

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: P829705

Luminaire Tested: **OHBL-100SE-N-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829705
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-100SE-N-UNV-L940-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

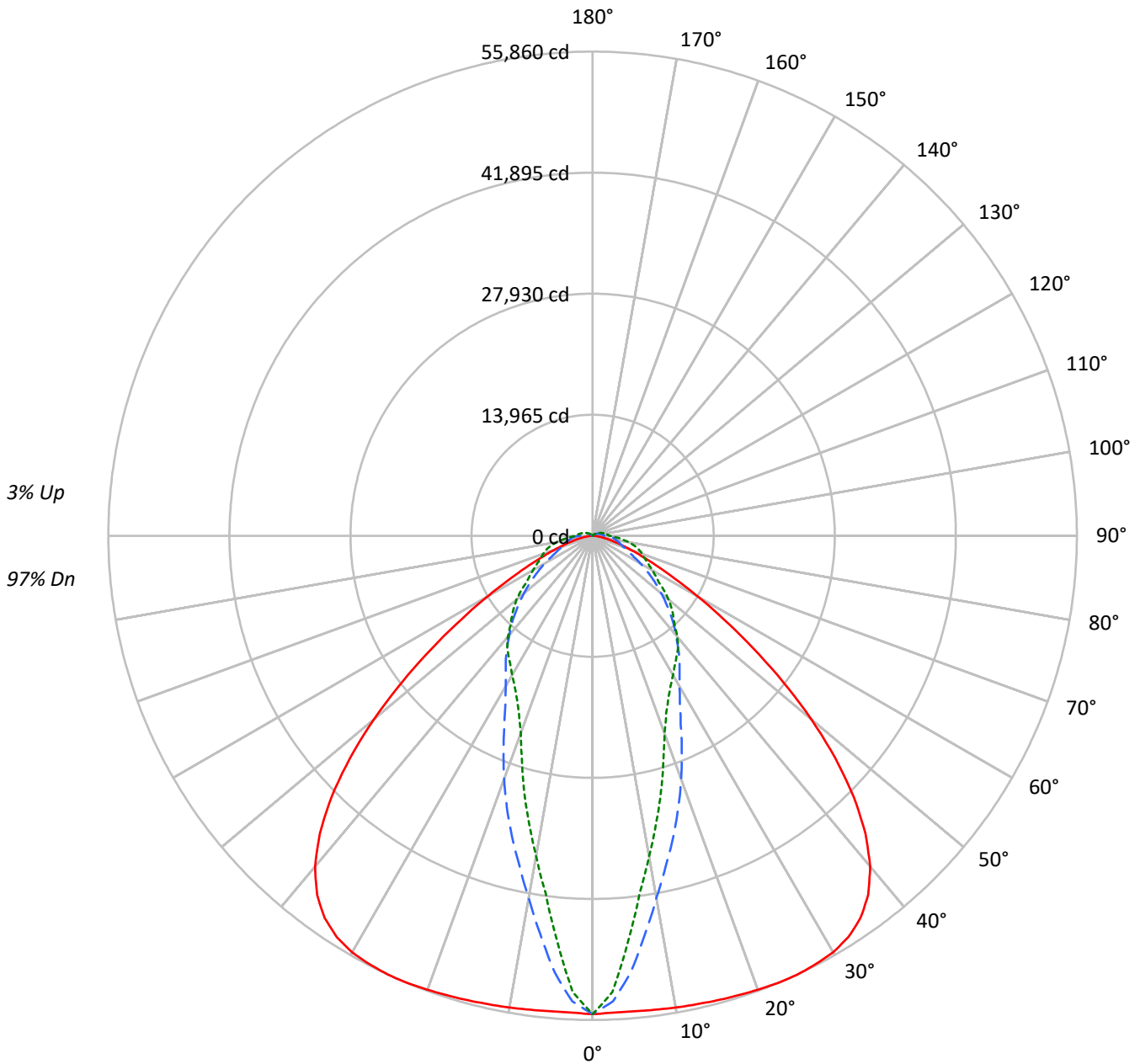
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81443.0 lumens
Efficiency: N/A
Efficacy: 138.0 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): 590.1
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: P829705
CATALOG NUMBER: OHBL-100SE-N-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829705

CATALOG NUMBER: OHBL-100SE-N-UNV-L940-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 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 92 | 90 | 88 | 88 | 86 | 85 | 85 | 85 | 82 | | | | | | | | | | | | | | | | | |
| 2 | 100 | 93 | 86 | 81 | 97 | 90 | 85 | 80 | 86 | 82 | 78 | 83 | 79 | 75 | 79 | 76 | 73 | 73 | 73 | 71 | | | | | | | | | | | | | | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 74 | 70 | 65 | 72 | 67 | 64 | 64 | 64 | 62 | | | | | | | | | | | | | | | | | |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 57 | 65 | 60 | 56 | 56 | 56 | 54 | | | | | | | | | | | | | | | | | |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 50 | 50 | 48 | | | | | | | | | | | | | | | | | |
| 6 | 74 | 62 | 53 | 47 | 72 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 45 | 45 | 43 | | | | | | | | | | | | | | | | | |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 41 | 41 | 41 | 39 | | | | | | | | | | | | | | | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 37 | 37 | 35 | | | | | | | | | | | | | | | | | |
| 9 | 61 | 48 | 41 | 35 | 59 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 38 | 34 | 34 | 34 | 32 | | | | | | | | | | | | | | | | | |
| 10 | 57 | 45 | 37 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 32 | 32 | 32 | 30 | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|-------|-------|
| 0° | 87269 | 87269 | 87269 |
| 5° | 87091 | 79510 | 73938 |
| 10° | 88074 | 67004 | 59325 |
| 15° | 89794 | 57331 | 48724 |
| 20° | 92316 | 48498 | 39435 |
| 25° | 95509 | 40163 | 34578 |
| 30° | 98811 | 34618 | 32146 |
| 35° | 100867 | 31567 | 30651 |
| 40° | 99141 | 28532 | 29105 |
| 45° | 91205 | 25802 | 26973 |
| 50° | 76949 | 22814 | 25346 |
| 55° | 58470 | 20002 | 22586 |
| 60° | 40975 | 17175 | 21659 |
| 65° | 27562 | 14814 | 21250 |
| 70° | 18823 | 13931 | 22359 |
| 75° | 13062 | 14409 | 23991 |
| 80° | 8992 | 16034 | 24869 |
| 85° | 5259 | 20238 | 26433 |



TEST NUMBER: P829705

CATALOG NUMBER: OHBL-100SE-N-UNV-L940-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4645.2 | 5.7 |
| 10°-20° | 10927.5 | 13.4 |
| 20°-30° | 13697.5 | 16.8 |
| 30°-40° | 14534.6 | 17.8 |
| 40°-50° | 13141.6 | 16.1 |
| 50°-60° | 9528.5 | 11.7 |
| 60°-70° | 5979.6 | 7.3 |
| 70°-80° | 3957.1 | 4.9 |
| 80°-90° | 2279.7 | 2.8 |
| 90°-100° | 1104.4 | 1.4 |
| 100°-110° | 762.3 | 0.9 |
| 110°-120° | 470.4 | 0.6 |
| 120°-130° | 227.8 | 0.3 |
| 130°-140° | 104.8 | 0.1 |
| 140°-150° | 57.2 | 0.1 |
| 150°-160° | 24.9 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 29270.1 | 35.9 |
| 0°-40° | 43804.7 | 53.8 |
| 0°-60° | 66474.7 | 81.6 |
| 0°-90° | 78691.1 | 96.6 |
| 90°-120° | 2337.2 | 2.9 |
| 90°-150° | 2727.0 | 3.3 |
| 90°-180° | 2752.0 | 3.4 |
| 0°-180° | 81443.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 55182 | 55182 | 55182 | 55182 | 55182 | |
| 5° | 55072 | 53659 | 50508 | 48165 | 46952 | ### |
| 15° | 55492 | 45230 | 35923 | 31948 | 30498 | 15737 |
| 25° | 55860 | 34973 | 24054 | 21349 | 20672 | 25806 |
| 35° | 53858 | 23250 | 17457 | 16911 | 16906 | 33481 |
| 45° | 42577 | 14726 | 12652 | 12956 | 13177 | 32435 |
| 55° | 22541 | 9128 | 8256 | 8954 | 9275 | 20367 |
| 65° | 8062 | 5294 | 4779 | 6124 | 6806 | 8389 |
| 75° | 2489 | 2852 | 3209 | 4984 | 5283 | 2775 |
| 85° | 436 | 1182 | 2348 | 3267 | 2999 | 523 |
| 90° | 0 | 494 | 1360 | 1917 | 1933 | 28 |
| 95° | 21 | 347 | 1197 | 1628 | 1702 | 19 |
| 105° | 42 | 231 | 872 | 1155 | 1187 | 42 |
| 115° | 58 | 163 | 588 | 735 | 751 | 57 |
| 125° | 63 | 84 | 299 | 378 | 373 | 55 |
| 135° | 52 | 63 | 131 | 205 | 205 | 41 |
| 145° | 63 | 68 | 79 | 121 | 116 | 38 |
| 155° | 63 | 79 | 84 | 89 | 79 | 19 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P829705

CATALOG NUMBER: OHBL-100SE-N-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 55182.0 | 55182.0 | 55182.0 | 55182.0 | 55182.0 |
| 2.5° | 55066.4 | 54751.3 | 53769.2 | 53170.5 | 52666.3 |
| 5° | 55071.7 | 53658.9 | 50507.8 | 48165.4 | 46952.2 |
| 7.5° | 55150.5 | 52009.8 | 46332.5 | 42913.5 | 41579.5 |
| 10° | 55271.3 | 49966.8 | 42435.6 | 38790.7 | 37546.0 |
| 12.5° | 55360.5 | 47666.5 | 39006.0 | 35261.4 | 33895.9 |
| 15° | 55491.8 | 45229.6 | 35923.2 | 31947.5 | 30497.9 |
| 17.5° | 55612.6 | 42934.5 | 32877.1 | 28722.8 | 27110.4 |
| 20° | 55733.4 | 40460.8 | 29830.9 | 25550.6 | 24221.9 |
| 22.5° | 55849.0 | 37850.6 | 26858.3 | 23087.5 | 22178.9 |
| 25° | 55859.5 | 34972.6 | 24053.8 | 21349.1 | 20671.6 |
| 27.5° | 55722.9 | 31989.5 | 21779.7 | 19894.3 | 19474.1 |
| 30° | 55486.6 | 29095.7 | 20015.1 | 18843.9 | 18544.5 |
| 32.5° | 54898.4 | 26144.1 | 18649.6 | 17830.3 | 17657.0 |
| 35° | 53858.5 | 23250.3 | 17457.4 | 16911.2 | 16905.9 |
| 37.5° | 52219.9 | 20682.1 | 16165.4 | 16070.9 | 16186.4 |
| 40° | 49798.8 | 18434.3 | 14941.7 | 15193.8 | 15193.8 |
| 42.5° | 46568.8 | 16480.5 | 13833.6 | 14090.9 | 14022.6 |
| 45° | 42577.4 | 14726.4 | 12651.9 | 12956.5 | 13177.1 |
| 47.5° | 37950.4 | 13182.3 | 11443.9 | 12032.2 | 12336.8 |
| 50° | 32919.1 | 11711.8 | 10341.0 | 11092.1 | 11438.7 |
| 52.5° | 27646.1 | 10351.5 | 9264.4 | 10125.7 | 10404.1 |
| 55° | 22541.3 | 9127.8 | 8256.0 | 8954.5 | 9274.9 |
| 57.5° | 17919.6 | 7961.9 | 7268.7 | 7930.4 | 8592.1 |
| 60° | 13943.9 | 6958.8 | 6339.1 | 7284.4 | 7946.2 |
| 62.5° | 10650.9 | 6066.0 | 5467.3 | 6680.4 | 7342.2 |
| 65° | 8061.7 | 5293.9 | 4779.3 | 6123.7 | 6806.5 |
| 67.5° | 6076.5 | 4626.9 | 4243.6 | 5719.3 | 6386.3 |
| 70° | 4563.9 | 3981.0 | 3812.9 | 5467.3 | 6066.0 |
| 72.5° | 3371.7 | 3387.5 | 3471.5 | 5246.7 | 5703.6 |
| 75° | 2489.4 | 2851.8 | 3208.9 | 4984.1 | 5283.4 |
| 77.5° | 1780.4 | 2363.4 | 2972.6 | 4669.0 | 4774.0 |
| 80° | 1234.2 | 1927.5 | 2725.7 | 4254.1 | 4164.8 |
| 82.5° | 772.0 | 1544.1 | 2505.2 | 3797.1 | 3550.3 |
| 85° | 435.9 | 1181.7 | 2347.6 | 3266.7 | 2998.8 |
| 87.5° | 194.3 | 882.3 | 2053.5 | 2547.2 | 2379.1 |
| 90° | 0.0 | 493.7 | 1360.2 | 1917.0 | 1932.7 |
| 92.5° | 10.5 | 409.7 | 1255.2 | 1754.1 | 1806.7 |
| 95° | 21.0 | 346.6 | 1197.4 | 1628.1 | 1701.6 |
| 97.5° | 26.3 | 304.6 | 1123.9 | 1512.6 | 1575.6 |
| 100° | 31.5 | 273.1 | 1034.6 | 1391.8 | 1444.3 |
| 102.5° | 36.8 | 252.1 | 950.6 | 1265.7 | 1307.7 |
| 105° | 42.0 | 231.1 | 871.8 | 1155.4 | 1186.9 |



TEST NUMBER: P829705

CATALOG NUMBER: OHBL-100SE-N-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 52.5 | 178.6 | 656.5 | 829.8 | 856.1 |
| 115° | 57.8 | 162.8 | 588.2 | 735.3 | 751.0 |
| 117.5° | 63.0 | 141.8 | 514.7 | 646.0 | 651.2 |
| 120° | 63.0 | 126.0 | 441.2 | 551.5 | 551.5 |
| 122.5° | 63.0 | 105.0 | 367.6 | 456.9 | 451.7 |
| 125° | 63.0 | 84.0 | 299.4 | 378.1 | 372.9 |
| 127.5° | 57.8 | 68.3 | 241.6 | 315.1 | 309.9 |
| 130° | 57.8 | 68.3 | 194.3 | 267.8 | 267.8 |
| 132.5° | 52.5 | 63.0 | 157.6 | 231.1 | 231.1 |
| 135° | 52.5 | 63.0 | 131.3 | 204.8 | 204.8 |
| 137.5° | 52.5 | 68.3 | 110.3 | 178.6 | 178.6 |
| 140° | 52.5 | 63.0 | 94.5 | 157.6 | 157.6 |
| 142.5° | 57.8 | 63.0 | 84.0 | 136.6 | 136.6 |
| 145° | 63.0 | 68.3 | 78.8 | 120.8 | 115.5 |
| 147.5° | 63.0 | 73.5 | 78.8 | 105.0 | 99.8 |
| 150° | 63.0 | 78.8 | 78.8 | 94.5 | 89.3 |
| 152.5° | 63.0 | 78.8 | 78.8 | 89.3 | 84.0 |
| 155° | 63.0 | 78.8 | 84.0 | 89.3 | 78.8 |
| 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° | 42.0 | 215.3 | 798.3 | 1034.6 | 1071.4 |
| 110° | 47.3 | 194.3 | 730.0 | 924.3 | 961.1 |



(END OF REPORT)