

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: P980571

Luminaire Tested: UHBS2-1218-M-L83065-MID-3000K-FRR3

Issue Date: 4/4/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P980571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-1218-M-L83065-MID-3000K-FRR3  
Description: UHBS2 LED High Bay at 3000K and MID lumen setting 3in Deep Frosted Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

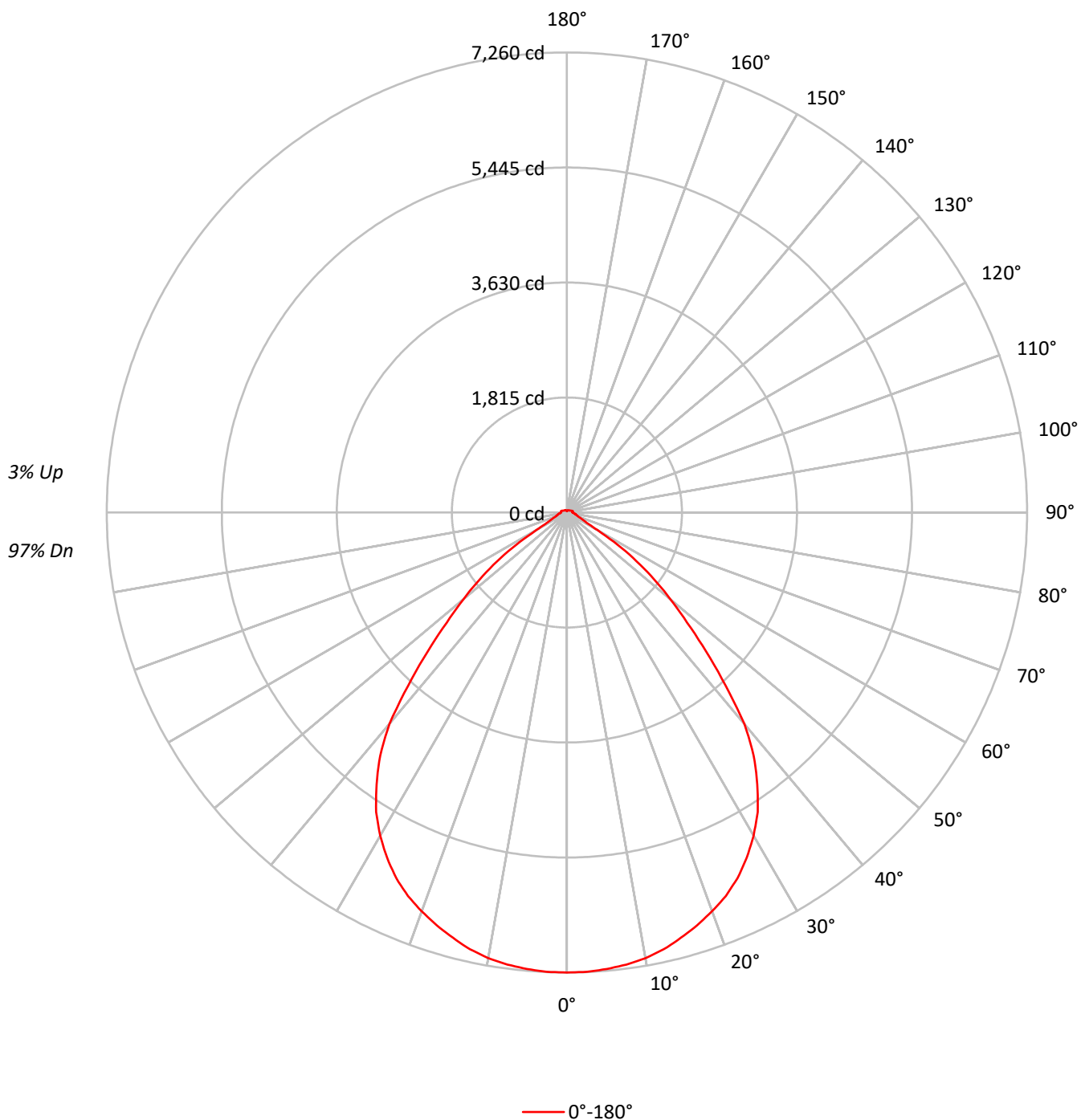
Lumens per Lamp: N/A  
Luminaire Lumens: 13437.0 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 98.9  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 7.15  
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 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 100 | 98  | 96  | 96  | 94  | 92  | 92 | 90 | 89 |
| 2   | 103 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 87  | 84  | 81  | 84 | 82 | 79 |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 80  | 76  | 72  | 77 | 74 | 71 |
| 4   | 89  | 80  | 73  | 67  | 87  | 78  | 72  | 67  | 76  | 70  | 65  | 73  | 68  | 64  | 71 | 67 | 63 |
| 5   | 83  | 73  | 65  | 60  | 81  | 72  | 65  | 59  | 69  | 63  | 59  | 67  | 62  | 58  | 65 | 61 | 57 |
| 6   | 78  | 67  | 59  | 54  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 56  | 52  | 60 | 55 | 51 |
| 7   | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 51  | 47  | 55 | 50 | 47 |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 51 | 46 | 42 |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 43  | 39  | 48 | 43 | 39 |
| 10  | 60  | 48  | 41  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 36  | 46  | 40  | 36  | 45 | 39 | 36 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 73187 |
| 5°  | 71462 |
| 10° | 69736 |
| 15° | 67567 |
| 20° | 65354 |
| 25° | 62836 |
| 30° | 59211 |
| 35° | 54104 |
| 40° | 46646 |
| 45° | 34757 |
| 50° | 25218 |
| 55° | 17025 |
| 60° | 7573  |
| 65° | 4288  |
| 70° | 3299  |
| 75° | 3033  |
| 80° | 3007  |
| 85° | 3060  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 34757 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 687.4   | 5.1       |
| 10°-20°   | 1960.7  | 14.6      |
| 20°-30°   | 2923.1  | 21.8      |
| 30°-40°   | 3248.4  | 24.2      |
| 40°-50°   | 2420.6  | 18.0      |
| 50°-60°   | 1193.1  | 8.9       |
| 60°-70°   | 307.3   | 2.3       |
| 70°-80°   | 168.9   | 1.3       |
| 80°-90°   | 119.6   | 0.9       |
| 90°-100°  | 101.6   | 0.8       |
| 100°-110° | 95.8    | 0.7       |
| 110°-120° | 69.0    | 0.5       |
| 120°-130° | 49.1    | 0.4       |
| 130°-140° | 36.9    | 0.3       |
| 140°-150° | 26.8    | 0.2       |
| 150°-160° | 17.4    | 0.1       |
| 160°-170° | 8.9     | 0.1       |
| 170°-180° | 2.4     | 0.0       |
| 0°-30°    | 5571.2  | 41.5      |
| 0°-40°    | 8819.6  | 65.6      |
| 0°-60°    | 12433.3 | 92.5      |
| 0°-90°    | 13029.1 | 97.0      |
| 90°-120°  | 266.5   | 2.0       |
| 90°-150°  | 379.3   | 2.8       |
| 90°-180°  | 408.0   | 3.0       |
| 0°-180°   | 13437.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 7260 |      |
| 5°   | 7231 | 687  |
| 15°  | 6948 | 1961 |
| 25°  | 6368 | 2923 |
| 35°  | 5237 | 3248 |
| 45°  | 3104 | 2421 |
| 55°  | 1346 | 1193 |
| 65°  | 285  | 307  |
| 75°  | 157  | 169  |
| 85°  | 109  | 94   |
| 90°  | 89   | 50   |
| 95°  | 93   | 77   |
| 105° | 91   | 96   |
| 115° | 69   | 69   |
| 125° | 54   | 49   |
| 135° | 47   | 37   |
| 145° | 43   | 27   |
| 155° | 38   | 17   |
| 165° | 31   | 9    |
| 175° | 24   | 2    |
| 180° | 24   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 7260.2 |
| 2.5°   | 7254.9 |
| 5°     | 7230.8 |
| 7.5°   | 7195.2 |
| 10°    | 7140.7 |
| 12.5°  | 7061.1 |
| 15°    | 6947.9 |
| 17.5°  | 6830.6 |
| 20°    | 6697.5 |
| 22.5°  | 6549.8 |
| 25°    | 6368.5 |
| 27.5°  | 6144.3 |
| 30°    | 5888.6 |
| 32.5°  | 5602.6 |
| 35°    | 5236.9 |
| 37.5°  | 4840.8 |
| 40°    | 4356.7 |
| 42.5°  | 3705.0 |
| 45°    | 3103.6 |
| 47.5°  | 2572.3 |
| 50°    | 2131.2 |
| 52.5°  | 1736.2 |
| 55°    | 1346.4 |
| 57.5°  | 954.5  |
| 60°    | 553.2  |
| 62.5°  | 352.1  |
| 65°    | 285.0  |
| 67.5°  | 234.7  |
| 70°    | 195.9  |
| 72.5°  | 175.0  |
| 75°    | 157.2  |
| 77.5°  | 143.5  |
| 80°    | 132.0  |
| 82.5°  | 120.5  |
| 85°    | 109.0  |
| 87.5°  | 98.5   |
| 90°    | 89.1   |
| 92.5°  | 91.2   |
| 95°    | 93.3   |
| 97.5°  | 95.3   |
| 100°   | 96.4   |
| 102.5° | 95.3   |
| 105°   | 91.2   |
| 107.5° | 87.0   |
| 110°   | 80.7   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 74.4 |
| 115°   | 69.2 |
| 117.5° | 63.9 |
| 120°   | 59.7 |
| 122.5° | 56.6 |
| 125°   | 54.5 |
| 127.5° | 52.4 |
| 130°   | 50.3 |
| 132.5° | 49.2 |
| 135°   | 47.2 |
| 137.5° | 46.1 |
| 140°   | 45.1 |
| 142.5° | 44.0 |
| 145°   | 43.0 |
| 147.5° | 40.9 |
| 150°   | 39.8 |
| 152.5° | 38.8 |
| 155°   | 37.7 |
| 157.5° | 35.6 |
| 160°   | 34.6 |
| 162.5° | 32.5 |
| 165°   | 31.4 |
| 167.5° | 29.3 |
| 170°   | 27.2 |
| 172.5° | 25.1 |
| 175°   | 24.1 |
| 177.5° | 25.1 |
| 180°   | 24.1 |

(END OF REPORT)