

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: P1175852

Luminaire Tested: UHBS2-2436-W-L83065-MID-3500K-CLR6

Issue Date: 8/26/2025

**Test Information**

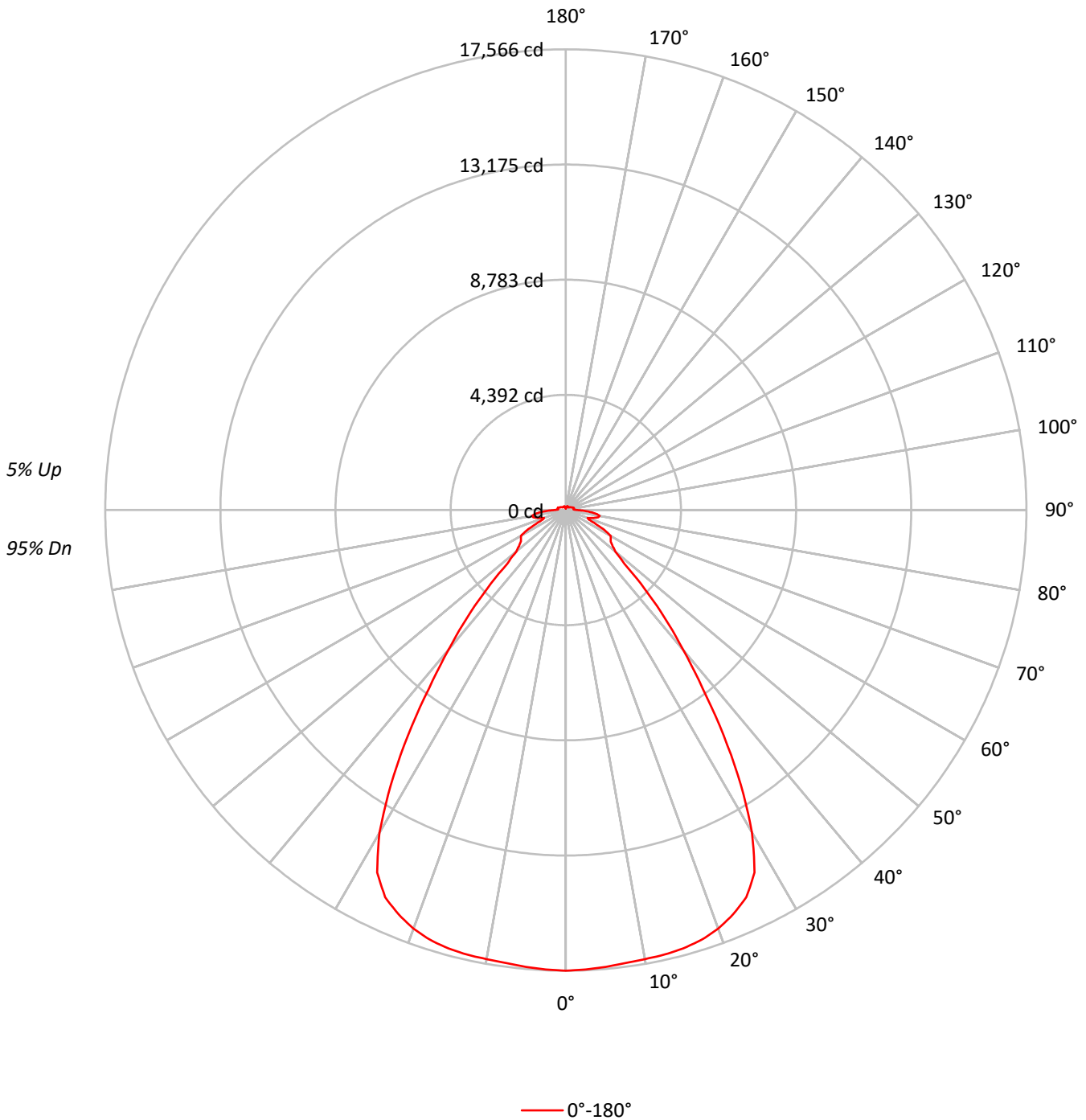
Test Method: LM-79-2019  
Report Number: P1175852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/26/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-W-L83065-MID-3500K-CLR6  
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 6in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30660.0 lumens  
Efficiency: N/A  
Efficacy: 159.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')  
CIE Type: Direct  
  
Input Watts (W): 192.4  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
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 |    |    |    | 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 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 98 | 95 |
| 1   | 109 | 105 | 101 | 98  | 106 | 102 | 99  | 96  | 97  | 95  | 92  | 93  | 90  | 88  | 88 | 87 | 85 | 88 | 87 | 85 | 83 |
| 2   | 101 | 94  | 89  | 84  | 99  | 92  | 87  | 83  | 88  | 84  | 80  | 84  | 81  | 78  | 81 | 78 | 75 | 81 | 78 | 75 | 73 |
| 3   | 94  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 80  | 75  | 71  | 77  | 73  | 69  | 74 | 70 | 67 | 74 | 70 | 67 | 65 |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 71  | 66  | 62  | 68 | 64 | 61 | 68 | 64 | 61 | 59 |
| 5   | 82  | 72  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 57  | 65  | 60  | 56  | 63 | 59 | 55 | 63 | 59 | 55 | 53 |
| 6   | 77  | 66  | 58  | 53  | 75  | 65  | 58  | 52  | 63  | 56  | 52  | 61  | 55  | 51  | 59 | 54 | 50 | 59 | 54 | 50 | 48 |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 55 | 50 | 46 | 55 | 50 | 46 | 44 |
| 8   | 68  | 56  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 48  | 43  | 52  | 47  | 43  | 51 | 46 | 42 | 51 | 46 | 42 | 41 |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 50  | 44  | 40  | 49  | 43  | 39  | 48 | 43 | 39 | 48 | 43 | 39 | 37 |
| 10  | 61  | 49  | 42  | 37  | 59  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 45 | 40 | 36 | 45 | 40 | 36 | 35 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 111108 |
| 5°  | 106975 |
| 10° | 103765 |
| 15° | 101565 |
| 20° | 98802  |
| 25° | 94633  |
| 30° | 83030  |
| 35° | 62180  |
| 40° | 42191  |
| 45° | 26537  |
| 50° | 16013  |
| 55° | 14246  |
| 60° | 14280  |
| 65° | 9701   |
| 70° | 7484   |
| 75° | 10695  |
| 80° | 13789  |
| 85° | 11977  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26537 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1665.6  | 5.4       |
| 10°-20°   | 4888.0  | 15.9      |
| 20°-30°   | 7390.0  | 24.1      |
| 30°-40°   | 6516.5  | 21.3      |
| 40°-50°   | 3351.6  | 10.9      |
| 50°-60°   | 1922.6  | 6.3       |
| 60°-70°   | 1310.1  | 4.3       |
| 70°-80°   | 1193.6  | 3.9       |
| 80°-90°   | 1019.1  | 3.3       |
| 90°-100°  | 349.4   | 1.1       |
| 100°-110° | 323.9   | 1.1       |
| 110°-120° | 242.0   | 0.8       |
| 120°-130° | 168.4   | 0.5       |
| 130°-140° | 115.1   | 0.4       |
| 140°-150° | 90.5    | 0.3       |
| 150°-160° | 70.0    | 0.2       |
| 160°-170° | 35.5    | 0.1       |
| 170°-180° | 8.1     | 0.0       |
| 0°-30°    | 13943.6 | 45.5      |
| 0°-40°    | 20460.1 | 66.7      |
| 0°-60°    | 25734.3 | 83.9      |
| 0°-90°    | 29257.1 | 95.4      |
| 90°-120°  | 915.3   | 3.0       |
| 90°-150°  | 1289.4  | 4.2       |
| 90°-180°  | 1403.0  | 4.6       |
| 0°-180°   | 30660.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 17566 |      |
| 5°   | 17486 | ###  |
| 15°  | 17308 | 4888 |
| 25°  | 16294 | 7390 |
| 35°  | 10492 | 6517 |
| 45°  | 4250  | 3352 |
| 55°  | 2090  | 1923 |
| 65°  | 1249  | 1310 |
| 75°  | 1144  | 1194 |
| 85°  | 981   | 866  |
| 90°  | 434   | 257  |
| 95°  | 291   | 246  |
| 105° | 314   | 324  |
| 115° | 241   | 242  |
| 125° | 188   | 168  |
| 135° | 146   | 115  |
| 145° | 143   | 91   |
| 155° | 153   | 70   |
| 165° | 123   | 35   |
| 175° | 78    | 8    |
| 180° | 65    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 17566.3 |
| 2.5°   | 17538.8 |
| 5°     | 17486.1 |
| 7.5°   | 17420.8 |
| 10°    | 17388.2 |
| 12.5°  | 17365.6 |
| 15°    | 17307.9 |
| 17.5°  | 17190.0 |
| 20°    | 16989.3 |
| 22.5°  | 16683.3 |
| 25°    | 16294.4 |
| 27.5°  | 15584.4 |
| 30°    | 14207.1 |
| 32.5°  | 12430.9 |
| 35°    | 10491.6 |
| 37.5°  | 8564.9  |
| 40°    | 6964.3  |
| 42.5°  | 5579.5  |
| 45°    | 4249.8  |
| 47.5°  | 3025.6  |
| 50°    | 2466.1  |
| 52.5°  | 2247.9  |
| 55°    | 2089.8  |
| 57.5°  | 2032.1  |
| 60°    | 1974.4  |
| 62.5°  | 1685.9  |
| 65°    | 1249.4  |
| 67.5°  | 945.8   |
| 70°    | 885.6   |
| 72.5°  | 988.5   |
| 75°    | 1144.0  |
| 77.5°  | 1277.0  |
| 80°    | 1307.1  |
| 82.5°  | 1204.2  |
| 85°    | 980.9   |
| 87.5°  | 684.9   |
| 90°    | 434.0   |
| 92.5°  | 323.6   |
| 95°    | 291.0   |
| 97.5°  | 296.0   |
| 100°   | 306.1   |
| 102.5° | 316.1   |
| 105°   | 313.6   |
| 107.5° | 301.1   |
| 110°   | 281.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 260.9 |
| 115°   | 240.8 |
| 117.5° | 225.8 |
| 120°   | 210.7 |
| 122.5° | 200.7 |
| 125°   | 188.2 |
| 127.5° | 173.1 |
| 130°   | 163.1 |
| 132.5° | 153.0 |
| 135°   | 145.5 |
| 137.5° | 143.0 |
| 140°   | 140.5 |
| 142.5° | 143.0 |
| 145°   | 143.0 |
| 147.5° | 145.5 |
| 150°   | 150.5 |
| 152.5° | 153.0 |
| 155°   | 153.0 |
| 157.5° | 150.5 |
| 160°   | 145.5 |
| 162.5° | 135.5 |
| 165°   | 122.9 |
| 167.5° | 110.4 |
| 170°   | 97.8  |
| 172.5° | 87.8  |
| 175°   | 77.8  |
| 177.5° | 70.2  |
| 180°   | 65.2  |

(END OF REPORT)