

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: P1175808

Luminaire Tested: UHBS2-1218-W-L83065-MID-3500K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175808
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: UHBS2-1218-W-L83065-MID-3500K-CLR6
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

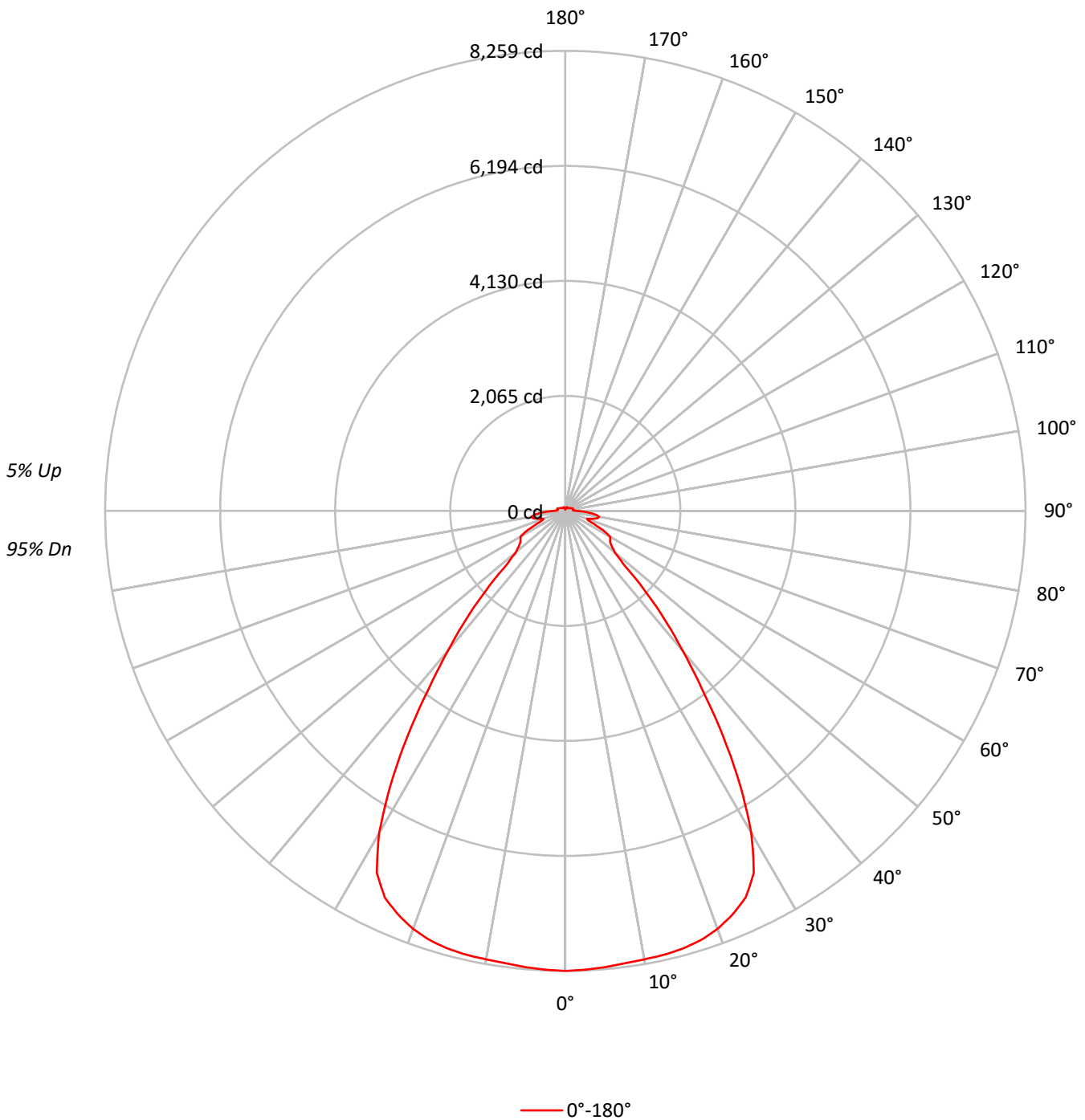
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14415.1 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 97.6
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 | | | 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° | 66873 |
| 5° | 64078 |
| 10° | 61877 |
| 15° | 60306 |
| 20° | 58422 |
| 25° | 55727 |
| 30° | 48695 |
| 35° | 36315 |
| 40° | 24535 |
| 45° | 15363 |
| 50° | 9226 |
| 55° | 8164 |
| 60° | 8137 |
| 65° | 5491 |
| 70° | 4205 |
| 75° | 5954 |
| 80° | 7590 |
| 85° | 6499 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15363 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 783.1 | 5.4 |
| 10°-20° | 2298.1 | 15.9 |
| 20°-30° | 3474.4 | 24.1 |
| 30°-40° | 3063.8 | 21.3 |
| 40°-50° | 1575.8 | 10.9 |
| 50°-60° | 903.9 | 6.3 |
| 60°-70° | 615.9 | 4.3 |
| 70°-80° | 561.2 | 3.9 |
| 80°-90° | 479.2 | 3.3 |
| 90°-100° | 164.3 | 1.1 |
| 100°-110° | 152.3 | 1.1 |
| 110°-120° | 113.8 | 0.8 |
| 120°-130° | 79.2 | 0.5 |
| 130°-140° | 54.1 | 0.4 |
| 140°-150° | 42.6 | 0.3 |
| 150°-160° | 32.9 | 0.2 |
| 160°-170° | 16.7 | 0.1 |
| 170°-180° | 3.8 | 0.0 |
| 0°-30° | 6555.7 | 45.5 |
| 0°-40° | 9619.5 | 66.7 |
| 0°-60° | 12099.1 | 83.9 |
| 0°-90° | 13755.4 | 95.4 |
| 90°-120° | 430.4 | 3.0 |
| 90°-150° | 606.2 | 4.2 |
| 90°-180° | 660.0 | 4.6 |
| 0°-180° | 14415.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 8259 | |
| 5° | 8221 | 783 |
| 15° | 8137 | 2298 |
| 25° | 7661 | 3474 |
| 35° | 4933 | 3064 |
| 45° | 1998 | 1576 |
| 55° | 982 | 904 |
| 65° | 587 | 616 |
| 75° | 538 | 561 |
| 85° | 461 | 407 |
| 90° | 204 | 121 |
| 95° | 137 | 115 |
| 105° | 147 | 152 |
| 115° | 113 | 114 |
| 125° | 88 | 79 |
| 135° | 68 | 54 |
| 145° | 67 | 43 |
| 155° | 72 | 33 |
| 165° | 58 | 17 |
| 175° | 37 | 4 |
| 180° | 31 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 8258.9 |
| 2.5° | 8246.0 |
| 5° | 8221.2 |
| 7.5° | 8190.5 |
| 10° | 8175.2 |
| 12.5° | 8164.6 |
| 15° | 8137.4 |
| 17.5° | 8082.0 |
| 20° | 7987.6 |
| 22.5° | 7843.7 |
| 25° | 7660.9 |
| 27.5° | 7327.1 |
| 30° | 6679.6 |
| 32.5° | 5844.5 |
| 35° | 4932.7 |
| 37.5° | 4026.8 |
| 40° | 3274.3 |
| 42.5° | 2623.2 |
| 45° | 1998.1 |
| 47.5° | 1422.5 |
| 50° | 1159.5 |
| 52.5° | 1056.8 |
| 55° | 982.5 |
| 57.5° | 955.4 |
| 60° | 928.3 |
| 62.5° | 792.6 |
| 65° | 587.4 |
| 67.5° | 444.7 |
| 70° | 416.4 |
| 72.5° | 464.7 |
| 75° | 537.9 |
| 77.5° | 600.4 |
| 80° | 614.5 |
| 82.5° | 566.2 |
| 85° | 461.2 |
| 87.5° | 322.0 |
| 90° | 204.1 |
| 92.5° | 152.2 |
| 95° | 136.8 |
| 97.5° | 139.2 |
| 100° | 143.9 |
| 102.5° | 148.6 |
| 105° | 147.4 |
| 107.5° | 141.5 |
| 110° | 132.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 122.7 |
| 115° | 113.2 |
| 117.5° | 106.2 |
| 120° | 99.1 |
| 122.5° | 94.4 |
| 125° | 88.5 |
| 127.5° | 81.4 |
| 130° | 76.7 |
| 132.5° | 72.0 |
| 135° | 68.4 |
| 137.5° | 67.2 |
| 140° | 66.1 |
| 142.5° | 67.2 |
| 145° | 67.2 |
| 147.5° | 68.4 |
| 150° | 70.8 |
| 152.5° | 72.0 |
| 155° | 72.0 |
| 157.5° | 70.8 |
| 160° | 68.4 |
| 162.5° | 63.7 |
| 165° | 57.8 |
| 167.5° | 51.9 |
| 170° | 46.0 |
| 172.5° | 41.3 |
| 175° | 36.6 |
| 177.5° | 33.0 |
| 180° | 30.7 |

(END OF REPORT)