

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: P830380

Luminaire Tested: **OHBL-36SE-A-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830380
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-36SE-A-UNV-L735-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

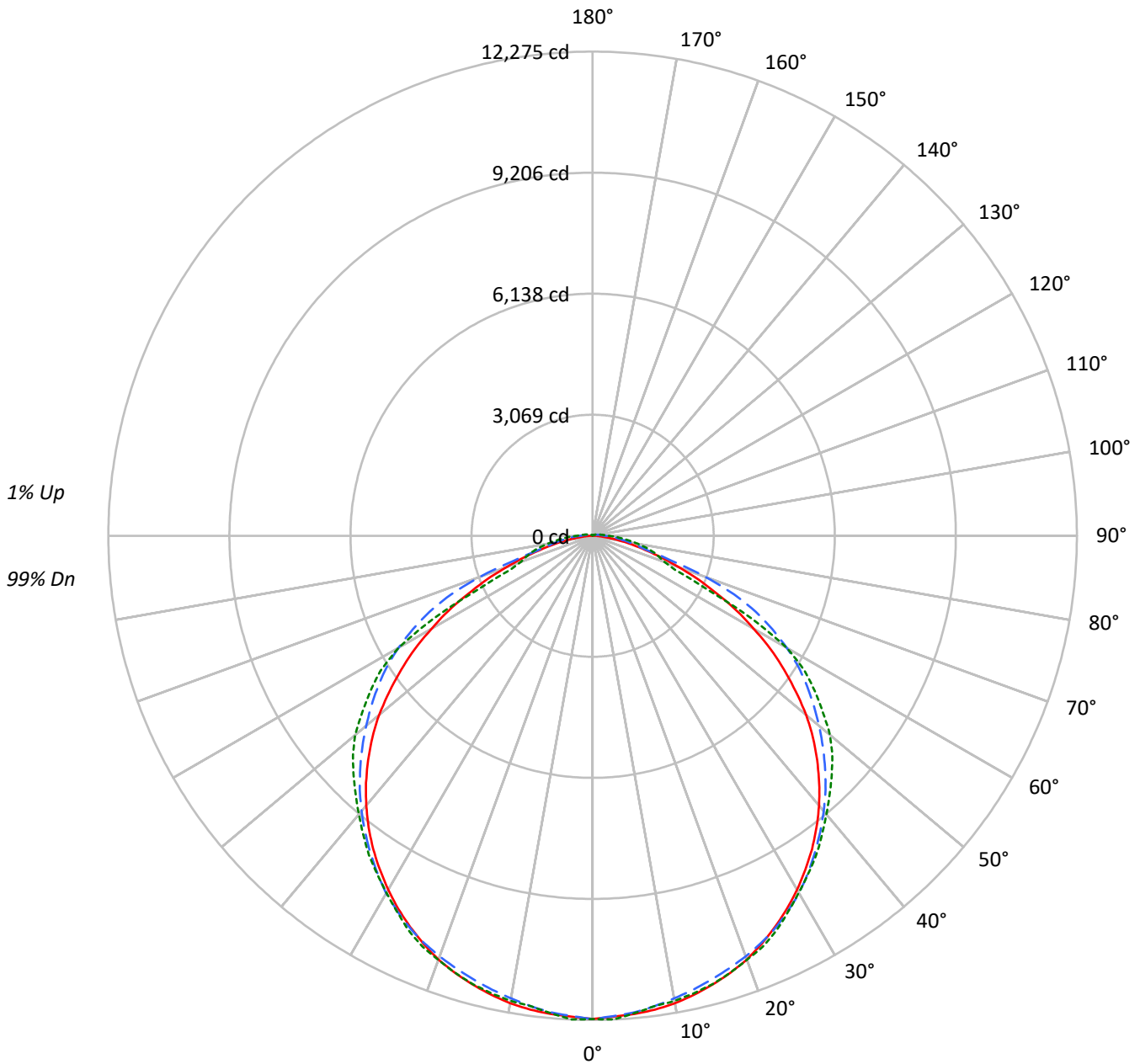
Lumens per Lamp: N/A
Luminaire Lumens: 34625.0 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 211
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: P830380

CATALOG NUMBER: OHBL-36SE-A-UNV-L735-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830380

CATALOG NUMBER: OHBL-36SE-A-UNV-L735-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° | 19374 | 19374 | 19374 |
| 5° | 19247 | 19092 | 19132 |
| 10° | 19176 | 18803 | 18920 |
| 15° | 19055 | 18587 | 18793 |
| 20° | 18933 | 18451 | 18627 |
| 25° | 18705 | 18313 | 18462 |
| 30° | 18456 | 18097 | 18113 |
| 35° | 18159 | 17754 | 17920 |
| 40° | 17773 | 17399 | 17658 |
| 45° | 17238 | 16989 | 17542 |
| 50° | 16512 | 16522 | 17403 |
| 55° | 15360 | 16063 | 16753 |
| 60° | 13851 | 15391 | 15489 |
| 65° | 11882 | 14143 | 9816 |
| 70° | 9570 | 11041 | 7117 |
| 75° | 7175 | 6554 | 7223 |
| 80° | 4994 | 5450 | 6896 |
| 85° | 2843 | 4993 | 6464 |



TEST NUMBER: P830380

CATALOG NUMBER: OHBL-36SE-A-UNV-L735-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1155.1 | 3.3 |
| 10°-20° | 3312.3 | 9.6 |
| 20°-30° | 5058.9 | 14.6 |
| 30°-40° | 6138.2 | 17.7 |
| 40°-50° | 6433.4 | 18.6 |
| 50°-60° | 5829.6 | 16.8 |
| 60°-70° | 3908.5 | 11.3 |
| 70°-80° | 1755.1 | 5.1 |
| 80°-90° | 636.9 | 1.8 |
| 90°-100° | 191.7 | 0.6 |
| 100°-110° | 90.5 | 0.3 |
| 110°-120° | 45.3 | 0.1 |
| 120°-130° | 25.0 | 0.1 |
| 130°-140° | 17.2 | 0.0 |
| 140°-150° | 11.6 | 0.0 |
| 150°-160° | 8.6 | 0.0 |
| 160°-170° | 5.5 | 0.0 |
| 170°-180° | 1.8 | 0.0 |
| 0°-30° | 9526.2 | 27.5 |
| 0°-40° | 15664.4 | 45.2 |
| 0°-60° | 27927.4 | 80.7 |
| 0°-90° | 34227.9 | 98.9 |
| 90°-120° | 327.5 | 0.9 |
| 90°-150° | 381.3 | 1.1 |
| 90°-180° | 397.0 | 1.1 |
| 0°-180° | 34625.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 12250 | 12250 | 12250 | 12250 | 12250 | |
| 5° | 12171 | 12213 | 12128 | 12165 | 12149 | ### |
| 15° | 11776 | 11730 | 11646 | 11749 | 11763 | 3325 |
| 25° | 10940 | 10892 | 10968 | 11069 | 11037 | 5043 |
| 35° | 9696 | 9719 | 9818 | 9923 | 9884 | 6060 |
| 45° | 8047 | 8178 | 8330 | 8543 | 8570 | 6199 |
| 55° | 5922 | 6207 | 6630 | 6896 | 6880 | 5286 |
| 65° | 3475 | 4019 | 4563 | 3851 | 3144 | 3463 |
| 75° | 1367 | 1984 | 1460 | 1493 | 1591 | 1494 |
| 85° | 236 | 452 | 579 | 700 | 733 | 287 |
| 90° | 2 | 151 | 299 | 376 | 393 | 14 |
| 95° | 2 | 94 | 206 | 250 | 257 | 2 |
| 105° | 7 | 41 | 101 | 122 | 128 | 8 |
| 115° | 14 | 21 | 51 | 66 | 69 | 13 |
| 125° | 12 | 14 | 32 | 37 | 39 | 12 |
| 135° | 16 | 18 | 20 | 28 | 30 | 13 |
| 145° | 16 | 18 | 18 | 20 | 21 | 11 |
| 155° | 18 | 20 | 20 | 20 | 18 | 8 |
| 165° | 20 | 20 | 20 | 20 | 20 | 5 |
| 175° | 20 | 20 | 18 | 16 | 16 | 2 |
| 180° | 18 | 18 | 18 | 18 | 18 | |



TEST NUMBER: P830380

CATALOG NUMBER: OHBL-36SE-A-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 12250.4 | 12250.4 | 12250.4 | 12250.4 | 12250.4 |
| 2.5° | 12200.8 | 12252.1 | 12188.4 | 12257.4 | 12275.2 |
| 5° | 12170.6 | 12213.2 | 12128.1 | 12165.3 | 12149.4 |
| 7.5° | 12115.7 | 12129.9 | 12028.9 | 12059.1 | 12027.2 |
| 10° | 12034.3 | 12027.2 | 11908.5 | 11966.9 | 11974.0 |
| 12.5° | 11913.8 | 11892.6 | 11786.3 | 11874.8 | 11876.6 |
| 15° | 11775.6 | 11729.6 | 11646.3 | 11749.1 | 11763.2 |
| 17.5° | 11616.2 | 11556.0 | 11501.1 | 11633.9 | 11612.7 |
| 20° | 11430.2 | 11359.4 | 11348.8 | 11494.0 | 11440.9 |
| 22.5° | 11200.0 | 11145.1 | 11169.9 | 11308.0 | 11274.4 |
| 25° | 10939.6 | 10891.8 | 10967.9 | 11068.9 | 11037.0 |
| 27.5° | 10665.0 | 10636.7 | 10723.5 | 10801.4 | 10739.4 |
| 30° | 10363.9 | 10348.0 | 10463.1 | 10526.9 | 10448.9 |
| 32.5° | 10036.2 | 10041.5 | 10151.4 | 10238.2 | 10165.5 |
| 35° | 9696.1 | 9719.2 | 9818.4 | 9922.9 | 9883.9 |
| 37.5° | 9322.4 | 9373.8 | 9472.9 | 9591.6 | 9550.9 |
| 40° | 8927.4 | 9001.8 | 9111.6 | 9255.1 | 9217.9 |
| 42.5° | 8500.5 | 8594.4 | 8736.1 | 8895.5 | 8892.0 |
| 45° | 8047.0 | 8178.1 | 8330.5 | 8543.0 | 8569.6 |
| 47.5° | 7575.9 | 7722.9 | 7916.0 | 8199.4 | 8240.1 |
| 50° | 7064.0 | 7248.2 | 7489.1 | 7829.2 | 7854.0 |
| 52.5° | 6493.6 | 6745.1 | 7064.0 | 7389.9 | 7359.8 |
| 55° | 5921.5 | 6206.7 | 6630.0 | 6895.7 | 6879.8 |
| 57.5° | 5351.1 | 5671.7 | 6185.4 | 6374.9 | 6373.2 |
| 60° | 4713.4 | 5119.1 | 5680.6 | 5824.1 | 5682.4 |
| 62.5° | 4123.6 | 4559.3 | 5142.1 | 5037.6 | 4552.3 |
| 65° | 3475.3 | 4019.1 | 4562.9 | 3850.8 | 3144.1 |
| 67.5° | 2899.6 | 3466.4 | 3875.6 | 2637.5 | 2258.4 |
| 70° | 2320.4 | 2945.7 | 3021.8 | 1957.3 | 1930.7 |
| 72.5° | 1806.7 | 2472.7 | 2084.8 | 1675.7 | 1760.7 |
| 75° | 1367.4 | 1983.9 | 1459.6 | 1493.2 | 1590.6 |
| 77.5° | 997.2 | 1523.3 | 1135.4 | 1309.0 | 1388.7 |
| 80° | 685.5 | 1078.7 | 926.4 | 1100.0 | 1154.9 |
| 82.5° | 430.4 | 712.1 | 742.2 | 885.7 | 942.3 |
| 85° | 235.6 | 451.7 | 579.2 | 699.7 | 733.3 |
| 87.5° | 97.4 | 272.8 | 442.8 | 540.2 | 568.6 |
| 90° | 1.8 | 150.6 | 299.4 | 375.5 | 393.2 |
| 92.5° | 1.8 | 115.1 | 244.4 | 302.9 | 315.3 |
| 95° | 1.8 | 93.9 | 205.5 | 249.8 | 256.8 |
| 97.5° | 3.5 | 74.4 | 171.8 | 207.2 | 214.3 |
| 100° | 5.3 | 62.0 | 143.5 | 173.6 | 178.9 |
| 102.5° | 7.1 | 49.6 | 120.4 | 145.2 | 150.6 |
| 105° | 7.1 | 40.7 | 101.0 | 122.2 | 127.5 |



TEST NUMBER: P830380

CATALOG NUMBER: OHBL-36SE-A-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 12.4 | 24.8 | 60.2 | 76.2 | 79.7 |
| 115° | 14.2 | 21.3 | 51.4 | 65.5 | 69.1 |
| 117.5° | 14.2 | 17.7 | 44.3 | 54.9 | 58.5 |
| 120° | 14.2 | 15.9 | 39.0 | 47.8 | 49.6 |
| 122.5° | 14.2 | 14.2 | 33.7 | 42.5 | 44.3 |
| 125° | 12.4 | 14.2 | 31.9 | 37.2 | 39.0 |
| 127.5° | 14.2 | 14.2 | 28.3 | 33.7 | 35.4 |
| 130° | 14.2 | 15.9 | 24.8 | 31.9 | 31.9 |
| 132.5° | 15.9 | 17.7 | 23.0 | 30.1 | 30.1 |
| 135° | 15.9 | 17.7 | 19.5 | 28.3 | 30.1 |
| 137.5° | 17.7 | 17.7 | 17.7 | 26.6 | 28.3 |
| 140° | 17.7 | 17.7 | 15.9 | 23.0 | 24.8 |
| 142.5° | 15.9 | 17.7 | 15.9 | 21.3 | 23.0 |
| 145° | 15.9 | 17.7 | 17.7 | 19.5 | 21.3 |
| 147.5° | 17.7 | 17.7 | 17.7 | 17.7 | 19.5 |
| 150° | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 152.5° | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 155° | 17.7 | 19.5 | 19.5 | 19.5 | 17.7 |
| 157.5° | 17.7 | 19.5 | 19.5 | 19.5 | 19.5 |
| 160° | 17.7 | 19.5 | 19.5 | 19.5 | 19.5 |
| 162.5° | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |
| 165° | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |
| 167.5° | 19.5 | 21.3 | 19.5 | 19.5 | 19.5 |
| 170° | 19.5 | 19.5 | 19.5 | 17.7 | 17.7 |
| 172.5° | 19.5 | 19.5 | 19.5 | 17.7 | 17.7 |
| 175° | 19.5 | 19.5 | 17.7 | 15.9 | 15.9 |
| 177.5° | 21.3 | 19.5 | 17.7 | 15.9 | 14.2 |
| 180° | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |



Report Generated By 670246072 / DESKTOP-50001EG





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







| | | | | | |
|--------|------|------|------|-------|-------|
| 107.5° | 8.9 | 33.7 | 86.8 | 104.5 | 108.0 |
| 110° | 10.6 | 28.3 | 72.6 | 88.6 | 92.1 |



(END OF REPORT)