

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: P980736

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-3000K-FRR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980736  
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: UHBS2-2436-W-L83065-HIGH-3000K-FRR3  
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

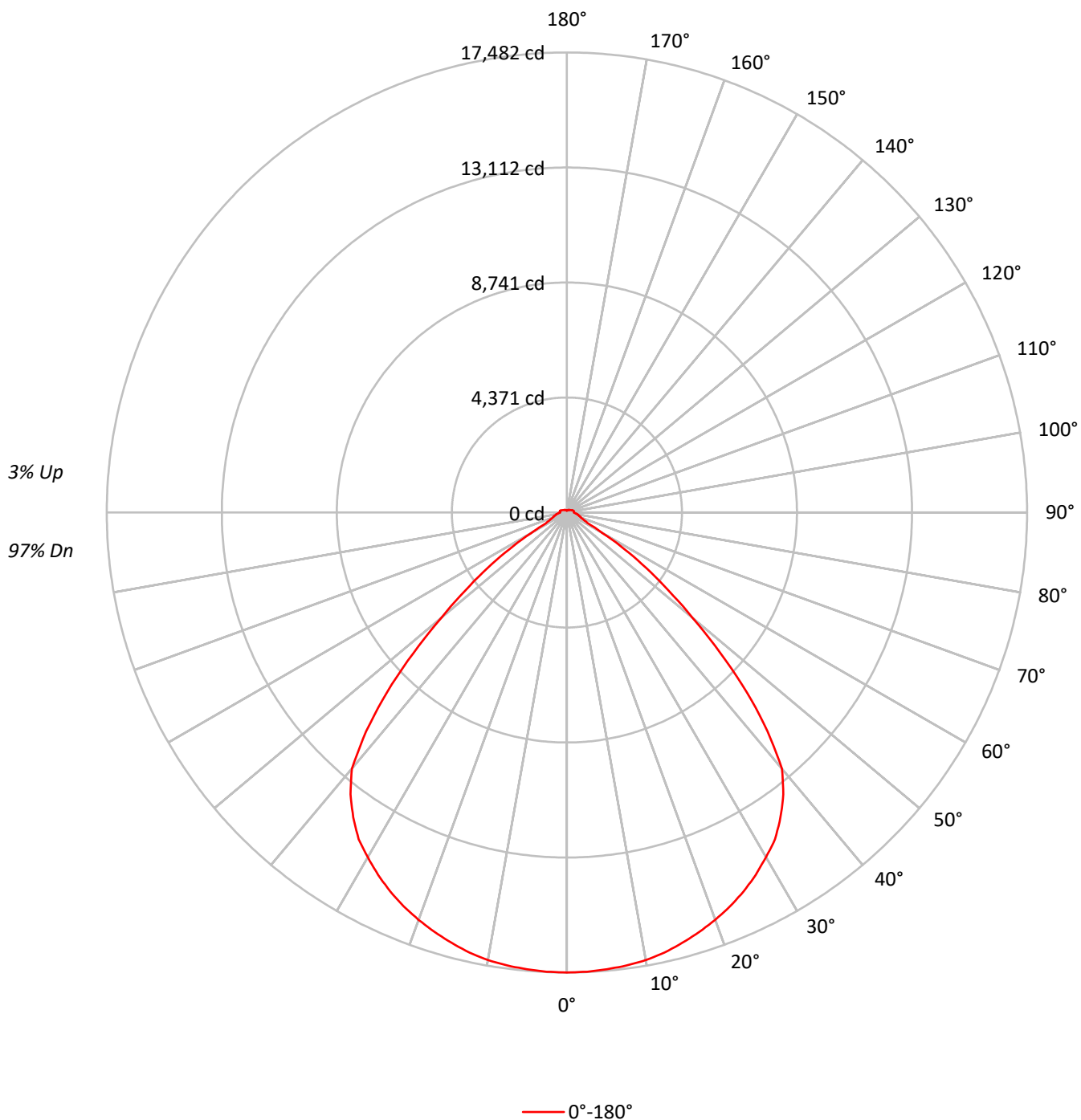
Lumens per Lamp: N/A  
Luminaire Lumens: 36159.0 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31  
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 239.4  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.999  
Total Harmonic Distortion (THDi): 5.15  
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°  | 134031 |
| 5°  | 131343 |
| 10° | 129058 |
| 15° | 126347 |
| 20° | 123684 |
| 25° | 120981 |
| 30° | 117734 |
| 35° | 113478 |
| 40° | 106017 |
| 45° | 84724  |
| 50° | 57896  |
| 55° | 36671  |
| 60° | 17262  |
| 65° | 9153   |
| 70° | 7838   |
| 75° | 7611   |
| 80° | 7622   |
| 85° | 7777   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84724 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1658.6  | 4.6       |
| 10°-20°   | 4782.7  | 13.2      |
| 20°-30°   | 7319.6  | 20.2      |
| 30°-40°   | 8810.1  | 24.4      |
| 40°-50°   | 7354.0  | 20.3      |
| 50°-60°   | 3332.2  | 9.2       |
| 60°-70°   | 846.1   | 2.3       |
| 70°-80°   | 515.2   | 1.4       |
| 80°-90°   | 359.5   | 1.0       |
| 90°-100°  | 290.1   | 0.8       |
| 100°-110° | 273.5   | 0.8       |
| 110°-120° | 203.5   | 0.6       |
| 120°-130° | 145.0   | 0.4       |
| 130°-140° | 109.0   | 0.3       |
| 140°-150° | 78.1    | 0.2       |
| 150°-160° | 50.0    | 0.1       |
| 160°-170° | 25.2    | 0.1       |
| 170°-180° | 6.7     | 0.0       |
| 0°-30°    | 13760.9 | 38.1      |
| 0°-40°    | 22571.0 | 62.4      |
| 0°-60°    | 33257.1 | 92.0      |
| 0°-90°    | 34977.9 | 96.7      |
| 90°-120°  | 767.0   | 2.1       |
| 90°-150°  | 1099.2  | 3.0       |
| 90°-180°  | 1181.0  | 3.3       |
| 0°-180°   | 36159.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 17482 |      |
| 5°   | 17422 | ###  |
| 15°  | 16934 | 4783 |
| 25°  | 15889 | 7320 |
| 35°  | 14146 | 8810 |
| 45°  | 9674  | 7354 |
| 55°  | 3676  | 3332 |
| 65°  | 762   | 846  |
| 75°  | 485   | 515  |
| 85°  | 329   | 284  |
| 90°  | 258   | 146  |
| 95°  | 266   | 219  |
| 105° | 260   | 274  |
| 115° | 203   | 203  |
| 125° | 162   | 145  |
| 135° | 140   | 109  |
| 145° | 123   | 78   |
| 155° | 107   | 50   |
| 165° | 88    | 25   |
| 175° | 68    | 7    |
| 180° | 66    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 17481.8 |
| 2.5°   | 17468.1 |
| 5°     | 17421.5 |
| 7.5°   | 17363.9 |
| 10°    | 17273.4 |
| 12.5°  | 17130.9 |
| 15°    | 16933.5 |
| 17.5°  | 16716.9 |
| 20°    | 16473.0 |
| 22.5°  | 16198.8 |
| 25°    | 15889.0 |
| 27.5°  | 15524.4 |
| 30°    | 15126.9 |
| 32.5°  | 14718.5 |
| 35°    | 14145.5 |
| 37.5°  | 13504.0 |
| 40°    | 12709.0 |
| 42.5°  | 11286.3 |
| 45°    | 9674.3  |
| 47.5°  | 7911.6  |
| 50°    | 6231.2  |
| 52.5°  | 4855.0  |
| 55°    | 3676.2  |
| 57.5°  | 2590.6  |
| 60°    | 1590.0  |
| 62.5°  | 926.6   |
| 65°    | 762.1   |
| 67.5°  | 657.9   |
| 70°    | 578.4   |
| 72.5°  | 529.1   |
| 75°    | 485.2   |
| 77.5°  | 444.1   |
| 80°    | 405.7   |
| 82.5°  | 367.3   |
| 85°    | 329.0   |
| 87.5°  | 290.6   |
| 90°    | 257.7   |
| 92.5°  | 260.4   |
| 95°    | 265.9   |
| 97.5°  | 271.4   |
| 100°   | 274.1   |
| 102.5° | 268.7   |
| 105°   | 260.4   |
| 107.5° | 249.5   |
| 110°   | 235.8   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 219.3 |
| 115°   | 202.9 |
| 117.5° | 189.2 |
| 120°   | 178.2 |
| 122.5° | 167.2 |
| 125°   | 161.7 |
| 127.5° | 153.5 |
| 130°   | 148.0 |
| 132.5° | 145.3 |
| 135°   | 139.8 |
| 137.5° | 137.1 |
| 140°   | 131.6 |
| 142.5° | 128.8 |
| 145°   | 123.4 |
| 147.5° | 120.6 |
| 150°   | 115.1 |
| 152.5° | 112.4 |
| 155°   | 106.9 |
| 157.5° | 104.2 |
| 160°   | 98.7  |
| 162.5° | 93.2  |
| 165°   | 87.7  |
| 167.5° | 82.2  |
| 170°   | 76.8  |
| 172.5° | 68.5  |
| 175°   | 68.5  |
| 177.5° | 68.5  |
| 180°   | 65.8  |

(END OF REPORT)