

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: P830774

Luminaire Tested: **OHBL-72SE-MFL-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-MFL-UNV-L950-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

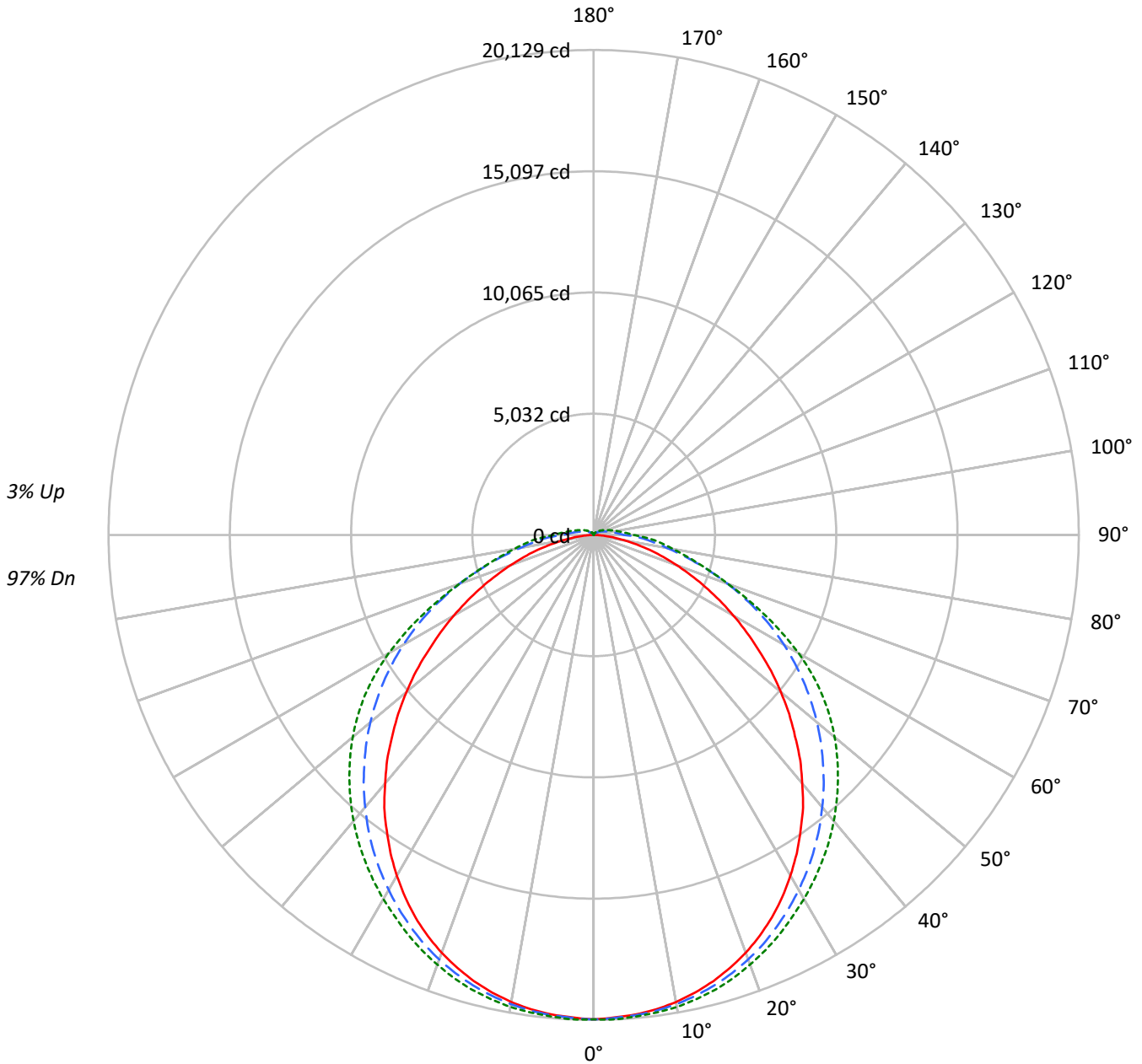
Lumens per Lamp: N/A
Luminaire Lumens: 60185.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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: P830774

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830774

CATALOG NUMBER: OHBL-72SE-MFL-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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 97 | | | | | | | | | | | | | | | | | |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 91 | 88 | 90 | 88 | 85 | 86 | 84 | 82 | 82 | 82 | 80 | | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 74 | 71 | 75 | 72 | 68 | 68 | 68 | 66 | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 58 | 58 | 56 | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 50 | 50 | 47 | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 72 | 60 | 52 | 46 | 58 | 50 | 45 | 56 | 49 | 44 | 53 | 48 | 43 | 43 | 43 | 41 | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 54 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 48 | 43 | 38 | 38 | 38 | 36 | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 34 | 44 | 38 | 34 | 34 | 34 | 32 | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 30 | 30 | 28 | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 37 | 32 | 27 | 27 | 27 | 25 | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 25 | 25 | 23 | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 31803 | 31803 | 31803 |
| 5° | 31600 | 31502 | 31598 |
| 10° | 31378 | 31224 | 31433 |
| 15° | 31027 | 30892 | 31216 |
| 20° | 30562 | 30486 | 30898 |
| 25° | 29941 | 29978 | 30576 |
| 30° | 29080 | 29428 | 30252 |
| 35° | 28039 | 28843 | 29973 |
| 40° | 26788 | 28167 | 29698 |
| 45° | 25313 | 27432 | 29347 |
| 50° | 23699 | 26689 | 28921 |
| 55° | 21715 | 25779 | 28200 |
| 60° | 19683 | 24709 | 26763 |
| 65° | 17466 | 23340 | 24400 |
| 70° | 15061 | 21596 | 21842 |
| 75° | 12628 | 19581 | 20114 |
| 80° | 9574 | 18124 | 19954 |
| 85° | 6057 | 18838 | 22298 |



TEST NUMBER: P830774

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L950-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1905.5 | 3.2 |
| 10°-20° | 5466.6 | 9.1 |
| 20°-30° | 8267.3 | 13.7 |
| 30°-40° | 9925.0 | 16.5 |
| 40°-50° | 10250.9 | 17.0 |
| 50°-60° | 9222.6 | 15.3 |
| 60°-70° | 6947.2 | 11.5 |
| 70°-80° | 4195.0 | 7.0 |
| 80°-90° | 2051.7 | 3.4 |
| 90°-100° | 863.6 | 1.4 |
| 100°-110° | 493.0 | 0.8 |
| 110°-120° | 289.4 | 0.5 |
| 120°-130° | 163.7 | 0.3 |
| 130°-140° | 86.2 | 0.1 |
| 140°-150° | 41.9 | 0.1 |
| 150°-160° | 15.6 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 15639.4 | 26.0 |
| 0°-40° | 25564.4 | 42.5 |
| 0°-60° | 45037.9 | 74.8 |
| 0°-90° | 58231.7 | 96.8 |
| 90°-120° | 1646.0 | 2.7 |
| 90°-150° | 1937.7 | 3.2 |
| 90°-180° | 1953.0 | 3.2 |
| 0°-180° | 60185.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 20110 | 20110 | 20110 | 20110 | 20110 | |
| 5° | 19982 | 20036 | 20011 | 20090 | 20065 | ### |
| 15° | 19175 | 19268 | 19357 | 19519 | 19539 | 5406 |
| 25° | 17511 | 17703 | 17954 | 18235 | 18279 | 8055 |
| 35° | 14972 | 15321 | 15951 | 16433 | 16532 | 9359 |
| 45° | 11817 | 12412 | 13451 | 14184 | 14337 | 9123 |
| 55° | 8372 | 9238 | 10640 | 11443 | 11581 | 7506 |
| 65° | 5109 | 6152 | 7530 | 7904 | 7816 | 5075 |
| 75° | 2407 | 3455 | 4361 | 4474 | 4430 | 2567 |
| 85° | 502 | 1324 | 2185 | 2485 | 2530 | 580 |
| 90° | 0 | 517 | 1250 | 1575 | 1639 | 32 |
| 95° | 25 | 349 | 935 | 1191 | 1235 | 21 |
| 105° | 34 | 202 | 541 | 709 | 738 | 34 |
| 115° | 39 | 113 | 335 | 448 | 468 | 40 |
| 125° | 39 | 54 | 202 | 290 | 305 | 35 |
| 135° | 34 | 44 | 103 | 177 | 197 | 27 |
| 145° | 49 | 44 | 49 | 89 | 103 | 29 |
| 155° | 49 | 54 | 49 | 44 | 49 | 15 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P830774

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 20109.7 | 20109.7 | 20109.7 | 20109.7 | 20109.7 |
| 2.5° | 20050.7 | 20099.9 | 20070.4 | 20134.3 | 20129.4 |
| 5° | 19981.8 | 20035.9 | 20011.3 | 20090.0 | 20065.4 |
| 7.5° | 19863.6 | 19922.7 | 19917.8 | 20006.4 | 19996.5 |
| 10° | 19691.4 | 19755.4 | 19775.1 | 19893.2 | 19893.2 |
| 12.5° | 19455.1 | 19538.8 | 19588.0 | 19730.8 | 19735.7 |
| 15° | 19174.6 | 19268.1 | 19356.7 | 19519.1 | 19538.8 |
| 17.5° | 18835.0 | 18953.1 | 19076.2 | 19263.2 | 19287.8 |
| 20° | 18451.1 | 18584.0 | 18751.4 | 18948.2 | 18977.8 |
| 22.5° | 18008.2 | 18165.7 | 18382.2 | 18613.6 | 18648.0 |
| 25° | 17511.1 | 17703.1 | 17954.1 | 18234.6 | 18278.9 |
| 27.5° | 16945.1 | 17166.6 | 17506.2 | 17821.2 | 17860.5 |
| 30° | 16329.9 | 16590.8 | 17014.0 | 17388.1 | 17452.1 |
| 32.5° | 15680.3 | 15980.5 | 16502.2 | 16920.5 | 17009.1 |
| 35° | 14971.6 | 15321.0 | 15951.0 | 16433.3 | 16531.7 |
| 37.5° | 14272.7 | 14656.6 | 15370.2 | 15921.4 | 16039.5 |
| 40° | 13455.7 | 13933.1 | 14750.1 | 15360.4 | 15503.1 |
| 42.5° | 12687.9 | 13204.7 | 14130.0 | 14794.4 | 14932.2 |
| 45° | 11816.8 | 12412.3 | 13450.8 | 14184.1 | 14336.7 |
| 47.5° | 10999.8 | 11644.5 | 12796.2 | 13554.1 | 13711.6 |
| 50° | 10138.5 | 10847.2 | 12097.3 | 12889.7 | 13052.1 |
| 52.5° | 9277.2 | 10040.1 | 11373.9 | 12195.8 | 12348.3 |
| 55° | 8371.7 | 9237.9 | 10640.5 | 11442.8 | 11580.6 |
| 57.5° | 7530.1 | 8445.5 | 9887.5 | 10650.4 | 10734.0 |
| 60° | 6698.3 | 7648.2 | 9119.8 | 9789.1 | 9818.6 |
| 62.5° | 5886.3 | 6885.3 | 8332.3 | 8863.8 | 8824.5 |
| 65° | 5108.6 | 6152.0 | 7530.1 | 7904.1 | 7815.5 |
| 67.5° | 4360.6 | 5438.4 | 6708.2 | 6949.3 | 6831.2 |
| 70° | 3651.8 | 4744.4 | 5910.9 | 6033.9 | 5925.6 |
| 72.5° | 3026.8 | 4084.9 | 5103.7 | 5207.1 | 5128.3 |
| 75° | 2406.7 | 3455.0 | 4360.6 | 4473.7 | 4429.5 |
| 77.5° | 1825.9 | 2844.7 | 3676.4 | 3824.1 | 3833.9 |
| 80° | 1314.1 | 2288.6 | 3080.9 | 3312.2 | 3341.8 |
| 82.5° | 866.2 | 1776.7 | 2583.8 | 2879.1 | 2923.4 |
| 85° | 502.0 | 1323.9 | 2185.2 | 2485.4 | 2529.7 |
| 87.5° | 216.6 | 954.8 | 1757.0 | 2027.7 | 2081.8 |
| 90° | 0.0 | 516.8 | 1250.1 | 1574.9 | 1638.9 |
| 92.5° | 14.8 | 428.2 | 1072.9 | 1368.2 | 1422.3 |
| 95° | 24.6 | 349.4 | 935.1 | 1191.0 | 1235.3 |
| 97.5° | 29.5 | 295.3 | 812.1 | 1038.5 | 1082.8 |
| 100° | 29.5 | 255.9 | 703.8 | 910.5 | 949.9 |
| 102.5° | 29.5 | 226.4 | 615.2 | 797.3 | 831.8 |
| 105° | 34.5 | 201.8 | 541.4 | 708.7 | 738.2 |



TEST NUMBER: P830774

CATALOG NUMBER: OHBL-72SE-MFL-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 39.4 | 132.9 | 374.0 | 502.0 | 521.7 |
| 115° | 39.4 | 113.2 | 334.7 | 447.9 | 467.6 |
| 117.5° | 44.3 | 98.4 | 295.3 | 403.6 | 418.3 |
| 120° | 44.3 | 83.7 | 260.8 | 359.3 | 379.0 |
| 122.5° | 44.3 | 68.9 | 231.3 | 324.8 | 339.6 |
| 125° | 39.4 | 54.1 | 201.8 | 290.4 | 305.1 |
| 127.5° | 34.5 | 44.3 | 172.3 | 260.8 | 275.6 |
| 130° | 34.5 | 39.4 | 147.6 | 231.3 | 246.1 |
| 132.5° | 34.5 | 44.3 | 123.0 | 201.8 | 221.5 |
| 135° | 34.5 | 44.3 | 103.4 | 177.2 | 196.9 |
| 137.5° | 34.5 | 44.3 | 83.7 | 152.6 | 172.3 |
| 140° | 39.4 | 44.3 | 68.9 | 128.0 | 147.6 |
| 142.5° | 44.3 | 44.3 | 54.1 | 108.3 | 123.0 |
| 145° | 49.2 | 44.3 | 49.2 | 88.6 | 103.4 |
| 147.5° | 49.2 | 49.2 | 49.2 | 68.9 | 83.7 |
| 150° | 49.2 | 54.1 | 49.2 | 54.1 | 68.9 |
| 152.5° | 49.2 | 54.1 | 49.2 | 44.3 | 54.1 |
| 155° | 49.2 | 54.1 | 49.2 | 44.3 | 49.2 |
| 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° | 34.5 | 177.2 | 477.4 | 630.0 | 654.6 |
| 110° | 34.5 | 157.5 | 423.3 | 561.1 | 585.7 |



(END OF REPORT)