

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: P730431

Luminaire Tested: **HBLED-LD5-15HE-W-UNV-L740**

Issue Date: 11/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P730431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-UNV-L740  
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16699.0 lumens  
Efficiency: N/A  
Efficacy: 183.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43  
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')  
CIE Type: Direct

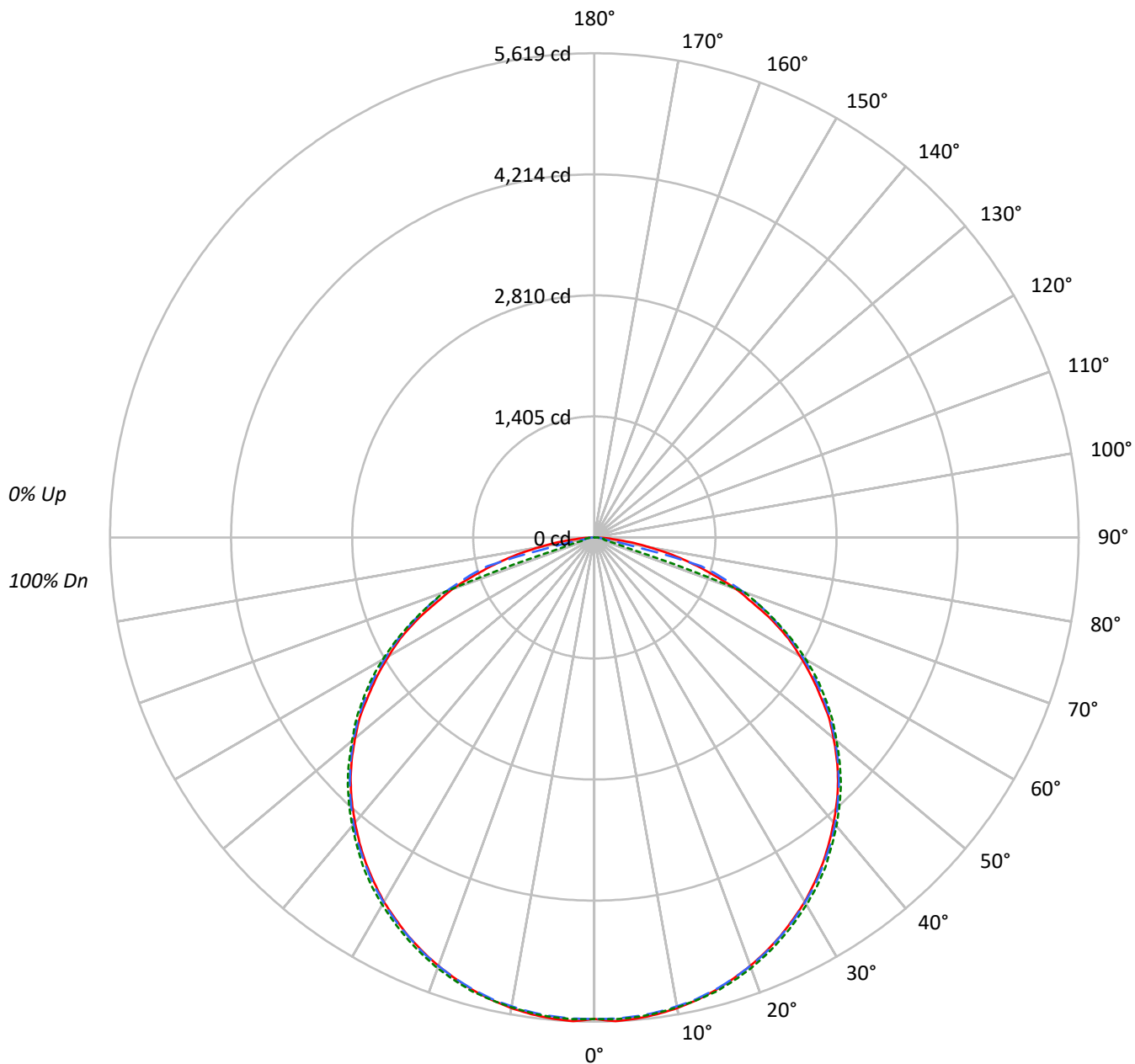
Input Watts (W): 91.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 109 | 105 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  | 85  |    |    |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  | 70  |    |    |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 64  | 75  | 69  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 59  |    |    |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 43  |    |    |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 25  | 24  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9022 | 9022 | 9022 |
| 5°  | 9087 | 9041 | 9057 |
| 10° | 9092 | 9059 | 9078 |
| 15° | 9091 | 9078 | 9120 |
| 20° | 9090 | 9092 | 9139 |
| 25° | 9095 | 9099 | 9154 |
| 30° | 9104 | 9116 | 9176 |
| 35° | 9103 | 9132 | 9208 |
| 40° | 9104 | 9162 | 9212 |
| 45° | 9130 | 9164 | 9238 |
| 50° | 9102 | 9155 | 9215 |
| 55° | 9002 | 9128 | 9226 |
| 60° | 8900 | 9044 | 9157 |
| 65° | 8703 | 8884 | 8950 |
| 70° | 8262 | 8615 | 8721 |
| 75° | 7369 | 7991 | 963  |
| 80° | 5926 | 996  | 1053 |
| 85° | 3944 | 1291 | 1315 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 530.7   | 3.2       |
| 10°-20°   | 1533.6  | 9.2       |
| 20°-30°   | 2356.2  | 14.1      |
| 30°-40°   | 2900.6  | 17.4      |
| 40°-50°   | 3092.3  | 18.5      |
| 50°-60°   | 2890.7  | 17.3      |
| 60°-70°   | 2288.3  | 13.7      |
| 70°-80°   | 973.6   | 5.8       |
| 80°-90°   | 132.9   | 0.8       |
| 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°    | 4420.5  | 26.5      |
| 0°-40°    | 7321.1  | 43.8      |
| 0°-60°    | 13304.1 | 79.7      |
| 0°-90°    | 16699.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 16699.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5588 | 5588  | 5588 | 5588  | 5588 |      |
| 5°  | 5607 | 5582  | 5578 | 5556  | 5588 | 533  |
| 15° | 5439 | 5429  | 5431 | 5416  | 5456 | 1536 |
| 25° | 5105 | 5099  | 5108 | 5105  | 5139 | 2354 |
| 35° | 4618 | 4611  | 4633 | 4649  | 4672 | 2890 |
| 45° | 3998 | 3976  | 4013 | 4030  | 4046 | 3081 |
| 55° | 3198 | 3208  | 3243 | 3254  | 3278 | 2864 |
| 65° | 2278 | 2298  | 2325 | 2343  | 2343 | 2241 |
| 75° | 1181 | 1232  | 1281 | 209   | 154  | 1250 |
| 85° | 213  | 64    | 70   | 72    | 71   | 278  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5588.0 | 5588.0 | 5588.0 | 5588.0 | 5588.0 |
| 2.5°  | 5619.1 | 5592.9 | 5588.0 | 5565.6 | 5595.4 |
| 5°    | 5606.6 | 5581.7 | 5578.0 | 5555.6 | 5588.0 |
| 7.5°  | 5580.5 | 5560.6 | 5558.1 | 5534.4 | 5566.8 |
| 10°   | 5545.6 | 5527.0 | 5525.7 | 5504.6 | 5536.9 |
| 12.5° | 5498.3 | 5482.2 | 5487.1 | 5466.0 | 5498.3 |
| 15°   | 5438.6 | 5428.6 | 5431.1 | 5416.2 | 5456.0 |
| 17.5° | 5366.4 | 5361.4 | 5366.4 | 5355.2 | 5391.3 |
| 20°   | 5290.5 | 5284.2 | 5291.7 | 5285.5 | 5319.1 |
| 22.5° | 5202.1 | 5194.6 | 5209.5 | 5200.8 | 5231.9 |
| 25°   | 5105.0 | 5098.8 | 5107.5 | 5105.0 | 5138.6 |
| 27.5° | 4994.2 | 4988.0 | 5006.6 | 5007.9 | 5034.0 |
| 30°   | 4883.4 | 4874.7 | 4889.6 | 4895.8 | 4922.0 |
| 32.5° | 4751.4 | 4749.0 | 4771.4 | 4776.3 | 4803.7 |
| 35°   | 4618.3 | 4610.8 | 4633.2 | 4649.4 | 4671.8 |
| 37.5° | 4472.6 | 4471.4 | 4495.0 | 4508.7 | 4519.9 |
| 40°   | 4319.5 | 4313.3 | 4346.9 | 4360.6 | 4370.5 |
| 42.5° | 4163.9 | 4150.2 | 4182.6 | 4200.0 | 4211.2 |
| 45°   | 3998.3 | 3975.9 | 4013.3 | 4029.5 | 4045.6 |
| 47.5° | 3816.6 | 3796.7 | 3832.8 | 3850.2 | 3861.4 |
| 50°   | 3623.6 | 3605.0 | 3644.8 | 3659.7 | 3668.5 |
| 52.5° | 3429.5 | 3410.8 | 3453.1 | 3465.6 | 3486.7 |
| 55°   | 3197.9 | 3207.9 | 3242.7 | 3253.9 | 3277.6 |
| 57.5° | 2983.8 | 2992.5 | 3026.1 | 3039.8 | 3067.2 |
| 60°   | 2756.0 | 2769.7 | 2800.8 | 2814.5 | 2835.7 |
| 62.5° | 2535.7 | 2536.9 | 2574.3 | 2580.5 | 2596.7 |
| 65°   | 2278.0 | 2297.9 | 2325.3 | 2342.7 | 2342.7 |
| 67.5° | 1990.5 | 2039.0 | 2086.3 | 2082.6 | 2092.5 |
| 70°   | 1750.2 | 1768.9 | 1824.9 | 1833.6 | 1847.3 |
| 72.5° | 1449.0 | 1497.5 | 1559.7 | 1165.1 | 395.9  |
| 75°   | 1181.3 | 1232.4 | 1280.9 | 209.1  | 154.4  |
| 77.5° | 917.4  | 957.3  | 425.7  | 119.5  | 117.0  |
| 80°   | 637.3  | 700.8  | 107.1  | 109.5  | 113.3  |
| 82.5° | 419.5  | 342.3  | 88.4   | 97.1   | 98.3   |
| 85°   | 212.9  | 63.5   | 69.7   | 72.2   | 71.0   |
| 87.5° | 69.7   | 38.6   | 39.8   | 41.1   | 42.3   |
| 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)