

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: P980598

Luminaire Tested: UHBS2-1218-N-L83065-LOW-3500K-FRR6

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-1218-N-L83065-LOW-3500K-FRR6  
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

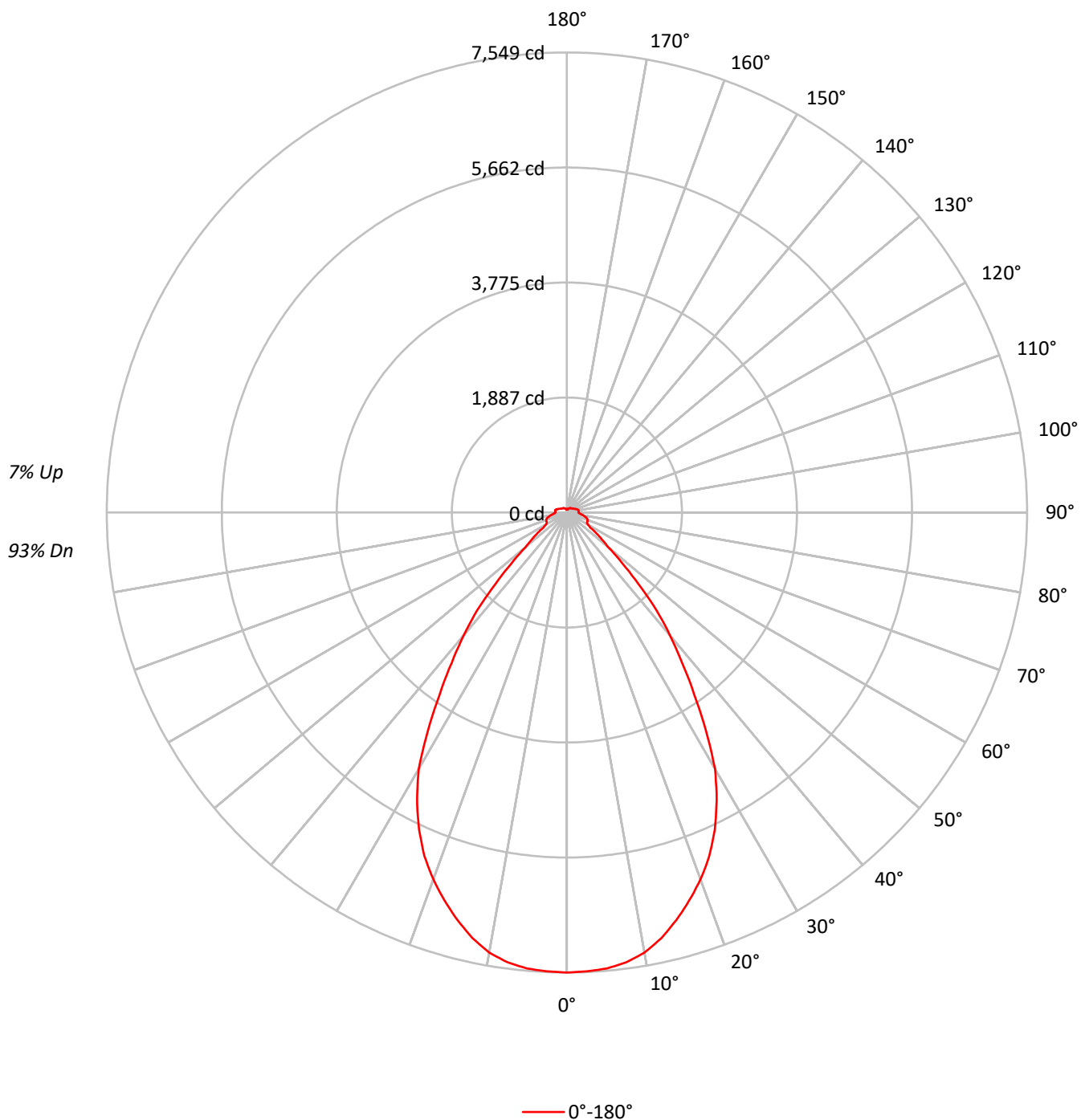
Lumens per Lamp: N/A  
Luminaire Lumens: 11178.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')  
CIE Type: Direct

Input Watts (W): 79.4  
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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 |
| 1   | 109 | 105 | 102 | 99  | 106 | 102 | 99  | 97  | 97  | 94  | 92  | 92  | 90  | 88  | 87 | 86 | 84 |
| 2   | 102 | 95  | 90  | 85  | 99  | 93  | 88  | 84  | 88  | 84  | 81  | 84  | 81  | 78  | 80 | 78 | 75 |
| 3   | 95  | 87  | 80  | 75  | 92  | 85  | 79  | 74  | 81  | 76  | 72  | 77  | 73  | 70  | 74 | 71 | 68 |
| 4   | 89  | 79  | 72  | 67  | 86  | 78  | 71  | 66  | 74  | 69  | 65  | 71  | 67  | 63  | 69 | 65 | 62 |
| 5   | 83  | 73  | 66  | 60  | 81  | 71  | 65  | 60  | 69  | 63  | 58  | 66  | 61  | 57  | 64 | 59 | 56 |
| 6   | 78  | 67  | 60  | 55  | 76  | 66  | 59  | 54  | 64  | 58  | 53  | 61  | 56  | 52  | 59 | 55 | 51 |
| 7   | 73  | 62  | 55  | 50  | 71  | 61  | 54  | 50  | 59  | 53  | 49  | 57  | 52  | 48  | 55 | 51 | 47 |
| 8   | 69  | 58  | 51  | 46  | 67  | 57  | 50  | 46  | 55  | 49  | 45  | 53  | 48  | 44  | 52 | 47 | 44 |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 50  | 45  | 41  | 49 | 44 | 40 |
| 10  | 62  | 50  | 44  | 39  | 60  | 50  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 38  | 46 | 41 | 38 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 61126 |
| 5°  | 58534 |
| 10° | 55498 |
| 15° | 51342 |
| 20° | 46870 |
| 25° | 41755 |
| 30° | 35415 |
| 35° | 26775 |
| 40° | 19710 |
| 45° | 12759 |
| 50° | 7041  |
| 55° | 4830  |
| 60° | 3473  |
| 65° | 3407  |
| 70° | 3651  |
| 75° | 3651  |
| 80° | 3324  |
| 85° | 3055  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12759 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 711.3   | 6.4       |
| 10°-20°   | 1944.4  | 17.4      |
| 20°-30°   | 2617.2  | 23.4      |
| 30°-40°   | 2284.7  | 20.4      |
| 40°-50°   | 1303.0  | 11.7      |
| 50°-60°   | 532.9   | 4.8       |
| 60°-70°   | 367.5   | 3.3       |
| 70°-80°   | 342.5   | 3.1       |
| 80°-90°   | 241.3   | 2.2       |
| 90°-100°  | 210.0   | 1.9       |
| 100°-110° | 192.4   | 1.7       |
| 110°-120° | 141.1   | 1.3       |
| 120°-130° | 102.2   | 0.9       |
| 130°-140° | 76.4    | 0.7       |
| 140°-150° | 54.4    | 0.5       |
| 150°-160° | 34.7    | 0.3       |
| 160°-170° | 17.5    | 0.2       |
| 170°-180° | 4.6     | 0.0       |
| 0°-30°    | 5272.9  | 47.2      |
| 0°-40°    | 7557.6  | 67.6      |
| 0°-60°    | 9393.5  | 84.0      |
| 0°-90°    | 10344.7 | 92.5      |
| 90°-120°  | 543.6   | 4.9       |
| 90°-150°  | 776.5   | 6.9       |
| 90°-180°  | 833.0   | 7.5       |
| 0°-180°   | 11178.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 7549 |      |
| 5°   | 7510 | 711  |
| 15°  | 6928 | 1944 |
| 25°  | 5740 | 2617 |
| 35°  | 3637 | 2285 |
| 45°  | 1660 | 1303 |
| 55°  | 581  | 533  |
| 65°  | 364  | 367  |
| 75°  | 330  | 343  |
| 85°  | 217  | 188  |
| 90°  | 189  | 105  |
| 95°  | 192  | 158  |
| 105° | 184  | 192  |
| 115° | 141  | 141  |
| 125° | 113  | 102  |
| 135° | 98   | 76   |
| 145° | 86   | 54   |
| 155° | 75   | 35   |
| 165° | 62   | 17   |
| 175° | 48   | 5    |
| 180° | 47   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 7549.2 |
| 2.5°   | 7537.0 |
| 5°     | 7509.9 |
| 7.5°   | 7446.4 |
| 10°    | 7332.4 |
| 12.5°  | 7154.8 |
| 15°    | 6927.8 |
| 17.5°  | 6675.5 |
| 20°    | 6408.2 |
| 22.5°  | 6103.6 |
| 25°    | 5740.1 |
| 27.5°  | 5322.4 |
| 30°    | 4858.0 |
| 32.5°  | 4240.4 |
| 35°    | 3636.8 |
| 37.5°  | 3101.3 |
| 40°    | 2630.4 |
| 42.5°  | 2178.1 |
| 45°    | 1659.5 |
| 47.5°  | 1233.4 |
| 50°    | 884.9  |
| 52.5°  | 723.2  |
| 55°    | 581.2  |
| 57.5°  | 450.4  |
| 60°    | 396.2  |
| 62.5°  | 372.8  |
| 65°    | 364.4  |
| 67.5°  | 365.4  |
| 70°    | 361.6  |
| 72.5°  | 350.4  |
| 75°    | 329.8  |
| 77.5°  | 300.9  |
| 80°    | 269.1  |
| 82.5°  | 241.1  |
| 85°    | 216.8  |
| 87.5°  | 198.1  |
| 90°    | 188.8  |
| 92.5°  | 190.6  |
| 95°    | 192.5  |
| 97.5°  | 195.3  |
| 100°   | 194.4  |
| 102.5° | 190.6  |
| 105°   | 184.1  |
| 107.5° | 173.8  |
| 110°   | 162.6  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 151.4 |
| 115°   | 141.1 |
| 117.5° | 131.8 |
| 120°   | 124.3 |
| 122.5° | 118.7 |
| 125°   | 113.1 |
| 127.5° | 108.4 |
| 130°   | 104.7 |
| 132.5° | 101.9 |
| 135°   | 98.1  |
| 137.5° | 95.3  |
| 140°   | 92.5  |
| 142.5° | 89.7  |
| 145°   | 86.0  |
| 147.5° | 83.2  |
| 150°   | 80.4  |
| 152.5° | 77.6  |
| 155°   | 74.8  |
| 157.5° | 72.0  |
| 160°   | 68.2  |
| 162.5° | 64.5  |
| 165°   | 61.7  |
| 167.5° | 57.0  |
| 170°   | 52.3  |
| 172.5° | 47.7  |
| 175°   | 47.7  |
| 177.5° | 46.7  |
| 180°   | 46.7  |

(END OF REPORT)