

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: P980669

Luminaire Tested: UHS2-2436-M-L83065-HIGH-5000K-CLR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-M-L83065-HIGH-5000K-CLR3  
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

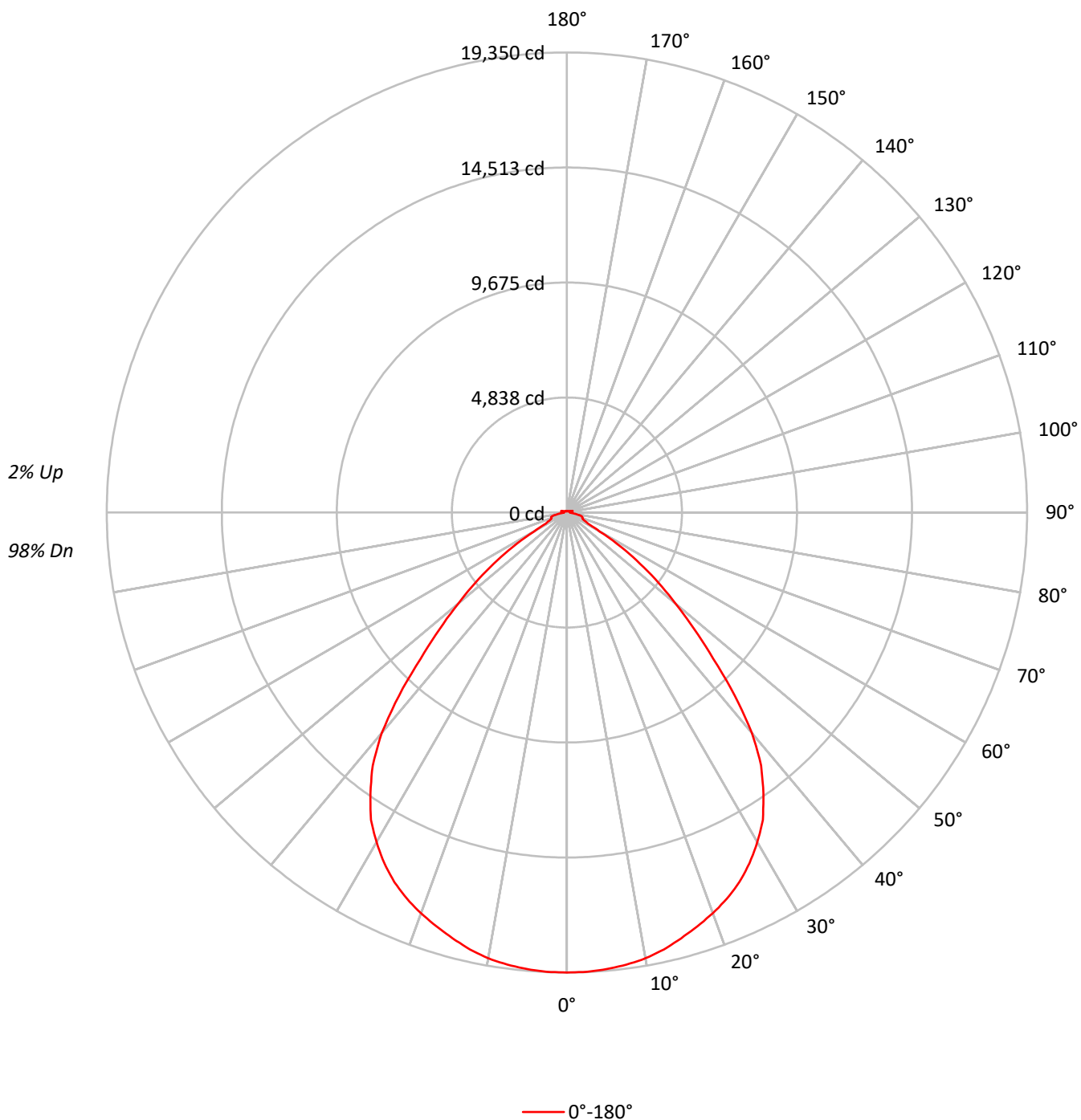
Lumens per Lamp: N/A  
Luminaire Lumens: 36600.1 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.24  
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 233.5  
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 | 116 | 116 | 116 | 116 | 110 | 110 | 110 |  | 105 | 105 | 105 |  | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 100 | 98  | 96  |  | 96  | 94  | 93  |  | 92  |
| 2   | 103 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  |  | 88  | 85  | 82  |  | 85  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  |  | 80  | 76  | 72  |  | 77  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 65  |  | 73  | 68  | 64  |  | 71  |
| 5   | 83  | 73  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  |  | 67  | 62  | 58  |  | 65  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 63  | 57  | 52  |  | 62  | 56  | 52  |  | 60  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 55  |
| 8   | 68  | 56  | 49  | 44  | 66  | 55  | 48  | 43  | 54  | 48  | 43  |  | 53  | 47  | 43  |  | 51  |
| 9   | 64  | 52  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 39  |  | 49  | 43  | 39  |  | 48  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  |  | 45  | 40  | 36  |  | 45  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 148355 |
| 5°  | 145328 |
| 10° | 142272 |
| 15° | 138368 |
| 20° | 134676 |
| 25° | 130636 |
| 30° | 124627 |
| 35° | 115556 |
| 40° | 100995 |
| 45° | 76278  |
| 50° | 55509  |
| 55° | 37493  |
| 60° | 17212  |
| 65° | 9843   |
| 70° | 9306   |
| 75° | 10373  |
| 80° | 7699   |
| 85° | 4276   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 76278 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1832.8  | 5.0       |
| 10°-20°   | 5235.8  | 14.3      |
| 20°-30°   | 7882.9  | 21.5      |
| 30°-40°   | 8937.1  | 24.4      |
| 40°-50°   | 6798.5  | 18.6      |
| 50°-60°   | 3350.4  | 9.2       |
| 60°-70°   | 906.9   | 2.5       |
| 70°-80°   | 651.5   | 1.8       |
| 80°-90°   | 232.4   | 0.6       |
| 90°-100°  | 178.3   | 0.5       |
| 100°-110° | 242.3   | 0.7       |
| 110°-120° | 130.4   | 0.4       |
| 120°-130° | 70.2    | 0.2       |
| 130°-140° | 53.1    | 0.1       |
| 140°-150° | 44.4    | 0.1       |
| 150°-160° | 32.1    | 0.1       |
| 160°-170° | 16.3    | 0.0       |
| 170°-180° | 4.6     | 0.0       |
| 0°-30°    | 14951.5 | 40.9      |
| 0°-40°    | 23888.6 | 65.3      |
| 0°-60°    | 34037.5 | 93.0      |
| 0°-90°    | 35828.3 | 97.9      |
| 90°-120°  | 551.0   | 1.5       |
| 90°-150°  | 718.7   | 2.0       |
| 90°-180°  | 772.0   | 2.1       |
| 0°-180°   | 36600.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 19350 |      |
| 5°   | 19277 | ###  |
| 15°  | 18545 | 5236 |
| 25°  | 17157 | 7883 |
| 35°  | 14404 | 8937 |
| 45°  | 8710  | 6799 |
| 55°  | 3759  | 3350 |
| 65°  | 820   | 907  |
| 75°  | 661   | 651  |
| 85°  | 181   | 196  |
| 90°  | 122   | 71   |
| 95°  | 155   | 143  |
| 105° | 243   | 242  |
| 115° | 127   | 130  |
| 125° | 76    | 70   |
| 135° | 68    | 53   |
| 145° | 71    | 44   |
| 155° | 71    | 32   |
| 165° | 56    | 16   |
| 175° | 48    | 5    |
| 180° | 48    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 19350.1 |
| 2.5°   | 19335.9 |
| 5°     | 19276.6 |
| 7.5°   | 19183.3 |
| 10°    | 19042.0 |
| 12.5°  | 18830.1 |
| 15°    | 18544.6 |
| 17.5°  | 18247.9 |
| 20°    | 17937.0 |
| 22.5°  | 17583.8 |
| 25°    | 17157.0 |
| 27.5°  | 16631.4 |
| 30°    | 16012.5 |
| 32.5°  | 15331.4 |
| 35°    | 14404.5 |
| 37.5°  | 13412.5 |
| 40°    | 12106.9 |
| 42.5°  | 10459.3 |
| 45°    | 8709.9  |
| 47.5°  | 7246.0  |
| 50°    | 5974.3  |
| 52.5°  | 4855.2  |
| 55°    | 3758.7  |
| 57.5°  | 2710.2  |
| 60°    | 1585.4  |
| 62.5°  | 994.8   |
| 65°    | 819.6   |
| 67.5°  | 723.5   |
| 70°    | 686.7   |
| 72.5°  | 692.4   |
| 75°    | 661.3   |
| 77.5°  | 565.2   |
| 80°    | 409.8   |
| 82.5°  | 265.7   |
| 85°    | 180.9   |
| 87.5°  | 141.3   |
| 90°    | 121.5   |
| 92.5°  | 132.8   |
| 95°    | 155.4   |
| 97.5°  | 192.2   |
| 100°   | 226.1   |
| 102.5° | 245.9   |
| 105°   | 243.0   |
| 107.5° | 220.4   |
| 110°   | 186.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 152.6 |
| 115°   | 127.2 |
| 117.5° | 104.6 |
| 120°   | 90.4  |
| 122.5° | 82.0  |
| 125°   | 76.3  |
| 127.5° | 73.5  |
| 130°   | 70.7  |
| 132.5° | 67.8  |
| 135°   | 67.8  |
| 137.5° | 67.8  |
| 140°   | 70.7  |
| 142.5° | 70.7  |
| 145°   | 70.7  |
| 147.5° | 70.7  |
| 150°   | 70.7  |
| 152.5° | 70.7  |
| 155°   | 70.7  |
| 157.5° | 67.8  |
| 160°   | 65.0  |
| 162.5° | 59.3  |
| 165°   | 56.5  |
| 167.5° | 53.7  |
| 170°   | 50.9  |
| 172.5° | 48.0  |
| 175°   | 48.0  |
| 177.5° | 48.0  |
| 180°   | 48.0  |

(END OF REPORT)