

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: P1175824

Luminaire Tested: UHBS2-2436-M-L83065-MID-5000K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175824
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: UHBS2-2436-M-L83065-MID-5000K-CLR6
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

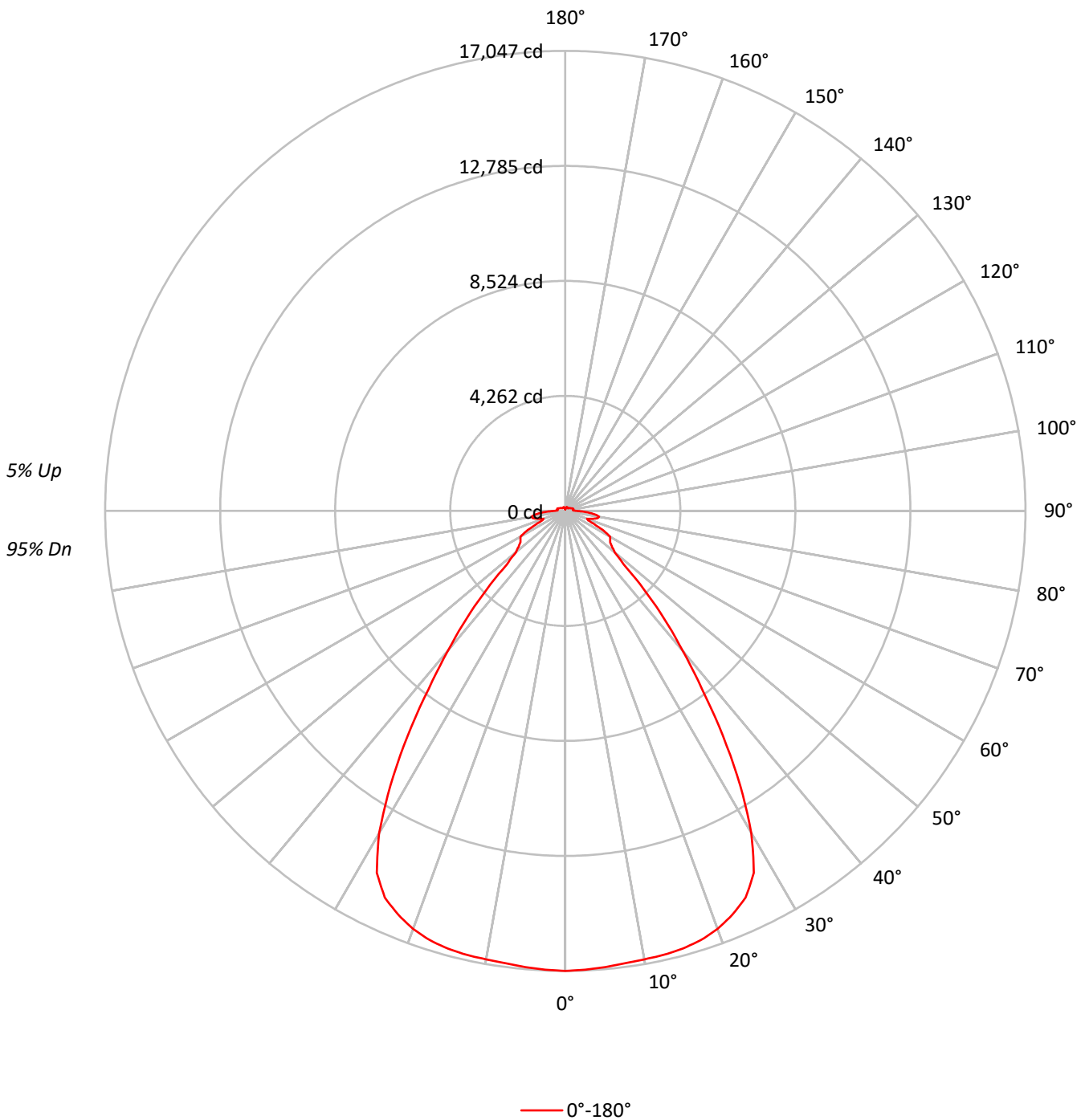
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29754.0 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 191
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
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 | | | | 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° | 107825 |
| 5° | 103814 |
| 10° | 100699 |
| 15° | 98565 |
| 20° | 95883 |
| 25° | 91836 |
| 30° | 80577 |
| 35° | 60343 |
| 40° | 40945 |
| 45° | 25754 |
| 50° | 15540 |
| 55° | 13825 |
| 60° | 13858 |
| 65° | 9414 |
| 70° | 7263 |
| 75° | 10379 |
| 80° | 13381 |
| 85° | 11623 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25754 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1616.4 | 5.4 |
| 10°-20° | 4743.6 | 15.9 |
| 20°-30° | 7171.6 | 24.1 |
| 30°-40° | 6324.0 | 21.3 |
| 40°-50° | 3252.6 | 10.9 |
| 50°-60° | 1865.8 | 6.3 |
| 60°-70° | 1271.4 | 4.3 |
| 70°-80° | 1158.3 | 3.9 |
| 80°-90° | 989.0 | 3.3 |
| 90°-100° | 339.1 | 1.1 |
| 100°-110° | 314.3 | 1.1 |
| 110°-120° | 234.8 | 0.8 |
| 120°-130° | 163.4 | 0.5 |
| 130°-140° | 111.7 | 0.4 |
| 140°-150° | 87.9 | 0.3 |
| 150°-160° | 68.0 | 0.2 |
| 160°-170° | 34.4 | 0.1 |
| 170°-180° | 7.8 | 0.0 |
| 0°-30° | 13531.6 | 45.5 |
| 0°-40° | 19855.6 | 66.7 |
| 0°-60° | 24973.9 | 83.9 |
| 0°-90° | 28392.5 | 95.4 |
| 90°-120° | 888.3 | 3.0 |
| 90°-150° | 1251.3 | 4.2 |
| 90°-180° | 1362.0 | 4.6 |
| 0°-180° | 29754.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-------|------|
| 0° | 17047 | |
| 5° | 16969 | ### |
| 15° | 16796 | 4744 |
| 25° | 15813 | 7172 |
| 35° | 10182 | 6324 |
| 45° | 4124 | 3253 |
| 55° | 2028 | 1866 |
| 65° | 1212 | 1271 |
| 75° | 1110 | 1158 |
| 85° | 952 | 840 |
| 90° | 421 | 250 |
| 95° | 282 | 238 |
| 105° | 304 | 314 |
| 115° | 234 | 235 |
| 125° | 183 | 163 |
| 135° | 141 | 112 |
| 145° | 139 | 88 |
| 155° | 148 | 68 |
| 165° | 119 | 34 |
| 175° | 76 | 8 |
| 180° | 63 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|---------|
| 0° | 17047.3 |
| 2.5° | 17020.5 |
| 5° | 16969.4 |
| 7.5° | 16906.1 |
| 10° | 16874.4 |
| 12.5° | 16852.5 |
| 15° | 16796.5 |
| 17.5° | 16682.1 |
| 20° | 16487.3 |
| 22.5° | 16190.3 |
| 25° | 15812.9 |
| 27.5° | 15123.9 |
| 30° | 13787.3 |
| 32.5° | 12063.6 |
| 35° | 10181.6 |
| 37.5° | 8311.8 |
| 40° | 6758.5 |
| 42.5° | 5414.6 |
| 45° | 4124.3 |
| 47.5° | 2936.2 |
| 50° | 2393.2 |
| 52.5° | 2181.4 |
| 55° | 2028.0 |
| 57.5° | 1972.0 |
| 60° | 1916.1 |
| 62.5° | 1636.1 |
| 65° | 1212.4 |
| 67.5° | 917.9 |
| 70° | 859.4 |
| 72.5° | 959.2 |
| 75° | 1110.2 |
| 77.5° | 1239.2 |
| 80° | 1268.4 |
| 82.5° | 1168.6 |
| 85° | 951.9 |
| 87.5° | 664.7 |
| 90° | 421.2 |
| 92.5° | 314.1 |
| 95° | 282.4 |
| 97.5° | 287.3 |
| 100° | 297.0 |
| 102.5° | 306.8 |
| 105° | 304.3 |
| 107.5° | 292.2 |
| 110° | 272.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 253.2 |
| 115° | 233.7 |
| 117.5° | 219.1 |
| 120° | 204.5 |
| 122.5° | 194.8 |
| 125° | 182.6 |
| 127.5° | 168.0 |
| 130° | 158.3 |
| 132.5° | 148.5 |
| 135° | 141.2 |
| 137.5° | 138.8 |
| 140° | 136.3 |
| 142.5° | 138.8 |
| 145° | 138.8 |
| 147.5° | 141.2 |
| 150° | 146.1 |
| 152.5° | 148.5 |
| 155° | 148.5 |
| 157.5° | 146.1 |
| 160° | 141.2 |
| 162.5° | 131.5 |
| 165° | 119.3 |
| 167.5° | 107.1 |
| 170° | 95.0 |
| 172.5° | 85.2 |
| 175° | 75.5 |
| 177.5° | 68.2 |
| 180° | 63.3 |

(END OF REPORT)