

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: P1036874

Luminaire Tested: UHBS2-4860-L8C5-MID-W-5000K

Issue Date: 5/30/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1036874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-430-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/30/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-4860-L8C5-MID-W-5000K  
Description: UHBS Selectable High Bay at MID lumen, 5000K CCT settings with Wide beam  
Light Source: -  
Ballast/Driver: -

**Summary**

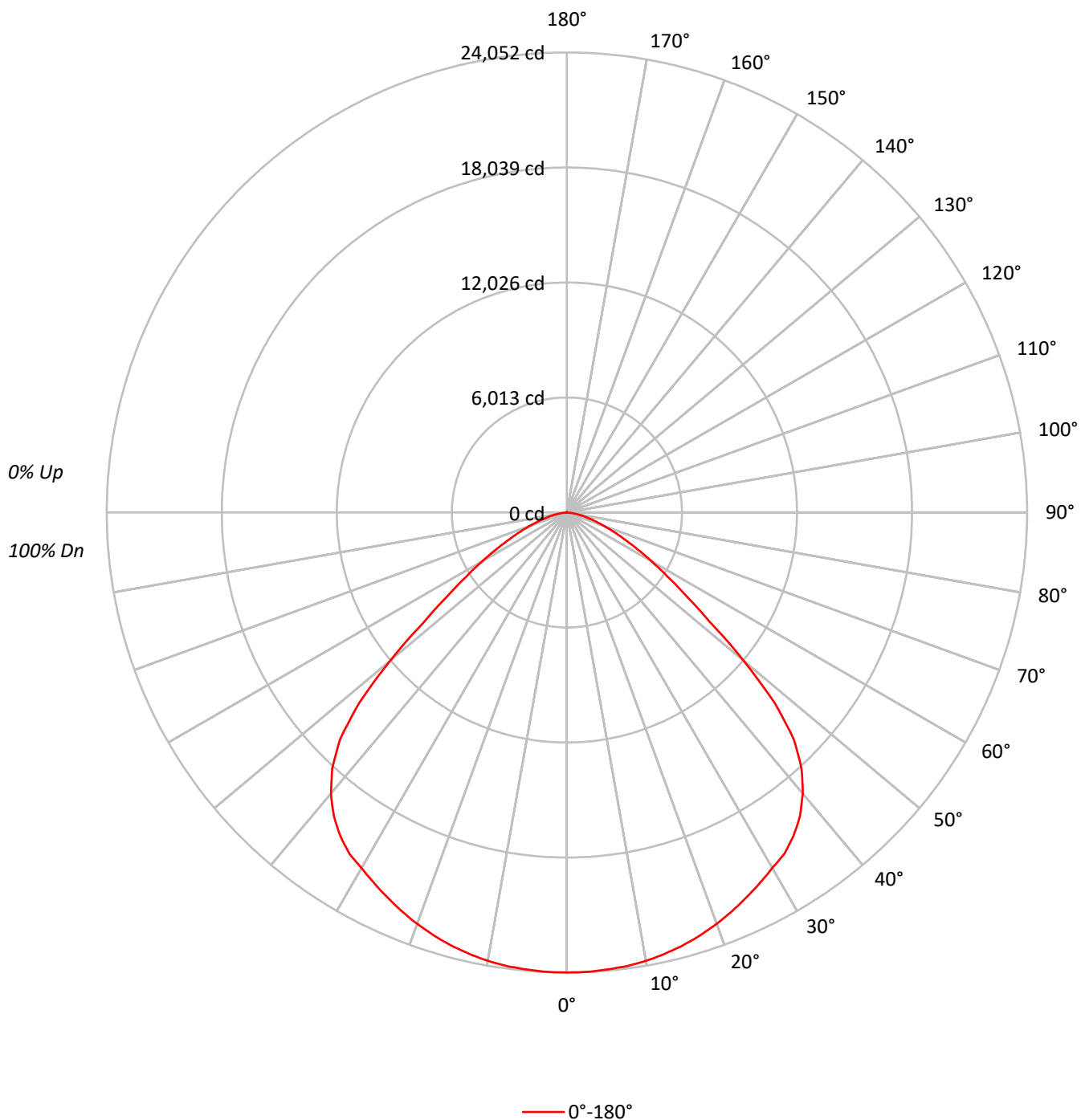
Lumens per Lamp: N/A  
Luminaire Lumens: 56654.8 lumens  
Efficiency: N/A  
Efficacy: 162.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.41  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 348.1  
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 | 105 | 102 | 99  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 93  |
| 2   | 102 | 95  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  |  | 87  | 83  | 80  |  | 84  |
| 3   | 94  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  |  | 78  | 74  | 70  |  | 76  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 60  | 55  | 66  | 59  | 54  |  | 64  | 58  | 54  |  | 62  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 48  | 60  | 53  | 48  |  | 58  | 52  | 48  |  | 57  |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  |  | 53  | 47  | 43  |  | 52  |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 39  |  | 49  | 43  | 38  |  | 48  |
| 9   | 61  | 48  | 40  | 35  | 59  | 47  | 40  | 35  | 46  | 40  | 35  |  | 45  | 39  | 35  |  | 44  |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  |  | 42  | 36  | 32  |  | 41  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 118669 |
| 5°  | 118805 |
| 10° | 119264 |
| 15° | 119662 |
| 20° | 120176 |
| 25° | 120887 |
| 30° | 122311 |
| 35° | 124371 |
| 40° | 123535 |
| 45° | 116964 |
| 50° | 92561  |
| 55° | 65493  |
| 60° | 50412  |
| 65° | 38893  |
| 70° | 30106  |
| 75° | 23257  |
| 80° | 17011  |
| 85° | 8101   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 116964 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2284.3  | 4.0       |
| 10°-20°   | 6619.0  | 11.7      |
| 20°-30°   | 10254.4 | 18.1      |
| 30°-40°   | 12871.8 | 22.7      |
| 40°-50°   | 12558.7 | 22.2      |
| 50°-60°   | 7091.6  | 12.5      |
| 60°-70°   | 3388.5  | 6.0       |
| 70°-80°   | 1333.1  | 2.4       |
| 80°-90°   | 226.8   | 0.4       |
| 90°-100°  | 0.8     | 0.0       |
| 100°-110° | 1.0     | 0.0       |
| 110°-120° | 1.3     | 0.0       |
| 120°-130° | 2.3     | 0.0       |
| 130°-140° | 4.3     | 0.0       |
| 140°-150° | 5.8     | 0.0       |
| 150°-160° | 5.4     | 0.0       |
| 160°-170° | 4.2     | 0.0       |
| 170°-180° | 1.7     | 0.0       |
| 0°-30°    | 19157.7 | 33.8      |
| 0°-40°    | 32029.5 | 56.5      |
| 0°-60°    | 51679.8 | 91.2      |
| 0°-90°    | 56628.2 | 100.0     |
| 90°-120°  | 3.0     | 0.0       |
| 90°-150°  | 15.4    | 0.0       |
| 90°-180°  | 27.0    | 0.0       |
| 0°-180°   | 56654.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux  |
|------|-------|-------|
| 0°   | 24052 |       |
| 5°   | 23988 | ###   |
| 15°  | 23427 | 6619  |
| 25°  | 22206 | 10254 |
| 35°  | 20649 | 12872 |
| 45°  | 16763 | 12559 |
| 55°  | 7614  | 7092  |
| 65°  | 3332  | 3389  |
| 75°  | 1220  | 1333  |
| 85°  | 143   | 221   |
| 90°  | 3     | 6     |
| 95°  | 0     | 0     |
| 105° | 1     | 1     |
| 115° | 1     | 1     |
| 125° | 3     | 2     |
| 135° | 6     | 4     |
| 145° | 9     | 6     |
| 155° | 11    | 5     |
| 165° | 15    | 4     |
| 175° | 18    | 2     |
| 180° | 19    |       |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 24052.1 |
| 2.5°   | 24039.9 |
| 5°     | 23988.1 |
| 7.5°   | 23919.4 |
| 10°    | 23805.5 |
| 12.5°  | 23632.3 |
| 15°    | 23427.1 |
| 17.5°  | 23179.5 |
| 20°    | 22888.6 |
| 22.5°  | 22556.3 |
| 25°    | 22206.1 |
| 27.5°  | 21841.8 |
| 30°    | 21469.0 |
| 32.5°  | 21154.6 |
| 35°    | 20649.1 |
| 37.5°  | 20009.9 |
| 40°    | 19180.5 |
| 42.5°  | 18154.4 |
| 45°    | 16763.1 |
| 47.5°  | 14710.9 |
| 50°    | 12059.0 |
| 52.5°  | 9445.8  |
| 55°    | 7613.8  |
| 57.5°  | 6232.8  |
| 60°    | 5108.8  |
| 62.5°  | 4148.6  |
| 65°    | 3331.5  |
| 67.5°  | 2653.7  |
| 70°    | 2087.0  |
| 72.5°  | 1615.4  |
| 75°    | 1220.0  |
| 77.5°  | 884.0   |
| 80°    | 598.7   |
| 82.5°  | 351.1   |
| 85°    | 143.1   |
| 87.5°  | 39.5    |
| 90°    | 2.8     |
| 92.5°  | 0.0     |
| 95°    | 0.0     |
| 97.5°  | 0.9     |
| 100°   | 0.9     |
| 102.5° | 0.9     |
| 105°   | 0.9     |
| 107.5° | 0.9     |
| 110°   | 0.9     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 0.9  |
| 115°   | 0.9  |
| 117.5° | 1.9  |
| 120°   | 1.9  |
| 122.5° | 1.9  |
| 125°   | 2.8  |
| 127.5° | 2.8  |
| 130°   | 3.8  |
| 132.5° | 4.7  |
| 135°   | 5.6  |
| 137.5° | 6.6  |
| 140°   | 7.5  |
| 142.5° | 8.5  |
| 145°   | 9.4  |
| 147.5° | 10.4 |
| 150°   | 10.4 |
| 152.5° | 11.3 |
| 155°   | 11.3 |
| 157.5° | 12.2 |
| 160°   | 13.2 |
| 162.5° | 14.1 |
| 165°   | 15.1 |
| 167.5° | 16.0 |
| 170°   | 16.9 |
| 172.5° | 16.9 |
| 175°   | 17.9 |
| 177.5° | 17.9 |
| 180°   | 18.8 |

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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 | 24.99            | 26.45 | 25.35 | 26.77 | 27.08 | 24.99          | 26.45 | 25.35 | 26.77 | 27.08 |
|                 | 3H   | 25.76            | 27.06 | 26.14 | 27.39 | 27.75 | 25.76          | 27.06 | 26.14 | 27.39 | 27.75 |
|                 | 4H   | 25.97            | 27.18 | 26.37 | 27.53 | 27.91 | 25.97          | 27.18 | 26.37 | 27.53 | 27.91 |
|                 | 6H   | 26.07            | 27.19 | 26.48 | 27.56 | 27.95 | 26.07          | 27.19 | 26.48 | 27.56 | 27.95 |
|                 | 8H   | 26.08            | 27.14 | 26.50 | 27.53 | 27.93 | 26.08          | 27.14 | 26.50 | 27.53 | 27.93 |
|                 | 12H  | 26.06            | 27.07 | 26.49 | 27.46 | 27.89 | 26.06          | 27.07 | 26.49 | 27.46 | 27.89 |
| 4H              | 2H   | 25.26            | 26.48 | 25.66 | 26.83 | 27.21 | 25.26          | 26.48 | 25.66 | 26.83 | 27.21 |
|                 | 3H   | 26.20            | 27.19 | 26.61 | 27.59 | 27.99 | 26.20          | 27.19 | 26.61 | 27.59 | 27.99 |
|                 | 4H   | 26.48            | 27.36 | 26.91 | 27.78 | 28.22 | 26.48          | 27.36 | 26.91 | 27.78 | 28.22 |
|                 | 6H   | 26.64            | 27.41 | 27.10 | 27.85 | 28.32 | 26.64          | 27.41 | 27.10 | 27.85 | 28.32 |
|                 | 8H   | 26.66            | 27.37 | 27.12 | 27.82 | 28.29 | 26.66          | 27.37 | 27.12 | 27.82 | 28.29 |
|                 | 12H  | 26.65            | 27.28 | 27.13 | 27.77 | 28.24 | 26.65          | 27.28 | 27.13 | 27.77 | 28.24 |
| 8H              | 4H   | 26.54            | 27.25 | 27.00 | 27.70 | 28.17 | 26.54          | 27.25 | 27.00 | 27.70 | 28.17 |
|                 | 6H   | 26.74            | 27.33 | 27.24 | 27.82 | 28.30 | 26.74          | 27.33 | 27.24 | 27.82 | 28.30 |
|                 | 8H   | 26.77            | 27.30 | 27.29 | 27.82 | 28.31 | 26.77          | 27.30 | 27.29 | 27.82 | 28.31 |
|                 | 12H  | 26.78            | 27.25 | 27.29 | 27.74 | 28.31 | 26.78          | 27.25 | 27.29 | 27.74 | 28.31 |
| 12H             | 4H   | 26.52            | 27.15 | 27.00 | 27.63 | 28.11 | 26.52          | 27.15 | 27.00 | 27.63 | 28.11 |
|                 | 6H   | 26.71            | 27.25 | 27.23 | 27.76 | 28.25 | 26.71          | 27.25 | 27.23 | 27.76 | 28.25 |
|                 | 8H   | 26.77            | 27.25 | 27.29 | 27.74 | 28.31 | 26.77          | 27.25 | 27.29 | 27.74 | 28.31 |