

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: P980707

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-3500K-CLR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-N-L83065-HIGH-3500K-CLR3  
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

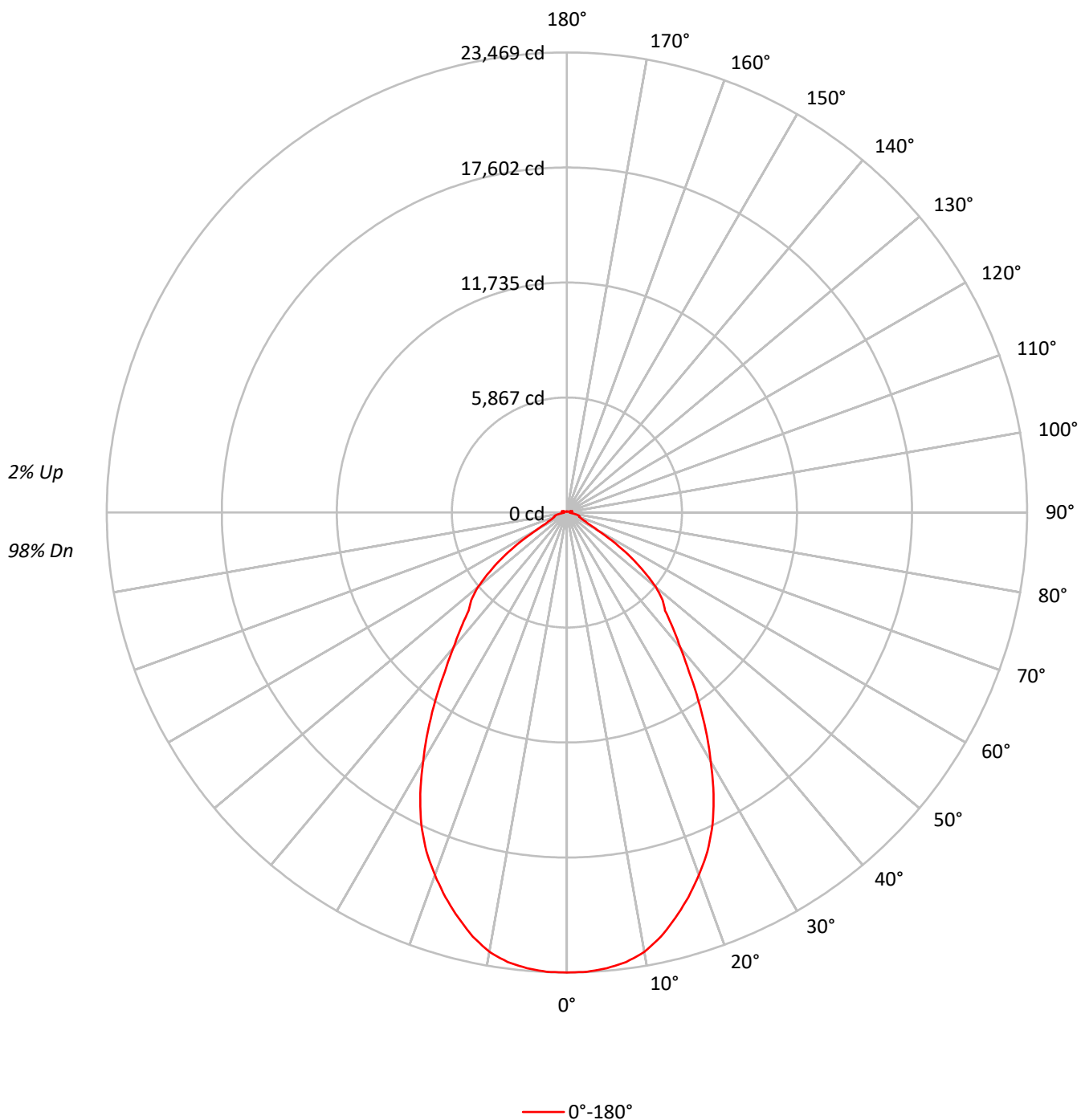
Lumens per Lamp: N/A  
Luminaire Lumens: 35308.0 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03  
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 235.5  
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   | 119 | 119 | 119 | 119 | 115 | 115 | 115 | 115 | 110 | 110 | 110 |  | 105 | 105 | 105 |  | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 100 | 101 | 98  | 96  |  | 96  | 94  | 93  |  | 93  |
| 2   | 104 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 92  | 88  | 84  |  | 88  | 85  | 82  |  | 85  |
| 3   | 97  | 88  | 82  | 77  | 94  | 87  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 73  |  | 78  |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 76  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 5   | 84  | 74  | 66  | 61  | 82  | 72  | 66  | 60  | 70  | 64  | 60  |  | 68  | 63  | 59  |  | 66  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  |  | 63  | 58  | 53  |  | 61  |
| 7   | 74  | 62  | 55  | 50  | 72  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 57  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  |  | 54  | 49  | 45  |  | 53  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  |
| 10  | 62  | 50  | 43  | 39  | 60  | 49  | 43  | 38  | 48  | 42  | 38  |  | 47  | 42  | 38  |  | 46  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 179932 |
| 5°  | 175953 |
| 10° | 170077 |
| 15° | 159688 |
| 20° | 147801 |
| 25° | 133796 |
| 30° | 114222 |
| 35° | 93660  |
| 40° | 75040  |
| 45° | 61996  |
| 50° | 55084  |
| 55° | 39993  |
| 60° | 19551  |
| 65° | 11421  |
| 70° | 9401   |
| 75° | 9749   |
| 80° | 7060   |
| 85° | 4236   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61996 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2210.2  | 6.3       |
| 10°-20°   | 6005.5  | 17.0      |
| 20°-30°   | 7995.3  | 22.6      |
| 30°-40°   | 7297.8  | 20.7      |
| 40°-50°   | 5616.0  | 15.9      |
| 50°-60°   | 3500.2  | 9.9       |
| 60°-70°   | 1033.3  | 2.9       |
| 70°-80°   | 619.6   | 1.8       |
| 80°-90°   | 226.0   | 0.6       |
| 90°-100°  | 200.1   | 0.6       |
| 100°-110° | 261.0   | 0.7       |
| 110°-120° | 129.1   | 0.4       |
| 120°-130° | 68.2    | 0.2       |
| 130°-140° | 51.8    | 0.1       |
| 140°-150° | 41.8    | 0.1       |
| 150°-160° | 30.3    | 0.1       |
| 160°-170° | 16.8    | 0.0       |
| 170°-180° | 5.1     | 0.0       |
| 0°-30°    | 16211.0 | 45.9      |
| 0°-40°    | 23508.8 | 66.6      |
| 0°-60°    | 32625.0 | 92.4      |
| 0°-90°    | 34503.9 | 97.7      |
| 90°-120°  | 590.1   | 1.7       |
| 90°-150°  | 751.9   | 2.1       |
| 90°-180°  | 804.0   | 2.3       |
| 0°-180°   | 35308.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 23469 |      |
| 5°   | 23339 | ###  |
| 15°  | 21402 | 6006 |
| 25°  | 17572 | 7995 |
| 35°  | 11675 | 7298 |
| 45°  | 7079  | 5616 |
| 55°  | 4009  | 3500 |
| 65°  | 951   | 1033 |
| 75°  | 622   | 620  |
| 85°  | 179   | 188  |
| 90°  | 133   | 76   |
| 95°  | 176   | 162  |
| 105° | 260   | 261  |
| 115° | 124   | 129  |
| 125° | 75    | 68   |
| 135° | 66    | 52   |
| 145° | 66    | 42   |
| 155° | 66    | 30   |
| 165° | 58    | 17   |
| 175° | 52    | 5    |
| 180° | 55    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 23468.8 |
| 2.5°   | 23451.5 |
| 5°     | 23338.7 |
| 7.5°   | 23133.5 |
| 10°    | 22763.5 |
| 12.5°  | 22168.0 |
| 15°    | 21402.0 |
| 17.5°  | 20584.0 |
| 20°    | 19685.0 |
| 22.5°  | 18731.1 |
| 25°    | 17572.0 |
| 27.5°  | 16198.9 |
| 30°    | 14675.6 |
| 32.5°  | 13189.8 |
| 35°    | 11675.1 |
| 37.5°  | 10218.3 |
| 40°    | 8995.6  |
| 42.5°  | 8004.1  |
| 45°    | 7079.1  |
| 47.5°  | 6622.4  |
| 50°    | 5928.6  |
| 52.5°  | 4963.2  |
| 55°    | 4009.3  |
| 57.5°  | 2925.3  |
| 60°    | 1800.8  |
| 62.5°  | 1208.3  |
| 65°    | 951.0   |
| 67.5°  | 783.4   |
| 70°    | 693.7   |
| 72.5°  | 664.8   |
| 75°    | 621.5   |
| 77.5°  | 526.1   |
| 80°    | 375.8   |
| 82.5°  | 251.5   |
| 85°    | 179.2   |
| 87.5°  | 144.5   |
| 90°    | 133.0   |
| 92.5°  | 147.4   |
| 95°    | 176.3   |
| 97.5°  | 216.8   |
| 100°   | 254.4   |
| 102.5° | 271.7   |
| 105°   | 260.2   |
| 107.5° | 231.2   |
| 110°   | 190.8   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 153.2 |
| 115°   | 124.3 |
| 117.5° | 101.2 |
| 120°   | 86.7  |
| 122.5° | 78.0  |
| 125°   | 75.2  |
| 127.5° | 72.3  |
| 130°   | 69.4  |
| 132.5° | 66.5  |
| 135°   | 66.5  |
| 137.5° | 66.5  |
| 140°   | 66.5  |
| 142.5° | 66.5  |
| 145°   | 66.5  |
| 147.5° | 66.5  |
| 150°   | 66.5  |
| 152.5° | 66.5  |
| 155°   | 66.5  |
| 157.5° | 63.6  |
| 160°   | 63.6  |
| 162.5° | 60.7  |
| 165°   | 57.8  |
| 167.5° | 57.8  |
| 170°   | 54.9  |
| 172.5° | 52.0  |
| 175°   | 52.0  |
| 177.5° | 54.9  |
| 180°   | 54.9  |

(END OF REPORT)