

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: P980649

Luminaire Tested: UHBS2-1218-W-L83065-MID-3500K-FRR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-1218-W-L83065-MID-3500K-FRR3  
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

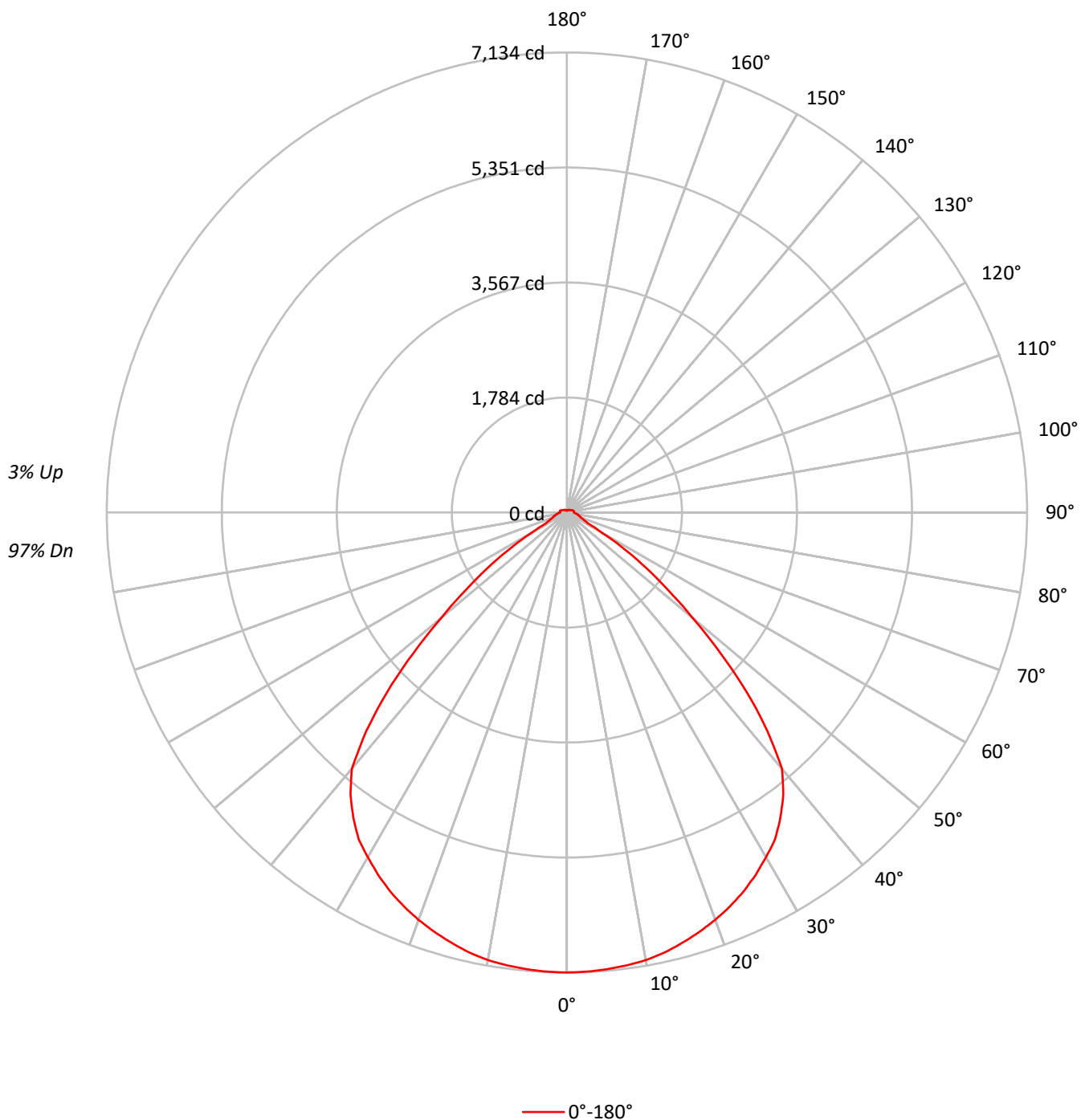
Lumens per Lamp: N/A  
Luminaire Lumens: 14755.0 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 97.6  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 7.15  
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 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 |
| 1   | 111 | 107 | 104 | 101 | 108 | 104 | 101 | 99  | 100 | 97  | 95  | 95  | 93  | 92  | 91 | 90 | 88 |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 90  | 86  | 83  | 87  | 83  | 80  | 83 | 81 | 78 |
| 3   | 95  | 87  | 80  | 75  | 93  | 85  | 79  | 74  | 82  | 77  | 73  | 79  | 75  | 71  | 76 | 73 | 70 |
| 4   | 89  | 79  | 72  | 66  | 86  | 77  | 71  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70 | 65 | 62 |
| 5   | 82  | 72  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 60  | 56  | 64 | 59 | 55 |
| 6   | 77  | 65  | 58  | 52  | 75  | 64  | 57  | 52  | 62  | 56  | 51  | 60  | 55  | 50  | 59 | 54 | 50 |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 54 | 49 | 45 |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 51  | 45  | 41  | 50 | 45 | 41 |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 47  | 42  | 38  | 46 | 41 | 37 |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 38  | 34  | 43 | 38 | 34 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 71910 |
| 5°  | 70258 |
| 10° | 68836 |
| 15° | 67197 |
| 20° | 65592 |
| 25° | 63972 |
| 30° | 62068 |
| 35° | 59634 |
| 40° | 55525 |
| 45° | 44210 |
| 50° | 30087 |
| 55° | 18969 |
| 60° | 8881  |
| 65° | 4679  |
| 70° | 3975  |
| 75° | 3820  |
| 80° | 3773  |
| 85° | 3767  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44210 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 676.8   | 4.6       |
| 10°-20°   | 1951.6  | 13.2      |
| 20°-30°   | 2986.8  | 20.2      |
| 30°-40°   | 3595.0  | 24.4      |
| 40°-50°   | 3000.9  | 20.3      |
| 50°-60°   | 1359.7  | 9.2       |
| 60°-70°   | 345.3   | 2.3       |
| 70°-80°   | 210.2   | 1.4       |
| 80°-90°   | 146.7   | 1.0       |
| 90°-100°  | 118.4   | 0.8       |
| 100°-110° | 111.6   | 0.8       |
| 110°-120° | 83.0    | 0.6       |
| 120°-130° | 59.2    | 0.4       |
| 130°-140° | 44.5    | 0.3       |
| 140°-150° | 31.9    | 0.2       |
| 150°-160° | 20.4    | 0.1       |
| 160°-170° | 10.3    | 0.1       |
| 170°-180° | 2.7     | 0.0       |
| 0°-30°    | 5615.3  | 38.1      |
| 0°-40°    | 9210.3  | 62.4      |
| 0°-60°    | 13570.9 | 92.0      |
| 0°-90°    | 14273.1 | 96.7      |
| 90°-120°  | 313.0   | 2.1       |
| 90°-150°  | 448.5   | 3.0       |
| 90°-180°  | 482.0   | 3.3       |
| 0°-180°   | 14755.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 7134 |      |
| 5°   | 7109 | 677  |
| 15°  | 6910 | 1952 |
| 25°  | 6484 | 2987 |
| 35°  | 5772 | 3595 |
| 45°  | 3948 | 3001 |
| 55°  | 1500 | 1360 |
| 65°  | 311  | 345  |
| 75°  | 198  | 210  |
| 85°  | 134  | 116  |
| 90°  | 105  | 60   |
| 95°  | 108  | 89   |
| 105° | 106  | 112  |
| 115° | 83   | 83   |
| 125° | 66   | 59   |
| 135° | 57   | 44   |
| 145° | 50   | 32   |
| 155° | 44   | 20   |
| 165° | 36   | 10   |
| 175° | 28   | 3    |
| 180° | 27   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 7133.6 |
| 2.5°   | 7128.0 |
| 5°     | 7109.0 |
| 7.5°   | 7085.5 |
| 10°    | 7048.6 |
| 12.5°  | 6990.4 |
| 15°    | 6909.9 |
| 17.5°  | 6821.5 |
| 20°    | 6721.9 |
| 22.5°  | 6610.1 |
| 25°    | 6483.7 |
| 27.5°  | 6334.9 |
| 30°    | 6172.7 |
| 32.5°  | 6006.0 |
| 35°    | 5772.2 |
| 37.5°  | 5510.4 |
| 40°    | 5186.0 |
| 42.5°  | 4605.5 |
| 45°    | 3947.7 |
| 47.5°  | 3228.4 |
| 50°    | 2542.7 |
| 52.5°  | 1981.1 |
| 55°    | 1500.1 |
| 57.5°  | 1057.1 |
| 60°    | 648.8  |
| 62.5°  | 378.1  |
| 65°    | 311.0  |
| 67.5°  | 268.5  |
| 70°    | 236.0  |
| 72.5°  | 215.9  |
| 75°    | 198.0  |
| 77.5°  | 181.2  |
| 80°    | 165.6  |
| 82.5°  | 149.9  |
| 85°    | 134.2  |
| 87.5°  | 118.6  |
| 90°    | 105.2  |
| 92.5°  | 106.3  |
| 95°    | 108.5  |
| 97.5°  | 110.7  |
| 100°   | 111.9  |
| 102.5° | 109.6  |
| 105°   | 106.3  |
| 107.5° | 101.8  |
| 110°   | 96.2   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 89.5 |
| 115°   | 82.8 |
| 117.5° | 77.2 |
| 120°   | 72.7 |
| 122.5° | 68.2 |
| 125°   | 66.0 |
| 127.5° | 62.6 |
| 130°   | 60.4 |
| 132.5° | 59.3 |
| 135°   | 57.1 |
| 137.5° | 55.9 |
| 140°   | 53.7 |
| 142.5° | 52.6 |
| 145°   | 50.3 |
| 147.5° | 49.2 |
| 150°   | 47.0 |
| 152.5° | 45.9 |
| 155°   | 43.6 |
| 157.5° | 42.5 |
| 160°   | 40.3 |
| 162.5° | 38.0 |
| 165°   | 35.8 |
| 167.5° | 33.6 |
| 170°   | 31.3 |
| 172.5° | 28.0 |
| 175°   | 28.0 |
| 177.5° | 28.0 |
| 180°   | 26.8 |

(END OF REPORT)