

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: P829912

Luminaire Tested: **OHBL-18HE-N-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829912
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-18HE-N-UNV-L735-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

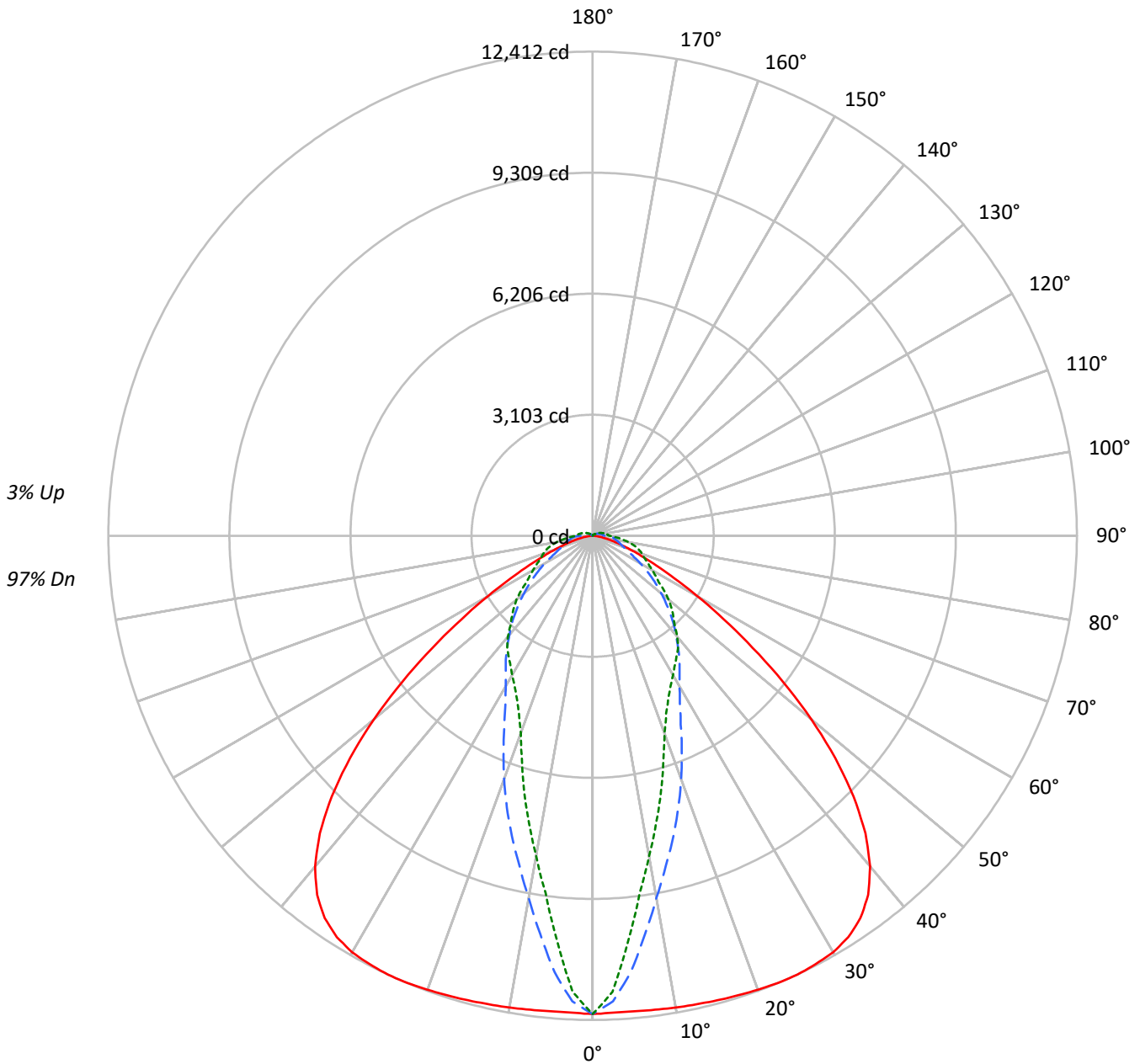
Lumens per Lamp: N/A
Luminaire Lumens: 18096.0 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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: P829912

CATALOG NUMBER: OHBL-18HE-N-UNV-L735-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829912

CATALOG NUMBER: OHBL-18HE-N-UNV-L735-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | 99 | 97 |
| 1 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 97 | 94 | 91 | 92 | 90 | 88 | 88 | 86 | 85 | 85 | 85 | 85 | 82 |
| 2 | 100 | 93 | 86 | 81 | 97 | 90 | 85 | 80 | 86 | 82 | 78 | 83 | 79 | 75 | 79 | 76 | 73 | 73 | 73 | 73 | 71 |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 74 | 70 | 65 | 72 | 67 | 64 | 64 | 64 | 64 | 62 |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 57 | 65 | 60 | 56 | 56 | 56 | 56 | 54 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 50 | 50 | 50 | 48 |
| 6 | 74 | 62 | 53 | 47 | 72 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 45 | 45 | 45 | 43 |
| 7 | 69 | 56 | 48 | 43 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 41 | 41 | 41 | 41 | 39 |
| 8 | 65 | 52 | 44 | 39 | 63 | 51 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 37 | 37 | 37 | 35 |
| 9 | 61 | 48 | 41 | 35 | 59 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 38 | 34 | 34 | 34 | 34 | 32 |
| 10 | 57 | 45 | 37 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 35 | 32 | 32 | 32 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 20942 | 20942 | 20942 |
| 5° | 20899 | 19071 | 17731 |
| 10° | 21135 | 16064 | 14218 |
| 15° | 21548 | 13739 | 11670 |
| 20° | 22153 | 11617 | 9439 |
| 25° | 22919 | 9615 | 8270 |
| 30° | 23711 | 8284 | 7683 |
| 35° | 24205 | 7549 | 7320 |
| 40° | 23790 | 6819 | 6944 |
| 45° | 21886 | 6162 | 6429 |
| 50° | 18465 | 5444 | 6034 |
| 55° | 14031 | 4769 | 5370 |
| 60° | 9833 | 4090 | 5141 |
| 65° | 6614 | 3522 | 5033 |
| 70° | 4517 | 3305 | 5280 |
| 75° | 3134 | 3409 | 5641 |
| 80° | 2158 | 3775 | 5808 |
| 85° | 1263 | 4722 | 6092 |



TEST NUMBER: P829912

CATALOG NUMBER: OHBL-18HE-N-UNV-L735-CD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1032.1 | 5.7 |
| 10°-20° | 2428.0 | 13.4 |
| 20°-30° | 3043.5 | 16.8 |
| 30°-40° | 3229.5 | 17.8 |
| 40°-50° | 2920.0 | 16.1 |
| 50°-60° | 2117.2 | 11.7 |
| 60°-70° | 1328.6 | 7.3 |
| 70°-80° | 879.2 | 4.9 |
| 80°-90° | 506.5 | 2.8 |
| 90°-100° | 245.4 | 1.4 |
| 100°-110° | 169.4 | 0.9 |
| 110°-120° | 104.5 | 0.6 |
| 120°-130° | 50.6 | 0.3 |
| 130°-140° | 23.3 | 0.1 |
| 140°-150° | 12.7 | 0.1 |
| 150°-160° | 5.5 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| <hr/> | | |
| 0°-30° | 6503.6 | 35.9 |
| 0°-40° | 9733.1 | 53.8 |
| 0°-60° | 14770.2 | 81.6 |
| 0°-90° | 17484.5 | 96.6 |
| 90°-120° | 519.3 | 2.9 |
| 90°-150° | 605.9 | 3.3 |
| 90°-180° | 611.0 | 3.4 |
| 0°-180° | 18096.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 12261 | 12261 | 12261 | 12261 | 12261 | |
| 5° | 12236 | 11923 | 11222 | 10702 | 10432 | ### |
| 15° | 12330 | 10050 | 7982 | 7098 | 6776 | 3497 |
| 25° | 12412 | 7771 | 5345 | 4744 | 4593 | 5734 |
| 35° | 11967 | 5166 | 3879 | 3758 | 3756 | 7439 |
| 45° | 9460 | 3272 | 2811 | 2879 | 2928 | 7207 |
| 55° | 5008 | 2028 | 1834 | 1990 | 2061 | 4525 |
| 65° | 1791 | 1176 | 1062 | 1361 | 1512 | 1864 |
| 75° | 553 | 634 | 713 | 1107 | 1174 | 617 |
| 85° | 97 | 263 | 522 | 726 | 666 | 116 |
| 90° | 0 | 110 | 302 | 426 | 429 | 6 |
| 95° | 5 | 77 | 266 | 362 | 378 | 4 |
| 105° | 9 | 51 | 194 | 257 | 264 | 9 |
| 115° | 13 | 36 | 131 | 163 | 167 | 13 |
| 125° | 14 | 19 | 66 | 84 | 83 | 12 |
| 135° | 12 | 14 | 29 | 46 | 46 | 9 |
| 145° | 14 | 15 | 18 | 27 | 26 | 8 |
| 155° | 14 | 18 | 19 | 20 | 18 | 4 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P829912

CATALOG NUMBER: OHBL-18HE-N-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|---------|---------|---------|---------|---------|
| 0° | 12261.0 | 12261.0 | 12261.0 | 12261.0 | 12261.0 |
| 2.5° | 12235.3 | 12165.3 | 11947.1 | 11814.1 | 11702.0 |
| 5° | 12236.5 | 11922.6 | 11222.4 | 10702.0 | 10432.4 |
| 7.5° | 12254.0 | 11556.2 | 10294.7 | 9535.0 | 9238.6 |
| 10° | 12280.8 | 11102.2 | 9428.8 | 8619.0 | 8342.4 |
| 12.5° | 12300.7 | 10591.1 | 8666.8 | 7834.8 | 7531.4 |
| 15° | 12329.9 | 10049.7 | 7981.8 | 7098.5 | 6776.4 |
| 17.5° | 12356.7 | 9539.7 | 7305.0 | 6382.0 | 6023.7 |
| 20° | 12383.5 | 8990.1 | 6628.2 | 5677.1 | 5381.9 |
| 22.5° | 12409.2 | 8410.1 | 5967.7 | 5129.9 | 4928.0 |
| 25° | 12411.5 | 7770.6 | 5344.6 | 4743.6 | 4593.1 |
| 27.5° | 12381.2 | 7107.8 | 4839.3 | 4420.4 | 4327.0 |
| 30° | 12328.7 | 6464.8 | 4447.2 | 4187.0 | 4120.5 |
| 32.5° | 12198.0 | 5809.0 | 4143.8 | 3961.8 | 3923.2 |
| 35° | 11966.9 | 5166.0 | 3878.9 | 3757.5 | 3756.4 |
| 37.5° | 11602.9 | 4595.4 | 3591.8 | 3570.8 | 3596.5 |
| 40° | 11064.9 | 4095.9 | 3319.9 | 3375.9 | 3375.9 |
| 42.5° | 10347.2 | 3661.8 | 3073.7 | 3130.9 | 3115.7 |
| 45° | 9460.4 | 3272.1 | 2811.2 | 2878.8 | 2927.8 |
| 47.5° | 8432.3 | 2929.0 | 2542.8 | 2673.5 | 2741.1 |
| 50° | 7314.4 | 2602.3 | 2297.7 | 2464.6 | 2541.6 |
| 52.5° | 6142.8 | 2300.0 | 2058.5 | 2249.9 | 2311.7 |
| 55° | 5008.5 | 2028.1 | 1834.4 | 1989.6 | 2060.8 |
| 57.5° | 3981.6 | 1769.1 | 1615.0 | 1762.1 | 1909.1 |
| 60° | 3098.2 | 1546.2 | 1408.5 | 1618.5 | 1765.6 |
| 62.5° | 2366.5 | 1347.8 | 1214.8 | 1484.3 | 1631.4 |
| 65° | 1791.2 | 1176.3 | 1061.9 | 1360.6 | 1512.4 |
| 67.5° | 1350.1 | 1028.1 | 942.9 | 1270.8 | 1419.0 |
| 70° | 1014.1 | 884.5 | 847.2 | 1214.8 | 1347.8 |
| 72.5° | 749.2 | 752.7 | 771.3 | 1165.8 | 1267.3 |
| 75° | 553.1 | 633.6 | 713.0 | 1107.4 | 1173.9 |
| 77.5° | 395.6 | 525.1 | 660.5 | 1037.4 | 1060.7 |
| 80° | 274.2 | 428.3 | 605.6 | 945.2 | 925.4 |
| 82.5° | 171.5 | 343.1 | 556.6 | 843.7 | 788.8 |
| 85° | 96.9 | 262.6 | 521.6 | 725.8 | 666.3 |
| 87.5° | 43.2 | 196.0 | 456.3 | 566.0 | 528.6 |
| 90° | 0.0 | 109.7 | 302.2 | 425.9 | 429.4 |
| 92.5° | 2.3 | 91.0 | 278.9 | 389.8 | 401.4 |
| 95° | 4.7 | 77.0 | 266.1 | 361.8 | 378.1 |
| 97.5° | 5.8 | 67.7 | 249.7 | 336.1 | 350.1 |
| 100° | 7.0 | 60.7 | 229.9 | 309.2 | 320.9 |
| 102.5° | 8.2 | 56.0 | 211.2 | 281.2 | 290.6 |
| 105° | 9.3 | 51.3 | 193.7 | 256.7 | 263.7 |



TEST NUMBER: P829912

CATALOG NUMBER: OHBL-18HE-N-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 11.7 | 39.7 | 145.9 | 184.4 | 190.2 |
| 115° | 12.8 | 36.2 | 130.7 | 163.4 | 166.9 |
| 117.5° | 14.0 | 31.5 | 114.4 | 143.5 | 144.7 |
| 120° | 14.0 | 28.0 | 98.0 | 122.5 | 122.5 |
| 122.5° | 14.0 | 23.3 | 81.7 | 101.5 | 100.4 |
| 125° | 14.0 | 18.7 | 66.5 | 84.0 | 82.9 |
| 127.5° | 12.8 | 15.2 | 53.7 | 70.0 | 68.8 |
| 130° | 12.8 | 15.2 | 43.2 | 59.5 | 59.5 |
| 132.5° | 11.7 | 14.0 | 35.0 | 51.3 | 51.3 |
| 135° | 11.7 | 14.0 | 29.2 | 45.5 | 45.5 |
| 137.5° | 11.7 | 15.2 | 24.5 | 39.7 | 39.7 |
| 140° | 11.7 | 14.0 | 21.0 | 35.0 | 35.0 |
| 142.5° | 12.8 | 14.0 | 18.7 | 30.3 | 30.3 |
| 145° | 14.0 | 15.2 | 17.5 | 26.8 | 25.7 |
| 147.5° | 14.0 | 16.3 | 17.5 | 23.3 | 22.2 |
| 150° | 14.0 | 17.5 | 17.5 | 21.0 | 19.8 |
| 152.5° | 14.0 | 17.5 | 17.5 | 19.8 | 18.7 |
| 155° | 14.0 | 17.5 | 18.7 | 19.8 | 17.5 |
| 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° | 9.3 | 47.8 | 177.4 | 229.9 | 238.1 |
| 110° | 10.5 | 43.2 | 162.2 | 205.4 | 213.5 |



(END OF REPORT)