

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: P830359

Luminaire Tested: **OHBL-36HE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



**Test Information**

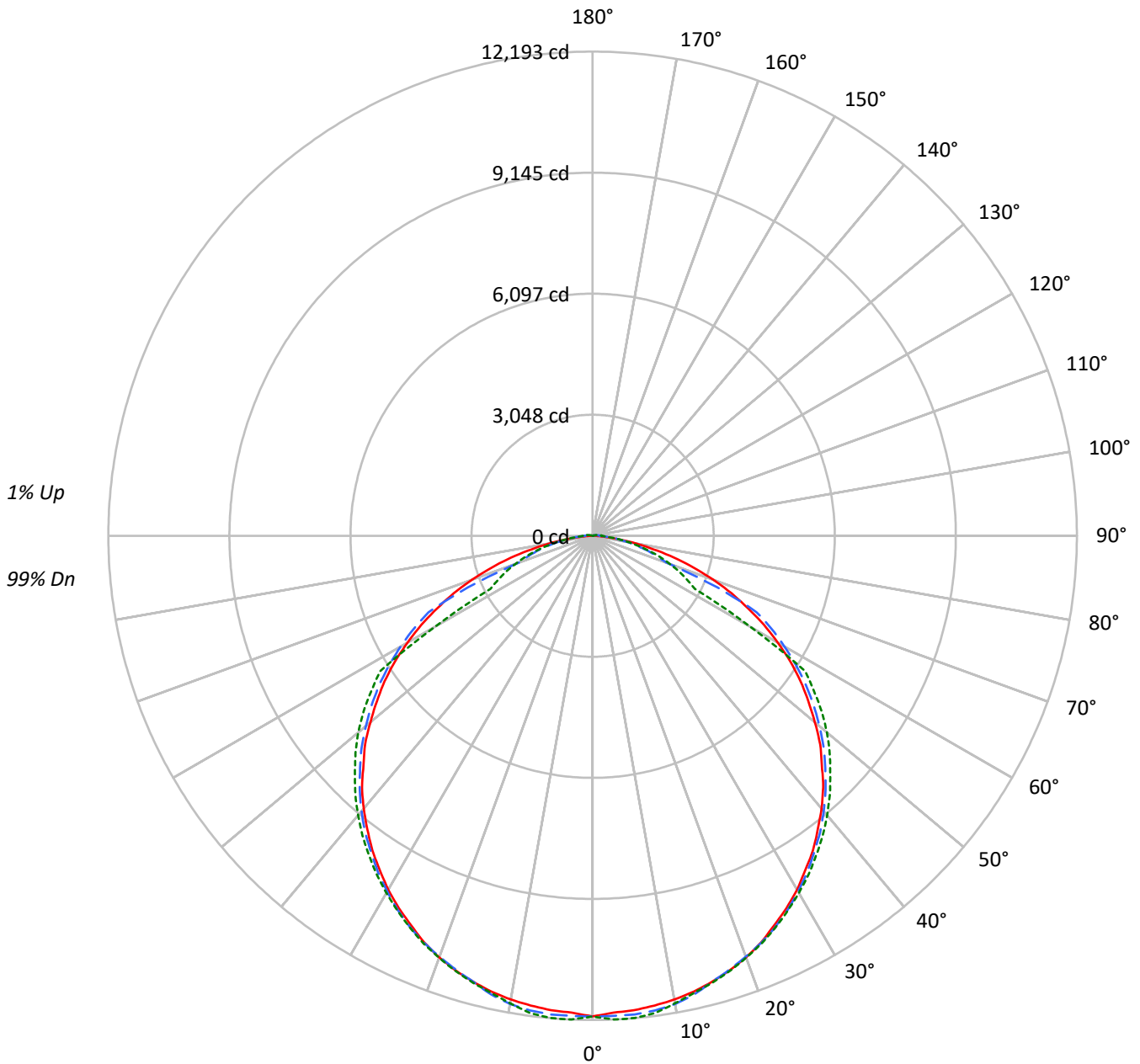
Test Method: LM-79-08  
Report Number: P830359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-NL-UNV-L830-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33984.0 lumens  
Efficiency: N/A  
Efficacy: 160.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 212  
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: P830359  
CATALOG NUMBER: OHBL-36HE-NL-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830359

CATALOG NUMBER: OHBL-36HE-NL-UNV-L830-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°  | 19142 | 19142 | 19142 |
| 5°  | 19037 | 19209 | 19354 |
| 10° | 19042 | 19223 | 19199 |
| 15° | 19039 | 19035 | 19077 |
| 20° | 19013 | 18984 | 19031 |
| 25° | 18883 | 18979 | 18994 |
| 30° | 18795 | 18892 | 18966 |
| 35° | 18674 | 18776 | 18952 |
| 40° | 18512 | 18688 | 18964 |
| 45° | 18245 | 18521 | 18925 |
| 50° | 17970 | 18337 | 18942 |
| 55° | 17627 | 18083 | 18734 |
| 60° | 17036 | 17641 | 14585 |
| 65° | 16118 | 17056 | 9815  |
| 70° | 14908 | 9054  | 9526  |
| 75° | 13003 | 8604  | 9097  |
| 80° | 10000 | 7892  | 8337  |
| 85° | 5048  | 7977  | 8169  |



TEST NUMBER: P830359

CATALOG NUMBER: OHBL-36HE-NL-UNV-L830-CD

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1149.9  | 3.4       |
| 10°-20°   | 3292.6  | 9.7       |
| 20°-30°   | 5010.0  | 14.7      |
| 30°-40°   | 6091.4  | 17.9      |
| 40°-50°   | 6404.9  | 18.8      |
| 50°-60°   | 5848.4  | 17.2      |
| 60°-70°   | 3749.1  | 11.0      |
| 70°-80°   | 1771.0  | 5.2       |
| 80°-90°   | 491.1   | 1.4       |
| 90°-100°  | 130.0   | 0.4       |
| 100°-110° | 35.6    | 0.1       |
| 110°-120° | 9.9     | 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°    | 9452.5  | 27.8      |
| 0°-40°    | 15544.0 | 45.7      |
| 0°-60°    | 27797.2 | 81.8      |
| 0°-90°    | 33808.5 | 99.5      |
| 90°-120°  | 175.5   | 0.5       |
| 90°-150°  | 175.5   | 0.5       |
| 90°-180°  | 176.0   | 0.5       |
| 0°-180°   | 33984.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0°   | 12104 | 12104 | 12104 | 12104 | 12104 |      |
| 5°   | 11992 | 12038 | 12100 | 12166 | 12191 | ###  |
| 15°  | 11628 | 11715 | 11626 | 11643 | 11652 | 3283 |
| 25°  | 10821 | 10838 | 10876 | 10894 | 10885 | 4993 |
| 35°  | 9672  | 9615  | 9725  | 9844  | 9817  | 6045 |
| 45°  | 8158  | 8143  | 8281  | 8476  | 8462  | 6306 |
| 55°  | 6393  | 6344  | 6559  | 6777  | 6794  | 5701 |
| 65°  | 4307  | 4307  | 4558  | 2614  | 2623  | 4270 |
| 75°  | 2128  | 2169  | 1408  | 1482  | 1489  | 2243 |
| 85°  | 278   | 353   | 440   | 476   | 450   | 411  |
| 90°  | 0     | 119   | 195   | 231   | 227   | 12   |
| 95°  | 6     | 62    | 140   | 189   | 189   | 3    |
| 105° | 11    | 23    | 34    | 34    | 32    | 11   |
| 115° | 11    | 15    | 21    | 15    | 2     | 8    |
| 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: P830359

CATALOG NUMBER: OHBL-36HE-NL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|--------|---------|---------|---------|---------|---------|
| 0°     | 12104.2 | 12104.2 | 12104.2 | 12104.2 | 12104.2 |
| 2.5°   | 12019.2 | 12059.7 | 12104.2 | 12161.6 | 12193.3 |
| 5°     | 11991.6 | 12038.3 | 12100.0 | 12165.8 | 12191.2 |
| 7.5°   | 11932.2 | 11997.9 | 12057.5 | 12104.2 | 12119.1 |
| 10°    | 11857.8 | 11936.5 | 11970.4 | 11966.2 | 11955.6 |
| 12.5°  | 11757.9 | 11840.9 | 11830.3 | 11781.3 | 11789.9 |
| 15°    | 11628.4 | 11715.4 | 11626.4 | 11643.3 | 11651.8 |
| 17.5°  | 11475.5 | 11560.5 | 11456.4 | 11490.3 | 11492.6 |
| 20°    | 11297.2 | 11360.8 | 11280.1 | 11307.8 | 11307.8 |
| 22.5°  | 11082.7 | 11127.2 | 11093.2 | 11112.3 | 11116.6 |
| 25°    | 10821.4 | 10838.2 | 10876.5 | 10893.6 | 10885.0 |
| 27.5°  | 10570.9 | 10549.5 | 10623.9 | 10664.2 | 10642.8 |
| 30°    | 10292.5 | 10258.5 | 10345.6 | 10411.4 | 10386.0 |
| 32.5°  | 9973.9  | 9952.7  | 10052.6 | 10131.0 | 10116.2 |
| 35°    | 9672.3  | 9615.0  | 9725.4  | 9844.3  | 9816.7  |
| 37.5°  | 9315.5  | 9281.5  | 9406.8  | 9532.2  | 9517.4  |
| 40°    | 8967.1  | 8909.8  | 9052.1  | 9200.8  | 9185.9  |
| 42.5°  | 8593.4  | 8525.3  | 8680.4  | 8859.0  | 8841.9  |
| 45°    | 8157.9  | 8143.0  | 8281.1  | 8476.5  | 8461.6  |
| 47.5°  | 7771.5  | 7697.1  | 7890.3  | 8079.4  | 8096.5  |
| 50°    | 7304.0  | 7276.6  | 7452.9  | 7682.3  | 7699.1  |
| 52.5°  | 6847.6  | 6828.5  | 7013.1  | 7244.7  | 7274.4  |
| 55°    | 6392.9  | 6344.1  | 6558.6  | 6777.4  | 6794.5  |
| 57.5°  | 5906.7  | 5855.7  | 6074.5  | 6312.4  | 6348.4  |
| 60°    | 5386.2  | 5337.4  | 5577.3  | 5798.4  | 4611.1  |
| 62.5°  | 4865.8  | 4831.9  | 5082.6  | 3600.1  | 2901.4  |
| 65°    | 4307.3  | 4307.3  | 4557.8  | 2614.5  | 2623.0  |
| 67.5°  | 3784.9  | 3751.0  | 3398.4  | 2348.9  | 2348.9  |
| 70°    | 3224.1  | 3236.9  | 1958.1  | 2058.2  | 2060.2  |
| 72.5°  | 2661.3  | 2708.0  | 1690.8  | 1771.3  | 1775.5  |
| 75°    | 2128.1  | 2168.6  | 1408.1  | 1482.5  | 1488.8  |
| 77.5°  | 1563.3  | 1202.1  | 1132.0  | 1189.5  | 1191.6  |
| 80°    | 1098.0  | 758.2   | 866.6   | 921.7   | 915.4   |
| 82.5°  | 641.3   | 530.9   | 635.0   | 675.5   | 673.2   |
| 85°    | 278.2   | 352.6   | 439.6   | 475.8   | 450.2   |
| 87.5°  | 89.0    | 218.8   | 273.9   | 295.2   | 293.0   |
| 90°    | 0.0     | 119.0   | 195.4   | 231.4   | 227.3   |
| 92.5°  | 0.0     | 93.3    | 170.0   | 212.5   | 214.5   |
| 95°    | 6.3     | 61.6    | 140.3   | 189.1   | 189.1   |
| 97.5°  | 4.3     | 44.5    | 99.8    | 148.6   | 152.9   |
| 100°   | 4.3     | 36.0    | 65.9    | 106.1   | 108.4   |
| 102.5° | 10.6    | 29.7    | 40.3    | 67.9    | 70.2    |
| 105°   | 10.6    | 23.4    | 34.0    | 34.0    | 31.9    |



TEST NUMBER: P830359

CATALOG NUMBER: OHBL-36HE-NL-UNV-L830-CD

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 12.8 | 17.1  | 23.4 | 17.1  | 2.0 |
| 115°   | 10.6 | 14.8  | 21.1 | 14.8  | 2.0 |
| 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° | 10.6 | 21.1 | 29.7 | 19.1 | 6.3 |
| 110°   | 12.8 | 19.1 | 25.4 | 17.1 | 2.0 |



(END OF REPORT)