

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: P829691

Luminaire Tested: **OHBL-100SE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829691
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-100SE-MFL-UNV-L930-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

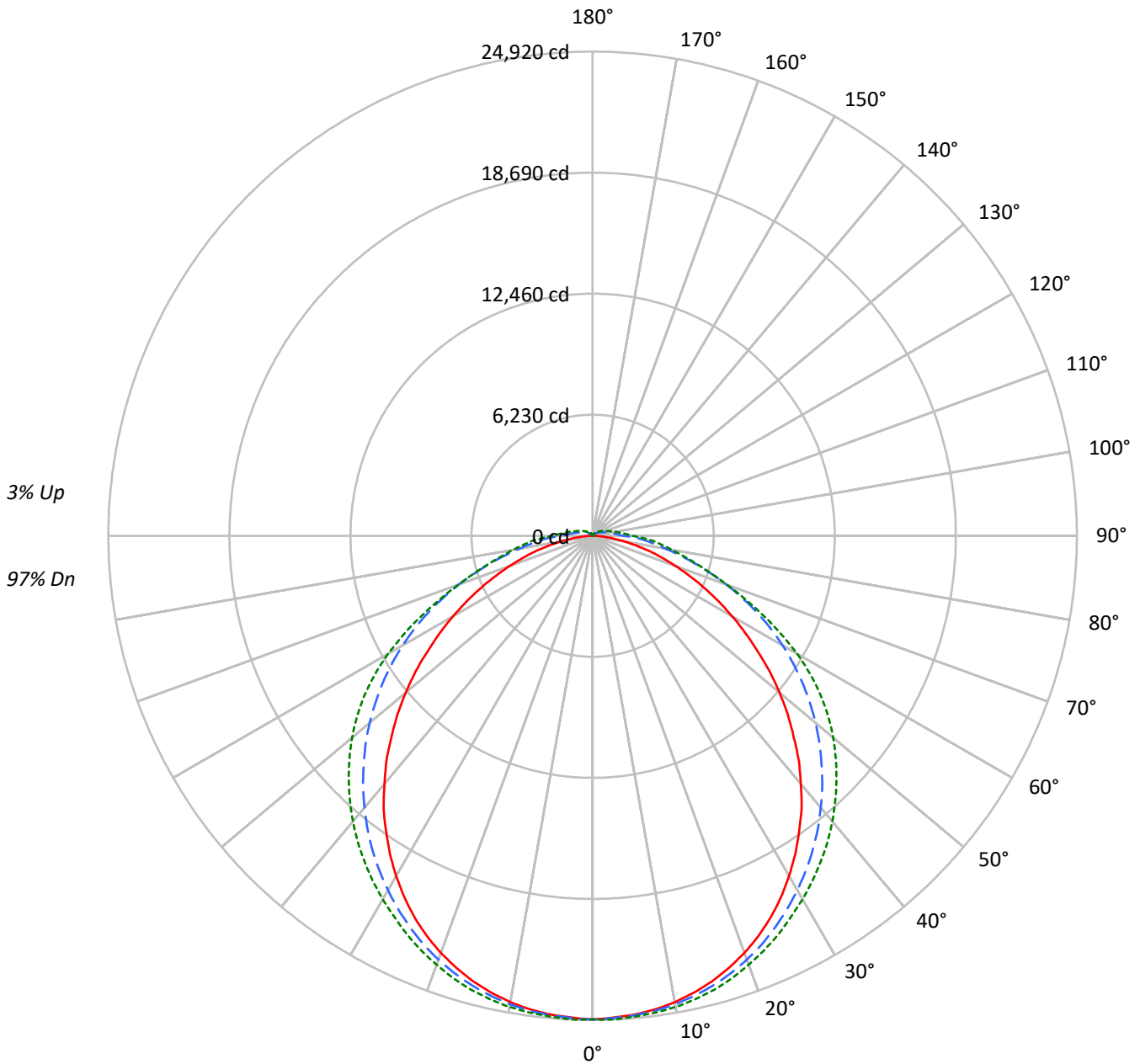
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74508.0 lumens
Efficiency: N/A
Efficacy: 126.3 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): 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: P829691
CATALOG NUMBER: OHBL-100SE-MFL-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829691

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L930-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 | 97 | | | | | | | | | | | | | | | | | | | |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 91 | 88 | 90 | 88 | 85 | 86 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 74 | 71 | 75 | 72 | 68 | 66 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 47 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 72 | 60 | 52 | 46 | 58 | 50 | 45 | 56 | 49 | 44 | 53 | 48 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 54 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 48 | 43 | 38 | 36 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 37 | 32 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 39372 | 39372 | 39372 |
| 5° | 39120 | 38999 | 39118 |
| 10° | 38845 | 38655 | 38913 |
| 15° | 38411 | 38244 | 38644 |
| 20° | 37836 | 37741 | 38251 |
| 25° | 37066 | 37112 | 37852 |
| 30° | 36001 | 36431 | 37452 |
| 35° | 34712 | 35707 | 37106 |
| 40° | 33163 | 34870 | 36765 |
| 45° | 31337 | 33960 | 36331 |
| 50° | 29339 | 33041 | 35803 |
| 55° | 26883 | 31915 | 34911 |
| 60° | 24368 | 30589 | 33132 |
| 65° | 21622 | 28895 | 30207 |
| 70° | 18646 | 26735 | 27040 |
| 75° | 15633 | 24241 | 24900 |
| 80° | 11852 | 22437 | 24703 |
| 85° | 7499 | 23321 | 27605 |



TEST NUMBER: P829691

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L930-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2359.0 | 3.2 |
| 10°-20° | 6767.6 | 9.1 |
| 20°-30° | 10234.8 | 13.7 |
| 30°-40° | 12286.9 | 16.5 |
| 40°-50° | 12690.4 | 17.0 |
| 50°-60° | 11417.4 | 15.3 |
| 60°-70° | 8600.5 | 11.5 |
| 70°-80° | 5193.3 | 7.0 |
| 80°-90° | 2539.9 | 3.4 |
| 90°-100° | 1069.1 | 1.4 |
| 100°-110° | 610.3 | 0.8 |
| 110°-120° | 358.2 | 0.5 |
| 120°-130° | 202.6 | 0.3 |
| 130°-140° | 106.7 | 0.1 |
| 140°-150° | 51.9 | 0.1 |
| 150°-160° | 19.3 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 19361.3 | 26.0 |
| 0°-40° | 31648.3 | 42.5 |
| 0°-60° | 55756.1 | 74.8 |
| 0°-90° | 72089.9 | 96.8 |
| 90°-120° | 2037.7 | 2.7 |
| 90°-150° | 2398.8 | 3.2 |
| 90°-180° | 2418.0 | 3.2 |
| 0°-180° | 74508.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 24896 | 24896 | 24896 | 24896 | 24896 | |
| 5° | 24737 | 24804 | 24774 | 24871 | 24841 | ### |
| 15° | 23738 | 23854 | 23963 | 24164 | 24189 | 6692 |
| 25° | 21678 | 21916 | 22227 | 22574 | 22629 | 9971 |
| 35° | 18534 | 18967 | 19747 | 20344 | 20466 | 11587 |
| 45° | 14629 | 15366 | 16652 | 17560 | 17748 | 11294 |
| 55° | 10364 | 11436 | 13173 | 14166 | 14336 | 9292 |
| 65° | 6324 | 7616 | 9322 | 9785 | 9676 | 6283 |
| 75° | 2979 | 4277 | 5398 | 5538 | 5484 | 3178 |
| 85° | 622 | 1639 | 2705 | 3077 | 3132 | 718 |
| 90° | 0 | 640 | 1548 | 1950 | 2029 | 39 |
| 95° | 30 | 433 | 1158 | 1474 | 1529 | 26 |
| 105° | 43 | 250 | 670 | 877 | 914 | 43 |
| 115° | 49 | 140 | 414 | 554 | 579 | 50 |
| 125° | 49 | 67 | 250 | 360 | 378 | 44 |
| 135° | 43 | 55 | 128 | 219 | 244 | 34 |
| 145° | 61 | 55 | 61 | 110 | 128 | 36 |
| 155° | 61 | 67 | 61 | 55 | 61 | 19 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P829691

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 24895.5 | 24895.5 | 24895.5 | 24895.5 | 24895.5 |
| 2.5° | 24822.4 | 24883.3 | 24846.8 | 24926.0 | 24919.9 |
| 5° | 24737.1 | 24804.1 | 24773.6 | 24871.1 | 24840.7 |
| 7.5° | 24590.8 | 24664.0 | 24657.9 | 24767.5 | 24755.4 |
| 10° | 24377.6 | 24456.8 | 24481.2 | 24627.4 | 24627.4 |
| 12.5° | 24085.1 | 24188.7 | 24249.6 | 24426.3 | 24432.4 |
| 15° | 23737.8 | 23853.6 | 23963.3 | 24164.3 | 24188.7 |
| 17.5° | 23317.4 | 23463.7 | 23616.0 | 23847.5 | 23878.0 |
| 20° | 22842.2 | 23006.7 | 23213.9 | 23457.6 | 23494.1 |
| 22.5° | 22293.8 | 22488.8 | 22756.9 | 23043.3 | 23085.9 |
| 25° | 21678.5 | 21916.1 | 22226.8 | 22574.1 | 22628.9 |
| 27.5° | 20977.8 | 21252.0 | 21672.4 | 22062.3 | 22111.0 |
| 30° | 20216.2 | 20539.1 | 21063.1 | 21526.1 | 21605.3 |
| 32.5° | 19411.9 | 19783.6 | 20429.4 | 20947.3 | 21057.0 |
| 35° | 18534.5 | 18967.1 | 19747.0 | 20344.1 | 20466.0 |
| 37.5° | 17669.3 | 18144.6 | 19028.1 | 19710.5 | 19856.7 |
| 40° | 16657.9 | 17248.9 | 18260.4 | 19015.9 | 19192.6 |
| 42.5° | 15707.4 | 16347.2 | 17492.6 | 18315.2 | 18485.8 |
| 45° | 14629.0 | 15366.2 | 16651.8 | 17559.7 | 17748.5 |
| 47.5° | 13617.6 | 14415.7 | 15841.5 | 16779.8 | 16974.8 |
| 50° | 12551.3 | 13428.7 | 14976.3 | 15957.2 | 16158.3 |
| 52.5° | 11485.1 | 12429.5 | 14080.6 | 15098.1 | 15287.0 |
| 55° | 10364.0 | 11436.3 | 13172.8 | 14165.9 | 14336.5 |
| 57.5° | 9322.1 | 10455.4 | 12240.6 | 13185.0 | 13288.6 |
| 60° | 8292.4 | 9468.3 | 11290.1 | 12118.7 | 12155.3 |
| 62.5° | 7287.1 | 8523.9 | 10315.2 | 10973.3 | 10924.5 |
| 65° | 6324.4 | 7616.1 | 9322.1 | 9785.2 | 9675.5 |
| 67.5° | 5398.3 | 6732.6 | 8304.6 | 8603.1 | 8456.9 |
| 70° | 4520.9 | 5873.5 | 7317.5 | 7469.9 | 7335.8 |
| 72.5° | 3747.1 | 5057.1 | 6318.3 | 6446.3 | 6348.8 |
| 75° | 2979.4 | 4277.2 | 5398.3 | 5538.4 | 5483.6 |
| 77.5° | 2260.5 | 3521.7 | 4551.4 | 4734.2 | 4746.4 |
| 80° | 1626.8 | 2833.2 | 3814.1 | 4100.5 | 4137.1 |
| 82.5° | 1072.3 | 2199.5 | 3198.8 | 3564.3 | 3619.2 |
| 85° | 621.5 | 1639.0 | 2705.2 | 3076.9 | 3131.7 |
| 87.5° | 268.1 | 1182.0 | 2175.2 | 2510.3 | 2577.3 |
| 90° | 0.0 | 639.8 | 1547.6 | 1949.7 | 2028.9 |
| 92.5° | 18.3 | 530.1 | 1328.2 | 1693.8 | 1760.8 |
| 95° | 30.5 | 432.6 | 1157.6 | 1474.5 | 1529.3 |
| 97.5° | 36.6 | 365.6 | 1005.3 | 1285.6 | 1340.4 |
| 100° | 36.6 | 316.8 | 871.3 | 1127.2 | 1175.9 |
| 102.5° | 36.6 | 280.3 | 761.6 | 987.0 | 1029.7 |
| 105° | 42.7 | 249.8 | 670.2 | 877.4 | 913.9 |



TEST NUMBER: P829691

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 48.7 | 164.5 | 463.1 | 621.5 | 645.8 |
| 115° | 48.7 | 140.1 | 414.3 | 554.5 | 578.8 |
| 117.5° | 54.8 | 121.9 | 365.6 | 499.6 | 517.9 |
| 120° | 54.8 | 103.6 | 322.9 | 444.8 | 469.2 |
| 122.5° | 54.8 | 85.3 | 286.4 | 402.1 | 420.4 |
| 125° | 48.7 | 67.0 | 249.8 | 359.5 | 377.8 |
| 127.5° | 42.7 | 54.8 | 213.3 | 322.9 | 341.2 |
| 130° | 42.7 | 48.7 | 182.8 | 286.4 | 304.6 |
| 132.5° | 42.7 | 54.8 | 152.3 | 249.8 | 274.2 |
| 135° | 42.7 | 54.8 | 128.0 | 219.3 | 243.7 |
| 137.5° | 42.7 | 54.8 | 103.6 | 188.9 | 213.3 |
| 140° | 48.7 | 54.8 | 85.3 | 158.4 | 182.8 |
| 142.5° | 54.8 | 54.8 | 67.0 | 134.0 | 152.3 |
| 145° | 60.9 | 54.8 | 60.9 | 109.7 | 128.0 |
| 147.5° | 60.9 | 60.9 | 60.9 | 85.3 | 103.6 |
| 150° | 60.9 | 67.0 | 60.9 | 67.0 | 85.3 |
| 152.5° | 60.9 | 67.0 | 60.9 | 54.8 | 67.0 |
| 155° | 60.9 | 67.0 | 60.9 | 54.8 | 60.9 |
| 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° | 42.7 | 219.3 | 591.0 | 779.9 | 810.4 |
| 110° | 42.7 | 195.0 | 524.0 | 694.6 | 725.1 |



(END OF REPORT)