

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: P730324

Luminaire Tested: **HBLED-LD5-12SE-W-A-UNV-L750**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730324  
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-LD5-12SE-W-A-UNV-L750  
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11518.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 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

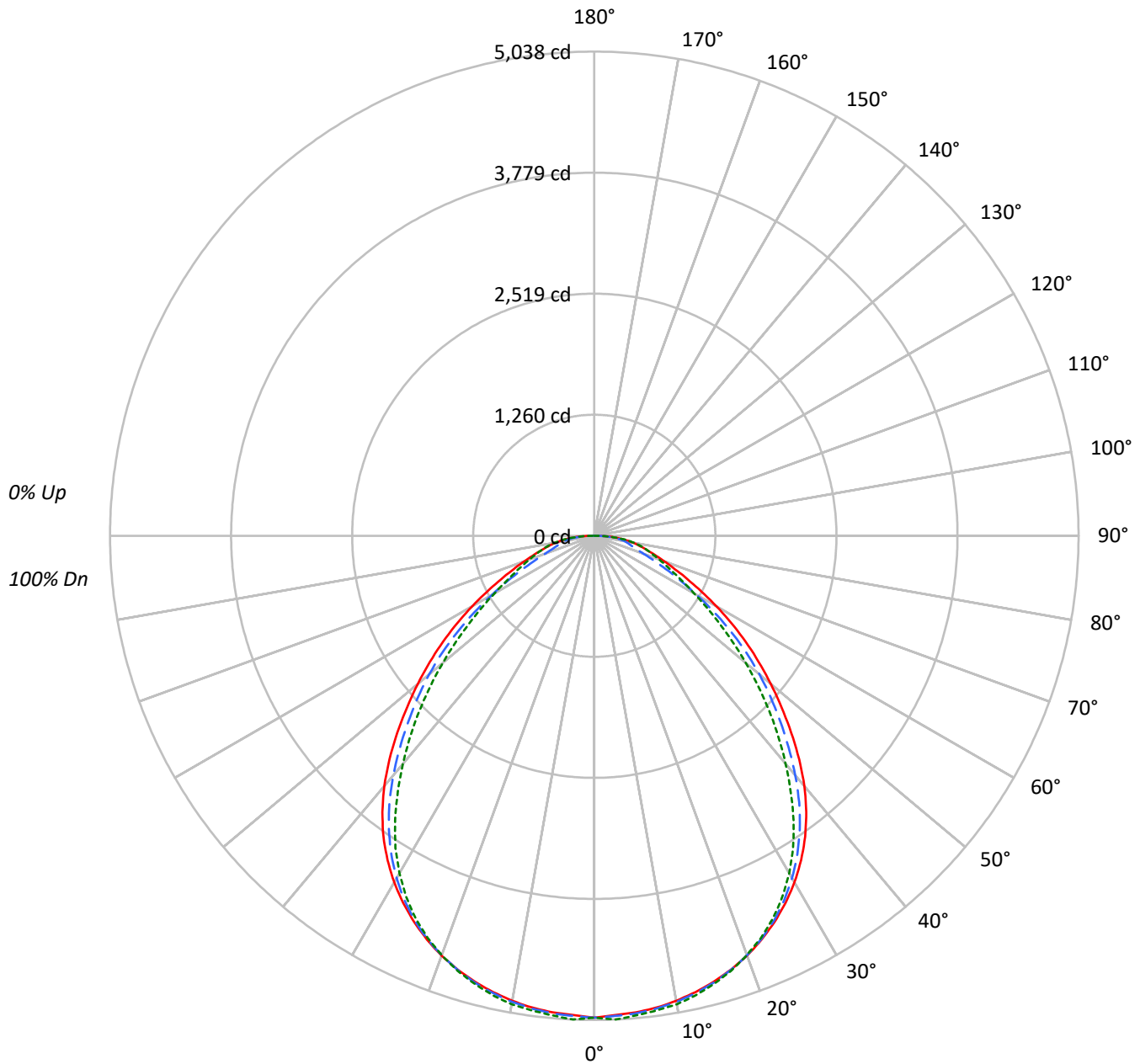
Input Watts (W): 75  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 8096 | 8096 | 8096 |
| 5°  | 8067 | 8085 | 8118 |
| 10° | 8055 | 8074 | 8115 |
| 15° | 8028 | 8045 | 8064 |
| 20° | 7986 | 7981 | 7975 |
| 25° | 7900 | 7873 | 7828 |
| 30° | 7763 | 7670 | 7558 |
| 35° | 7538 | 7348 | 7122 |
| 40° | 7163 | 6855 | 6526 |
| 45° | 6617 | 6248 | 5870 |
| 50° | 6015 | 5626 | 5163 |
| 55° | 5409 | 4871 | 4463 |
| 60° | 4733 | 3981 | 3873 |
| 65° | 4081 | 3130 | 3495 |
| 70° | 3638 | 2555 | 3369 |
| 75° | 3485 | 2494 | 3520 |
| 80° | 3769 | 2949 | 3922 |
| 85° | 4233 | 3551 | 4274 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 475.2   | 4.1       |
| 10°-20°   | 1360.0  | 11.8      |
| 20°-30°   | 2034.4  | 17.7      |
| 30°-40°   | 2321.1  | 20.2      |
| 40°-50°   | 2112.9  | 18.3      |
| 50°-60°   | 1551.4  | 13.5      |
| 60°-70°   | 916.1   | 8.0       |
| 70°-80°   | 525.0   | 4.6       |
| 80°-90°   | 222.0   | 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°    | 3869.6  | 33.6      |
| 0°-40°    | 6190.7  | 53.7      |
| 0°-60°    | 9855.0  | 85.6      |
| 0°-90°    | 11518.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11518.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5014 | 5014  | 5014 | 5014  | 5014 |      |
| 5°  | 4977 | 5008  | 4988 | 5008  | 5009 | 473  |
| 15° | 4803 | 4830  | 4813 | 4830  | 4824 | 1355 |
| 25° | 4434 | 4450  | 4419 | 4417  | 4394 | 2041 |
| 35° | 3824 | 3806  | 3728 | 3664  | 3613 | 2383 |
| 45° | 2898 | 2881  | 2736 | 2614  | 2571 | 2233 |
| 55° | 1921 | 1833  | 1730 | 1605  | 1586 | 1718 |
| 65° | 1068 | 932   | 819  | 876   | 915  | 1075 |
| 75° | 559  | 479   | 400  | 521   | 564  | 602  |
| 85° | 228  | 211   | 192  | 226   | 231  | 239  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5014.0 | 5014.0 | 5014.0 | 5014.0 | 5014.0 |
| 2.5°  | 4990.8 | 5019.6 | 5001.5 | 5021.3 | 5038.3 |
| 5°    | 4977.2 | 5008.3 | 4988.5 | 5008.3 | 5008.9 |
| 7.5°  | 4952.4 | 4981.2 | 4962.0 | 4983.5 | 4981.2 |
| 10°   | 4913.3 | 4942.2 | 4924.7 | 4947.8 | 4949.5 |
| 12.5° | 4863.5 | 4891.3 | 4873.2 | 4899.8 | 4895.2 |
| 15°   | 4803.0 | 4829.6 | 4812.7 | 4829.6 | 4824.0 |
| 17.5° | 4731.8 | 4756.1 | 4734.1 | 4752.8 | 4743.1 |
| 20°   | 4648.1 | 4668.5 | 4644.7 | 4662.2 | 4641.4 |
| 22.5° | 4548.1 | 4566.1 | 4541.2 | 4550.8 | 4529.4 |
| 25°   | 4434.4 | 4450.2 | 4419.1 | 4417.4 | 4394.2 |
| 27.5° | 4307.7 | 4316.2 | 4276.6 | 4263.0 | 4236.5 |
| 30°   | 4164.1 | 4166.3 | 4113.8 | 4088.3 | 4053.8 |
| 32.5° | 4002.9 | 3997.3 | 3930.0 | 3892.1 | 3849.7 |
| 35°   | 3824.2 | 3805.6 | 3728.1 | 3664.2 | 3613.3 |
| 37.5° | 3622.4 | 3593.0 | 3500.2 | 3405.8 | 3357.1 |
| 40°   | 3398.4 | 3364.0 | 3252.6 | 3135.5 | 3096.5 |
| 42.5° | 3154.8 | 3125.3 | 2994.1 | 2872.0 | 2833.5 |
| 45°   | 2898.0 | 2881.1 | 2736.3 | 2613.6 | 2570.6 |
| 47.5° | 2641.3 | 2628.9 | 2487.5 | 2362.5 | 2310.5 |
| 50°   | 2394.8 | 2367.6 | 2239.8 | 2103.0 | 2055.5 |
| 52.5° | 2155.5 | 2100.1 | 1987.6 | 1847.4 | 1812.3 |
| 55°   | 1921.4 | 1832.7 | 1730.3 | 1604.8 | 1585.6 |
| 57.5° | 1689.6 | 1574.8 | 1475.3 | 1381.4 | 1380.9 |
| 60°   | 1465.7 | 1334.5 | 1232.7 | 1183.5 | 1199.4 |
| 62.5° | 1255.9 | 1121.3 | 1011.1 | 1014.4 | 1043.3 |
| 65°   | 1068.2 | 932.4  | 819.3  | 876.5  | 914.9  |
| 67.5° | 907.0  | 777.5  | 662.7  | 769.0  | 805.8  |
| 70°   | 770.7  | 653.7  | 541.2  | 674.0  | 713.6  |
| 72.5° | 656.0  | 557.5  | 456.3  | 594.9  | 635.0  |
| 75°   | 558.7  | 478.9  | 399.8  | 521.4  | 564.3  |
| 77.5° | 479.5  | 408.8  | 358.5  | 451.2  | 495.9  |
| 80°   | 405.4  | 343.3  | 317.2  | 383.4  | 421.8  |
| 82.5° | 321.2  | 278.2  | 263.0  | 311.6  | 331.4  |
| 85°   | 228.5  | 210.9  | 191.7  | 226.2  | 230.7  |
| 87.5° | 125.5  | 130.1  | 107.4  | 130.1  | 130.6  |
| 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)