

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: P730906

Luminaire Tested: **HBLED-LD5-30SE-W-AI-UNV-L750**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730906  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30SE-W-AI-UNV-L750  
Description: 30000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29668.0 lumens  
Efficiency: N/A  
Efficacy: 156.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

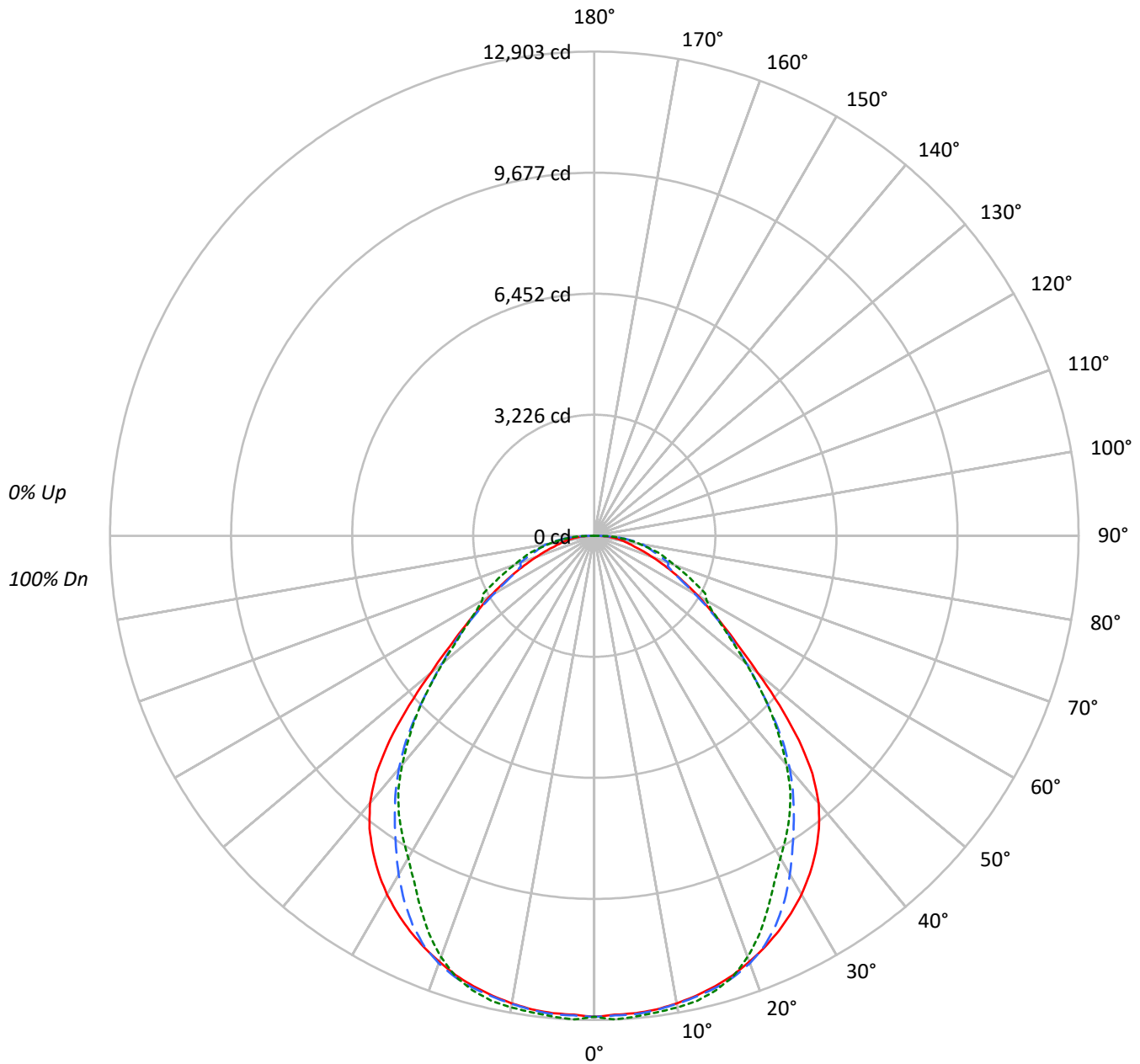
Input Watts (W): 190  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  |    |    |
| 4   | 85  | 74  | 66  | 59  | 83  | 73  | 65  | 59  | 70  | 64  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 55  |    |    |
| 5   | 79  | 67  | 58  | 52  | 77  | 66  | 58  | 52  | 64  | 57  | 51  | 62  | 55  | 51  | 60  | 54  | 50  | 48  |    |    |
| 6   | 73  | 61  | 52  | 46  | 71  | 60  | 52  | 46  | 58  | 51  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 43  |    |    |
| 7   | 68  | 55  | 47  | 41  | 66  | 54  | 47  | 41  | 53  | 46  | 41  | 52  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  | 48  | 41  | 36  | 46  | 41  | 36  | 34  |    |    |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |
| 10  | 56  | 43  | 36  | 31  | 55  | 43  | 35  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 29  |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 20695 | 20695 | 20695 |
| 5°  | 20694 | 20739 | 20840 |
| 10° | 20745 | 20771 | 20924 |
| 15° | 20777 | 20855 | 20957 |
| 20° | 20756 | 20833 | 20524 |
| 25° | 20704 | 20394 | 19507 |
| 30° | 20582 | 19432 | 18484 |
| 35° | 20272 | 18264 | 17883 |
| 40° | 19594 | 17076 | 16795 |
| 45° | 17611 | 15248 | 15192 |
| 50° | 14284 | 13281 | 13190 |
| 55° | 11860 | 11640 | 11636 |
| 60° | 10269 | 9969  | 11145 |
| 65° | 8900  | 8844  | 11234 |
| 70° | 7674  | 9921  | 10709 |
| 75° | 6881  | 10168 | 11164 |
| 80° | 7153  | 11970 | 11200 |
| 85° | 8120  | 13794 | 12799 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1220.4  | 4.1       |
| 10°-20°   | 3524.6  | 11.9      |
| 20°-30°   | 5234.8  | 17.6      |
| 30°-40°   | 5942.9  | 20.0      |
| 40°-50°   | 5312.7  | 17.9      |
| 50°-60°   | 3673.2  | 12.4      |
| 60°-70°   | 2423.8  | 8.2       |
| 70°-80°   | 1635.2  | 5.5       |
| 80°-90°   | 700.4   | 2.4       |
| 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°    | 9979.7  | 33.6      |
| 0°-40°    | 15922.7 | 53.7      |
| 0°-60°    | 24908.6 | 84.0      |
| 0°-90°    | 29668.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 29668.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 12818 | 12818 | 12818 | 12818 | 12818 |      |
| 5°  | 12768 | 12846 | 12796 | 12848 | 12858 | ###  |
| 15° | 12430 | 12490 | 12476 | 12546 | 12537 | 3509 |
| 25° | 11622 | 11732 | 11447 | 11106 | 10950 | 5355 |
| 35° | 10285 | 10068 | 9266  | 9131  | 9073  | 6413 |
| 45° | 7713  | 7060  | 6678  | 6729  | 6653  | 5865 |
| 55° | 4213  | 3846  | 4135  | 4077  | 4134  | 3827 |
| 65° | 2330  | 2068  | 2315  | 2707  | 2941  | 2325 |
| 75° | 1103  | 1388  | 1630  | 1742  | 1790  | 1205 |
| 85° | 438   | 610   | 745   | 749   | 691   | 457  |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 12817.5 | 12817.5 | 12817.5 | 12817.5 | 12817.5 |
| 2.5°  | 12774.0 | 12853.8 | 12794.3 | 12849.5 | 12903.1 |
| 5°    | 12768.1 | 12846.5 | 12795.7 | 12847.9 | 12858.1 |
| 7.5°  | 12731.8 | 12804.4 | 12744.9 | 12795.7 | 12807.3 |
| 10°   | 12653.4 | 12739.1 | 12669.4 | 12747.8 | 12762.4 |
| 12.5° | 12551.9 | 12639.0 | 12577.9 | 12685.3 | 12691.2 |
| 15°   | 12429.9 | 12489.5 | 12476.4 | 12546.0 | 12537.3 |
| 17.5° | 12276.1 | 12344.4 | 12334.2 | 12351.5 | 12310.9 |
| 20°   | 12080.2 | 12157.0 | 12125.1 | 12045.3 | 11945.2 |
| 22.5° | 11869.7 | 11962.6 | 11836.4 | 11634.6 | 11493.8 |
| 25°   | 11621.5 | 11731.8 | 11447.4 | 11106.3 | 10949.5 |
| 27.5° | 11347.2 | 11445.9 | 10972.7 | 10554.8 | 10392.2 |
| 30°   | 11039.5 | 11081.5 | 10422.6 | 10024.9 | 9914.6  |
| 32.5° | 10683.9 | 10623.0 | 9834.8  | 9572.1  | 9508.2  |
| 35°   | 10284.8 | 10068.5 | 9265.9  | 9130.9  | 9072.8  |
| 37.5° | 9834.8  | 9438.6  | 8704.2  | 8641.8  | 8580.7  |
| 40°   | 9296.4  | 8711.4  | 8101.8  | 8061.2  | 7968.3  |
| 42.5° | 8601.2  | 7920.4  | 7432.7  | 7384.8  | 7302.0  |
| 45°   | 7712.9  | 7059.7  | 6678.0  | 6728.8  | 6653.3  |
| 47.5° | 6691.0  | 6196.1  | 5953.8  | 6093.1  | 5953.8  |
| 50°   | 5686.6  | 5354.3  | 5287.5  | 5413.8  | 5251.3  |
| 52.5° | 4863.7  | 4564.7  | 4702.7  | 4724.4  | 4627.2  |
| 55°   | 4213.4  | 3846.3  | 4135.1  | 4077.0  | 4133.6  |
| 57.5° | 3647.4  | 3236.6  | 3592.3  | 3525.5  | 3720.0  |
| 60°   | 3180.1  | 2718.5  | 3087.2  | 3072.7  | 3451.4  |
| 62.5° | 2721.5  | 2352.8  | 2648.8  | 2862.2  | 3328.1  |
| 65°   | 2329.6  | 2068.3  | 2315.0  | 2706.9  | 2940.6  |
| 67.5° | 1953.6  | 1854.9  | 2117.6  | 2335.3  | 2590.8  |
| 70°   | 1625.5  | 1676.4  | 2101.6  | 2061.0  | 2268.5  |
| 72.5° | 1349.8  | 1522.6  | 1854.9  | 1862.2  | 2008.8  |
| 75°   | 1103.1  | 1387.6  | 1630.0  | 1741.7  | 1789.6  |
| 77.5° | 917.3   | 1258.4  | 1471.8  | 1511.0  | 1464.5  |
| 80°   | 769.3   | 1108.8  | 1287.4  | 1270.0  | 1204.6  |
| 82.5° | 621.1   | 840.4   | 1014.6  | 1030.6  | 953.6   |
| 85°   | 438.3   | 609.7   | 744.6   | 749.0   | 690.9   |
| 87.5° | 235.1   | 376.0   | 451.4   | 464.5   | 429.6   |
| 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)