

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: P980555

Luminaire Tested: UHBS2-1218-M-L83065-LOW-3000K-CLR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980555  
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: UHBS2-1218-M-L83065-LOW-3000K-CLR3  
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting 3in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

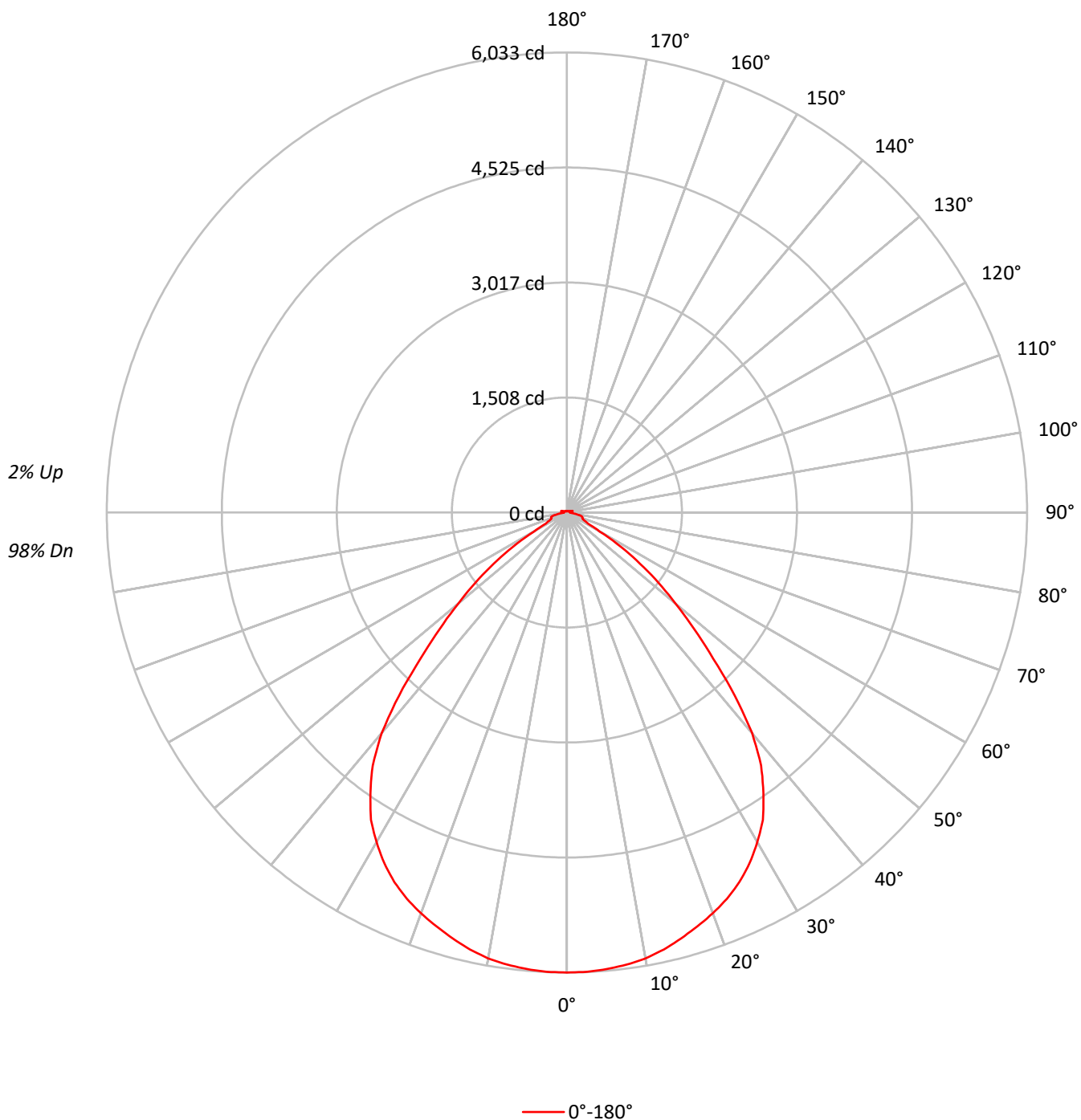
Lumens per Lamp: N/A  
Luminaire Lumens: 11412.0 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.24  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 80.2  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 7.2  
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 | 116 | 116 | 116 | 116 | 110 | 110 | 110 |  | 105 | 105 | 105 |  | 100 | 100 | 100 | 98 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 100 | 98  | 96  |  | 96  | 94  | 93  |  | 92  | 91  | 90  | 88 |
| 2   | 103 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  |  | 88  | 85  | 82  |  | 85  | 82  | 80  | 78 |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  |  | 80  | 76  | 72  |  | 77  | 74  | 71  | 69 |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 63  | 61 |
| 5   | 83  | 73  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  |  | 67  | 62  | 58  |  | 65  | 61  | 57  | 55 |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 63  | 57  | 52  |  | 62  | 56  | 52  |  | 60  | 55  | 51  | 49 |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 55  | 50  | 46  | 45 |
| 8   | 68  | 56  | 49  | 44  | 66  | 55  | 48  | 43  | 54  | 48  | 43  |  | 53  | 47  | 43  |  | 51  | 46  | 42  | 41 |
| 9   | 64  | 52  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  | 37 |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  |  | 45  | 40  | 36  |  | 45  | 39  | 36  | 34 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 60820 |
| 5°  | 59402 |
| 10° | 57984 |
| 15° | 56232 |
| 20° | 54574 |
| 25° | 52782 |
| 30° | 50202 |
| 35° | 46402 |
| 40° | 40418 |
| 45° | 30414 |
| 50° | 22042 |
| 55° | 14820 |
| 60° | 6766  |
| 65° | 3844  |
| 70° | 3606  |
| 75° | 3978  |
| 80° | 2911  |
| 85° | 1583  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30414 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 571.5   | 5.0       |
| 10°-20°   | 1632.5  | 14.3      |
| 20°-30°   | 2457.9  | 21.5      |
| 30°-40°   | 2786.6  | 24.4      |
| 40°-50°   | 2119.8  | 18.6      |
| 50°-60°   | 1044.7  | 9.2       |
| 60°-70°   | 282.7   | 2.5       |
| 70°-80°   | 203.1   | 1.8       |
| 80°-90°   | 72.5    | 0.6       |
| 90°-100°  | 55.6    | 0.5       |
| 100°-110° | 75.6    | 0.7       |
| 110°-120° | 40.7    | 0.4       |
| 120°-130° | 21.9    | 0.2       |
| 130°-140° | 16.5    | 0.1       |
| 140°-150° | 13.8    | 0.1       |
| 150°-160° | 10.0    | 0.1       |
| 160°-170° | 5.1     | 0.0       |
| 170°-180° | 1.5     | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 4661.9  | 40.9      |
| 0°-40°    | 7448.5  | 65.3      |
| 0°-60°    | 10613.0 | 93.0      |
| 0°-90°    | 11171.4 | 97.9      |
| 90°-120°  | 171.8   | 1.5       |
| 90°-150°  | 224.1   | 2.0       |
| 90°-180°  | 241.0   | 2.1       |
| 0°-180°   | 11412.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 6033 |      |
| 5°   | 6010 | 571  |
| 15°  | 5782 | 1633 |
| 25°  | 5350 | 2458 |
| 35°  | 4491 | 2787 |
| 45°  | 2716 | 2120 |
| 55°  | 1172 | 1045 |
| 65°  | 256  | 283  |
| 75°  | 206  | 203  |
| 85°  | 56   | 61   |
| 90°  | 38   | 22   |
| 95°  | 48   | 45   |
| 105° | 76   | 76   |
| 115° | 40   | 41   |
| 125° | 24   | 22   |
| 135° | 21   | 17   |
| 145° | 22   | 14   |
| 155° | 22   | 10   |
| 165° | 18   | 5    |
| 175° | 15   | 1    |
| 180° | 15   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 6033.4 |
| 2.5°   | 6029.0 |
| 5°     | 6010.5 |
| 7.5°   | 5981.4 |
| 10°    | 5937.4 |
| 12.5°  | 5871.3 |
| 15°    | 5782.3 |
| 17.5°  | 5689.8 |
| 20°    | 5592.8 |
| 22.5°  | 5482.7 |
| 25°    | 5349.6 |
| 27.5°  | 5185.7 |
| 30°    | 4992.7 |
| 32.5°  | 4780.4 |
| 35°    | 4491.4 |
| 37.5°  | 4182.1 |
| 40°    | 3775.0 |
| 42.5°  | 3261.2 |
| 45°    | 2715.8 |
| 47.5°  | 2259.3 |
| 50°    | 1862.8 |
| 52.5°  | 1513.9 |
| 55°    | 1172.0 |
| 57.5°  | 845.0  |
| 60°    | 494.3  |
| 62.5°  | 310.2  |
| 65°    | 255.5  |
| 67.5°  | 225.6  |
| 70°    | 214.1  |
| 72.5°  | 215.9  |
| 75°    | 206.2  |
| 77.5°  | 176.2  |
| 80°    | 127.8  |
| 82.5°  | 82.8   |
| 85°    | 56.4   |
| 87.5°  | 44.1   |
| 90°    | 37.9   |
| 92.5°  | 41.4   |
| 95°    | 48.5   |
| 97.5°  | 59.9   |
| 100°   | 70.5   |
| 102.5° | 76.7   |
| 105°   | 75.8   |
| 107.5° | 68.7   |
| 110°   | 58.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 47.6 |
| 115°   | 39.7 |
| 117.5° | 32.6 |
| 120°   | 28.2 |
| 122.5° | 25.6 |
| 125°   | 23.8 |
| 127.5° | 22.9 |
| 130°   | 22.0 |
| 132.5° | 21.1 |
| 135°   | 21.1 |
| 137.5° | 21.1 |
| 140°   | 22.0 |
| 142.5° | 22.0 |
| 145°   | 22.0 |
| 147.5° | 22.0 |
| 150°   | 22.0 |
| 152.5° | 22.0 |
| 155°   | 22.0 |
| 157.5° | 21.1 |
| 160°   | 20.3 |
| 162.5° | 18.5 |
| 165°   | 17.6 |
| 167.5° | 16.7 |
| 170°   | 15.9 |
| 172.5° | 15.0 |
| 175°   | 15.0 |
| 177.5° | 15.0 |
| 180°   | 15.0 |

(END OF REPORT)