

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: P1036856

Luminaire Tested: UHBS2-4860-L8C5-LOW-W-3000K

Issue Date: 5/30/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1036856  
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-LOW-W-3000K  
Description: UHBS Selectable High Bay at LOW lumen, 3000K CCT settings with Wide beam  
Light Source: -  
Ballast/Driver: -

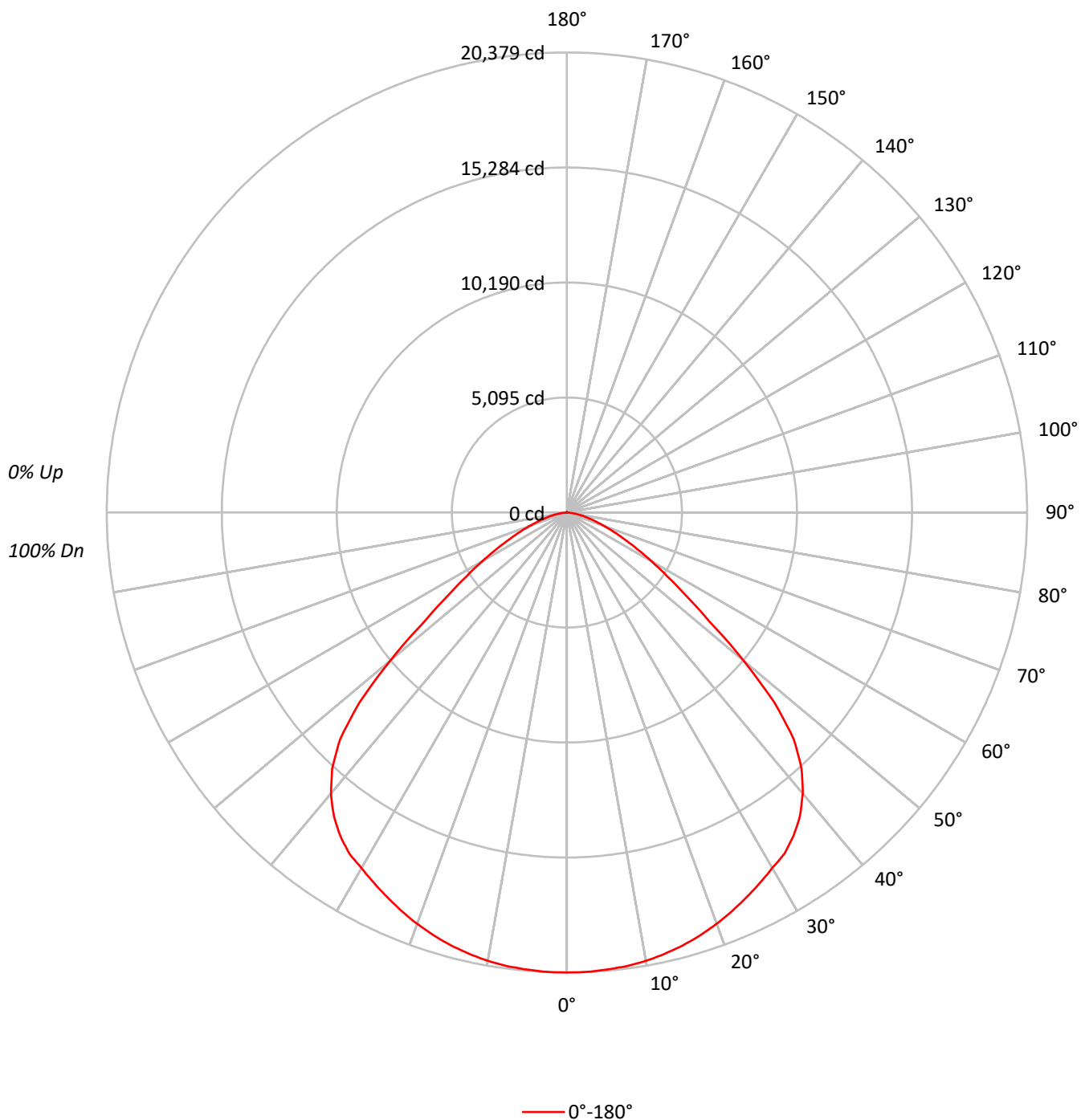
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48002.1 lumens  
Efficiency: N/A  
Efficacy: 151.1 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): 317.7  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9972  
Total Harmonic Distortion (THDi): 3.5666  
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°  | 100544 |
| 5°  | 100660 |
| 10° | 101049 |
| 15° | 101386 |
| 20° | 101821 |
| 25° | 102424 |
| 30° | 103630 |
| 35° | 105375 |
| 40° | 104667 |
| 45° | 99100  |
| 50° | 78424  |
| 55° | 55490  |
| 60° | 42713  |
| 65° | 32953  |
| 70° | 25509  |
| 75° | 19705  |
| 80° | 14414  |
| 85° | 6861   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 99100 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1935.5  | 4.0       |
| 10°-20°   | 5608.0  | 11.7      |
| 20°-30°   | 8688.2  | 18.1      |
| 30°-40°   | 10905.9 | 22.7      |
| 40°-50°   | 10640.6 | 22.2      |
| 50°-60°   | 6008.5  | 12.5      |
| 60°-70°   | 2871.0  | 6.0       |
| 70°-80°   | 1129.5  | 2.4       |
| 80°-90°   | 192.2   | 0.4       |
| 90°-100°  | 0.7     | 0.0       |
| 100°-110° | 0.8     | 0.0       |
| 110°-120° | 1.1     | 0.0       |
| 120°-130° | 2.0     | 0.0       |
| 130°-140° | 3.7     | 0.0       |
| 140°-150° | 4.9     | 0.0       |
| 150°-160° | 4.6     | 0.0       |
| 160°-170° | 3.6     | 0.0       |
| 170°-180° | 1.4     | 0.0       |
| 0°-30°    | 16231.7 | 33.8      |
| 0°-40°    | 27137.6 | 56.5      |
| 0°-60°    | 43786.7 | 91.2      |
| 0°-90°    | 47979.4 | 100.0     |
| 90°-120°  | 2.6     | 0.0       |
| 90°-150°  | 13.2    | 0.0       |
| 90°-180°  | 23.0    | 0.0       |
| 0°-180°   | 48002.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux  |
|------|-------|-------|
| 0°   | 20379 |       |
| 5°   | 20324 | ###   |
| 15°  | 19849 | 5608  |
| 25°  | 18814 | 8688  |
| 35°  | 17495 | 10906 |
| 45°  | 14203 | 10641 |
| 55°  | 6451  | 6008  |
| 65°  | 2823  | 2871  |
| 75°  | 1034  | 1130  |
| 85°  | 121   | 187   |
| 90°  | 2     | 5     |
| 95°  | 0     | 0     |
| 105° | 1     | 1     |
| 115° | 1     | 1     |
| 125° | 2     | 2     |
| 135° | 5     | 4     |
| 145° | 8     | 5     |
| 155° | 10    | 5     |
| 165° | 13    | 4     |
| 175° | 15    | 1     |
| 180° | 16    |       |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 20378.6 |
| 2.5°   | 20368.3 |
| 5°     | 20324.4 |
| 7.5°   | 20266.2 |
| 10°    | 20169.7 |
| 12.5°  | 20022.9 |
| 15°    | 19849.0 |
| 17.5°  | 19639.3 |
| 20°    | 19392.8 |
| 22.5°  | 19111.2 |
| 25°    | 18814.5 |
| 27.5°  | 18505.9 |
| 30°    | 18190.0 |
| 32.5°  | 17923.6 |
| 35°    | 17495.3 |
| 37.5°  | 16953.7 |
| 40°    | 16251.1 |
| 42.5°  | 15381.7 |
| 45°    | 14202.8 |
| 47.5°  | 12464.1 |
| 50°    | 10217.2 |
| 52.5°  | 8003.1  |
| 55°    | 6451.0  |
| 57.5°  | 5280.9  |
| 60°    | 4328.6  |
| 62.5°  | 3515.0  |
| 65°    | 2822.7  |
| 67.5°  | 2248.4  |
| 70°    | 1768.3  |
| 72.5°  | 1368.7  |
| 75°    | 1033.7  |
| 77.5°  | 748.9   |
| 80°    | 507.3   |
| 82.5°  | 297.5   |
| 85°    | 121.2   |
| 87.5°  | 33.5    |
| 90°    | 2.4     |
| 92.5°  | 0.0     |
| 95°    | 0.0     |
| 97.5°  | 0.8     |
| 100°   | 0.8     |
| 102.5° | 0.8     |
| 105°   | 0.8     |
| 107.5° | 0.8     |
| 110°   | 0.8     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 0.8  |
| 115°   | 0.8  |
| 117.5° | 1.6  |
| 120°   | 1.6  |
| 122.5° | 1.6  |
| 125°   | 2.4  |
| 127.5° | 2.4  |
| 130°   | 3.2  |
| 132.5° | 4.0  |
| 135°   | 4.8  |
| 137.5° | 5.6  |
| 140°   | 6.4  |
| 142.5° | 7.2  |
| 145°   | 8.0  |
| 147.5° | 8.8  |
| 150°   | 8.8  |
| 152.5° | 9.6  |
| 155°   | 9.6  |
| 157.5° | 10.4 |
| 160°   | 11.2 |
| 162.5° | 12.0 |
| 165°   | 12.8 |
| 167.5° | 13.6 |
| 170°   | 14.4 |
| 172.5° | 14.4 |
| 175°   | 15.2 |
| 177.5° | 15.2 |
| 180°   | 16.0 |

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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 | 24.41            | 25.88 | 24.78 | 26.19 | 26.51 | 24.41          | 25.88 | 24.78 | 26.19 | 26.51 |
|                 | 3H   | 25.18            | 26.48 | 25.56 | 26.81 | 27.18 | 25.18          | 26.48 | 25.56 | 26.81 | 27.18 |
|                 | 4H   | 25.39            | 26.61 | 25.79 | 26.96 | 27.34 | 25.39          | 26.61 | 25.79 | 26.96 | 27.34 |
|                 | 6H   | 25.49            | 26.61 | 25.91 | 26.98 | 27.37 | 25.49          | 26.61 | 25.91 | 26.98 | 27.37 |
|                 | 8H   | 25.50            | 26.56 | 25.93 | 26.95 | 27.36 | 25.50          | 26.56 | 25.93 | 26.95 | 27.36 |
|                 | 12H  | 25.48            | 26.50 | 25.91 | 26.88 | 27.31 | 25.48          | 26.50 | 25.91 | 26.88 | 27.31 |
| 4H              | 2H   | 24.69            | 25.90 | 25.09 | 26.25 | 26.63 | 24.69          | 25.90 | 25.09 | 26.25 | 26.63 |
|                 | 3H   | 25.62            | 26.61 | 26.03 | 27.01 | 27.42 | 25.62          | 26.61 | 26.03 | 27.01 | 27.42 |
|                 | 4H   | 25.90            | 26.79 | 26.34 | 27.21 | 27.65 | 25.90          | 26.79 | 26.34 | 27.21 | 27.65 |
|                 | 6H   | 26.07            | 26.83 | 26.53 | 27.28 | 27.74 | 26.07          | 26.83 | 26.53 | 27.28 | 27.74 |
|                 | 8H   | 26.08            | 26.80 | 26.55 | 27.24 | 27.71 | 26.08          | 26.80 | 26.55 | 27.24 | 27.71 |
|                 | 12H  | 26.07            | 26.71 | 26.56 | 27.19 | 27.66 | 26.07          | 26.71 | 26.56 | 27.19 | 27.66 |
| 8H              | 4H   | 25.96            | 26.68 | 26.43 | 27.12 | 27.59 | 25.96          | 26.68 | 26.43 | 27.12 | 27.59 |
|                 | 6H   | 26.16            | 26.75 | 26.66 | 27.25 | 27.73 | 26.16          | 26.75 | 26.66 | 27.25 | 27.73 |
|                 | 8H   | 26.20            | 26.73 | 26.72 | 27.24 | 27.73 | 26.20          | 26.73 | 26.72 | 27.24 | 27.73 |
|                 | 12H  | 26.20            | 26.67 | 26.71 | 27.17 | 27.74 | 26.20          | 26.67 | 26.71 | 27.17 | 27.74 |
| 12H             | 4H   | 25.94            | 26.58 | 26.42 | 27.06 | 27.53 | 25.94          | 26.58 | 26.42 | 27.06 | 27.53 |
|                 | 6H   | 26.14            | 26.67 | 26.66 | 27.18 | 27.67 | 26.14          | 26.67 | 26.66 | 27.18 | 27.67 |
|                 | 8H   | 26.20            | 26.67 | 26.71 | 27.17 | 27.73 | 26.20          | 26.67 | 26.71 | 27.17 | 27.73 |