

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: P980602

Luminaire Tested: UHBS2-1218-N-L83065-LOW-5000K-FRR6

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980602  
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-5000K-FRR6  
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

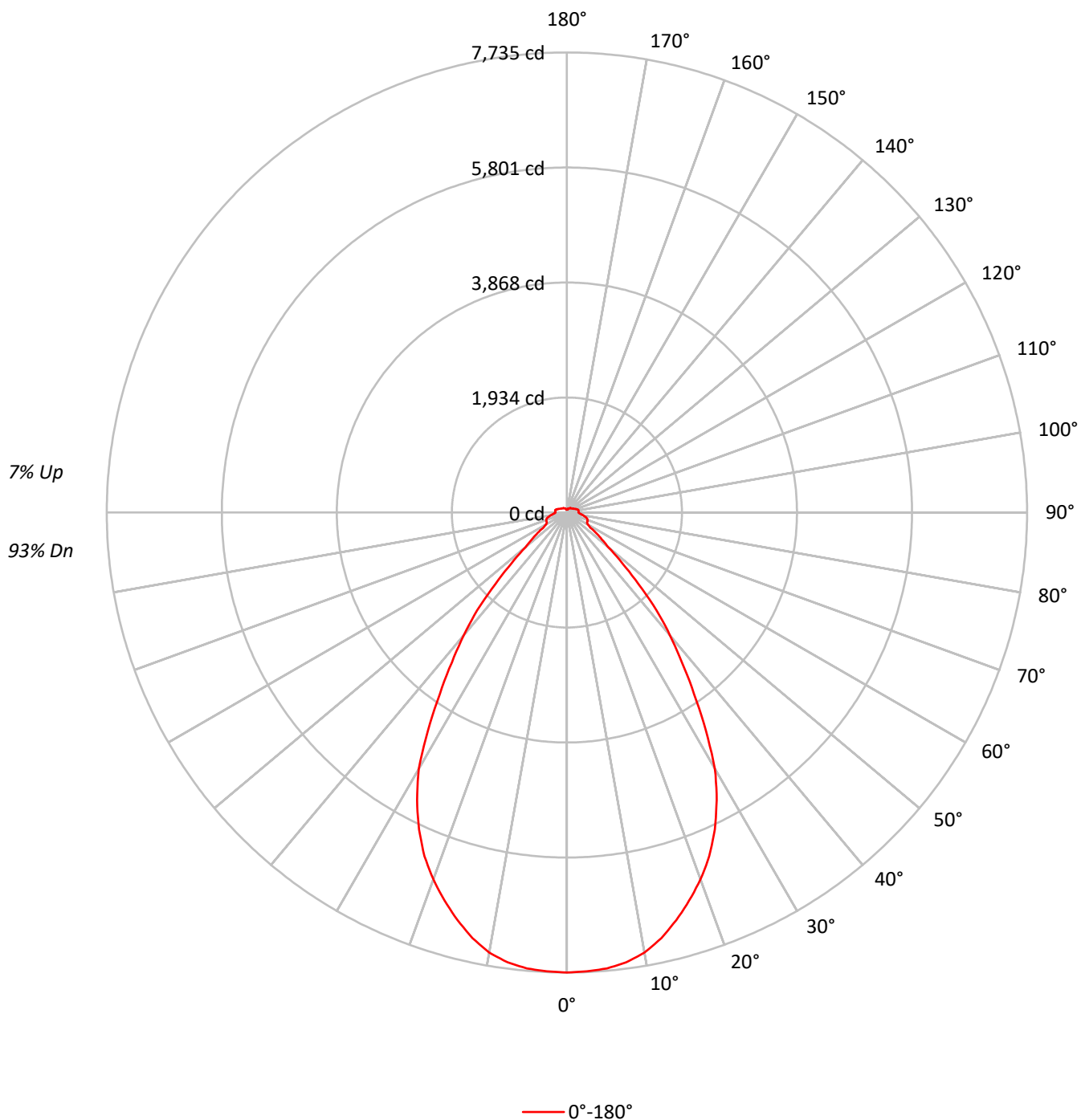
Lumens per Lamp: N/A  
Luminaire Lumens: 11453.0 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01  
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')  
CIE Type: Direct

Input Watts (W): 79  
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  |     |     |     |  | 30  |     |     |  |     | 10  |     |  |    |    | 0  |
| 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°  | 62630 |
| 5°  | 59975 |
| 10° | 56863 |
| 15° | 52605 |
| 20° | 48023 |
| 25° | 42782 |
| 30° | 36287 |
| 35° | 27433 |
| 40° | 20195 |
| 45° | 13074 |
| 50° | 7214  |
| 55° | 4948  |
| 60° | 3558  |
| 65° | 3491  |
| 70° | 3741  |
| 75° | 3741  |
| 80° | 3405  |
| 85° | 3130  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13074 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 728.8   | 6.4       |
| 10°-20°   | 1992.2  | 17.4      |
| 20°-30°   | 2681.6  | 23.4      |
| 30°-40°   | 2340.9  | 20.4      |
| 40°-50°   | 1335.1  | 11.7      |
| 50°-60°   | 546.0   | 4.8       |
| 60°-70°   | 376.5   | 3.3       |
| 70°-80°   | 351.0   | 3.1       |
| 80°-90°   | 247.2   | 2.2       |
| 90°-100°  | 215.2   | 1.9       |
| 100°-110° | 197.1   | 1.7       |
| 110°-120° | 144.6   | 1.3       |
| 120°-130° | 104.6   | 0.9       |
| 130°-140° | 78.3    | 0.7       |
| 140°-150° | 55.7    | 0.5       |
| 150°-160° | 35.6    | 0.3       |
| 160°-170° | 17.9    | 0.2       |
| 170°-180° | 4.7     | 0.0       |
| 0°-30°    | 5402.7  | 47.2      |
| 0°-40°    | 7743.5  | 67.6      |
| 0°-60°    | 9624.6  | 84.0      |
| 0°-90°    | 10599.3 | 92.5      |
| 90°-120°  | 556.9   | 4.9       |
| 90°-150°  | 795.5   | 6.9       |
| 90°-180°  | 854.0   | 7.5       |
| 0°-180°   | 11453.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 7735 |      |
| 5°   | 7695 | 729  |
| 15°  | 7098 | 1992 |
| 25°  | 5881 | 2682 |
| 35°  | 3726 | 2341 |
| 45°  | 1700 | 1335 |
| 55°  | 596  | 546  |
| 65°  | 373  | 376  |
| 75°  | 338  | 351  |
| 85°  | 222  | 193  |
| 90°  | 193  | 108  |
| 95°  | 197  | 162  |
| 105° | 189  | 197  |
| 115° | 145  | 145  |
| 125° | 116  | 105  |
| 135° | 100  | 78   |
| 145° | 88   | 56   |
| 155° | 77   | 36   |
| 165° | 63   | 18   |
| 175° | 49   | 5    |
| 180° | 48   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 7734.9 |
| 2.5°   | 7722.4 |
| 5°     | 7694.7 |
| 7.5°   | 7629.6 |
| 10°    | 7512.8 |
| 12.5°  | 7330.9 |
| 15°    | 7098.2 |
| 17.5°  | 6839.7 |
| 20°    | 6565.9 |
| 22.5°  | 6253.8 |
| 25°    | 5881.3 |
| 27.5°  | 5453.4 |
| 30°    | 4977.6 |
| 32.5°  | 4344.7 |
| 35°    | 3726.2 |
| 37.5°  | 3177.6 |
| 40°    | 2695.1 |
| 42.5°  | 2231.7 |
| 45°    | 1700.4 |
| 47.5°  | 1263.8 |
| 50°    | 906.7  |
| 52.5°  | 741.0  |
| 55°    | 595.5  |
| 57.5°  | 461.5  |
| 60°    | 405.9  |
| 62.5°  | 382.0  |
| 65°    | 373.4  |
| 67.5°  | 374.3  |
| 70°    | 370.5  |
| 72.5°  | 359.0  |
| 75°    | 338.0  |
| 77.5°  | 308.3  |
| 80°    | 275.7  |
| 82.5°  | 247.0  |
| 85°    | 222.1  |
| 87.5°  | 203.0  |
| 90°    | 193.4  |
| 92.5°  | 195.3  |
| 95°    | 197.2  |
| 97.5°  | 200.1  |
| 100°   | 199.1  |
| 102.5° | 195.3  |
| 105°   | 188.6  |
| 107.5° | 178.1  |
| 110°   | 166.6  |

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CANDELA DISTRIBUTION (continued):

|        | 0°    |
|--------|-------|
| 112.5° | 155.1 |
| 115°   | 144.6 |
| 117.5° | 135.0 |
| 120°   | 127.3 |
| 122.5° | 121.6 |
| 125°   | 115.8 |
| 127.5° | 111.1 |
| 130°   | 107.2 |
| 132.5° | 104.4 |
| 135°   | 100.5 |
| 137.5° | 97.7  |
| 140°   | 94.8  |
| 142.5° | 91.9  |
| 145°   | 88.1  |
| 147.5° | 85.2  |
| 150°   | 82.3  |
| 152.5° | 79.5  |
| 155°   | 76.6  |
| 157.5° | 73.7  |
| 160°   | 69.9  |
| 162.5° | 66.1  |
| 165°   | 63.2  |
| 167.5° | 58.4  |
| 170°   | 53.6  |
| 172.5° | 48.8  |
| 175°   | 48.8  |
| 177.5° | 47.9  |
| 180°   | 47.9  |

(END OF REPORT)