

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: P730872

Luminaire Tested: **HBLED-LD5-30HE-W-WG-UNV-L840**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-W-WG-UNV-L840  
Description: 30000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29784.0 lumens  
Efficiency: N/A  
Efficacy: 166.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

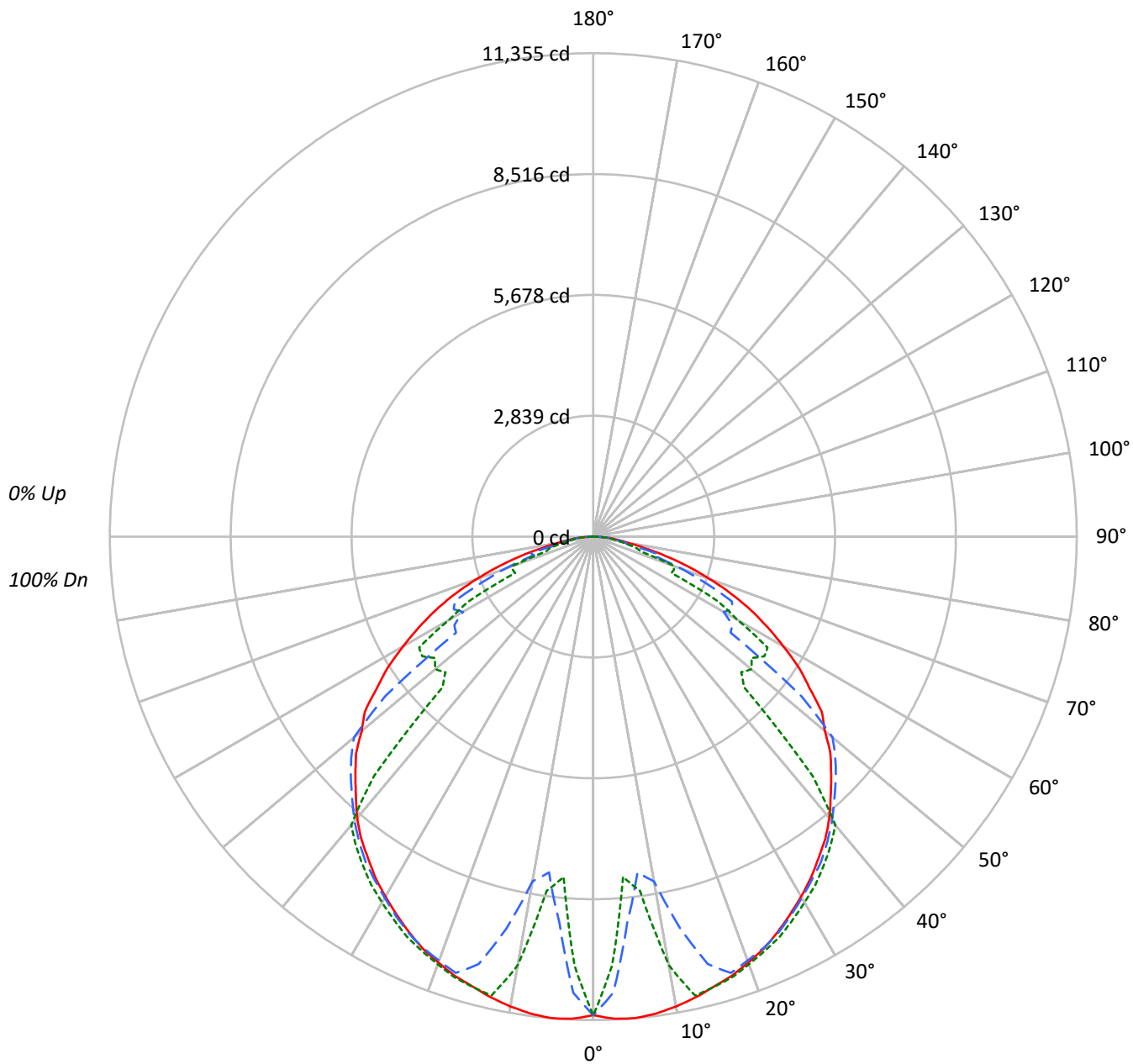
Input Watts (W): 179  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  |
| 8   | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18152 | 18152 | 18152 |
| 5°  | 18404 | 14785 | 13003 |
| 10° | 18373 | 13484 | 16770 |
| 15° | 18291 | 17379 | 18307 |
| 20° | 18291 | 18208 | 18370 |
| 25° | 18259 | 18299 | 18467 |
| 30° | 18206 | 18266 | 18501 |
| 35° | 18177 | 18378 | 18593 |
| 40° | 18179 | 18377 | 18641 |
| 45° | 18037 | 18390 | 11428 |
| 50° | 17832 | 18427 | 12180 |
| 55° | 17457 | 11080 | 13804 |
| 60° | 16652 | 11421 | 12641 |
| 65° | 15603 | 13713 | 7734  |
| 70° | 13777 | 10389 | 9481  |
| 75° | 10978 | 9444  | 6575  |
| 80° | 7562  | 6825  | 5650  |
| 85° | 7245  | 6300  | 5976  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 899.0   | 3.0       |
| 10°-20°   | 2816.5  | 9.5       |
| 20°-30°   | 4633.7  | 15.6      |
| 30°-40°   | 5826.2  | 19.6      |
| 40°-50°   | 5714.1  | 19.2      |
| 50°-60°   | 4734.4  | 15.9      |
| 60°-70°   | 3339.3  | 11.2      |
| 70°-80°   | 1456.9  | 4.9       |
| 80°-90°   | 364.0   | 1.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 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°    | 8349.1  | 28.0      |
| 0°-40°    | 14175.4 | 47.6      |
| 0°-60°    | 24623.8 | 82.7      |
| 0°-90°    | 29784.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 29784.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 11242 | 11242 | 11242 | 11242 | 11242 |      |
| 5°  | 11355 | 10569 | 9122  | 8272  | 8023  | ###  |
| 15° | 10943 | 7600  | 10397 | 10986 | 10952 | 3094 |
| 25° | 10249 | 9378  | 10272 | 10340 | 10366 | 4724 |
| 35° | 9222  | 9217  | 9324  | 9386  | 9433  | 5778 |
| 45° | 7899  | 7923  | 8054  | 7133  | 5005  | 6097 |
| 55° | 6201  | 6404  | 3936  | 4475  | 4904  | 5548 |
| 65° | 4084  | 4325  | 3589  | 2761  | 2024  | 4016 |
| 75° | 1760  | 1725  | 1514  | 989   | 1054  | 1887 |
| 85° | 391   | 348   | 340   | 325   | 323   | 406  |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P730872

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 11242.5 | 11242.5 | 11242.5 | 11242.5 | 11242.5 |
| 2.5°  | 11335.3 | 11100.0 | 10726.3 | 10255.7 | 10089.1 |
| 5°    | 11355.4 | 10568.9 | 9122.5  | 8271.6  | 8022.8  |
| 7.5°  | 11297.7 | 9605.1  | 7953.0  | 8131.7  | 8395.2  |
| 10°   | 11206.2 | 8758.2  | 8224.6  | 9676.4  | 10228.9 |
| 12.5° | 11089.2 | 8005.4  | 9422.2  | 10930.6 | 11040.8 |
| 15°   | 10942.7 | 7599.5  | 10396.9 | 10985.8 | 10952.1 |
| 17.5° | 10819.0 | 7837.3  | 10746.4 | 10875.5 | 10851.2 |
| 20°   | 10645.6 | 8311.9  | 10597.2 | 10700.7 | 10691.3 |
| 22.5° | 10470.8 | 8873.8  | 10456.0 | 10530.0 | 10530.0 |
| 25°   | 10249.1 | 9378.0  | 10271.9 | 10340.5 | 10366.0 |
| 27.5° | 10005.7 | 9668.2  | 10042.0 | 10098.4 | 10144.1 |
| 30°   | 9765.0  | 9710.0  | 9797.4  | 9870.0  | 9923.7  |
| 32.5° | 9511.0  | 9489.6  | 9558.1  | 9634.7  | 9703.2  |
| 35°   | 9221.9  | 9216.6  | 9324.1  | 9385.9  | 9433.1  |
| 37.5° | 8950.4  | 8931.7  | 9031.1  | 9117.1  | 9153.4  |
| 40°   | 8625.1  | 8625.1  | 8719.2  | 8806.6  | 8844.3  |
| 42.5° | 8254.0  | 8306.6  | 8379.1  | 8469.1  | 7627.6  |
| 45°   | 7899.2  | 7923.4  | 8053.7  | 7133.0  | 5004.9  |
| 47.5° | 7557.7  | 7588.6  | 7712.4  | 4585.4  | 4710.5  |
| 50°   | 7099.3  | 7239.1  | 7335.9  | 4572.1  | 4849.0  |
| 52.5° | 6764.6  | 6825.0  | 6158.3  | 4526.3  | 4682.2  |
| 55°   | 6201.4  | 6404.3  | 3936.1  | 4475.3  | 4904.0  |
| 57.5° | 5720.1  | 5868.0  | 3870.3  | 4585.4  | 4851.6  |
| 60°   | 5156.8  | 5382.7  | 3536.8  | 4424.2  | 3914.6  |
| 62.5° | 4616.3  | 4831.4  | 3692.8  | 3481.8  | 3315.1  |
| 65°   | 4084.0  | 4324.6  | 3589.4  | 2761.2  | 2024.5  |
| 67.5° | 3500.5  | 3276.1  | 2863.4  | 1945.3  | 2047.4  |
| 70°   | 2918.5  | 2288.1  | 2200.7  | 2175.1  | 2008.4  |
| 72.5° | 2320.3  | 1669.6  | 1461.2  | 1632.0  | 1168.2  |
| 75°   | 1759.8  | 1724.8  | 1513.8  | 989.4   | 1054.0  |
| 77.5° | 1220.6  | 1244.8  | 810.6   | 965.2   | 801.2   |
| 80°   | 813.3   | 704.5   | 734.0   | 615.7   | 607.7   |
| 82.5° | 563.3   | 575.3   | 482.6   | 467.8   | 474.6   |
| 85°   | 391.1   | 348.2   | 340.1   | 325.4   | 322.6   |
| 87.5° | 130.3   | 152.0   | 141.2   | 127.7   | 135.8   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)