

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: P730265

Luminaire Tested: **HBLED-LD5-12HE-W-CL-UNV-L835**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12HE-W-CL-UNV-L835  
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS  
& DOOR FRAME  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10935.0 lumens  
Efficiency: N/A  
Efficacy: 150.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

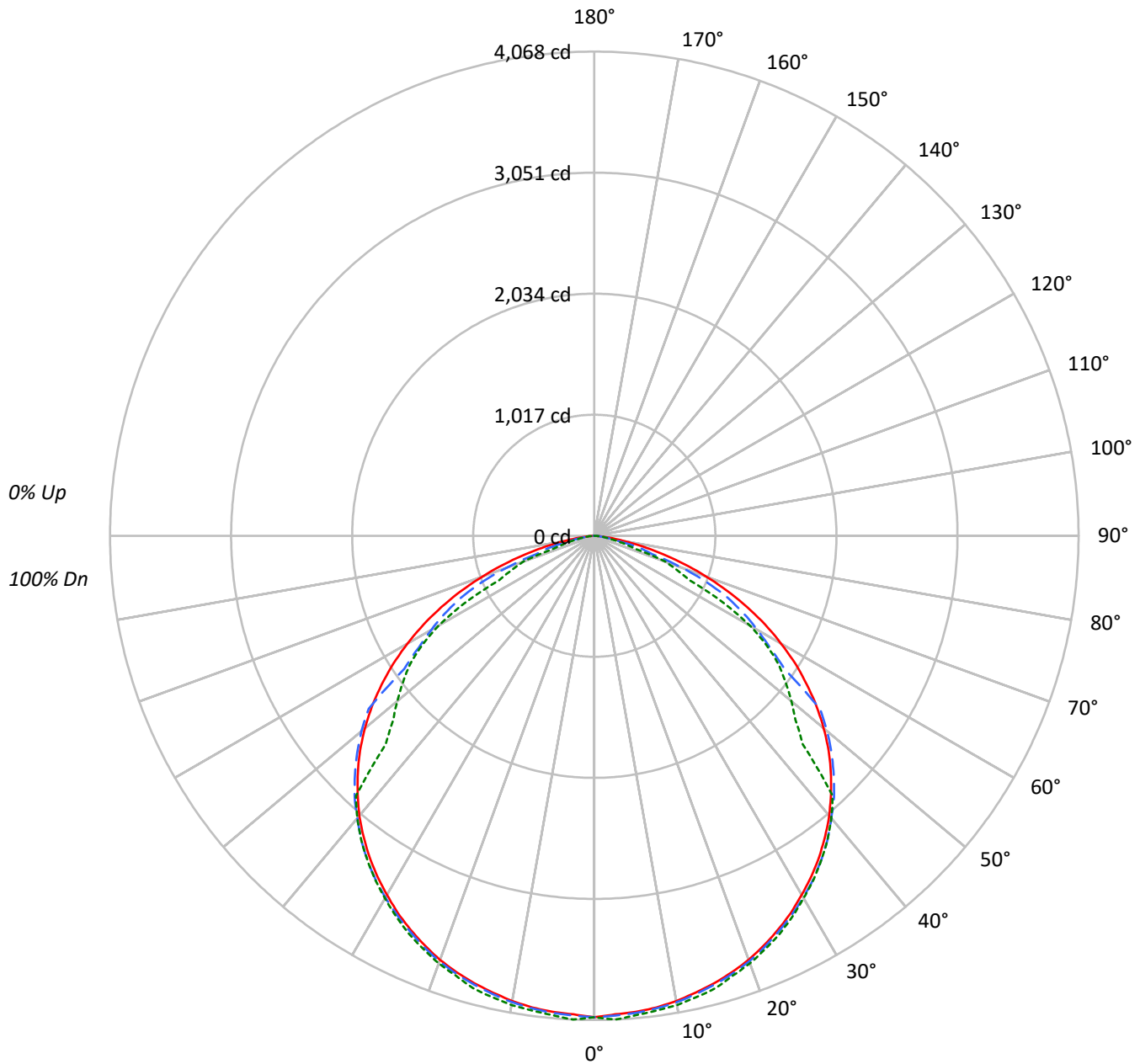
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P730265

CATALOG NUMBER: HBLED-LD5-12HE-W-CL-UNV-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P730265

CATALOG NUMBER: HBLED-LD5-12HE-W-CL-UNV-L835

**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   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 75  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 29  |    |    |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6531 | 6531 | 6531 |
| 5°  | 6507 | 6521 | 6553 |
| 10° | 6506 | 6525 | 6563 |
| 15° | 6506 | 6526 | 6578 |
| 20° | 6514 | 6538 | 6569 |
| 25° | 6507 | 6531 | 6571 |
| 30° | 6494 | 6542 | 6557 |
| 35° | 6491 | 6550 | 6555 |
| 40° | 6471 | 6528 | 6528 |
| 45° | 6415 | 6493 | 5658 |
| 50° | 6316 | 6412 | 5428 |
| 55° | 6137 | 5488 | 5332 |
| 60° | 5849 | 5102 | 4871 |
| 65° | 5409 | 4736 | 3373 |
| 70° | 4710 | 3685 | 3006 |
| 75° | 3721 | 2473 | 1616 |
| 80° | 2395 | 1181 | 1007 |
| 85° | 986  | 721  | 793  |



TEST NUMBER: P730265

CATALOG NUMBER: HBLED-LD5-12HE-W-CL-UNV-L835

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 383.7   | 3.5       |
| 10°-20°   | 1105.9  | 10.1      |
| 20°-30°   | 1695.5  | 15.5      |
| 30°-40°   | 2078.1  | 19.0      |
| 40°-50°   | 2136.5  | 19.5      |
| 50°-60°   | 1823.4  | 16.7      |
| 60°-70°   | 1205.5  | 11.0      |
| 70°-80°   | 446.6   | 4.1       |
| 80°-90°   | 59.7    | 0.5       |
| 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°    | 3185.1  | 29.1      |
| 0°-40°    | 5263.3  | 48.1      |
| 0°-60°    | 9223.2  | 84.3      |
| 0°-90°    | 10935.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10935.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4045 | 4045  | 4045 | 4045  | 4045 |      |
| 5°  | 4015 | 4043  | 4024 | 4039  | 4043 | 382  |
| 15° | 3892 | 3916  | 3904 | 3934  | 3936 | 1099 |
| 25° | 3652 | 3672  | 3666 | 3699  | 3688 | 1684 |
| 35° | 3293 | 3316  | 3323 | 3344  | 3326 | 2060 |
| 45° | 2810 | 2838  | 2844 | 2839  | 2478 | 2165 |
| 55° | 2180 | 2220  | 1950 | 1893  | 1894 | 1945 |
| 65° | 1416 | 1428  | 1240 | 1020  | 883  | 1396 |
| 75° | 596  | 522   | 396  | 266   | 259  | 640  |
| 85° | 53   | 38    | 39   | 42    | 43   | 88   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P730265

CATALOG NUMBER: HBLED-LD5-12HE-W-CL-UNV-L835

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4044.8 | 4044.8 | 4044.8 | 4044.8 | 4044.8 |
| 2.5°  | 4025.1 | 4050.2 | 4035.4 | 4054.2 | 4068.4 |
| 5°    | 4014.8 | 4042.8 | 4023.6 | 4039.4 | 4043.3 |
| 7.5°  | 3997.0 | 4023.1 | 4005.4 | 4026.1 | 4023.1 |
| 10°   | 3968.5 | 3992.1 | 3979.8 | 4001.5 | 4002.9 |
| 12.5° | 3932.0 | 3955.7 | 3944.3 | 3970.9 | 3970.4 |
| 15°   | 3892.1 | 3915.8 | 3903.9 | 3933.5 | 3935.5 |
| 17.5° | 3845.3 | 3867.0 | 3858.1 | 3885.3 | 3874.4 |
| 20°   | 3791.2 | 3809.9 | 3805.4 | 3831.1 | 3823.2 |
| 22.5° | 3724.7 | 3743.9 | 3739.5 | 3769.0 | 3757.2 |
| 25°   | 3652.3 | 3671.5 | 3666.1 | 3699.1 | 3688.3 |
| 27.5° | 3574.0 | 3592.2 | 3591.7 | 3622.8 | 3606.0 |
| 30°   | 3483.4 | 3507.5 | 3509.0 | 3536.6 | 3516.9 |
| 32.5° | 3393.8 | 3416.4 | 3422.8 | 3443.0 | 3426.3 |
| 35°   | 3293.3 | 3315.9 | 3323.3 | 3344.0 | 3325.8 |
| 37.5° | 3184.9 | 3204.1 | 3217.4 | 3232.7 | 3218.4 |
| 40°   | 3070.2 | 3087.4 | 3097.3 | 3116.0 | 3097.3 |
| 42.5° | 2942.1 | 2966.8 | 2980.6 | 2993.8 | 2963.3 |
| 45°   | 2809.6 | 2837.7 | 2843.6 | 2839.2 | 2477.7 |
| 47.5° | 2669.3 | 2699.8 | 2703.3 | 2357.6 | 2291.1 |
| 50°   | 2514.6 | 2553.1 | 2552.6 | 2178.7 | 2161.1 |
| 52.5° | 2353.6 | 2390.6 | 2389.1 | 2038.9 | 2027.1 |
| 55°   | 2180.2 | 2220.1 | 1949.7 | 1893.1 | 1894.1 |
| 57.5° | 2003.4 | 2032.0 | 1749.3 | 1751.8 | 1719.3 |
| 60°   | 1811.4 | 1838.5 | 1579.9 | 1564.6 | 1508.5 |
| 62.5° | 1618.8 | 1630.1 | 1415.9 | 1341.5 | 1234.7 |
| 65°   | 1415.9 | 1427.7 | 1239.6 | 1019.5 | 883.0  |
| 67.5° | 1207.6 | 1219.4 | 1028.8 | 758.4  | 748.1  |
| 70°   | 997.8  | 901.2  | 780.6  | 631.9  | 636.8  |
| 72.5° | 790.9  | 692.4  | 510.2  | 489.5  | 353.6  |
| 75°   | 596.4  | 522.5  | 396.5  | 266.4  | 259.0  |
| 77.5° | 415.2  | 360.0  | 212.3  | 181.7  | 169.9  |
| 80°   | 257.6  | 180.7  | 127.0  | 112.8  | 108.3  |
| 82.5° | 130.5  | 103.9  | 69.0   | 69.0   | 69.0   |
| 85°   | 53.2   | 37.9   | 38.9   | 42.3   | 42.8   |
| 87.5° | 11.3   | 15.3   | 18.7   | 19.2   | 18.7   |
| 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)