

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: P730611

Luminaire Tested: **HBLED-LD5-18SE-W-A-UNV-L740**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-A-UNV-L740  
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17250.0 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

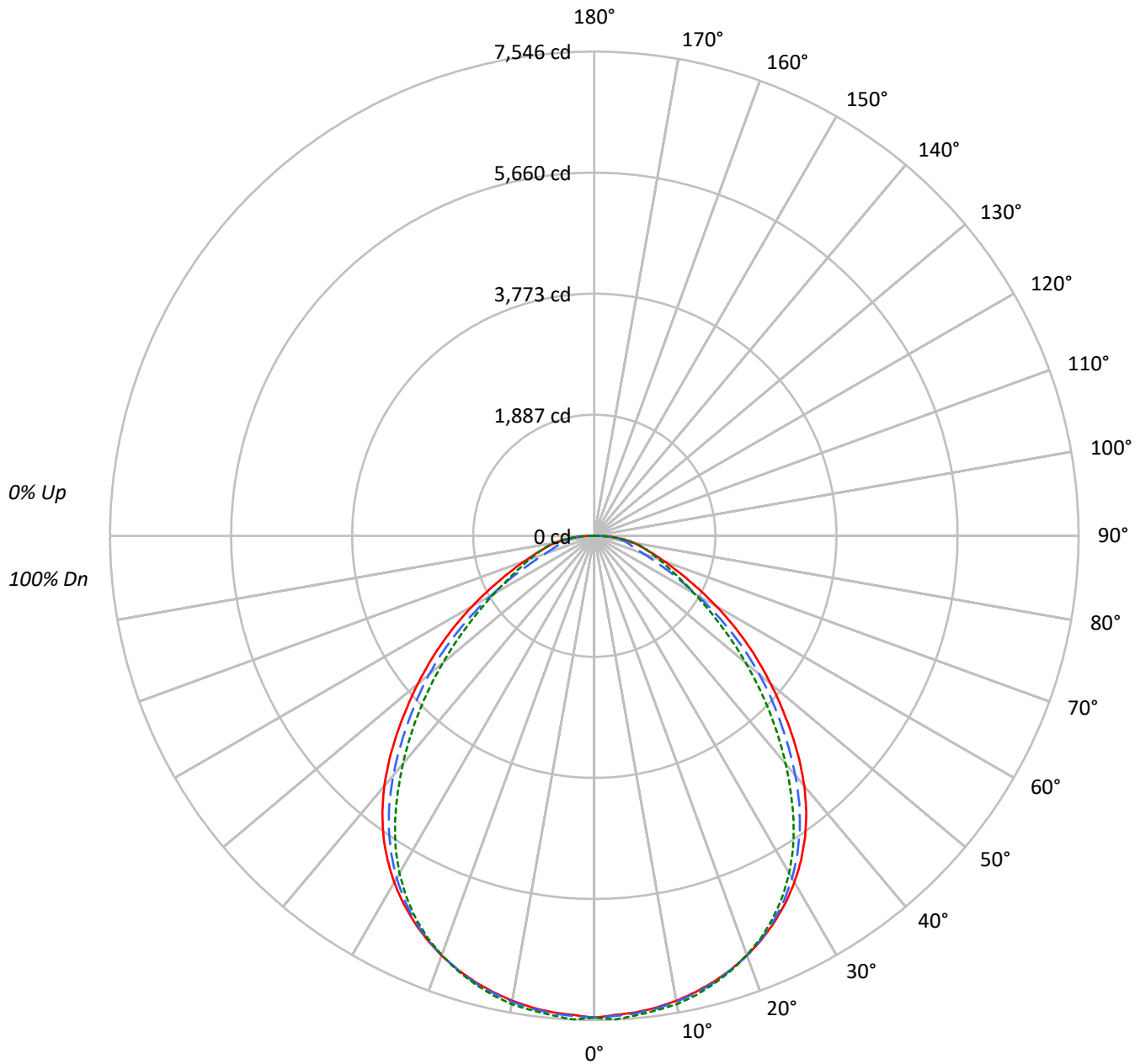
Input Watts (W): 114.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 110 | 105 | 101 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 90  | 88  | 86  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |
| 3   | 93  | 83  | 75  | 70  | 90  | 81  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 73  | 69  | 65  | 63  |    |    |
| 4   | 85  | 74  | 66  | 60  | 83  | 73  | 65  | 60  | 71  | 64  | 59  | 68  | 63  | 58  | 66  | 61  | 57  | 55  |    |    |
| 5   | 79  | 67  | 59  | 52  | 77  | 66  | 58  | 52  | 64  | 57  | 52  | 62  | 56  | 51  | 60  | 55  | 51  | 49  |    |    |
| 6   | 73  | 61  | 52  | 46  | 72  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 43  |    |    |
| 7   | 68  | 55  | 47  | 41  | 67  | 55  | 47  | 41  | 53  | 46  | 41  | 52  | 45  | 41  | 50  | 45  | 40  | 38  |    |    |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 36  | 35  |    |    |
| 9   | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |
| 10  | 56  | 43  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 40  | 34  | 30  | 29  |    |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12124 | 12124 | 12124 |
| 5°  | 12081 | 12109 | 12158 |
| 10° | 12064 | 12092 | 12153 |
| 15° | 12024 | 12048 | 12076 |
| 20° | 11961 | 11952 | 11943 |
| 25° | 11831 | 11791 | 11724 |
| 30° | 11627 | 11486 | 11319 |
| 35° | 11289 | 11005 | 10666 |
| 40° | 10728 | 10267 | 9774  |
| 45° | 9910  | 9357  | 8791  |
| 50° | 9009  | 8426  | 7732  |
| 55° | 8101  | 7295  | 6684  |
| 60° | 7088  | 5962  | 5800  |
| 65° | 6112  | 4688  | 5235  |
| 70° | 5449  | 3826  | 5046  |
| 75° | 5220  | 3735  | 5272  |
| 80° | 5646  | 4417  | 5874  |
| 85° | 6339  | 5319  | 6400  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 711.7   | 4.1       |
| 10°-20°   | 2036.8  | 11.8      |
| 20°-30°   | 3046.9  | 17.7      |
| 30°-40°   | 3476.2  | 20.2      |
| 40°-50°   | 3164.3  | 18.3      |
| 50°-60°   | 2323.5  | 13.5      |
| 60°-70°   | 1371.9  | 8.0       |
| 70°-80°   | 786.2   | 4.6       |
| 80°-90°   | 332.4   | 1.9       |
| 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       |
| <hr/>     |         |           |
| 0°-30°    | 5795.3  | 33.6      |
| 0°-40°    | 9271.6  | 53.7      |
| 0°-60°    | 14759.4 | 85.6      |
| 0°-90°    | 17250.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 17250.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 7509 | 7509  | 7509 | 7509  | 7509 |      |
| 5°  | 7454 | 7501  | 7471 | 7501  | 7502 | 709  |
| 15° | 7193 | 7233  | 7208 | 7233  | 7225 | 2030 |
| 25° | 6641 | 6665  | 6618 | 6616  | 6581 | 3057 |
| 35° | 5727 | 5700  | 5583 | 5488  | 5412 | 3568 |
| 45° | 4340 | 4315  | 4098 | 3914  | 3850 | 3345 |
| 55° | 2878 | 2745  | 2592 | 2404  | 2375 | 2573 |
| 65° | 1600 | 1396  | 1227 | 1313  | 1370 | 1610 |
| 75° | 837  | 717   | 599  | 781   | 845  | 902  |
| 85° | 342  | 316   | 287  | 339   | 346  | 358  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 7509.2 | 7509.2 | 7509.2 | 7509.2 | 7509.2 |
| 2.5°  | 7474.5 | 7517.7 | 7490.6 | 7520.2 | 7545.6 |
| 5°    | 7454.2 | 7500.8 | 7471.1 | 7500.8 | 7501.6 |
| 7.5°  | 7416.9 | 7460.1 | 7431.3 | 7463.5 | 7460.1 |
| 10°   | 7358.4 | 7401.7 | 7375.4 | 7410.2 | 7412.7 |
| 12.5° | 7283.9 | 7325.4 | 7298.4 | 7338.2 | 7331.4 |
| 15°   | 7193.3 | 7233.1 | 7207.7 | 7233.1 | 7224.7 |
| 17.5° | 7086.6 | 7123.0 | 7090.0 | 7118.0 | 7103.6 |
| 20°   | 6961.3 | 6991.8 | 6956.2 | 6982.4 | 6951.1 |
| 22.5° | 6811.4 | 6838.5 | 6801.2 | 6815.6 | 6783.4 |
| 25°   | 6641.2 | 6664.9 | 6618.3 | 6615.8 | 6581.0 |
| 27.5° | 6451.4 | 6464.2 | 6404.9 | 6384.5 | 6344.7 |
| 30°   | 6236.4 | 6239.8 | 6161.0 | 6122.9 | 6071.2 |
| 32.5° | 5995.0 | 5986.6 | 5885.7 | 5829.0 | 5765.5 |
| 35°   | 5727.4 | 5699.5 | 5583.4 | 5487.8 | 5411.5 |
| 37.5° | 5425.1 | 5381.1 | 5242.2 | 5100.7 | 5027.9 |
| 40°   | 5089.7 | 5038.1 | 4871.2 | 4695.9 | 4637.5 |
| 42.5° | 4724.7 | 4680.7 | 4484.2 | 4301.3 | 4243.7 |
| 45°   | 4340.2 | 4314.8 | 4098.0 | 3914.2 | 3849.9 |
| 47.5° | 3955.7 | 3937.1 | 3725.4 | 3538.2 | 3460.3 |
| 50°   | 3586.5 | 3545.8 | 3354.5 | 3149.5 | 3078.4 |
| 52.5° | 3228.3 | 3145.2 | 2976.8 | 2766.7 | 2714.3 |
| 55°   | 2877.7 | 2744.7 | 2591.5 | 2403.5 | 2374.6 |
| 57.5° | 2530.4 | 2358.5 | 2209.5 | 2068.9 | 2068.1 |
| 60°   | 2195.1 | 1998.6 | 1846.2 | 1772.5 | 1796.2 |
| 62.5° | 1880.9 | 1679.3 | 1514.2 | 1519.3 | 1562.5 |
| 65°   | 1599.7 | 1396.5 | 1227.1 | 1312.6 | 1370.2 |
| 67.5° | 1358.4 | 1164.4 | 992.5  | 1151.8 | 1206.8 |
| 70°   | 1154.3 | 979.0  | 810.5  | 1009.4 | 1068.8 |
| 72.5° | 982.4  | 835.0  | 683.4  | 890.9  | 951.0  |
| 75°   | 836.7  | 717.3  | 598.7  | 780.8  | 845.1  |
| 77.5° | 718.2  | 612.3  | 537.0  | 675.8  | 742.7  |
| 80°   | 607.2  | 514.1  | 475.1  | 574.2  | 631.7  |
| 82.5° | 481.0  | 416.7  | 393.8  | 466.6  | 496.3  |
| 85°   | 342.2  | 315.9  | 287.1  | 338.7  | 345.5  |
| 87.5° | 188.0  | 194.8  | 160.9  | 194.8  | 195.6  |
| 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)