

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: P730468

Luminaire Tested: **HBLED-LD5-15SE-W-A-UNV-L750**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730468  
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-LD5-15SE-W-A-UNV-L750  
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14860.0 lumens  
Efficiency: N/A  
Efficacy: 158.1 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

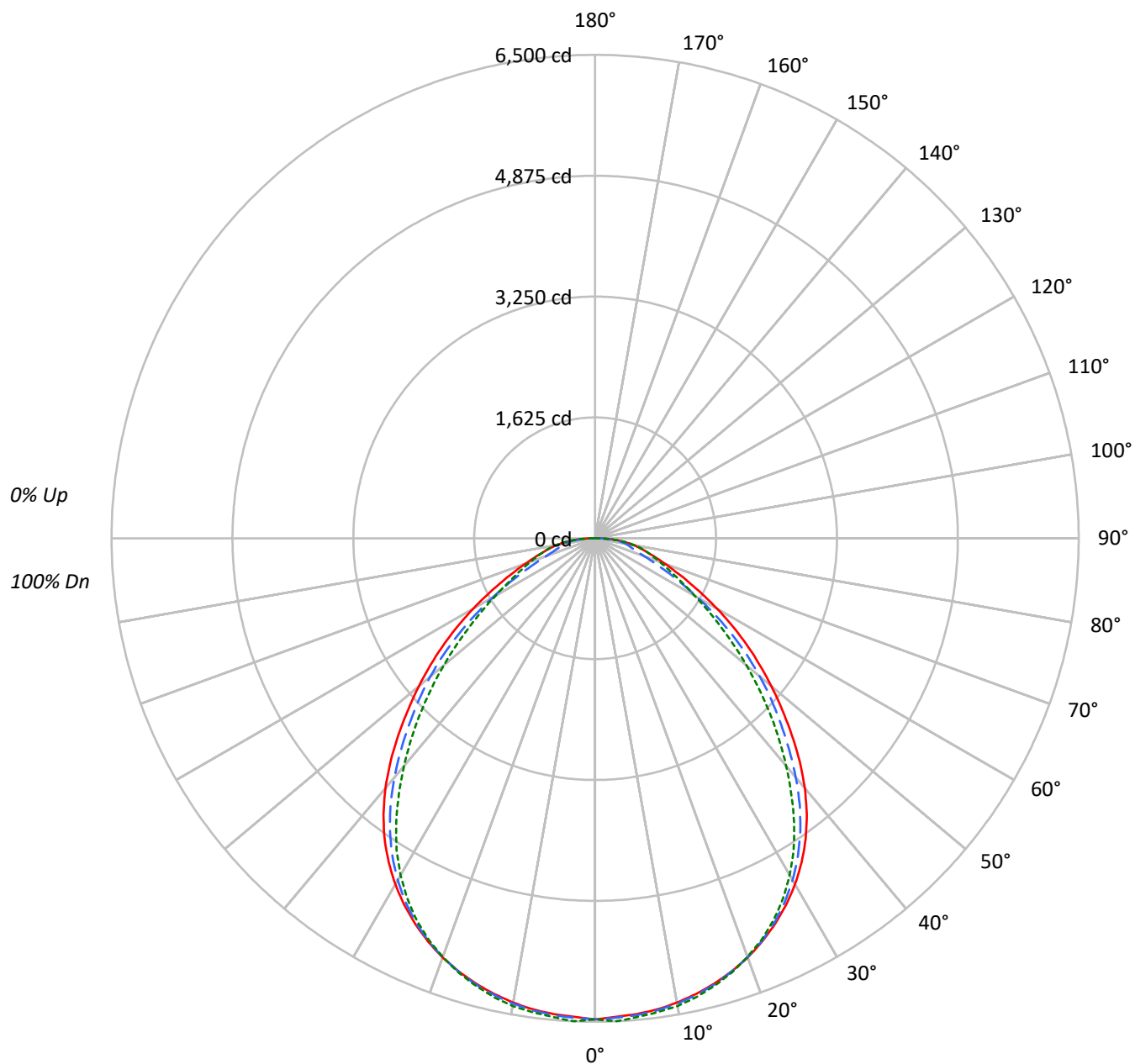
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 10444 | 10444 | 10444 |
| 5°  | 10408 | 10431 | 10474 |
| 10° | 10393 | 10417 | 10469 |
| 15° | 10358 | 10379 | 10403 |
| 20° | 10304 | 10296 | 10289 |
| 25° | 10192 | 10157 | 10100 |
| 30° | 10016 | 9895  | 9751  |
| 35° | 9725  | 9480  | 9189  |
| 40° | 9241  | 8845  | 8420  |
| 45° | 8537  | 8061  | 7573  |
| 50° | 7761  | 7258  | 6661  |
| 55° | 6978  | 6284  | 5758  |
| 60° | 6106  | 5136  | 4997  |
| 65° | 5265  | 4039  | 4510  |
| 70° | 4694  | 3296  | 4346  |
| 75° | 4497  | 3218  | 4541  |
| 80° | 4864  | 3806  | 5060  |
| 85° | 5461  | 4581  | 5515  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 613.1   | 4.1       |
| 10°-20°   | 1754.6  | 11.8      |
| 20°-30°   | 2624.7  | 17.7      |
| 30°-40°   | 2994.6  | 20.2      |
| 40°-50°   | 2725.9  | 18.3      |
| 50°-60°   | 2001.6  | 13.5      |
| 60°-70°   | 1181.9  | 8.0       |
| 70°-80°   | 677.3   | 4.6       |
| 80°-90°   | 286.4   | 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       |
| 0°-30°    | 4992.4  | 33.6      |
| 0°-40°    | 7987.0  | 53.7      |
| 0°-60°    | 12714.5 | 85.6      |
| 0°-90°    | 14860.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14860.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6469 | 6469  | 6469 | 6469  | 6469 |      |
| 5°  | 6421 | 6462  | 6436 | 6462  | 6462 | 610  |
| 15° | 6197 | 6231  | 6209 | 6231  | 6224 | 1749 |
| 25° | 5721 | 5741  | 5701 | 5699  | 5669 | 2633 |
| 35° | 4934 | 4910  | 4810 | 4727  | 4662 | 3074 |
| 45° | 3739 | 3717  | 3530 | 3372  | 3316 | 2881 |
| 55° | 2479 | 2364  | 2232 | 2070  | 2046 | 2217 |
| 65° | 1378 | 1203  | 1057 | 1131  | 1180 | 1387 |
| 75° | 721  | 618   | 516  | 673   | 728  | 777  |
| 85° | 295  | 272   | 247  | 292   | 298  | 308  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6468.8 | 6468.8 | 6468.8 | 6468.8 | 6468.8 |
| 2.5°  | 6438.9 | 6476.1 | 6452.7 | 6478.3 | 6500.2 |
| 5°    | 6421.4 | 6461.5 | 6436.0 | 6461.5 | 6462.2 |
| 7.5°  | 6389.3 | 6426.5 | 6401.7 | 6429.4 | 6426.5 |
| 10°   | 6338.9 | 6376.2 | 6353.6 | 6383.5 | 6385.7 |
| 12.5° | 6274.7 | 6310.5 | 6287.2 | 6321.5 | 6315.6 |
| 15°   | 6196.7 | 6231.0 | 6209.1 | 6231.0 | 6223.7 |
| 17.5° | 6104.8 | 6136.1 | 6107.7 | 6131.8 | 6119.4 |
| 20°   | 5996.8 | 6023.0 | 5992.4 | 6015.0 | 5988.1 |
| 22.5° | 5867.7 | 5891.0 | 5858.9 | 5871.3 | 5843.6 |
| 25°   | 5721.0 | 5741.4 | 5701.3 | 5699.1 | 5669.2 |
| 27.5° | 5557.6 | 5568.6 | 5517.5 | 5500.0 | 5465.7 |
| 30°   | 5372.3 | 5375.2 | 5307.4 | 5274.6 | 5230.0 |
| 32.5° | 5164.4 | 5157.1 | 5070.3 | 5021.4 | 4966.7 |
| 35°   | 4933.9 | 4909.8 | 4809.8 | 4727.4 | 4661.8 |
| 37.5° | 4673.4 | 4635.5 | 4515.9 | 4394.0 | 4331.2 |
| 40°   | 4384.5 | 4340.0 | 4196.3 | 4045.3 | 3994.9 |
| 42.5° | 4070.1 | 4032.2 | 3862.9 | 3705.3 | 3655.7 |
| 45°   | 3738.9 | 3717.0 | 3530.2 | 3371.9 | 3316.5 |
| 47.5° | 3407.7 | 3391.6 | 3209.3 | 3048.0 | 2980.9 |
| 50°   | 3089.6 | 3054.6 | 2889.7 | 2713.1 | 2651.9 |
| 52.5° | 2781.0 | 2709.5 | 2564.3 | 2383.4 | 2338.2 |
| 55°   | 2479.0 | 2364.5 | 2232.4 | 2070.5 | 2045.6 |
| 57.5° | 2179.8 | 2031.8 | 1903.4 | 1782.2 | 1781.5 |
| 60°   | 1891.0 | 1721.7 | 1590.4 | 1526.9 | 1547.4 |
| 62.5° | 1620.3 | 1446.7 | 1304.4 | 1308.8 | 1346.0 |
| 65°   | 1378.1 | 1203.0 | 1057.1 | 1130.8 | 1180.4 |
| 67.5° | 1170.2 | 1003.1 | 855.0  | 992.2  | 1039.6 |
| 70°   | 994.4  | 843.3  | 698.2  | 869.6  | 920.7  |
| 72.5° | 846.3  | 719.3  | 588.8  | 767.5  | 819.3  |
| 75°   | 720.8  | 617.9  | 515.8  | 672.7  | 728.0  |
| 77.5° | 618.7  | 527.5  | 462.6  | 582.1  | 639.8  |
| 80°   | 523.1  | 442.9  | 409.3  | 494.7  | 544.2  |
| 82.5° | 414.3  | 359.0  | 339.2  | 402.0  | 427.5  |
| 85°   | 294.8  | 272.1  | 247.3  | 291.8  | 297.7  |
| 87.5° | 162.0  | 167.8  | 138.6  | 167.8  | 168.5  |
| 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)