

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: P1175814

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-4000K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175814
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-HIGH-4000K-CLR6
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

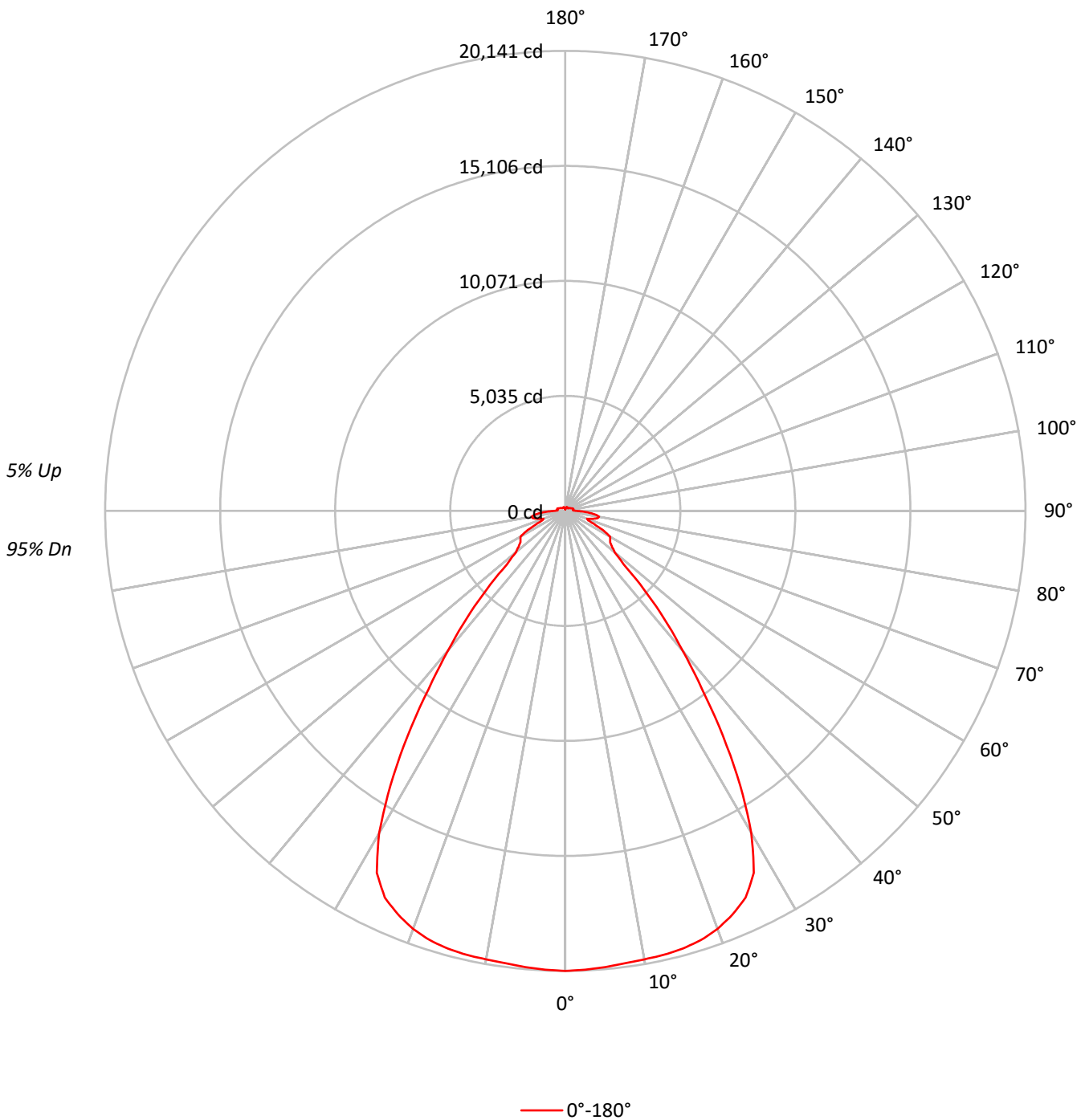
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35154.0 lumens
Efficiency: N/A
Efficacy: 151.5 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): 232.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
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° | 127394 |
| 5° | 122655 |
| 10° | 118975 |
| 15° | 116453 |
| 20° | 113285 |
| 25° | 108504 |
| 30° | 95200 |
| 35° | 71295 |
| 40° | 48376 |
| 45° | 30428 |
| 50° | 18360 |
| 55° | 16334 |
| 60° | 16373 |
| 65° | 11123 |
| 70° | 8581 |
| 75° | 12263 |
| 80° | 15809 |
| 85° | 13733 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30428 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1909.8 | 5.4 |
| 10°-20° | 5604.5 | 15.9 |
| 20°-30° | 8473.1 | 24.1 |
| 30°-40° | 7471.7 | 21.3 |
| 40°-50° | 3842.8 | 10.9 |
| 50°-60° | 2204.4 | 6.3 |
| 60°-70° | 1502.1 | 4.3 |
| 70°-80° | 1368.5 | 3.9 |
| 80°-90° | 1168.5 | 3.3 |
| 90°-100° | 400.7 | 1.1 |
| 100°-110° | 371.4 | 1.1 |
| 110°-120° | 277.5 | 0.8 |
| 120°-130° | 193.1 | 0.5 |
| 130°-140° | 132.0 | 0.4 |
| 140°-150° | 103.8 | 0.3 |
| 150°-160° | 80.3 | 0.2 |
| 160°-170° | 40.7 | 0.1 |
| 170°-180° | 9.3 | 0.0 |
| 0°-30° | 15987.4 | 45.5 |
| 0°-40° | 23459.1 | 66.7 |
| 0°-60° | 29506.4 | 83.9 |
| 0°-90° | 33545.4 | 95.4 |
| 90°-120° | 1049.5 | 3.0 |
| 90°-150° | 1478.4 | 4.2 |
| 90°-180° | 1609.0 | 4.6 |
| 0°-180° | 35154.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-------|------|
| 0° | 20141 | |
| 5° | 20049 | ### |
| 15° | 19845 | 5605 |
| 25° | 18683 | 8473 |
| 35° | 12030 | 7472 |
| 45° | 4873 | 3843 |
| 55° | 2396 | 2204 |
| 65° | 1432 | 1502 |
| 75° | 1312 | 1368 |
| 85° | 1125 | 993 |
| 90° | 498 | 295 |
| 95° | 334 | 282 |
| 105° | 360 | 371 |
| 115° | 276 | 277 |
| 125° | 216 | 193 |
| 135° | 167 | 132 |
| 145° | 164 | 104 |
| 155° | 176 | 80 |
| 165° | 141 | 41 |
| 175° | 89 | 9 |
| 180° | 75 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|---------|
| 0° | 20141.1 |
| 2.5° | 20109.5 |
| 5° | 20049.1 |
| 7.5° | 19974.3 |
| 10° | 19936.9 |
| 12.5° | 19911.0 |
| 15° | 19844.9 |
| 17.5° | 19709.7 |
| 20° | 19479.6 |
| 22.5° | 19128.6 |
| 25° | 18682.8 |
| 27.5° | 17868.7 |
| 30° | 16289.5 |
| 32.5° | 14253.0 |
| 35° | 12029.5 |
| 37.5° | 9820.3 |
| 40° | 7985.1 |
| 42.5° | 6397.3 |
| 45° | 4872.8 |
| 47.5° | 3469.0 |
| 50° | 2827.6 |
| 52.5° | 2577.3 |
| 55° | 2396.1 |
| 57.5° | 2330.0 |
| 60° | 2263.8 |
| 62.5° | 1933.0 |
| 65° | 1432.5 |
| 67.5° | 1084.4 |
| 70° | 1015.4 |
| 72.5° | 1133.3 |
| 75° | 1311.7 |
| 77.5° | 1464.1 |
| 80° | 1498.6 |
| 82.5° | 1380.7 |
| 85° | 1124.7 |
| 87.5° | 785.3 |
| 90° | 497.6 |
| 92.5° | 371.1 |
| 95° | 333.7 |
| 97.5° | 339.4 |
| 100° | 350.9 |
| 102.5° | 362.4 |
| 105° | 359.6 |
| 107.5° | 345.2 |
| 110° | 322.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 299.2 |
| 115° | 276.1 |
| 117.5° | 258.9 |
| 120° | 241.6 |
| 122.5° | 230.1 |
| 125° | 215.7 |
| 127.5° | 198.5 |
| 130° | 187.0 |
| 132.5° | 175.5 |
| 135° | 166.8 |
| 137.5° | 164.0 |
| 140° | 161.1 |
| 142.5° | 164.0 |
| 145° | 164.0 |
| 147.5° | 166.8 |
| 150° | 172.6 |
| 152.5° | 175.5 |
| 155° | 175.5 |
| 157.5° | 172.6 |
| 160° | 166.8 |
| 162.5° | 155.3 |
| 165° | 140.9 |
| 167.5° | 126.6 |
| 170° | 112.2 |
| 172.5° | 100.7 |
| 175° | 89.2 |
| 177.5° | 80.5 |
| 180° | 74.8 |

(END OF REPORT)