

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: P1036839

Luminaire Tested: UHBS2-4860-L8C5-HI-N-5000K

Issue Date: 5/30/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1036839  
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-HI-N-5000K  
Description: UHBS Selectable High Bay at HI lumen, 5000K CCT settings with Narrow beam  
Light Source: -  
Ballast/Driver: -

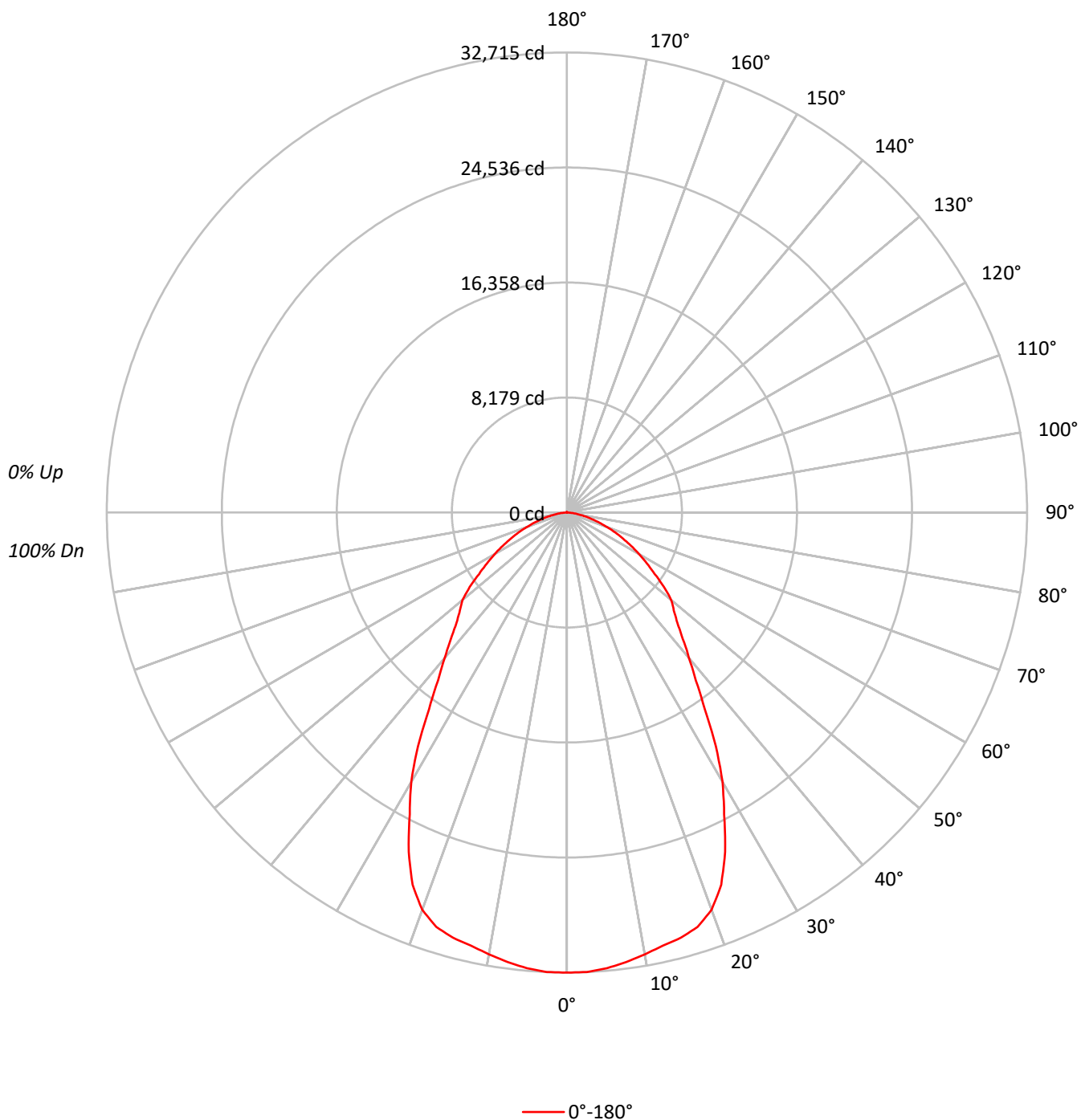
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57322.9 lumens  
Efficiency: N/A  
Efficacy: 151.2 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): 379.2  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9981  
Total Harmonic Distortion (THDi): 3.1344  
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°  | 161408 |
| 5°  | 161104 |
| 10° | 159838 |
| 15° | 159913 |
| 20° | 157884 |
| 25° | 144912 |
| 30° | 125998 |
| 35° | 102872 |
| 40° | 86975  |
| 45° | 77369  |
| 50° | 74316  |
| 55° | 65580  |
| 60° | 58581  |
| 65° | 51485  |
| 70° | 43841  |
| 75° | 35842  |
| 80° | 28103  |
| 85° | 20017  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 77369 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3084.8  | 5.4       |
| 10°-20°   | 8816.0  | 15.4      |
| 20°-30°   | 12103.7 | 21.1      |
| 30°-40°   | 10829.7 | 18.9      |
| 40°-50°   | 8708.7  | 15.2      |
| 50°-60°   | 6893.9  | 12.0      |
| 60°-70°   | 4390.5  | 7.7       |
| 70°-80°   | 2029.3  | 3.5       |
| 80°-90°   | 438.6   | 0.8       |
| 90°-100°  | 0.3     | 0.0       |
| 100°-110° | 0.7     | 0.0       |
| 110°-120° | 1.0     | 0.0       |
| 120°-130° | 1.8     | 0.0       |
| 130°-140° | 3.9     | 0.0       |
| 140°-150° | 6.0     | 0.0       |
| 150°-160° | 6.6     | 0.0       |
| 160°-170° | 5.6     | 0.0       |
| 170°-180° | 2.2     | 0.0       |
| 0°-30°    | 24004.5 | 41.9      |
| 0°-40°    | 34834.2 | 60.8      |
| 0°-60°    | 50436.8 | 88.0      |
| 0°-90°    | 57295.1 | 100.0     |
| 90°-120°  | 1.9     | 0.0       |
| 90°-150°  | 13.6    | 0.0       |
| 90°-180°  | 28.0    | 0.0       |
| 0°-180°   | 57322.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux  |
|------|-------|-------|
| 0°   | 32715 |       |
| 5°   | 32529 | ###   |
| 15°  | 31307 | 8816  |
| 25°  | 26619 | 12104 |
| 35°  | 17080 | 10830 |
| 45°  | 11088 | 8709  |
| 55°  | 7624  | 6894  |
| 65°  | 4410  | 4390  |
| 75°  | 1880  | 2029  |
| 85°  | 354   | 425   |
| 90°  | 2     | 14    |
| 95°  | 0     | 0     |
| 105° | 0     | 1     |
| 115° | 1     | 1     |
| 125° | 2     | 2     |
| 135° | 5     | 4     |
| 145° | 10    | 6     |
| 155° | 14    | 7     |
| 165° | 20    | 6     |
| 175° | 24    | 2     |
| 180° | 25    |       |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 32714.6 |
| 2.5°   | 32708.6 |
| 5°     | 32528.7 |
| 7.5°   | 32250.9 |
| 10°    | 31904.3 |
| 12.5°  | 31541.6 |
| 15°    | 31307.2 |
| 17.5°  | 30895.0 |
| 20°    | 30070.6 |
| 22.5°  | 28657.1 |
| 25°    | 26619.3 |
| 27.5°  | 24203.6 |
| 30°    | 22116.2 |
| 32.5°  | 19705.6 |
| 35°    | 17079.7 |
| 37.5°  | 15055.0 |
| 40°    | 13504.1 |
| 42.5°  | 12199.8 |
| 45°    | 11088.4 |
| 47.5°  | 10307.4 |
| 50°    | 9682.0  |
| 52.5°  | 8705.0  |
| 55°    | 7624.0  |
| 57.5°  | 6744.0  |
| 60°    | 5936.7  |
| 62.5°  | 5142.6  |
| 65°    | 4410.1  |
| 67.5°  | 3725.1  |
| 70°    | 3039.1  |
| 72.5°  | 2434.9  |
| 75°    | 1880.2  |
| 77.5°  | 1374.1  |
| 80°    | 989.1   |
| 82.5°  | 667.8   |
| 85°    | 353.6   |
| 87.5°  | 96.0    |
| 90°    | 2.0     |
| 92.5°  | 0.0     |
| 95°    | 0.0     |
| 97.5°  | 0.0     |
| 100°   | 0.0     |
| 102.5° | 0.0     |
| 105°   | 0.0     |
| 107.5° | 1.0     |
| 110°   | 1.0     |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 1.0  |
| 115°   | 1.0  |
| 117.5° | 1.0  |
| 120°   | 1.0  |
| 122.5° | 2.0  |
| 125°   | 2.0  |
| 127.5° | 2.0  |
| 130°   | 3.0  |
| 132.5° | 4.0  |
| 135°   | 5.1  |
| 137.5° | 6.1  |
| 140°   | 7.1  |
| 142.5° | 8.1  |
| 145°   | 10.1 |
| 147.5° | 11.1 |
| 150°   | 12.1 |
| 152.5° | 13.1 |
| 155°   | 14.1 |
| 157.5° | 16.2 |
| 160°   | 17.2 |
| 162.5° | 19.2 |
| 165°   | 20.2 |
| 167.5° | 21.2 |
| 170°   | 22.2 |
| 172.5° | 23.2 |
| 175°   | 24.2 |
| 177.5° | 24.2 |
| 180°   | 25.3 |

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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 | 25.57            | 27.00 | 25.94 | 27.31 | 27.63 | 25.57          | 27.00 | 25.94 | 27.31 | 27.63 |
|                 | 3H   | 26.85            | 28.13 | 27.23 | 28.46 | 28.82 | 26.85          | 28.13 | 27.23 | 28.46 | 28.82 |
|                 | 4H   | 27.24            | 28.43 | 27.64 | 28.78 | 29.16 | 27.24          | 28.43 | 27.64 | 28.78 | 29.16 |
|                 | 6H   | 27.45            | 28.55 | 27.87 | 28.92 | 29.32 | 27.45          | 28.55 | 27.87 | 28.92 | 29.32 |
|                 | 8H   | 27.51            | 28.55 | 27.94 | 28.95 | 29.35 | 27.51          | 28.55 | 27.94 | 28.95 | 29.35 |
|                 | 12H  | 27.53            | 28.53 | 27.96 | 28.91 | 29.34 | 27.53          | 28.53 | 27.96 | 28.91 | 29.34 |
| 4H              | 2H   | 26.02            | 27.22 | 26.42 | 27.57 | 27.95 | 26.02          | 27.22 | 26.42 | 27.57 | 27.95 |
|                 | 3H   | 27.48            | 28.47 | 27.90 | 28.87 | 29.28 | 27.48          | 28.47 | 27.90 | 28.87 | 29.28 |
|                 | 4H   | 27.96            | 28.85 | 28.40 | 29.27 | 29.71 | 27.96          | 28.85 | 28.40 | 29.27 | 29.71 |
|                 | 6H   | 28.27            | 29.04 | 28.73 | 29.48 | 29.94 | 28.27          | 29.04 | 28.73 | 29.48 | 29.94 |
|                 | 8H   | 28.35            | 29.06 | 28.81 | 29.51 | 29.98 | 28.35          | 29.06 | 28.81 | 29.51 | 29.98 |
|                 | 12H  | 28.39            | 29.03 | 28.87 | 29.51 | 29.98 | 28.39          | 29.03 | 28.87 | 29.51 | 29.98 |
| 8H              | 4H   | 28.11            | 28.83 | 28.58 | 29.27 | 29.74 | 28.11          | 28.83 | 28.58 | 29.27 | 29.74 |
|                 | 6H   | 28.49            | 29.08 | 28.99 | 29.57 | 30.05 | 28.49          | 29.08 | 28.99 | 29.57 | 30.05 |
|                 | 8H   | 28.61            | 29.14 | 29.13 | 29.65 | 30.14 | 28.61          | 29.14 | 29.13 | 29.65 | 30.14 |
|                 | 12H  | 28.70            | 29.16 | 29.21 | 29.66 | 30.22 | 28.70          | 29.16 | 29.21 | 29.66 | 30.22 |
| 12H             | 4H   | 28.10            | 28.74 | 28.59 | 29.22 | 29.69 | 28.10          | 28.74 | 28.59 | 29.22 | 29.69 |
|                 | 6H   | 28.49            | 29.02 | 29.01 | 29.53 | 30.02 | 28.49          | 29.02 | 29.01 | 29.53 | 30.02 |
|                 | 8H   | 28.66            | 29.12 | 29.17 | 29.61 | 30.18 | 28.66          | 29.12 | 29.17 | 29.61 | 30.18 |