

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: P830365

Luminaire Tested: **OHBL-36HE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

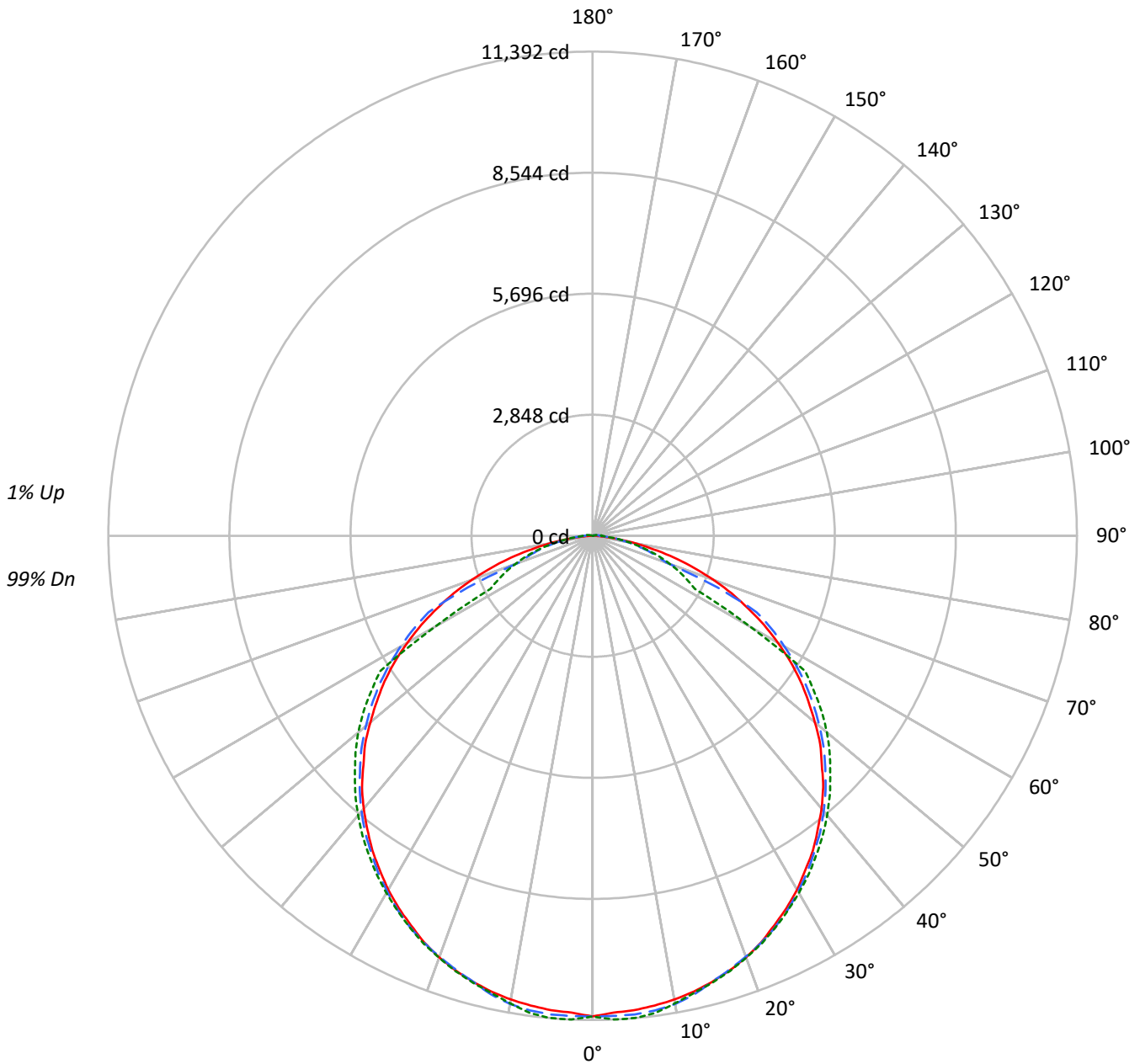
Test Method: LM-79-08  
Report Number: P830365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-NL-UNV-L940-CD  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31752.0 lumens  
Efficiency: N/A  
Efficacy: 149.8 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

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### Luminous Intensity Polar Plot





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**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°  | 17885 | 17885 | 17885 |
| 5°  | 17787 | 17947 | 18083 |
| 10° | 17791 | 17960 | 17938 |
| 15° | 17788 | 17785 | 17824 |
| 20° | 17764 | 17737 | 17781 |
| 25° | 17643 | 17733 | 17746 |
| 30° | 17561 | 17652 | 17721 |
| 35° | 17447 | 17543 | 17707 |
| 40° | 17297 | 17460 | 17719 |
| 45° | 17047 | 17305 | 17682 |
| 50° | 16790 | 17132 | 17698 |
| 55° | 16469 | 16896 | 17504 |
| 60° | 15917 | 16482 | 13627 |
| 65° | 15060 | 15935 | 9171  |
| 70° | 13929 | 8459  | 8901  |
| 75° | 12149 | 8039  | 8499  |
| 80° | 9343  | 7374  | 7790  |
| 85° | 4716  | 7452  | 7632  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1074.4  | 3.4       |
| 10°-20°   | 3076.4  | 9.7       |
| 20°-30°   | 4680.9  | 14.7      |
| 30°-40°   | 5691.4  | 17.9      |
| 40°-50°   | 5984.2  | 18.8      |
| 50°-60°   | 5464.3  | 17.2      |
| 60°-70°   | 3502.9  | 11.0      |
| 70°-80°   | 1654.7  | 5.2       |
| 80°-90°   | 458.8   | 1.4       |
| 90°-100°  | 121.5   | 0.4       |
| 100°-110° | 33.3    | 0.1       |
| 110°-120° | 9.2     | 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°    | 8831.7  | 27.8      |
| 0°-40°    | 14523.1 | 45.7      |
| 0°-60°    | 25971.6 | 81.8      |
| 0°-90°    | 31588.0 | 99.5      |
| 90°-120°  | 164.0   | 0.5       |
| 90°-150°  | 164.0   | 0.5       |
| 90°-180°  | 164.0   | 0.5       |
| 0°-180°   | 31752.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0°   | 11309 | 11309 | 11309 | 11309 | 11309 |      |
| 5°   | 11204 | 11248 | 11305 | 11367 | 11391 | ###  |
| 15°  | 10865 | 10946 | 10863 | 10878 | 10886 | 3067 |
| 25°  | 10111 | 10126 | 10162 | 10178 | 10170 | 4665 |
| 35°  | 9037  | 8984  | 9087  | 9198  | 9172  | 5648 |
| 45°  | 7622  | 7608  | 7737  | 7920  | 7906  | 5891 |
| 55°  | 5973  | 5927  | 6128  | 6332  | 6348  | 5327 |
| 65°  | 4024  | 4024  | 4258  | 2443  | 2451  | 3990 |
| 75°  | 1988  | 2026  | 1316  | 1385  | 1391  | 2096 |
| 85°  | 260   | 329   | 411   | 445   | 421   | 384  |
| 90°  | 0     | 111   | 183   | 216   | 212   | 11   |
| 95°  | 6     | 58    | 131   | 177   | 177   | 3    |
| 105° | 10    | 22    | 32    | 32    | 30    | 10   |
| 115° | 10    | 14    | 20    | 14    | 2     | 7    |
| 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     |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|--------|---------|---------|---------|---------|---------|
| 0°     | 11309.2 | 11309.2 | 11309.2 | 11309.2 | 11309.2 |
| 2.5°   | 11229.8 | 11267.6 | 11309.2 | 11362.8 | 11392.4 |
| 5°     | 11204.0 | 11247.7 | 11305.3 | 11366.8 | 11390.6 |
| 7.5°   | 11148.5 | 11209.9 | 11265.5 | 11309.2 | 11323.1 |
| 10°    | 11079.0 | 11152.5 | 11184.2 | 11180.2 | 11170.4 |
| 12.5°  | 10985.7 | 11063.2 | 11053.3 | 11007.5 | 11015.5 |
| 15°    | 10864.7 | 10946.0 | 10862.8 | 10878.5 | 10886.5 |
| 17.5°  | 10721.8 | 10801.2 | 10704.0 | 10735.7 | 10737.8 |
| 20°    | 10555.2 | 10614.7 | 10539.2 | 10565.1 | 10565.1 |
| 22.5°  | 10354.8 | 10396.4 | 10364.7 | 10382.5 | 10386.5 |
| 25°    | 10110.6 | 10126.4 | 10162.1 | 10178.1 | 10170.1 |
| 27.5°  | 9876.6  | 9856.6  | 9926.2  | 9963.8  | 9943.8  |
| 30°    | 9616.5  | 9584.8  | 9666.1  | 9727.6  | 9703.9  |
| 32.5°  | 9318.8  | 9299.0  | 9392.3  | 9465.7  | 9451.8  |
| 35°    | 9037.1  | 8983.5  | 9086.6  | 9197.8  | 9171.9  |
| 37.5°  | 8703.6  | 8671.9  | 8788.9  | 8906.2  | 8892.3  |
| 40°    | 8378.2  | 8324.6  | 8457.6  | 8596.5  | 8582.6  |
| 42.5°  | 8029.0  | 7965.4  | 8110.3  | 8277.1  | 8261.2  |
| 45°    | 7622.1  | 7608.2  | 7737.2  | 7919.8  | 7905.9  |
| 47.5°  | 7261.1  | 7191.6  | 7372.1  | 7548.7  | 7564.7  |
| 50°    | 6824.3  | 6798.7  | 6963.4  | 7177.7  | 7193.5  |
| 52.5°  | 6397.8  | 6380.0  | 6552.5  | 6768.9  | 6796.6  |
| 55°    | 5973.0  | 5927.4  | 6127.9  | 6332.3  | 6348.3  |
| 57.5°  | 5518.8  | 5471.1  | 5675.5  | 5897.8  | 5931.4  |
| 60°    | 5032.4  | 4986.8  | 5211.0  | 5417.5  | 4308.2  |
| 62.5°  | 4546.3  | 4514.5  | 4748.8  | 3363.6  | 2710.9  |
| 65°    | 4024.4  | 4024.4  | 4258.4  | 2442.8  | 2450.8  |
| 67.5°  | 3536.3  | 3504.6  | 3175.2  | 2194.7  | 2194.7  |
| 70°    | 3012.4  | 3024.3  | 1829.5  | 1923.0  | 1924.9  |
| 72.5°  | 2486.5  | 2530.2  | 1579.7  | 1654.9  | 1658.9  |
| 75°    | 1988.3  | 2026.2  | 1315.6  | 1385.2  | 1391.0  |
| 77.5°  | 1460.6  | 1123.2  | 1057.6  | 1111.4  | 1113.3  |
| 80°    | 1025.9  | 708.4   | 809.7   | 861.2   | 855.3   |
| 82.5°  | 599.2   | 496.0   | 593.3   | 631.1   | 629.0   |
| 85°    | 259.9   | 329.4   | 410.7   | 444.6   | 420.6   |
| 87.5°  | 83.2    | 204.4   | 255.9   | 275.9   | 273.8   |
| 90°    | 0.0     | 111.1   | 182.6   | 216.2   | 212.4   |
| 92.5°  | 0.0     | 87.2    | 158.8   | 198.5   | 200.4   |
| 95°    | 5.9     | 57.6    | 131.1   | 176.7   | 176.7   |
| 97.5°  | 4.0     | 41.6    | 93.3    | 138.9   | 142.9   |
| 100°   | 4.0     | 33.6    | 61.6    | 99.2    | 101.3   |
| 102.5° | 9.9     | 27.7    | 37.6    | 63.4    | 65.5    |
| 105°   | 9.9     | 21.8    | 31.7    | 31.7    | 29.8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90° |
|--------|------|-------|------|-------|-----|
| 112.5° | 12.0 | 16.0  | 21.8 | 16.0  | 1.9 |
| 115°   | 9.9  | 13.9  | 19.7 | 13.9  | 1.9 |
| 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 |



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







|        |      |      |      |      |     |
|--------|------|------|------|------|-----|
| 107.5° | 9.9  | 19.7 | 27.7 | 17.9 | 5.9 |
| 110°   | 12.0 | 17.9 | 23.7 | 16.0 | 1.9 |



(END OF REPORT)