

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1036870

Luminaire Tested: UHBS2-4860-L8C5-MID-N-6500K

Issue Date: 5/30/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1036870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/30/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-4860-L8C5-MID-N-6500K  
Description: UHBS Selectable High Bay at MID lumen, 6500K CCT settings with Narrow beam  
Light Source: -  
Ballast/Driver: -

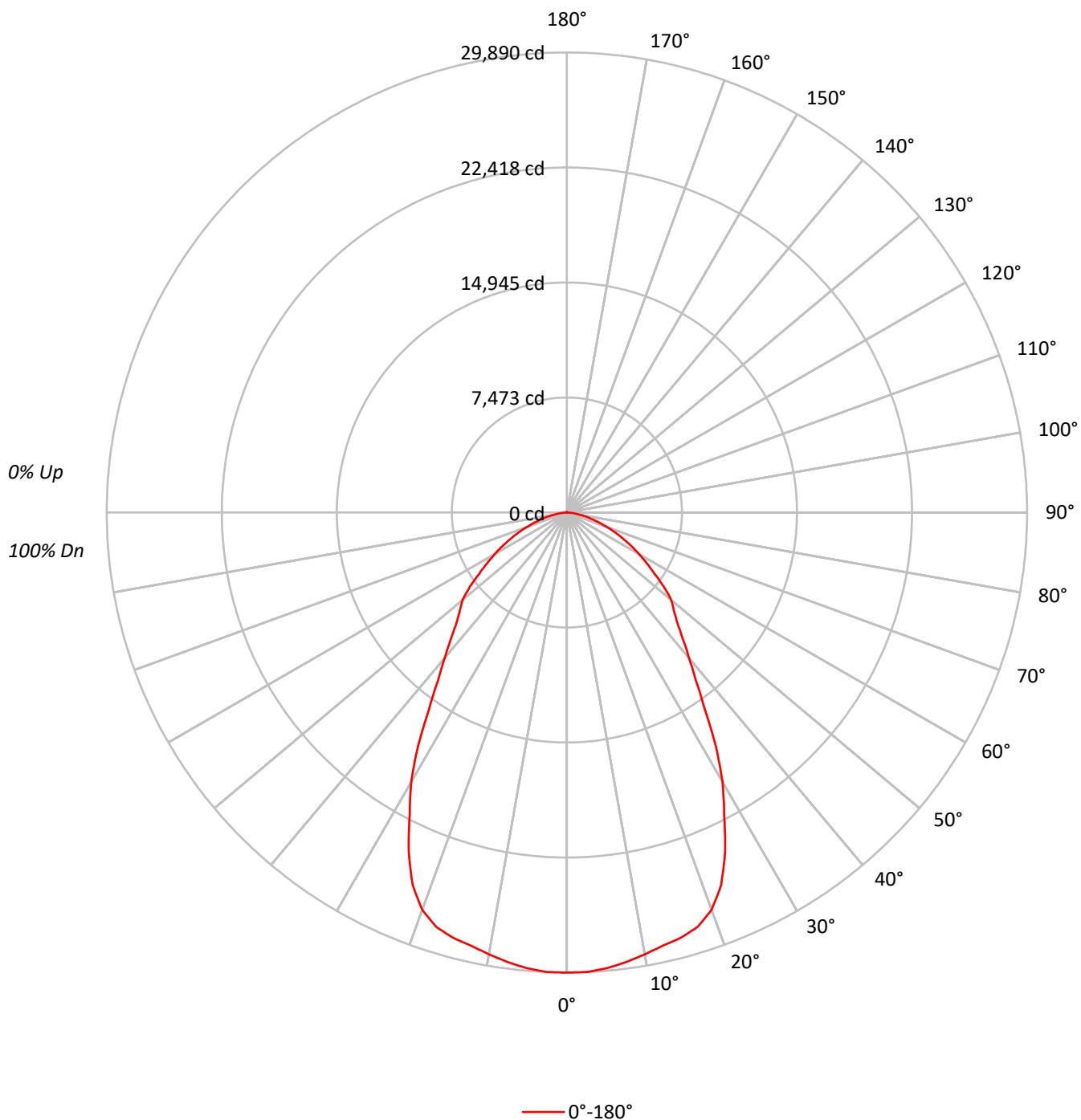
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52372.9 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.05  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 354.7  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9978  
Total Harmonic Distortion (THDi): 3.3895  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  |  | 96  | 94  | 92  |  | 93  |
| 2   | 102 | 95  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  |  | 87  | 83  | 80  |  | 84  |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 72  | 81  | 76  | 71  |  | 79  | 74  | 70  |  | 76  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 68  | 63  |  | 71  | 66  | 62  |  | 69  |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  |  | 65  | 60  | 55  |  | 64  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  |  | 60  | 54  | 50  |  | 59  |
| 7   | 71  | 59  | 51  | 46  | 70  | 58  | 51  | 46  | 57  | 50  | 45  |  | 55  | 49  | 45  |  | 54  |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 41  | 53  | 46  | 41  |  | 51  | 45  | 41  |  | 50  |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  |  | 48  | 42  | 38  |  | 47  |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 39  | 35  |  | 45  | 39  | 35  |  | 44  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 147470 |
| 5°  | 147192 |
| 10° | 146036 |
| 15° | 146104 |
| 20° | 144250 |
| 25° | 132398 |
| 30° | 115117 |
| 35° | 93989  |
| 40° | 79465  |
| 45° | 70688  |
| 50° | 67899  |
| 55° | 59917  |
| 60° | 53523  |
| 65° | 47040  |
| 70° | 40055  |
| 75° | 32748  |
| 80° | 25677  |
| 85° | 18290  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70688 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2818.4  | 5.4       |
| 10°-20°   | 8054.7  | 15.4      |
| 20°-30°   | 11058.5 | 21.1      |
| 30°-40°   | 9894.5  | 18.9      |
| 40°-50°   | 7956.7  | 15.2      |
| 50°-60°   | 6298.6  | 12.0      |
| 60°-70°   | 4011.3  | 7.7       |
| 70°-80°   | 1854.0  | 3.5       |
| 80°-90°   | 400.7   | 0.8       |
| 90°-100°  | 0.2     | 0.0       |
| 100°-110° | 0.6     | 0.0       |
| 110°-120° | 0.9     | 0.0       |
| 120°-130° | 1.6     | 0.0       |
| 130°-140° | 3.5     | 0.0       |
| 140°-150° | 5.5     | 0.0       |
| 150°-160° | 6.1     | 0.0       |
| 160°-170° | 5.1     | 0.0       |
| 170°-180° | 2.0     | 0.0       |
| 0°-30°    | 21931.6 | 41.9      |
| 0°-40°    | 31826.1 | 60.8      |
| 0°-60°    | 46081.4 | 88.0      |
| 0°-90°    | 52347.5 | 100.0     |
| 90°-120°  | 1.7     | 0.0       |
| 90°-150°  | 12.4    | 0.0       |
| 90°-180°  | 26.0    | 0.0       |
| 0°-180°   | 52372.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux  |
|------|-------|-------|
| 0°   | 29890 |       |
| 5°   | 29720 | ###   |
| 15°  | 28604 | 8055  |
| 25°  | 24321 | 11059 |
| 35°  | 15605 | 9894  |
| 45°  | 10131 | 7957  |
| 55°  | 6966  | 6299  |
| 65°  | 4029  | 4011  |
| 75°  | 1718  | 1854  |
| 85°  | 323   | 388   |
| 90°  | 2     | 13    |
| 95°  | 0     | 0     |
| 105° | 0     | 1     |
| 115° | 1     | 1     |
| 125° | 2     | 2     |
| 135° | 5     | 4     |
| 145° | 9     | 6     |
| 155° | 13    | 6     |
| 165° | 18    | 5     |
| 175° | 22    | 2     |
| 180° | 23    |       |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 29889.6 |
| 2.5°   | 29884.1 |
| 5°     | 29719.8 |
| 7.5°   | 29465.9 |
| 10°    | 29149.3 |
| 12.5°  | 28817.9 |
| 15°    | 28603.8 |
| 17.5°  | 28227.1 |
| 20°    | 27473.9 |
| 22.5°  | 26182.5 |
| 25°    | 24320.6 |
| 27.5°  | 22113.5 |
| 30°    | 20206.4 |
| 32.5°  | 18003.9 |
| 35°    | 15604.8 |
| 37.5°  | 13754.9 |
| 40°    | 12338.0 |
| 42.5°  | 11146.3 |
| 45°    | 10130.9 |
| 47.5°  | 9417.4  |
| 50°    | 8846.0  |
| 52.5°  | 7953.3  |
| 55°    | 6965.6  |
| 57.5°  | 6161.6  |
| 60°    | 5424.1  |
| 62.5°  | 4698.5  |
| 65°    | 4029.3  |
| 67.5°  | 3403.4  |
| 70°    | 2776.7  |
| 72.5°  | 2224.6  |
| 75°    | 1717.9  |
| 77.5°  | 1255.4  |
| 80°    | 903.7   |
| 82.5°  | 610.2   |
| 85°    | 323.1   |
| 87.5°  | 87.7    |
| 90°    | 1.8     |
| 92.5°  | 0.0     |
| 95°    | 0.0     |
| 97.5°  | 0.0     |
| 100°   | 0.0     |
| 102.5° | 0.0     |
| 105°   | 0.0     |
| 107.5° | 0.9     |
| 110°   | 0.9     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 0.9  |
| 115°   | 0.9  |
| 117.5° | 0.9  |
| 120°   | 0.9  |
| 122.5° | 1.8  |
| 125°   | 1.8  |
| 127.5° | 1.8  |
| 130°   | 2.8  |
| 132.5° | 3.7  |
| 135°   | 4.6  |
| 137.5° | 5.5  |
| 140°   | 6.5  |
| 142.5° | 7.4  |
| 145°   | 9.2  |
| 147.5° | 10.2 |
| 150°   | 11.1 |
| 152.5° | 12.0 |
| 155°   | 12.9 |
| 157.5° | 14.8 |
| 160°   | 15.7 |
| 162.5° | 17.5 |
| 165°   | 18.5 |
| 167.5° | 19.4 |
| 170°   | 20.3 |
| 172.5° | 21.2 |
| 175°   | 22.2 |
| 177.5° | 22.2 |
| 180°   | 23.1 |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 25.26            | 26.69 | 25.62 | 27.00 | 27.32 | 25.26          | 26.69 | 25.62 | 27.00 | 27.32 |
|                 | 3H   | 26.54            | 27.81 | 26.92 | 28.14 | 28.51 | 26.54          | 27.81 | 26.92 | 28.14 | 28.51 |
|                 | 4H   | 26.92            | 28.12 | 27.32 | 28.47 | 28.85 | 26.92          | 28.12 | 27.32 | 28.47 | 28.85 |
|                 | 6H   | 27.14            | 28.24 | 27.55 | 28.61 | 29.00 | 27.14          | 28.24 | 27.55 | 28.61 | 29.00 |
|                 | 8H   | 27.19            | 28.24 | 27.62 | 28.63 | 29.04 | 27.19          | 28.24 | 27.62 | 28.63 | 29.04 |
|                 | 12H  | 27.21            | 28.21 | 27.64 | 28.60 | 29.03 | 27.21          | 28.21 | 27.64 | 28.60 | 29.03 |
| 4H              | 2H   | 25.71            | 26.90 | 26.11 | 27.25 | 27.64 | 25.71          | 26.90 | 26.11 | 27.25 | 27.64 |
|                 | 3H   | 27.17            | 28.16 | 27.58 | 28.56 | 28.96 | 27.17          | 28.16 | 27.58 | 28.56 | 28.96 |
|                 | 4H   | 27.65            | 28.54 | 28.08 | 28.95 | 29.40 | 27.65          | 28.54 | 28.08 | 28.95 | 29.40 |
|                 | 6H   | 27.95            | 28.72 | 28.41 | 29.17 | 29.63 | 27.95          | 28.72 | 28.41 | 29.17 | 29.63 |
|                 | 8H   | 28.03            | 28.75 | 28.50 | 29.20 | 29.67 | 28.03          | 28.75 | 28.50 | 29.20 | 29.67 |
|                 | 12H  | 28.08            | 28.71 | 28.56 | 29.19 | 29.67 | 28.08          | 28.71 | 28.56 | 29.19 | 29.67 |
| 8H              | 4H   | 27.79            | 28.51 | 28.26 | 28.96 | 29.43 | 27.79          | 28.51 | 28.26 | 28.96 | 29.43 |
|                 | 6H   | 28.17            | 28.76 | 28.67 | 29.26 | 29.74 | 28.17          | 28.76 | 28.67 | 29.26 | 29.74 |
|                 | 8H   | 28.30            | 28.83 | 28.82 | 29.34 | 29.83 | 28.30          | 28.83 | 28.82 | 29.34 | 29.83 |
|                 | 12H  | 28.38            | 28.85 | 28.90 | 29.34 | 29.91 | 28.38          | 28.85 | 28.90 | 29.34 | 29.91 |
| 12H             | 4H   | 27.79            | 28.43 | 28.27 | 28.91 | 29.38 | 27.79          | 28.43 | 28.27 | 28.91 | 29.38 |
|                 | 6H   | 28.18            | 28.70 | 28.70 | 29.22 | 29.71 | 28.18          | 28.70 | 28.70 | 29.22 | 29.71 |
|                 | 8H   | 28.34            | 28.81 | 28.86 | 29.30 | 29.87 | 28.34          | 28.81 | 28.86 | 29.30 | 29.87 |