

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: P730288

Luminaire Tested: **HBLED-LD5-12HE-W-UNV-L750**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12HE-W-UNV-L750  
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13380.0 lumens  
Efficiency: N/A  
Efficacy: 184.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

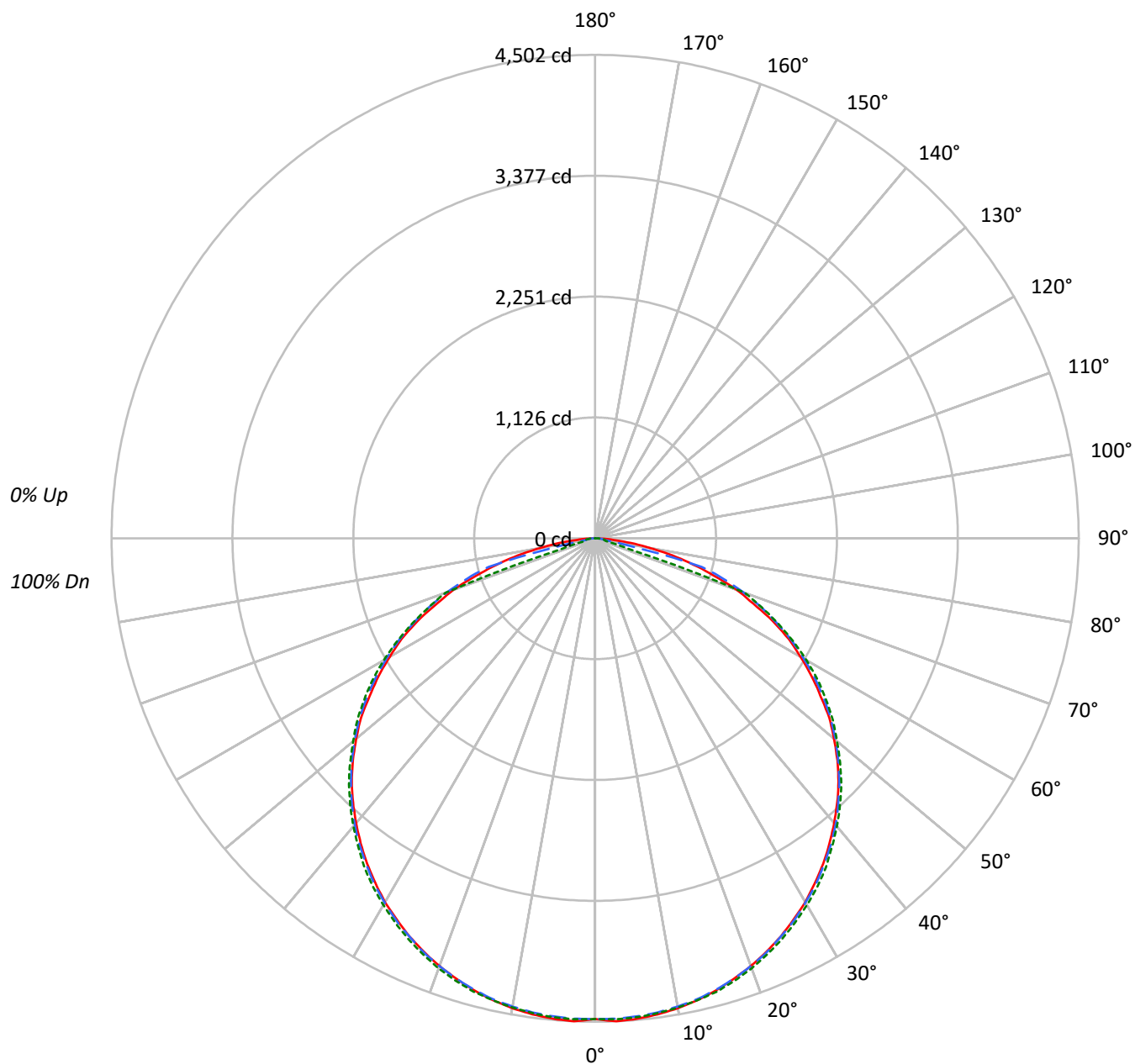
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 64  | 75  | 69  | 63  | 72  | 67  | 62  | 70  | 65  | 61  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 45  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 25  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7229 | 7229 | 7229 |
| 5°  | 7281 | 7244 | 7257 |
| 10° | 7285 | 7259 | 7273 |
| 15° | 7284 | 7274 | 7307 |
| 20° | 7283 | 7285 | 7323 |
| 25° | 7287 | 7290 | 7335 |
| 30° | 7295 | 7304 | 7352 |
| 35° | 7294 | 7317 | 7378 |
| 40° | 7295 | 7341 | 7381 |
| 45° | 7315 | 7342 | 7402 |
| 50° | 7293 | 7336 | 7383 |
| 55° | 7213 | 7314 | 7393 |
| 60° | 7131 | 7247 | 7337 |
| 65° | 6973 | 7118 | 7171 |
| 70° | 6620 | 6903 | 6987 |
| 75° | 5905 | 6402 | 772  |
| 80° | 4749 | 798  | 844  |
| 85° | 3160 | 1036 | 1054 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 425.2   | 3.2       |
| 10°-20°   | 1228.8  | 9.2       |
| 20°-30°   | 1887.9  | 14.1      |
| 30°-40°   | 2324.1  | 17.4      |
| 40°-50°   | 2477.7  | 18.5      |
| 50°-60°   | 2316.2  | 17.3      |
| 60°-70°   | 1833.5  | 13.7      |
| 70°-80°   | 780.1   | 5.8       |
| 80°-90°   | 106.5   | 0.8       |
| 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°    | 3541.9  | 26.5      |
| 0°-40°    | 5866.0  | 43.8      |
| 0°-60°    | 10659.9 | 79.7      |
| 0°-90°    | 13380.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13380.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4477 | 4477  | 4477 | 4477  | 4477 |      |
| 5°  | 4492 | 4472  | 4469 | 4451  | 4477 | 427  |
| 15° | 4358 | 4350  | 4352 | 4340  | 4372 | 1230 |
| 25° | 4090 | 4085  | 4092 | 4090  | 4117 | 1886 |
| 35° | 3700 | 3694  | 3712 | 3725  | 3743 | 2315 |
| 45° | 3204 | 3186  | 3216 | 3229  | 3242 | 2469 |
| 55° | 2562 | 2570  | 2598 | 2607  | 2626 | 2294 |
| 65° | 1825 | 1841  | 1863 | 1877  | 1877 | 1796 |
| 75° | 946  | 987   | 1026 | 168   | 124  | 1001 |
| 85° | 171  | 51    | 56   | 58    | 57   | 222  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4477.3 | 4477.3 | 4477.3 | 4477.3 | 4477.3 |
| 2.5°  | 4502.3 | 4481.3 | 4477.3 | 4459.4 | 4483.3 |
| 5°    | 4492.3 | 4472.3 | 4469.4 | 4451.4 | 4477.3 |
| 7.5°  | 4471.3 | 4455.4 | 4453.4 | 4434.4 | 4460.4 |
| 10°   | 4443.4 | 4428.5 | 4427.5 | 4410.5 | 4436.4 |
| 12.5° | 4405.5 | 4392.6 | 4396.5 | 4379.6 | 4405.5 |
| 15°   | 4357.6 | 4349.7 | 4351.7 | 4339.7 | 4371.6 |
| 17.5° | 4299.8 | 4295.8 | 4299.8 | 4290.8 | 4319.7 |
| 20°   | 4239.0 | 4234.0 | 4239.9 | 4235.0 | 4261.9 |
| 22.5° | 4168.1 | 4162.2 | 4174.1 | 4167.1 | 4192.1 |
| 25°   | 4090.3 | 4085.4 | 4092.3 | 4090.3 | 4117.3 |
| 27.5° | 4001.6 | 3996.6 | 4011.5 | 4012.5 | 4033.5 |
| 30°   | 3912.8 | 3905.8 | 3917.8 | 3922.8 | 3943.7 |
| 32.5° | 3807.1 | 3805.1 | 3823.0 | 3827.0 | 3849.0 |
| 35°   | 3700.4 | 3694.4 | 3712.3 | 3725.3 | 3743.2 |
| 37.5° | 3583.7 | 3582.7 | 3601.6 | 3612.6 | 3621.6 |
| 40°   | 3461.0 | 3456.0 | 3482.9 | 3493.9 | 3501.9 |
| 42.5° | 3336.3 | 3325.3 | 3351.3 | 3365.2 | 3374.2 |
| 45°   | 3203.7 | 3185.7 | 3215.6 | 3228.6 | 3241.6 |
| 47.5° | 3058.0 | 3042.1 | 3071.0 | 3085.0 | 3093.9 |
| 50°   | 2903.4 | 2888.5 | 2920.4 | 2932.4 | 2939.3 |
| 52.5° | 2747.8 | 2732.9 | 2766.8 | 2776.8 | 2793.7 |
| 55°   | 2562.3 | 2570.3 | 2598.2 | 2607.2 | 2626.2 |
| 57.5° | 2390.8 | 2397.8 | 2424.7 | 2435.7 | 2457.6 |
| 60°   | 2208.2 | 2219.2 | 2244.2 | 2255.1 | 2272.1 |
| 62.5° | 2031.7 | 2032.7 | 2062.6 | 2067.6 | 2080.6 |
| 65°   | 1825.2 | 1841.2 | 1863.1 | 1877.1 | 1877.1 |
| 67.5° | 1594.8 | 1633.7 | 1671.6 | 1668.7 | 1676.6 |
| 70°   | 1402.3 | 1417.3 | 1462.2 | 1469.2 | 1480.1 |
| 72.5° | 1161.0 | 1199.9 | 1249.7 | 933.6  | 317.2  |
| 75°   | 946.5  | 987.4  | 1026.3 | 167.6  | 123.7  |
| 77.5° | 735.1  | 767.0  | 341.1  | 95.8   | 93.8   |
| 80°   | 510.7  | 561.5  | 85.8   | 87.8   | 90.8   |
| 82.5° | 336.1  | 274.3  | 70.8   | 77.8   | 78.8   |
| 85°   | 170.6  | 50.9   | 55.9   | 57.8   | 56.9   |
| 87.5° | 55.9   | 30.9   | 31.9   | 32.9   | 33.9   |
| 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)