

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: P829853

Luminaire Tested: **OHBL-15SE-NL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-NL-UNV-L740-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

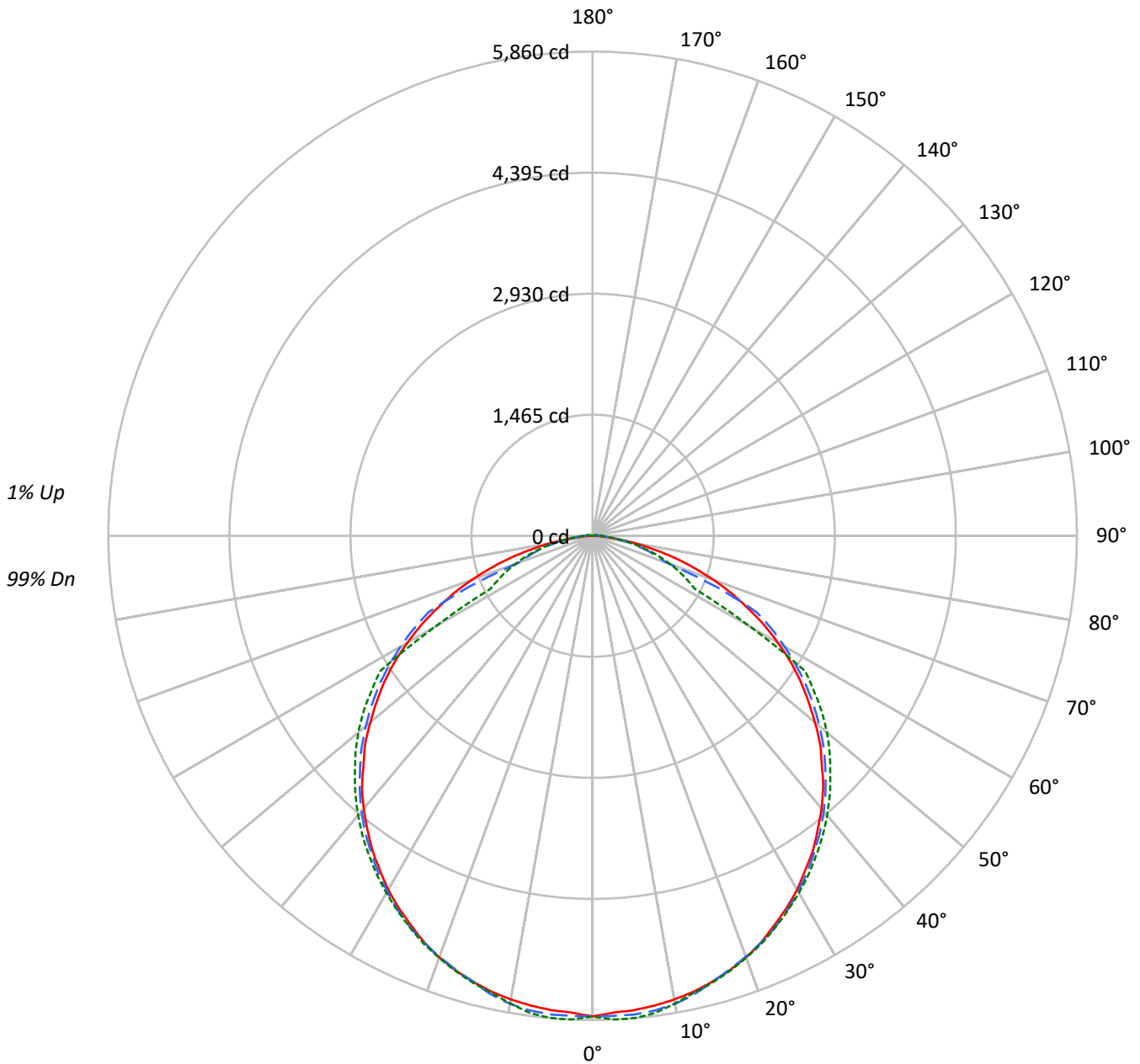
Lumens per Lamp: N/A
Luminaire Lumens: 16332.0 lumens
Efficiency: N/A
Efficacy: 187.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (Ain): 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: P829853

CATALOG NUMBER: OHBL-15SE-NL-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829853

CATALOG NUMBER: OHBL-15SE-NL-UNV-L740-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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | | | | | 99 | | | | | | | | | | | | | | | |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | | | | | 84 | | | | | | | | | | | | | | | |
| 2 | 99 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | | | | | 71 | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | | | | | 60 | | | | | | | | | | | | | | | |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | | | | | 51 | | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | | | | | 44 | | | | | | | | | | | | | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | | | | | | | | | | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | | | | | 34 | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | | | | | 30 | | | | | | | | | | | | | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | | | | | 27 | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | | | | | 25 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18925 | 18925 | 18925 |
| 5° | 18820 | 18990 | 19134 |
| 10° | 18825 | 19004 | 18981 |
| 15° | 18822 | 18819 | 18860 |
| 20° | 18796 | 18768 | 18814 |
| 25° | 18668 | 18763 | 18778 |
| 30° | 18582 | 18677 | 18750 |
| 35° | 18461 | 18562 | 18737 |
| 40° | 18302 | 18475 | 18748 |
| 45° | 18038 | 18310 | 18710 |
| 50° | 17766 | 18128 | 18727 |
| 55° | 17426 | 17878 | 18521 |
| 60° | 16842 | 17440 | 14419 |
| 65° | 15935 | 16862 | 9704 |
| 70° | 14738 | 8951 | 9418 |
| 75° | 12855 | 8506 | 8994 |
| 80° | 9887 | 7803 | 8242 |
| 85° | 4991 | 7887 | 8074 |



TEST NUMBER: P829853

CATALOG NUMBER: OHBL-15SE-NL-UNV-L740-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 552.6 | 3.4 |
| 10°-20° | 1582.4 | 9.7 |
| 20°-30° | 2407.7 | 14.7 |
| 30°-40° | 2927.4 | 17.9 |
| 40°-50° | 3078.0 | 18.8 |
| 50°-60° | 2810.6 | 17.2 |
| 60°-70° | 1801.7 | 11.0 |
| 70°-80° | 851.1 | 5.2 |
| 80°-90° | 236.0 | 1.4 |
| 90°-100° | 62.5 | 0.4 |
| 100°-110° | 17.1 | 0.1 |
| 110°-120° | 4.7 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 4542.7 | 27.8 |
| 0°-40° | 7470.1 | 45.7 |
| 0°-60° | 13358.8 | 81.8 |
| 0°-90° | 16247.6 | 99.5 |
| 90°-120° | 84.4 | 0.5 |
| 90°-150° | 84.4 | 0.5 |
| 90°-180° | 84.0 | 0.5 |
| 0°-180° | 16332.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5817 | 5817 | 5817 | 5817 | 5817 | |
| 5° | 5763 | 5785 | 5815 | 5847 | 5859 | 548 |
| 15° | 5588 | 5630 | 5587 | 5596 | 5600 | 1578 |
| 25° | 5200 | 5209 | 5227 | 5235 | 5231 | 2400 |
| 35° | 4648 | 4621 | 4674 | 4731 | 4718 | 2905 |
| 45° | 3920 | 3913 | 3980 | 4074 | 4066 | 3030 |
| 55° | 3072 | 3049 | 3152 | 3257 | 3265 | 2740 |
| 65° | 2070 | 2070 | 2190 | 1256 | 1261 | 2052 |
| 75° | 1023 | 1042 | 677 | 712 | 716 | 1078 |
| 85° | 134 | 169 | 211 | 229 | 216 | 198 |
| 90° | 0 | 57 | 94 | 111 | 109 | 6 |
| 95° | 3 | 30 | 67 | 91 | 91 | 2 |
| 105° | 5 | 11 | 16 | 16 | 15 | 5 |
| 115° | 5 | 7 | 10 | 7 | 1 | 4 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P829853

CATALOG NUMBER: OHBL-15SE-NL-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5817.0 | 5817.0 | 5817.0 | 5817.0 | 5817.0 |
| 2.5° | 5776.2 | 5795.6 | 5817.0 | 5844.6 | 5859.8 |
| 5° | 5762.9 | 5785.4 | 5815.0 | 5846.6 | 5858.9 |
| 7.5° | 5734.4 | 5765.9 | 5794.6 | 5817.0 | 5824.2 |
| 10° | 5698.6 | 5736.4 | 5752.7 | 5750.7 | 5745.6 |
| 12.5° | 5650.6 | 5690.5 | 5685.4 | 5661.9 | 5666.0 |
| 15° | 5588.4 | 5630.2 | 5587.4 | 5595.5 | 5599.6 |
| 17.5° | 5514.9 | 5555.7 | 5505.7 | 5522.0 | 5523.1 |
| 20° | 5429.2 | 5459.8 | 5421.0 | 5434.3 | 5434.3 |
| 22.5° | 5326.1 | 5347.5 | 5331.2 | 5340.4 | 5342.4 |
| 25° | 5200.5 | 5208.6 | 5227.0 | 5235.2 | 5231.1 |
| 27.5° | 5080.1 | 5069.9 | 5105.6 | 5125.0 | 5114.7 |
| 30° | 4946.4 | 4930.0 | 4971.9 | 5003.5 | 4991.3 |
| 32.5° | 4793.2 | 4783.1 | 4831.1 | 4868.8 | 4861.6 |
| 35° | 4648.3 | 4620.8 | 4673.8 | 4731.0 | 4717.7 |
| 37.5° | 4476.8 | 4460.5 | 4520.7 | 4581.0 | 4573.9 |
| 40° | 4309.4 | 4281.9 | 4350.3 | 4421.7 | 4414.6 |
| 42.5° | 4129.8 | 4097.1 | 4171.6 | 4257.4 | 4249.2 |
| 45° | 3920.5 | 3913.4 | 3979.7 | 4073.6 | 4066.5 |
| 47.5° | 3734.8 | 3699.1 | 3791.9 | 3882.8 | 3891.0 |
| 50° | 3510.2 | 3497.0 | 3581.7 | 3691.9 | 3700.0 |
| 52.5° | 3290.8 | 3281.6 | 3370.3 | 3481.6 | 3495.9 |
| 55° | 3072.3 | 3048.8 | 3151.9 | 3257.1 | 3265.3 |
| 57.5° | 2838.7 | 2814.1 | 2919.3 | 3033.6 | 3050.9 |
| 60° | 2588.5 | 2565.0 | 2680.3 | 2786.6 | 2216.0 |
| 62.5° | 2338.4 | 2322.1 | 2442.6 | 1730.1 | 1394.4 |
| 65° | 2070.0 | 2070.0 | 2190.4 | 1256.5 | 1260.6 |
| 67.5° | 1819.0 | 1802.6 | 1633.2 | 1128.8 | 1128.8 |
| 70° | 1549.4 | 1555.6 | 941.0 | 989.1 | 990.1 |
| 72.5° | 1279.0 | 1301.4 | 812.5 | 851.2 | 853.3 |
| 75° | 1022.7 | 1042.2 | 676.7 | 712.5 | 715.5 |
| 77.5° | 751.3 | 577.7 | 544.0 | 571.7 | 572.6 |
| 80° | 527.7 | 364.4 | 416.5 | 443.0 | 439.9 |
| 82.5° | 308.2 | 255.1 | 305.2 | 324.6 | 323.5 |
| 85° | 133.7 | 169.4 | 211.3 | 228.7 | 216.3 |
| 87.5° | 42.8 | 105.1 | 131.6 | 141.9 | 140.8 |
| 90° | 0.0 | 57.2 | 93.9 | 111.2 | 109.3 |
| 92.5° | 0.0 | 44.8 | 81.7 | 102.1 | 103.1 |
| 95° | 3.0 | 29.6 | 67.4 | 90.9 | 90.9 |
| 97.5° | 2.1 | 21.4 | 48.0 | 71.4 | 73.5 |
| 100° | 2.1 | 17.3 | 31.7 | 51.0 | 52.1 |
| 102.5° | 5.1 | 14.3 | 19.3 | 32.6 | 33.7 |
| 105° | 5.1 | 11.2 | 16.3 | 16.3 | 15.3 |



TEST NUMBER: P829853

CATALOG NUMBER: OHBL-15SE-NL-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-----|
| 112.5° | 6.2 | 8.2 | 11.2 | 8.2 | 1.0 |
| 115° | 5.1 | 7.1 | 10.2 | 7.1 | 1.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 5.1 | 10.2 | 14.3 | 9.2 | 3.0 |
| 110° | 6.2 | 9.2 | 12.2 | 8.2 | 1.0 |



(END OF REPORT)