

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: P730852

Luminaire Tested: **HBLED-LD5-30HE-W-CLI-UNV-L750**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-W-CLI-UNV-L750  
Description: 30000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS  
INSERT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31345.0 lumens  
Efficiency: N/A  
Efficacy: 175.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

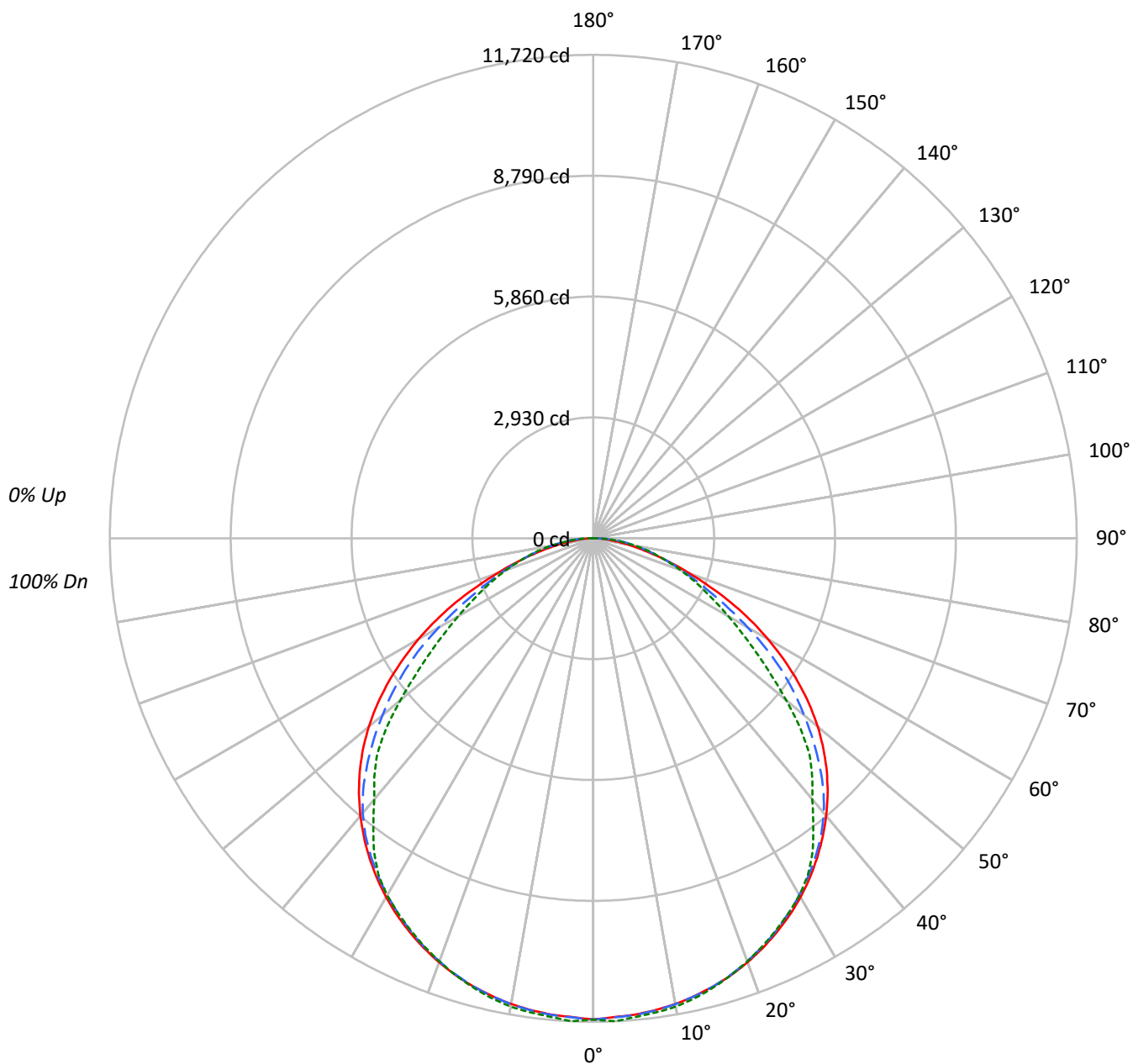
Input Watts (W): 179  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P730852

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750

### Luminous Intensity Polar Plot





TEST NUMBER: P730852

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750

**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 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 84  | 72  | 64  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    |    |
| 5   | 77  | 65  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 58  | 52  | 47  | 45  |    |    |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |    |    |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 31  |    |    |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 35  | 30  | 28  |    |    |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18837 | 18837 | 18837 |
| 5°  | 18786 | 18800 | 18884 |
| 10° | 18797 | 18806 | 18905 |
| 15° | 18799 | 18797 | 18841 |
| 20° | 18795 | 18751 | 18756 |
| 25° | 18766 | 18696 | 18674 |
| 30° | 18735 | 18623 | 18634 |
| 35° | 18648 | 18532 | 18270 |
| 40° | 18515 | 18326 | 17402 |
| 45° | 18280 | 17695 | 16921 |
| 50° | 17840 | 16753 | 15325 |
| 55° | 17028 | 15668 | 13551 |
| 60° | 15802 | 13979 | 12220 |
| 65° | 14046 | 12104 | 11237 |
| 70° | 11656 | 10817 | 10592 |
| 75° | 9427  | 9900  | 10022 |
| 80° | 7489  | 9468  | 9429  |
| 85° | 5863  | 10170 | 9704  |



TEST NUMBER: P730852

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1106.4  | 3.5       |
| 10°-20°   | 3182.5  | 10.2      |
| 20°-30°   | 4852.8  | 15.5      |
| 30°-40°   | 5871.1  | 18.7      |
| 40°-50°   | 5946.9  | 19.0      |
| 50°-60°   | 4915.3  | 15.7      |
| 60°-70°   | 3246.4  | 10.4      |
| 70°-80°   | 1692.8  | 5.4       |
| 80°-90°   | 530.7   | 1.7       |
| 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°    | 9141.7  | 29.2      |
| 0°-40°    | 15012.8 | 47.9      |
| 0°-60°    | 25875.0 | 82.5      |
| 0°-90°    | 31345.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 31345.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 11667 | 11667 | 11667 | 11667 | 11667 |      |
| 5°  | 11591 | 11661 | 11600 | 11650 | 11651 | ###  |
| 15° | 11247 | 11304 | 11245 | 11280 | 11272 | 3176 |
| 25° | 10534 | 10576 | 10495 | 10521 | 10482 | 4857 |
| 35° | 9461  | 9474  | 9402  | 9389  | 9269  | 5918 |
| 45° | 8006  | 7985  | 7749  | 7508  | 7410  | 6164 |
| 55° | 6049  | 5959  | 5566  | 5025  | 4814  | 5392 |
| 65° | 3676  | 3570  | 3168  | 2962  | 2941  | 3631 |
| 75° | 1511  | 1538  | 1587  | 1608  | 1606  | 1646 |
| 85° | 316   | 408   | 549   | 545   | 524   | 384  |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P730852

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     |
|-------|---------|---------|---------|---------|---------|
| 0°    | 11666.7 | 11666.7 | 11666.7 | 11666.7 | 11666.7 |
| 2.5°  | 11617.8 | 11686.4 | 11628.9 | 11679.4 | 11720.0 |
| 5°    | 11591.1 | 11661.2 | 11599.5 | 11650.0 | 11651.4 |
| 7.5°  | 11539.4 | 11609.4 | 11546.3 | 11596.7 | 11595.3 |
| 10°   | 11465.1 | 11531.0 | 11470.7 | 11531.0 | 11531.0 |
| 12.5° | 11364.3 | 11428.7 | 11369.9 | 11425.9 | 11417.4 |
| 15°   | 11246.7 | 11304.0 | 11245.3 | 11280.3 | 11271.8 |
| 17.5° | 11108.0 | 11159.8 | 11093.9 | 11123.3 | 11106.6 |
| 20°   | 10938.5 | 10986.1 | 10913.3 | 10951.1 | 10916.0 |
| 22.5° | 10747.9 | 10792.8 | 10718.6 | 10746.7 | 10707.3 |
| 25°   | 10533.8 | 10575.8 | 10494.6 | 10521.1 | 10481.9 |
| 27.5° | 10302.6 | 10340.4 | 10249.3 | 10281.7 | 10250.7 |
| 30°   | 10049.1 | 10067.4 | 9988.9  | 10031.0 | 9994.6  |
| 32.5° | 9766.2  | 9777.4  | 9708.7  | 9746.5  | 9685.0  |
| 35°   | 9460.8  | 9473.5  | 9402.1  | 9389.4  | 9269.0  |
| 37.5° | 9134.5  | 9140.1  | 9073.0  | 8959.4  | 8760.6  |
| 40°   | 8784.5  | 8781.7  | 8694.8  | 8432.9  | 8256.4  |
| 42.5° | 8410.4  | 8409.1  | 8256.4  | 7958.0  | 7857.3  |
| 45°   | 8005.7  | 7984.7  | 7749.3  | 7508.5  | 7410.4  |
| 47.5° | 7571.6  | 7549.1  | 7220.0  | 7028.1  | 6805.4  |
| 50°   | 7102.3  | 7063.1  | 6669.5  | 6407.6  | 6100.9  |
| 52.5° | 6596.7  | 6536.4  | 6135.9  | 5712.9  | 5423.0  |
| 55°   | 6049.1  | 5959.4  | 5565.9  | 5025.3  | 4813.8  |
| 57.5° | 5479.1  | 5346.0  | 4963.6  | 4437.1  | 4264.8  |
| 60°   | 4893.6  | 4745.1  | 4329.1  | 3896.4  | 3784.3  |
| 62.5° | 4291.3  | 4144.3  | 3719.9  | 3393.6  | 3331.9  |
| 65°   | 3676.5  | 3570.0  | 3168.1  | 2962.2  | 2941.3  |
| 67.5° | 3046.2  | 3008.4  | 2701.7  | 2596.7  | 2588.3  |
| 70°   | 2469.2  | 2462.2  | 2291.3  | 2238.1  | 2243.7  |
| 72.5° | 1973.4  | 1965.0  | 1939.9  | 1913.2  | 1914.6  |
| 75°   | 1511.2  | 1537.8  | 1586.9  | 1607.8  | 1606.5  |
| 77.5° | 1127.5  | 1182.1  | 1285.7  | 1327.7  | 1320.7  |
| 80°   | 805.4   | 886.6   | 1018.3  | 1057.5  | 1014.1  |
| 82.5° | 536.4   | 621.8   | 777.3   | 782.9   | 747.9   |
| 85°   | 316.5   | 407.5   | 549.0   | 544.8   | 523.8   |
| 87.5° | 156.8   | 245.1   | 329.1   | 315.1   | 301.2   |
| 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)