4126 | 3482 | 2843 | 3131 |
| 75° | 1236 | 1794 | 1320 | 1350 | 1438 | 1351 |
| 85° | 213 | 408 | 524 | 633 | 663 | 260 |
| 90° | 2 | 136 | 271 | 340 | 356 | 13 |
| 95° | 2 | 85 | 186 | 226 | 232 | 2 |
| 105° | 6 | 37 | 91 | 110 | 115 | 7 |
| 115° | 13 | 19 | 46 | 59 | 62 | 12 |
| 125° | 11 | 13 | 29 | 34 | 35 | 11 |
| 135° | 14 | 16 | 18 | 26 | 27 | 11 |
| 145° | 14 | 16 | 16 | 18 | 19 | 10 |
| 155° | 16 | 18 | 18 | 18 | 16 | 7 |
| 165° | 18 | 18 | 18 | 18 | 18 | 5 |
| 175° | 18 | 18 | 16 | 14 | 14 | 2 |
| 180° | 16 | 16 | 16 | 16 | 16 | |



TEST NUMBER: P830178

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|----------------|----------------|----------------|----------------|----------------|
| 0° | 11076.4 | 11076.4 | 11076.4 | 11076.4 | <i>11076.4</i> |
| 2.5° | <i>11031.6</i> | <i>11078.0</i> | <i>11020.4</i> | <i>11082.8</i> | <i>11098.9</i> |
| 5° | 11004.4 | 11042.8 | 10965.9 | 10999.6 | <i>10985.2</i> |
| 7.5° | 10954.7 | 10967.5 | 10876.2 | 10903.5 | <i>10874.6</i> |
| 10° | 10881.1 | 10874.6 | 10767.3 | 10820.2 | <i>10826.6</i> |
| 12.5° | 10772.1 | 10752.9 | 10656.8 | 10736.9 | <i>10738.5</i> |
| 15° | 10647.2 | 10605.6 | 10530.3 | 10623.2 | <i>10636.0</i> |
| 17.5° | 10503.1 | 10448.6 | 10399.0 | 10519.1 | <i>10499.9</i> |
| 20° | 10334.9 | 10270.9 | 10261.2 | 10392.6 | <i>10344.5</i> |
| 22.5° | 10126.7 | 10077.1 | 10099.5 | 10224.4 | <i>10194.0</i> |
| 25° | 9891.3 | 9848.0 | 9916.9 | 10008.2 | <i>9979.4</i> |
| 27.5° | 9643.0 | 9617.4 | 9695.9 | 9766.4 | <i>9710.3</i> |
| 30° | 9370.8 | 9356.4 | 9460.5 | 9518.1 | <i>9447.6</i> |
| 32.5° | 9074.5 | 9079.3 | 9178.6 | 9257.1 | <i>9191.4</i> |
| 35° | 8767.0 | 8787.8 | 8877.5 | 8972.0 | <i>8936.7</i> |
| 37.5° | 8429.1 | 8475.5 | 8565.2 | 8672.5 | <i>8635.7</i> |
| 40° | 8071.9 | 8139.2 | 8238.5 | 8368.2 | <i>8334.6</i> |
| 42.5° | 7685.9 | 7770.8 | 7898.9 | 8043.1 | <i>8039.9</i> |
| 45° | 7275.9 | 7394.4 | 7532.2 | 7724.4 | <i>7748.4</i> |
| 47.5° | 6849.9 | 6982.8 | 7157.4 | 7413.7 | <i>7450.5</i> |
| 50° | 6387.1 | 6553.6 | 6771.4 | 7078.9 | <i>7101.4</i> |
| 52.5° | 5871.3 | 6098.8 | 6387.1 | 6681.7 | <i>6654.5</i> |
| 55° | 5354.0 | 5611.9 | 5994.7 | 6234.9 | <i>6220.5</i> |
| 57.5° | 4838.3 | 5128.2 | 5592.7 | 5764.0 | <i>5762.4</i> |
| 60° | 4261.8 | 4628.5 | 5136.2 | 5266.0 | <i>5137.8</i> |
| 62.5° | 3728.4 | 4122.4 | 4649.4 | 4554.9 | <i>4116.0</i> |
| 65° | 3142.3 | 3634.0 | 4125.6 | 3481.8 | <i>2842.8</i> |
| 67.5° | 2621.8 | 3134.3 | 3504.2 | 2384.7 | <i>2042.0</i> |
| 70° | 2098.1 | 2663.4 | 2732.3 | 1769.7 | <i>1745.7</i> |
| 72.5° | 1633.6 | 2235.8 | 1885.0 | 1515.1 | <i>1592.0</i> |
| 75° | 1236.4 | 1793.8 | 1319.7 | 1350.1 | <i>1438.2</i> |
| 77.5° | 901.7 | 1377.3 | 1026.6 | 1183.6 | <i>1255.6</i> |
| 80° | 619.8 | 975.4 | 837.6 | 994.6 | <i>1044.2</i> |
| 82.5° | 389.2 | 643.8 | 671.1 | 800.8 | <i>852.0</i> |
| 85° | 213.0 | 408.4 | 523.7 | 632.6 | <i>663.0</i> |
| 87.5° | 88.1 | 246.6 | 400.4 | 488.5 | <i>514.1</i> |
| 90° | 1.6 | 136.1 | 270.7 | 339.5 | <i>355.5</i> |
| 92.5° | 1.6 | 104.1 | 221.0 | 273.9 | <i>285.1</i> |
| 95° | 1.6 | 84.9 | 185.8 | 225.8 | <i>232.2</i> |
| 97.5° | 3.2 | 67.3 | 155.4 | 187.4 | <i>193.8</i> |
| 100° | 4.8 | 56.1 | 129.7 | 157.0 | <i>161.8</i> |
| 102.5° | 6.4 | 44.8 | 108.9 | 131.3 | <i>136.1</i> |
| 105° | 6.4 | 36.8 | 91.3 | 110.5 | <i>115.3</i> |



TEST NUMBER: P830178

CATALOG NUMBER: OHBL-30HE-MCL-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 11.2 | 22.4 | 54.5 | 68.9 | 72.1 |
| 115° | 12.8 | 19.2 | 46.4 | 59.3 | 62.5 |
| 117.5° | 12.8 | 16.0 | 40.0 | 49.6 | 52.9 |
| 120° | 12.8 | 14.4 | 35.2 | 43.2 | 44.8 |
| 122.5° | 12.8 | 12.8 | 30.4 | 38.4 | 40.0 |
| 125° | 11.2 | 12.8 | 28.8 | 33.6 | 35.2 |
| 127.5° | 12.8 | 12.8 | 25.6 | 30.4 | 32.0 |
| 130° | 12.8 | 14.4 | 22.4 | 28.8 | 28.8 |
| 132.5° | 14.4 | 16.0 | 20.8 | 27.2 | 27.2 |
| 135° | 14.4 | 16.0 | 17.6 | 25.6 | 27.2 |
| 137.5° | 16.0 | 16.0 | 16.0 | 24.0 | 25.6 |
| 140° | 16.0 | 16.0 | 14.4 | 20.8 | 22.4 |
| 142.5° | 14.4 | 16.0 | 14.4 | 19.2 | 20.8 |
| 145° | 14.4 | 16.0 | 16.0 | 17.6 | 19.2 |
| 147.5° | 16.0 | 16.0 | 16.0 | 16.0 | 17.6 |
| 150° | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| 152.5° | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| 155° | 16.0 | 17.6 | 17.6 | 17.6 | 16.0 |
| 157.5° | 16.0 | 17.6 | 17.6 | 17.6 | 17.6 |
| 160° | 16.0 | 17.6 | 17.6 | 17.6 | 17.6 |
| 162.5° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 165° | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 |
| 167.5° | 17.6 | 19.2 | 17.6 | 17.6 | 17.6 |
| 170° | 17.6 | 17.6 | 17.6 | 16.0 | 16.0 |
| 172.5° | 17.6 | 17.6 | 17.6 | 16.0 | 16.0 |
| 175° | 17.6 | 17.6 | 16.0 | 14.4 | 14.4 |
| 177.5° | 19.2 | 17.6 | 16.0 | 14.4 | 12.8 |
| 180° | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|-----|------|------|------|------|
| 107.5° | 8.0 | 30.4 | 78.5 | 94.5 | 97.7 |
| 110° | 9.6 | 25.6 | 65.7 | 80.1 | 83.3 |



(END OF REPORT)