

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: P828092

Luminaire Tested: **OHBL-36HE-MFL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828092  
REPORT IS A COMBINATION OF REPORTS P826313 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-MFL-UNV-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

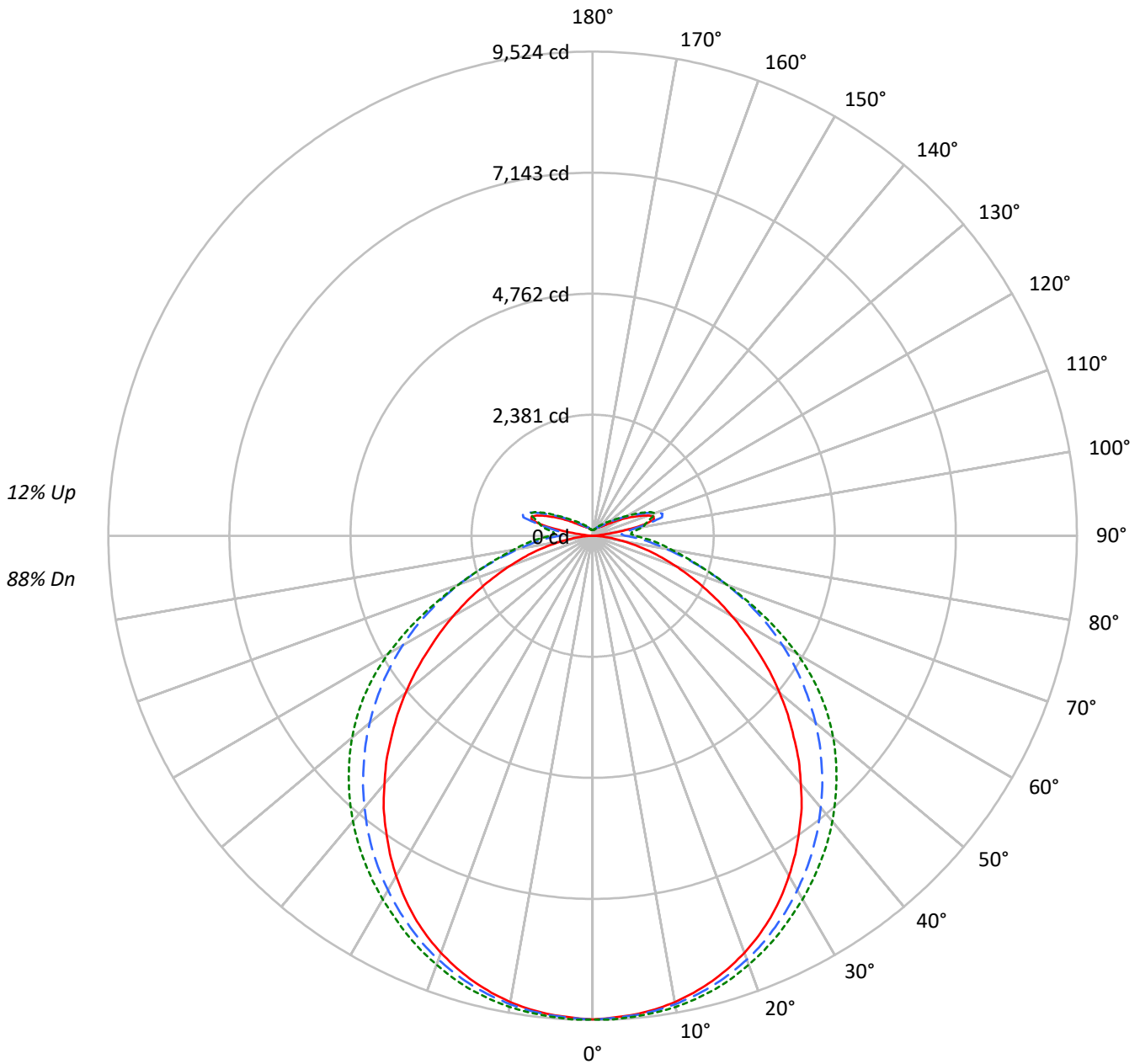
Lumens per Lamp: N/A  
Luminaire Lumens: 31460.1 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 240.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 |    |    |    | 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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 91 | 91 | 91 | 88 |    |    | 88 |
| 1   | 105 | 100 | 96  | 92  | 101 | 97  | 93  | 89  | 90  | 87  | 84  | 84 | 82 | 80 | 79 | 77 | 75 | 72 |    |    | 72 |
| 2   | 96  | 87  | 80  | 75  | 92  | 84  | 78  | 73  | 79  | 74  | 69  | 74 | 70 | 66 | 69 | 66 | 63 | 60 |    |    | 60 |
| 3   | 87  | 77  | 68  | 62  | 84  | 74  | 67  | 61  | 69  | 63  | 58  | 65 | 60 | 55 | 61 | 57 | 53 | 50 |    |    | 50 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 62  | 55  | 49  | 58 | 52 | 47 | 54 | 49 | 45 | 43 |    |    | 43 |
| 5   | 73  | 61  | 52  | 45  | 70  | 59  | 50  | 44  | 55  | 48  | 43  | 52 | 46 | 41 | 49 | 44 | 39 | 37 |    |    | 37 |
| 6   | 68  | 54  | 46  | 39  | 65  | 53  | 45  | 39  | 50  | 43  | 37  | 47 | 41 | 36 | 44 | 39 | 35 | 32 |    |    | 32 |
| 7   | 63  | 49  | 41  | 35  | 60  | 48  | 40  | 34  | 45  | 38  | 33  | 43 | 36 | 32 | 40 | 35 | 31 | 29 |    |    | 29 |
| 8   | 58  | 45  | 36  | 31  | 56  | 44  | 36  | 30  | 41  | 34  | 29  | 39 | 33 | 28 | 37 | 32 | 28 | 26 |    |    | 26 |
| 9   | 54  | 41  | 33  | 28  | 52  | 40  | 32  | 27  | 38  | 31  | 26  | 36 | 30 | 26 | 34 | 29 | 25 | 23 |    |    | 23 |
| 10  | 51  | 38  | 30  | 25  | 49  | 37  | 30  | 25  | 35  | 28  | 24  | 33 | 27 | 23 | 32 | 26 | 23 | 21 |    |    | 21 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15047 | 15047 | 15047 |
| 5°  | 14887 | 14904 | 15013 |
| 10° | 14721 | 14773 | 14998 |
| 15° | 14494 | 14616 | 14959 |
| 20° | 14213 | 14424 | 14872 |
| 25° | 13858 | 14183 | 14787 |
| 30° | 13393 | 13923 | 14704 |
| 35° | 12843 | 13646 | 14648 |
| 40° | 12195 | 13326 | 14602 |
| 45° | 11444 | 12979 | 14530 |
| 50° | 10629 | 12627 | 14435 |
| 55° | 9645  | 12197 | 14212 |
| 60° | 8638  | 11690 | 13651 |
| 65° | 7546  | 11043 | 12642 |
| 70° | 6369  | 10218 | 11563 |
| 75° | 5171  | 9264  | 10996 |
| 80° | 3713  | 8575  | 11519 |
| 85° | 2093  | 8912  | 14440 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 901.5   | 2.9       |
| 10°-20°   | 2586.4  | 8.2       |
| 20°-30°   | 3911.5  | 12.4      |
| 30°-40°   | 4695.8  | 14.9      |
| 40°-50°   | 4849.9  | 15.4      |
| 50°-60°   | 4363.4  | 13.9      |
| 60°-70°   | 3286.9  | 10.4      |
| 70°-80°   | 1984.8  | 6.3       |
| 80°-90°   | 977.1   | 3.1       |
| 90°-100°  | 637.9   | 2.0       |
| 100°-110° | 1271.6  | 4.0       |
| 110°-120° | 996.3   | 3.2       |
| 120°-130° | 484.2   | 1.5       |
| 130°-140° | 246.7   | 0.8       |
| 140°-150° | 140.2   | 0.4       |
| 150°-160° | 78.0    | 0.2       |
| 160°-170° | 36.7    | 0.1       |
| 170°-180° | 11.2    | 0.0       |
| 0°-30°    | 7399.4  | 23.5      |
| 0°-40°    | 12095.2 | 38.4      |
| 0°-60°    | 21308.5 | 67.7      |
| 0°-90°    | 27557.3 | 87.6      |
| 90°-120°  | 2905.8  | 9.2       |
| 90°-150°  | 3776.9  | 12.0      |
| 90°-180°  | 3903.0  | 12.4      |
| 0°-180°   | 31460.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 9514 | 9514  | 9514 | 9514  | 9514 |      |
| 5°   | 9454 | 9480  | 9468 | 9505  | 9493 | 898  |
| 15°  | 9072 | 9116  | 9158 | 9235  | 9244 | 2558 |
| 25°  | 8285 | 8376  | 8494 | 8627  | 8648 | 3811 |
| 35°  | 7083 | 7249  | 7547 | 7775  | 7822 | 4428 |
| 45°  | 5591 | 5873  | 6364 | 6711  | 6783 | 4316 |
| 55°  | 3961 | 4371  | 5034 | 5414  | 5479 | 3551 |
| 65°  | 2417 | 2911  | 3563 | 3740  | 3698 | 2401 |
| 75°  | 1139 | 1635  | 2063 | 2117  | 2096 | 1215 |
| 85°  | 238  | 626   | 1034 | 1176  | 1197 | 274  |
| 90°  | 7    | 285   | 644  | 805   | 836  | 20   |
| 95°  | 63   | 269   | 580  | 738   | 773  | 202  |
| 105° | 1247 | 1324  | 1411 | 1194  | 1125 | 1186 |
| 115° | 877  | 900   | 1012 | 1071  | 1072 | 887  |
| 125° | 441  | 463   | 543  | 577   | 576  | 414  |
| 135° | 266  | 277   | 311  | 349   | 359  | 211  |
| 145° | 205  | 207   | 213  | 234   | 242  | 130  |
| 155° | 170  | 175   | 175  | 174   | 177  | 76   |
| 165° | 126  | 128   | 128  | 129   | 130  | 36   |
| 175° | 115  | 115   | 116  | 116   | 117  | 11   |
| 180° | 113  | 113   | 113  | 113   | 113  |      |



TEST NUMBER: P828092

CATALOG NUMBER: OHBL-36HE-MFL-UNV-L935-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 9514.4 | 9514.4 | 9514.4 | 9514.4 | 9514.4 |
| 2.5°   | 9486.5 | 9509.8 | 9495.8 | 9526.1 | 9523.8 |
| 5°     | 9453.8 | 9479.5 | 9467.8 | 9505.1 | 9493.4 |
| 7.5°   | 9398.0 | 9425.9 | 9423.6 | 9465.5 | 9460.8 |
| 10°    | 9316.5 | 9346.8 | 9356.1 | 9411.9 | 9411.9 |
| 12.5°  | 9204.7 | 9244.3 | 9267.6 | 9335.1 | 9337.4 |
| 15°    | 9072.0 | 9116.2 | 9158.2 | 9235.0 | 9244.3 |
| 17.5°  | 8911.3 | 8967.2 | 9025.4 | 9113.9 | 9125.5 |
| 20°    | 8729.7 | 8792.6 | 8871.8 | 8964.8 | 8978.8 |
| 22.5°  | 8520.1 | 8594.7 | 8697.1 | 8806.5 | 8822.8 |
| 25°    | 8284.9 | 8375.8 | 8494.5 | 8627.3 | 8648.2 |
| 27.5°  | 8017.2 | 8121.9 | 8282.6 | 8431.7 | 8450.2 |
| 30°    | 7726.1 | 7849.5 | 8049.8 | 8226.8 | 8257.0 |
| 32.5°  | 7418.8 | 7560.8 | 7807.6 | 8005.5 | 8047.4 |
| 35°    | 7083.4 | 7248.8 | 7546.8 | 7775.0 | 7821.6 |
| 37.5°  | 6752.8 | 6934.4 | 7272.0 | 7532.8 | 7588.7 |
| 40°    | 6366.2 | 6592.1 | 6978.7 | 7267.3 | 7334.9 |
| 42.5°  | 6003.0 | 6247.5 | 6685.2 | 6999.6 | 7064.8 |
| 45°    | 5590.8 | 5872.6 | 6363.9 | 6710.8 | 6783.0 |
| 47.5°  | 5204.3 | 5509.3 | 6054.2 | 6412.8 | 6487.3 |
| 50°    | 4796.8 | 5132.1 | 5723.6 | 6098.4 | 6175.2 |
| 52.5°  | 4389.3 | 4750.2 | 5381.2 | 5770.1 | 5842.3 |
| 55°    | 3960.8 | 4370.7 | 5034.3 | 5413.8 | 5479.1 |
| 57.5°  | 3562.7 | 3995.8 | 4678.0 | 5038.9 | 5078.5 |
| 60°    | 3169.2 | 3618.6 | 4314.8 | 4631.5 | 4645.4 |
| 62.5°  | 2784.9 | 3257.6 | 3942.2 | 4193.7 | 4175.1 |
| 65°    | 2417.0 | 2910.7 | 3562.7 | 3739.7 | 3697.8 |
| 67.5°  | 2063.1 | 2573.0 | 3173.8 | 3287.9 | 3232.0 |
| 70°    | 1727.8 | 2244.8 | 2796.6 | 2854.8 | 2803.6 |
| 72.5°  | 1432.1 | 1932.7 | 2414.7 | 2463.6 | 2426.3 |
| 75°    | 1138.7 | 1634.7 | 2063.1 | 2116.7 | 2095.7 |
| 77.5°  | 863.9  | 1345.9 | 1739.4 | 1809.2 | 1813.9 |
| 80°    | 621.8  | 1082.8 | 1457.7 | 1567.1 | 1581.1 |
| 82.5°  | 409.8  | 840.6  | 1222.5 | 1362.2 | 1383.2 |
| 85°    | 237.5  | 626.4  | 1033.8 | 1175.9 | 1196.8 |
| 87.5°  | 102.4  | 451.8  | 831.2  | 959.3  | 985.0  |
| 90°    | 6.7    | 285.3  | 643.9  | 805.2  | 836.2  |
| 92.5°  | 27.8   | 252.6  | 571.8  | 727.3  | 757.9  |
| 95°    | 63.3   | 268.7  | 579.9  | 738.5  | 772.8  |
| 97.5°  | 325.7  | 474.8  | 675.1  | 838.8  | 879.8  |
| 100°   | 683.2  | 807.8  | 865.5  | 967.4  | 1002.8 |
| 102.5° | 1062.3 | 1169.6 | 1131.1 | 1072.2 | 1063.5 |
| 105°   | 1247.2 | 1323.8 | 1411.2 | 1194.5 | 1125.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 1027.0 | 1073.7 | 1178.7 | 1235.8 | 1218.5 |
| 115°   | 877.0  | 900.2  | 1011.7 | 1071.1 | 1072.1 |
| 117.5° | 755.1  | 772.4  | 872.3  | 920.1  | 917.9  |
| 120°   | 638.4  | 657.1  | 749.2  | 784.2  | 786.8  |
| 122.5° | 532.6  | 555.9  | 638.6  | 674.5  | 670.7  |
| 125°   | 441.2  | 463.1  | 543.0  | 577.4  | 576.0  |
| 127.5° | 378.8  | 388.4  | 460.7  | 498.4  | 505.4  |
| 130°   | 328.0  | 337.0  | 397.3  | 438.6  | 443.9  |
| 132.5° | 293.0  | 304.3  | 349.9  | 389.7  | 401.4  |
| 135°   | 266.3  | 276.8  | 311.4  | 348.8  | 359.0  |
| 137.5° | 244.7  | 254.3  | 277.9  | 314.7  | 324.8  |
| 140°   | 228.7  | 235.9  | 252.6  | 283.9  | 293.2  |
| 142.5° | 215.9  | 220.9  | 229.8  | 257.9  | 264.9  |
| 145°   | 204.9  | 206.8  | 213.2  | 234.4  | 242.2  |
| 147.5° | 194.9  | 198.2  | 202.4  | 212.6  | 220.4  |
| 150°   | 185.8  | 190.6  | 191.6  | 195.6  | 203.4  |
| 152.5° | 177.4  | 182.2  | 183.2  | 181.8  | 187.2  |
| 155°   | 169.9  | 174.8  | 174.9  | 174.2  | 176.6  |
| 157.5° | 140.0  | 142.5  | 145.0  | 145.8  | 145.8  |
| 160°   | 135.0  | 136.7  | 139.2  | 139.2  | 140.0  |
| 162.5° | 130.0  | 131.7  | 133.3  | 134.2  | 135.0  |
| 165°   | 125.8  | 127.5  | 128.3  | 129.2  | 130.0  |
| 167.5° | 122.5  | 123.3  | 124.2  | 125.0  | 125.0  |
| 170°   | 119.2  | 120.0  | 120.8  | 120.8  | 121.7  |
| 172.5° | 116.7  | 117.5  | 118.3  | 118.3  | 118.3  |
| 175°   | 115.0  | 115.0  | 115.8  | 115.8  | 116.7  |
| 177.5° | 113.3  | 114.2  | 114.2  | 114.2  | 115.0  |
| 180°   | 113.3  | 113.3  | 113.3  | 113.3  | 113.3  |



Report Generated By 670246072 / DESKTOP-50001EG







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







|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| 107.5° | 1258.8 | 1328.8 | 1440.8 | 1368.1 | 1234.7 |
| 110°   | 1163.0 | 1232.0 | 1338.6 | 1356.2 | 1302.1 |



(END OF REPORT)