

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: P830739

Luminaire Tested: **OHBL-72SE-A-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830739
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-72SE-A-UNV-L730-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

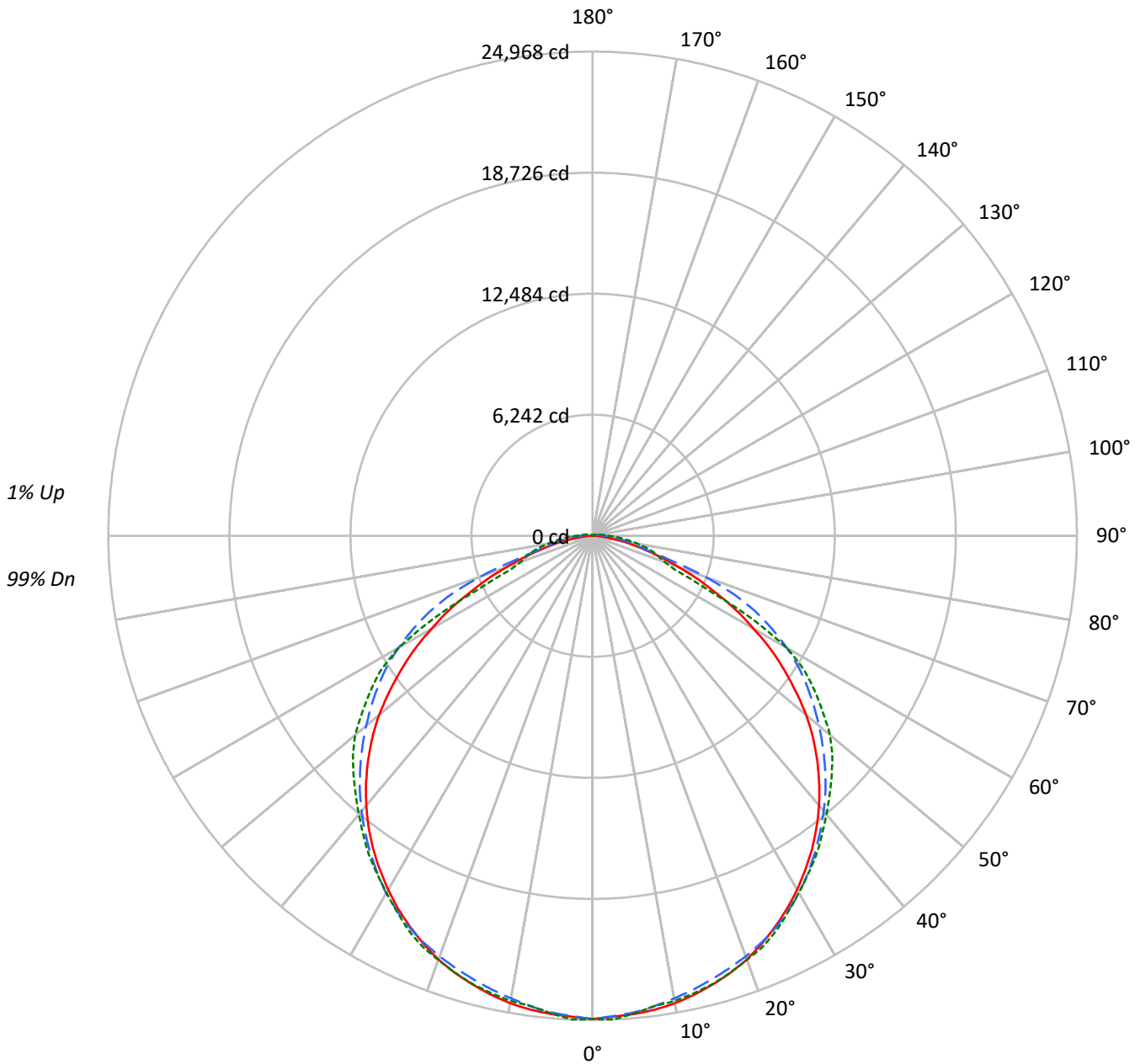
Lumens per Lamp: N/A
Luminaire Lumens: 70428.9 lumens
Efficiency: N/A
Efficacy: 170.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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: P830739

CATALOG NUMBER: OHBL-72SE-A-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830739

CATALOG NUMBER: OHBL-72SE-A-UNV-L730-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° | 39407 | 39407 | 39407 |
| 5° | 39149 | 38834 | 38916 |
| 10° | 39006 | 38246 | 38484 |
| 15° | 38758 | 37806 | 38226 |
| 20° | 38511 | 37529 | 37888 |
| 25° | 38046 | 37250 | 37552 |
| 30° | 37541 | 36810 | 36842 |
| 35° | 36936 | 36112 | 36450 |
| 40° | 36151 | 35391 | 35917 |
| 45° | 35062 | 34557 | 35681 |
| 50° | 33587 | 33607 | 35398 |
| 55° | 31243 | 32673 | 34077 |
| 60° | 28173 | 31305 | 31504 |
| 65° | 24168 | 28768 | 19966 |
| 70° | 19466 | 22457 | 14476 |
| 75° | 14595 | 13331 | 14692 |
| 80° | 10159 | 11085 | 14027 |
| 85° | 5782 | 10157 | 13148 |



TEST NUMBER: P830739

CATALOG NUMBER: OHBL-72SE-A-UNV-L730-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2349.5 | 3.3 |
| 10°-20° | 6737.3 | 9.6 |
| 20°-30° | 10290.0 | 14.6 |
| 30°-40° | 12485.3 | 17.7 |
| 40°-50° | 13085.8 | 18.6 |
| 50°-60° | 11857.7 | 16.8 |
| 60°-70° | 7950.1 | 11.3 |
| 70°-80° | 3570.0 | 5.1 |
| 80°-90° | 1295.5 | 1.8 |
| 90°-100° | 389.9 | 0.6 |
| 100°-110° | 184.0 | 0.3 |
| 110°-120° | 92.2 | 0.1 |
| 120°-130° | 50.9 | 0.1 |
| 130°-140° | 34.9 | 0.0 |
| 140°-150° | 23.5 | 0.0 |
| 150°-160° | 17.5 | 0.0 |
| 160°-170° | 11.2 | 0.0 |
| 170°-180° | 3.6 | 0.0 |
| 0°-30° | 19376.9 | 27.5 |
| 0°-40° | 31862.2 | 45.2 |
| 0°-60° | 56805.7 | 80.7 |
| 0°-90° | 69621.2 | 98.9 |
| 90°-120° | 666.1 | 0.9 |
| 90°-150° | 775.5 | 1.1 |
| 90°-180° | 808.0 | 1.1 |
| 0°-180° | 70428.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 24918 | 24918 | 24918 | 24918 | 24918 | |
| 5° | 24756 | 24842 | 24669 | 24745 | 24712 | ### |
| 15° | 23952 | 23859 | 23689 | 23898 | 23927 | 6763 |
| 25° | 22252 | 22154 | 22309 | 22515 | 22450 | 10257 |
| 35° | 19722 | 19769 | 19971 | 20184 | 20104 | 12327 |
| 45° | 16368 | 16635 | 16945 | 17377 | 17431 | 12609 |
| 55° | 12045 | 12625 | 13486 | 14026 | 13994 | 10751 |
| 65° | 7069 | 8175 | 9281 | 7833 | 6395 | 7043 |
| 75° | 2782 | 4035 | 2969 | 3037 | 3235 | 3040 |
| 85° | 479 | 919 | 1178 | 1423 | 1492 | 585 |
| 90° | 4 | 306 | 609 | 764 | 800 | 29 |
| 95° | 4 | 191 | 418 | 508 | 522 | 5 |
| 105° | 14 | 83 | 205 | 249 | 259 | 17 |
| 115° | 29 | 43 | 104 | 133 | 140 | 27 |
| 125° | 25 | 29 | 65 | 76 | 79 | 25 |
| 135° | 32 | 36 | 40 | 58 | 61 | 26 |
| 145° | 32 | 36 | 36 | 40 | 43 | 21 |
| 155° | 36 | 40 | 40 | 40 | 36 | 17 |
| 165° | 40 | 40 | 40 | 40 | 40 | 11 |
| 175° | 40 | 40 | 36 | 32 | 32 | 4 |
| 180° | 36 | 36 | 36 | 36 | 36 | |



TEST NUMBER: P830739

CATALOG NUMBER: OHBL-72SE-A-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 24917.8 | 24917.8 | 24917.8 | 24917.8 | 24917.8 |
| 2.5° | 24817.0 | 24921.4 | 24791.7 | 24932.3 | 24968.3 |
| 5° | 24755.7 | 24842.2 | 24669.2 | 24744.9 | 24712.5 |
| 7.5° | 24644.0 | 24672.8 | 24467.5 | 24528.7 | 24463.9 |
| 10° | 24478.3 | 24463.9 | 24222.5 | 24341.4 | 24355.8 |
| 12.5° | 24233.3 | 24190.0 | 23973.9 | 24154.0 | 24157.6 |
| 15° | 23952.3 | 23858.6 | 23689.2 | 23898.2 | 23927.0 |
| 17.5° | 23628.0 | 23505.5 | 23393.8 | 23664.0 | 23620.8 |
| 20° | 23249.7 | 23105.6 | 23084.0 | 23379.4 | 23271.3 |
| 22.5° | 22781.3 | 22669.6 | 22720.1 | 23001.1 | 22932.6 |
| 25° | 22251.7 | 22154.4 | 22309.3 | 22514.7 | 22449.8 |
| 27.5° | 21693.2 | 21635.6 | 21812.1 | 21970.6 | 21844.5 |
| 30° | 21080.7 | 21048.3 | 21282.5 | 21412.2 | 21253.7 |
| 32.5° | 20414.2 | 20425.0 | 20648.4 | 20824.9 | 20677.2 |
| 35° | 19722.4 | 19769.3 | 19971.0 | 20183.6 | 20104.3 |
| 37.5° | 18962.2 | 19066.7 | 19268.5 | 19509.8 | 19427.0 |
| 40° | 18158.7 | 18310.1 | 18533.5 | 18825.3 | 18749.6 |
| 42.5° | 17290.4 | 17481.4 | 17769.6 | 18093.9 | 18086.7 |
| 45° | 16368.1 | 16634.7 | 16944.6 | 17376.9 | 17431.0 |
| 47.5° | 15409.7 | 15708.8 | 16101.5 | 16677.9 | 16760.8 |
| 50° | 14368.5 | 14743.2 | 15233.2 | 15924.9 | 15975.4 |
| 52.5° | 13208.3 | 13719.9 | 14368.5 | 15031.4 | 14970.2 |
| 55° | 12044.6 | 12624.7 | 13485.8 | 14026.2 | 13993.8 |
| 57.5° | 10884.4 | 11536.6 | 12581.4 | 12966.9 | 12963.3 |
| 60° | 9587.4 | 10412.5 | 11554.6 | 11846.4 | 11558.2 |
| 62.5° | 8387.6 | 9273.9 | 10459.3 | 10246.7 | 9259.5 |
| 65° | 7068.9 | 8175.0 | 9281.1 | 7832.8 | 6395.2 |
| 67.5° | 5898.0 | 7050.9 | 7883.2 | 5364.8 | 4593.7 |
| 70° | 4719.8 | 5991.7 | 6146.6 | 3981.2 | 3927.2 |
| 72.5° | 3675.0 | 5029.7 | 4240.6 | 3408.4 | 3581.3 |
| 75° | 2781.5 | 4035.3 | 2968.8 | 3037.3 | 3235.4 |
| 77.5° | 2028.4 | 3098.5 | 2309.5 | 2662.6 | 2824.7 |
| 80° | 1394.3 | 2194.2 | 1884.3 | 2237.4 | 2349.1 |
| 82.5° | 875.5 | 1448.4 | 1509.6 | 1801.5 | 1916.8 |
| 85° | 479.2 | 918.7 | 1178.2 | 1423.2 | 1491.6 |
| 87.5° | 198.2 | 554.9 | 900.7 | 1098.9 | 1156.5 |
| 90° | 3.6 | 306.2 | 608.9 | 763.8 | 799.8 |
| 92.5° | 3.6 | 234.2 | 497.2 | 616.1 | 641.3 |
| 95° | 3.6 | 191.0 | 417.9 | 508.0 | 522.4 |
| 97.5° | 7.2 | 151.3 | 349.5 | 421.5 | 436.0 |
| 100° | 10.8 | 126.1 | 291.8 | 353.1 | 363.9 |
| 102.5° | 14.4 | 100.9 | 245.0 | 295.4 | 306.2 |
| 105° | 14.4 | 82.9 | 205.4 | 248.6 | 259.4 |



TEST NUMBER: P830739

CATALOG NUMBER: OHBL-72SE-A-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 25.2 | 50.4 | 122.5 | 154.9 | 162.1 |
| 115° | 28.8 | 43.2 | 104.5 | 133.3 | 140.5 |
| 117.5° | 28.8 | 36.0 | 90.1 | 111.7 | 118.9 |
| 120° | 28.8 | 32.4 | 79.3 | 97.3 | 100.9 |
| 122.5° | 28.8 | 28.8 | 68.5 | 86.5 | 90.1 |
| 125° | 25.2 | 28.8 | 64.9 | 75.7 | 79.3 |
| 127.5° | 28.8 | 28.8 | 57.6 | 68.5 | 72.1 |
| 130° | 28.8 | 32.4 | 50.4 | 64.9 | 64.9 |
| 132.5° | 32.4 | 36.0 | 46.8 | 61.2 | 61.2 |
| 135° | 32.4 | 36.0 | 39.6 | 57.6 | 61.2 |
| 137.5° | 36.0 | 36.0 | 36.0 | 54.0 | 57.6 |
| 140° | 36.0 | 36.0 | 32.4 | 46.8 | 50.4 |
| 142.5° | 32.4 | 36.0 | 32.4 | 43.2 | 46.8 |
| 145° | 32.4 | 36.0 | 36.0 | 39.6 | 43.2 |
| 147.5° | 36.0 | 36.0 | 36.0 | 36.0 | 39.6 |
| 150° | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 |
| 152.5° | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 |
| 155° | 36.0 | 39.6 | 39.6 | 39.6 | 36.0 |
| 157.5° | 36.0 | 39.6 | 39.6 | 39.6 | 39.6 |
| 160° | 36.0 | 39.6 | 39.6 | 39.6 | 39.6 |
| 162.5° | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 |
| 165° | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 |
| 167.5° | 39.6 | 43.2 | 39.6 | 39.6 | 39.6 |
| 170° | 39.6 | 39.6 | 39.6 | 36.0 | 36.0 |
| 172.5° | 39.6 | 39.6 | 39.6 | 36.0 | 36.0 |
| 175° | 39.6 | 39.6 | 36.0 | 32.4 | 32.4 |
| 177.5° | 43.2 | 39.6 | 36.0 | 32.4 | 28.8 |
| 180° | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|------|------|-------|-------|-------|
| 107.5° | 18.0 | 68.5 | 176.5 | 212.6 | 219.8 |
| 110° | 21.6 | 57.6 | 147.7 | 180.1 | 187.4 |



(END OF REPORT)