

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: P980705

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-3000K-CLR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980705  
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-3000K-CLR3  
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting 3in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

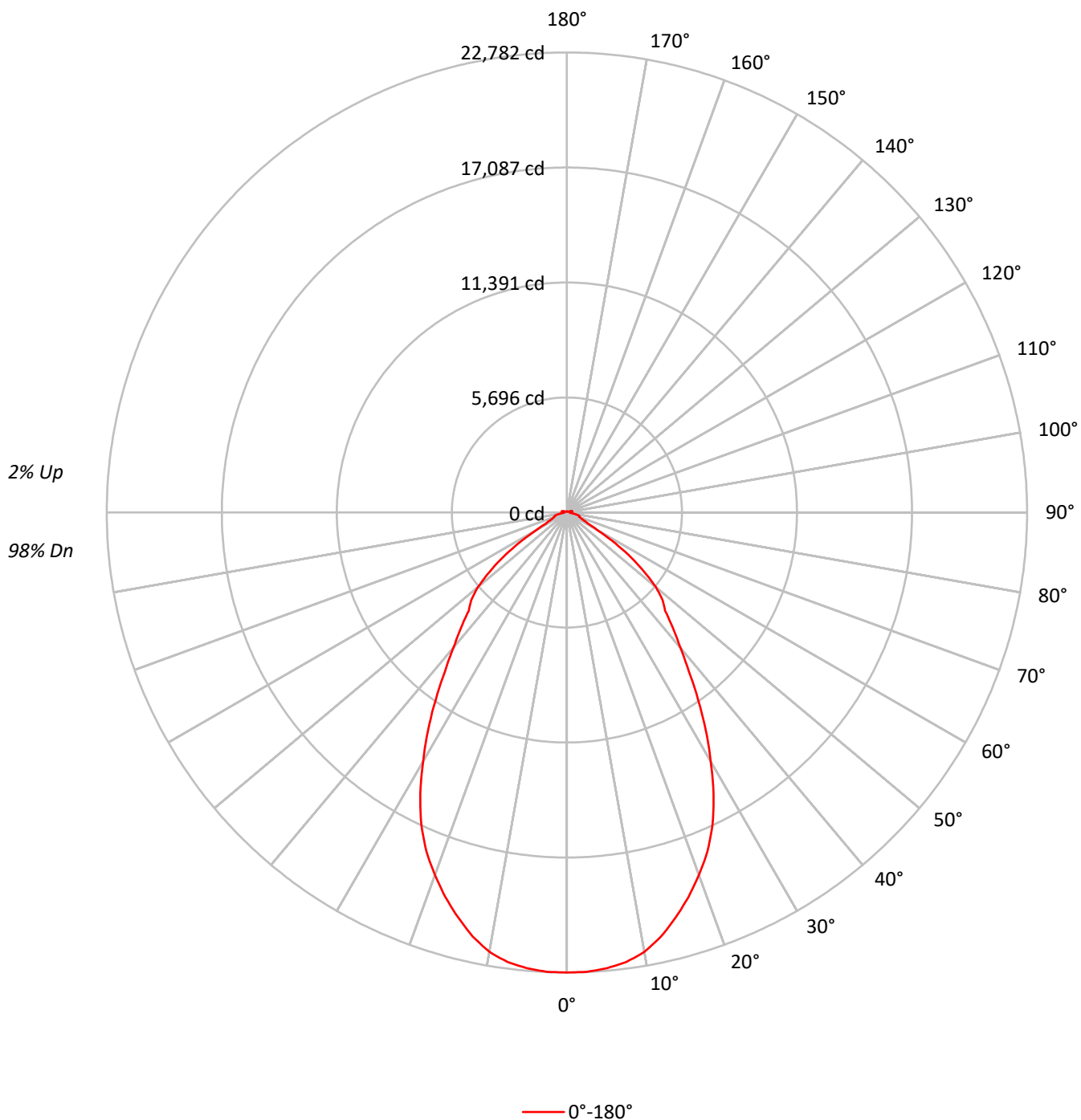
Lumens per Lamp: N/A  
Luminaire Lumens: 34274.0 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03  
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 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  |     |     | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 115 | 115 | 115 | 115 | 110 | 110 | 110 |  | 105 | 105 | 105 |  | 100 | 100 | 100 | 98 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 100 | 101 | 98  | 96  |  | 96  | 94  | 93  |  | 93  | 91  | 90  | 88 |
| 2   | 104 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 92  | 88  | 84  |  | 88  | 85  | 82  |  | 85  | 82  | 80  | 78 |
| 3   | 97  | 88  | 82  | 77  | 94  | 87  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 73  |  | 78  | 75  | 72  | 70 |
| 4   | 90  | 80  | 73  | 68  | 88  | 79  | 73  | 67  | 76  | 71  | 66  |  | 74  | 69  | 65  |  | 72  | 68  | 64  | 62 |
| 5   | 84  | 74  | 66  | 61  | 82  | 72  | 66  | 60  | 70  | 64  | 60  |  | 68  | 63  | 59  |  | 66  | 62  | 58  | 56 |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  |  | 63  | 58  | 53  |  | 61  | 57  | 53  | 51 |
| 7   | 74  | 62  | 55  | 50  | 72  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 57  | 52  | 48  | 46 |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  |  | 54  | 49  | 45  |  | 53  | 48  | 44  | 43 |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 44  | 41  | 39 |
| 10  | 62  | 50  | 43  | 39  | 60  | 49  | 43  | 38  | 48  | 42  | 38  |  | 47  | 42  | 38  |  | 46  | 41  | 38  | 36 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 174663 |
| 5°  | 170801 |
| 10° | 165097 |
| 15° | 155012 |
| 20° | 143472 |
| 25° | 129877 |
| 30° | 110877 |
| 35° | 90917  |
| 40° | 72842  |
| 45° | 60180  |
| 50° | 53471  |
| 55° | 38822  |
| 60° | 18979  |
| 65° | 11087  |
| 70° | 9126   |
| 75° | 9463   |
| 80° | 6853   |
| 85° | 4113   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60180 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2145.5  | 6.3       |
| 10°-20°   | 5829.7  | 17.0      |
| 20°-30°   | 7761.1  | 22.6      |
| 30°-40°   | 7084.0  | 20.7      |
| 40°-50°   | 5451.5  | 15.9      |
| 50°-60°   | 3397.7  | 9.9       |
| 60°-70°   | 1003.1  | 2.9       |
| 70°-80°   | 601.5   | 1.8       |
| 80°-90°   | 219.4   | 0.6       |
| 90°-100°  | 194.2   | 0.6       |
| 100°-110° | 253.3   | 0.7       |
| 110°-120° | 125.3   | 0.4       |
| 120°-130° | 66.2    | 0.2       |
| 130°-140° | 50.2    | 0.1       |
| 140°-150° | 40.5    | 0.1       |
| 150°-160° | 29.4    | 0.1       |
| 160°-170° | 16.3    | 0.0       |
| 170°-180° | 4.9     | 0.0       |
| 0°-30°    | 15736.3 | 45.9      |
| 0°-40°    | 22820.3 | 66.6      |
| 0°-60°    | 31669.6 | 92.4      |
| 0°-90°    | 33493.5 | 97.7      |
| 90°-120°  | 572.9   | 1.7       |
| 90°-150°  | 729.8   | 2.1       |
| 90°-180°  | 780.0   | 2.3       |
| 0°-180°   | 34274.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 22782 |      |
| 5°   | 22655 | ###  |
| 15°  | 20775 | 5830 |
| 25°  | 17057 | 7761 |
| 35°  | 11333 | 7084 |
| 45°  | 6872  | 5452 |
| 55°  | 3892  | 3398 |
| 65°  | 923   | 1003 |
| 75°  | 603   | 602  |
| 85°  | 174   | 182  |
| 90°  | 129   | 74   |
| 95°  | 171   | 157  |
| 105° | 252   | 253  |
| 115° | 121   | 125  |
| 125° | 73    | 66   |
| 135° | 64    | 50   |
| 145° | 64    | 41   |
| 155° | 64    | 29   |
| 165° | 56    | 16   |
| 175° | 50    | 5    |
| 180° | 53    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 22781.5 |
| 2.5°   | 22764.7 |
| 5°     | 22655.3 |
| 7.5°   | 22456.0 |
| 10°    | 22096.9 |
| 12.5°  | 21518.8 |
| 15°    | 20775.3 |
| 17.5°  | 19981.2 |
| 20°    | 19108.5 |
| 22.5°  | 18182.6 |
| 25°    | 17057.4 |
| 27.5°  | 15724.6 |
| 30°    | 14245.8 |
| 32.5°  | 12803.6 |
| 35°    | 11333.2 |
| 37.5°  | 9919.0  |
| 40°    | 8732.1  |
| 42.5°  | 7769.7  |
| 45°    | 6871.8  |
| 47.5°  | 6428.4  |
| 50°    | 5755.0  |
| 52.5°  | 4817.8  |
| 55°    | 3891.9  |
| 57.5°  | 2839.6  |
| 60°    | 1748.1  |
| 62.5°  | 1172.9  |
| 65°    | 923.2   |
| 67.5°  | 760.4   |
| 70°    | 673.4   |
| 72.5°  | 645.4   |
| 75°    | 603.3   |
| 77.5°  | 510.7   |
| 80°    | 364.8   |
| 82.5°  | 244.1   |
| 85°    | 174.0   |
| 87.5°  | 140.3   |
| 90°    | 129.1   |
| 92.5°  | 143.1   |
| 95°    | 171.2   |
| 97.5°  | 210.4   |
| 100°   | 246.9   |
| 102.5° | 263.8   |
| 105°   | 252.5   |
| 107.5° | 224.5   |
| 110°   | 185.2   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 148.7 |
| 115°   | 120.7 |
| 117.5° | 98.2  |
| 120°   | 84.2  |
| 122.5° | 75.8  |
| 125°   | 73.0  |
| 127.5° | 70.1  |
| 130°   | 67.3  |
| 132.5° | 64.5  |
| 135°   | 64.5  |
| 137.5° | 64.5  |
| 140°   | 64.5  |
| 142.5° | 64.5  |
| 145°   | 64.5  |
| 147.5° | 64.5  |
| 150°   | 64.5  |
| 152.5° | 64.5  |
| 155°   | 64.5  |
| 157.5° | 61.7  |
| 160°   | 61.7  |
| 162.5° | 58.9  |
| 165°   | 56.1  |
| 167.5° | 56.1  |
| 170°   | 53.3  |
| 172.5° | 50.5  |
| 175°   | 50.5  |
| 177.5° | 53.3  |
| 180°   | 53.3  |

(END OF REPORT)