

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: P980749

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-6500K-FRR6

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-W-L83065-HIGH-6500K-FRR6  
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

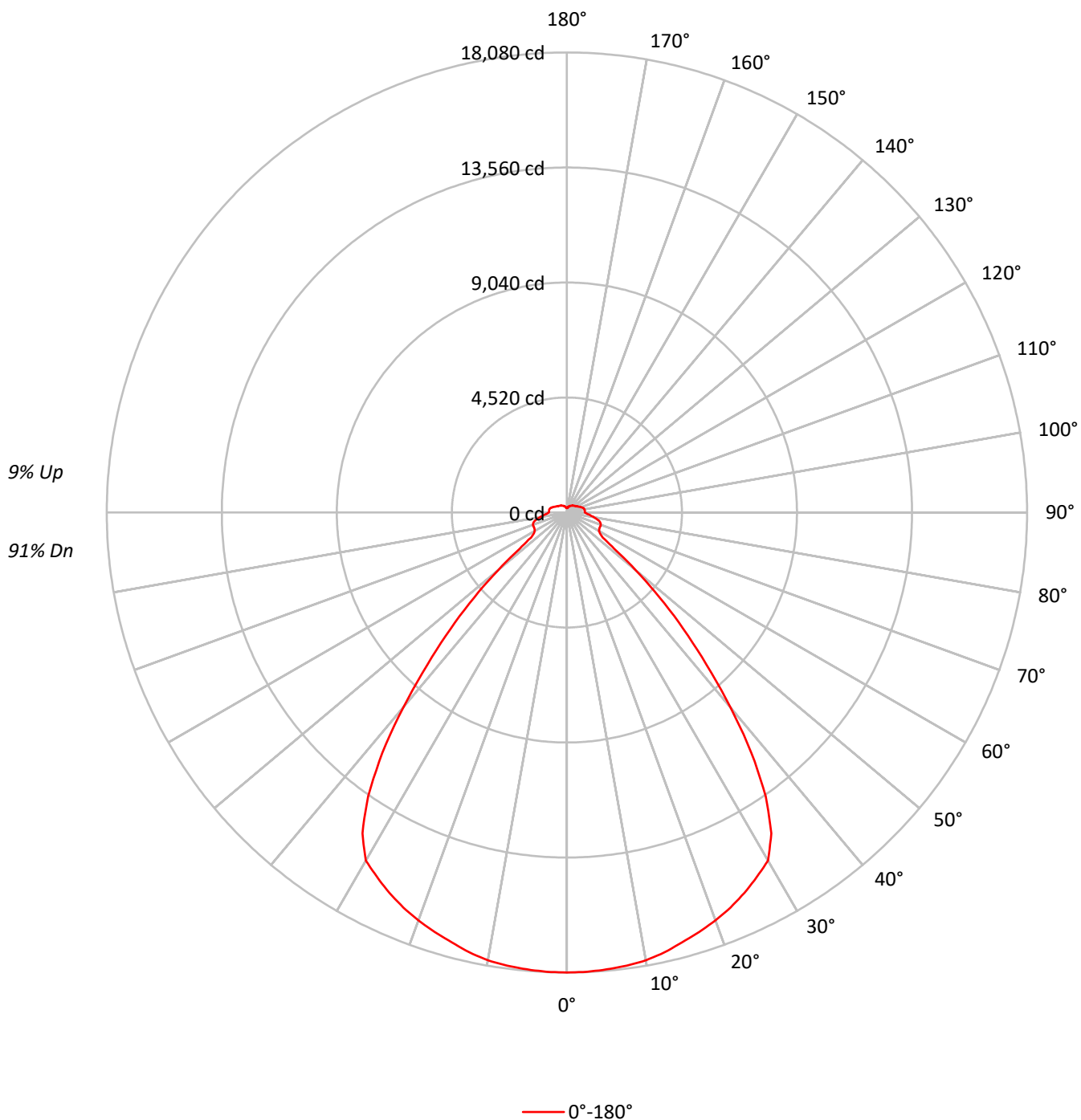
Lumens per Lamp: N/A  
Luminaire Lumens: 36235.1 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18  
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')  
CIE Type: Direct

Input Watts (W): 239.1  
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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |    |
| 0   | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 |  | 100 | 100 | 100 |  | 94 |
| 1   | 108 | 104 | 101 | 97  | 105 | 101 | 98  | 95  | 95  | 93  | 90  |  | 90  | 88  | 86  |  | 85 |
| 2   | 100 | 94  | 88  | 83  | 97  | 91  | 86  | 81  | 86  | 82  | 78  |  | 82  | 78  | 75  |  | 78 |
| 3   | 93  | 85  | 78  | 72  | 90  | 82  | 76  | 71  | 78  | 73  | 69  |  | 75  | 70  | 67  |  | 71 |
| 4   | 87  | 77  | 69  | 64  | 84  | 75  | 68  | 63  | 72  | 66  | 61  |  | 68  | 63  | 60  |  | 65 |
| 5   | 81  | 70  | 62  | 57  | 78  | 68  | 61  | 56  | 66  | 59  | 55  |  | 63  | 58  | 53  |  | 60 |
| 6   | 76  | 64  | 57  | 51  | 73  | 63  | 56  | 50  | 60  | 54  | 49  |  | 58  | 53  | 48  |  | 56 |
| 7   | 71  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 56  | 49  | 45  |  | 54  | 48  | 44  |  | 52 |
| 8   | 66  | 55  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 45  | 41  |  | 50  | 44  | 40  |  | 48 |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 43  | 38  | 48  | 42  | 37  |  | 46  | 41  | 37  |  | 45 |
| 10  | 59  | 47  | 40  | 35  | 57  | 46  | 39  | 35  | 45  | 39  | 34  |  | 43  | 38  | 34  |  | 42 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 114356 |
| 5°  | 110264 |
| 10° | 106669 |
| 15° | 102635 |
| 20° | 99200  |
| 25° | 95821  |
| 30° | 92322  |
| 35° | 80710  |
| 40° | 60592  |
| 45° | 40379  |
| 50° | 23009  |
| 55° | 11752  |
| 60° | 10540  |
| 65° | 11010  |
| 70° | 11984  |
| 75° | 12338  |
| 80° | 11404  |
| 85° | 10286  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40379 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1716.0  | 4.7       |
| 10°-20°   | 4945.0  | 13.6      |
| 20°-30°   | 7606.4  | 21.0      |
| 30°-40°   | 8310.7  | 22.9      |
| 40°-50°   | 5020.7  | 13.9      |
| 50°-60°   | 1803.4  | 5.0       |
| 60°-70°   | 1415.7  | 3.9       |
| 70°-80°   | 1365.1  | 3.8       |
| 80°-90°   | 940.4   | 2.6       |
| 90°-100°  | 767.5   | 2.1       |
| 100°-110° | 702.5   | 1.9       |
| 110°-120° | 533.5   | 1.5       |
| 120°-130° | 393.0   | 1.1       |
| 130°-140° | 293.6   | 0.8       |
| 140°-150° | 207.2   | 0.6       |
| 150°-160° | 131.7   | 0.4       |
| 160°-170° | 65.8    | 0.2       |
| 170°-180° | 17.0    | 0.0       |
| 0°-30°    | 14267.4 | 39.4      |
| 0°-40°    | 22578.0 | 62.3      |
| 0°-60°    | 29402.1 | 81.1      |
| 0°-90°    | 33123.3 | 91.4      |
| 90°-120°  | 2003.5  | 5.5       |
| 90°-150°  | 2897.2  | 8.0       |
| 90°-180°  | 3112.0  | 8.6       |
| 0°-180°   | 36235.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 18080 |      |
| 5°   | 18024 | ###  |
| 15°  | 17490 | 4945 |
| 25°  | 16499 | 7606 |
| 35°  | 13618 | 8311 |
| 45°  | 6466  | 5021 |
| 55°  | 1724  | 1803 |
| 65°  | 1418  | 1416 |
| 75°  | 1320  | 1365 |
| 85°  | 842   | 740  |
| 90°  | 708   | 394  |
| 95°  | 702   | 574  |
| 105° | 671   | 703  |
| 115° | 534   | 534  |
| 125° | 435   | 393  |
| 135° | 379   | 294  |
| 145° | 328   | 207  |
| 155° | 284   | 132  |
| 165° | 230   | 66   |
| 175° | 174   | 17   |
| 180° | 171   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 18079.8 |
| 2.5°   | 18068.6 |
| 5°     | 18023.6 |
| 7.5°   | 17964.7 |
| 10°    | 17874.8 |
| 12.5°  | 17706.3 |
| 15°    | 17490.1 |
| 17.5°  | 17285.2 |
| 20°    | 17057.7 |
| 22.5°  | 16802.2 |
| 25°    | 16499.0 |
| 27.5°  | 16153.6 |
| 30°    | 15797.0 |
| 32.5°  | 14949.0 |
| 35°    | 13618.1 |
| 37.5°  | 11910.9 |
| 40°    | 10001.6 |
| 42.5°  | 8103.5  |
| 45°    | 6466.5  |
| 47.5°  | 4939.0  |
| 50°    | 3543.5  |
| 52.5°  | 2338.9  |
| 55°    | 1724.0  |
| 57.5°  | 1549.9  |
| 60°    | 1457.3  |
| 62.5°  | 1429.2  |
| 65°    | 1418.0  |
| 67.5°  | 1420.8  |
| 70°    | 1418.0  |
| 72.5°  | 1387.1  |
| 75°    | 1319.7  |
| 77.5°  | 1210.2  |
| 80°    | 1081.0  |
| 82.5°  | 954.7   |
| 85°    | 842.4   |
| 87.5°  | 758.1   |
| 90°    | 707.6   |
| 92.5°  | 702.0   |
| 95°    | 702.0   |
| 97.5°  | 704.8   |
| 100°   | 702.0   |
| 102.5° | 690.7   |
| 105°   | 671.1   |
| 107.5° | 640.2   |
| 110°   | 603.7   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 570.0 |
| 115°   | 533.5 |
| 117.5° | 502.6 |
| 120°   | 477.3 |
| 122.5° | 454.9 |
| 125°   | 435.2 |
| 127.5° | 418.4 |
| 130°   | 404.3 |
| 132.5° | 390.3 |
| 135°   | 379.1 |
| 137.5° | 365.0 |
| 140°   | 353.8 |
| 142.5° | 339.8 |
| 145°   | 328.5 |
| 147.5° | 317.3 |
| 150°   | 306.1 |
| 152.5° | 294.8 |
| 155°   | 283.6 |
| 157.5° | 272.4 |
| 160°   | 258.3 |
| 162.5° | 244.3 |
| 165°   | 230.2 |
| 167.5° | 213.4 |
| 170°   | 196.6 |
| 172.5° | 174.1 |
| 175°   | 174.1 |
| 177.5° | 171.3 |
| 180°   | 171.3 |

(END OF REPORT)