

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: P1175845

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-6500K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175845
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-W-L83065-HIGH-6500K-CLR6
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

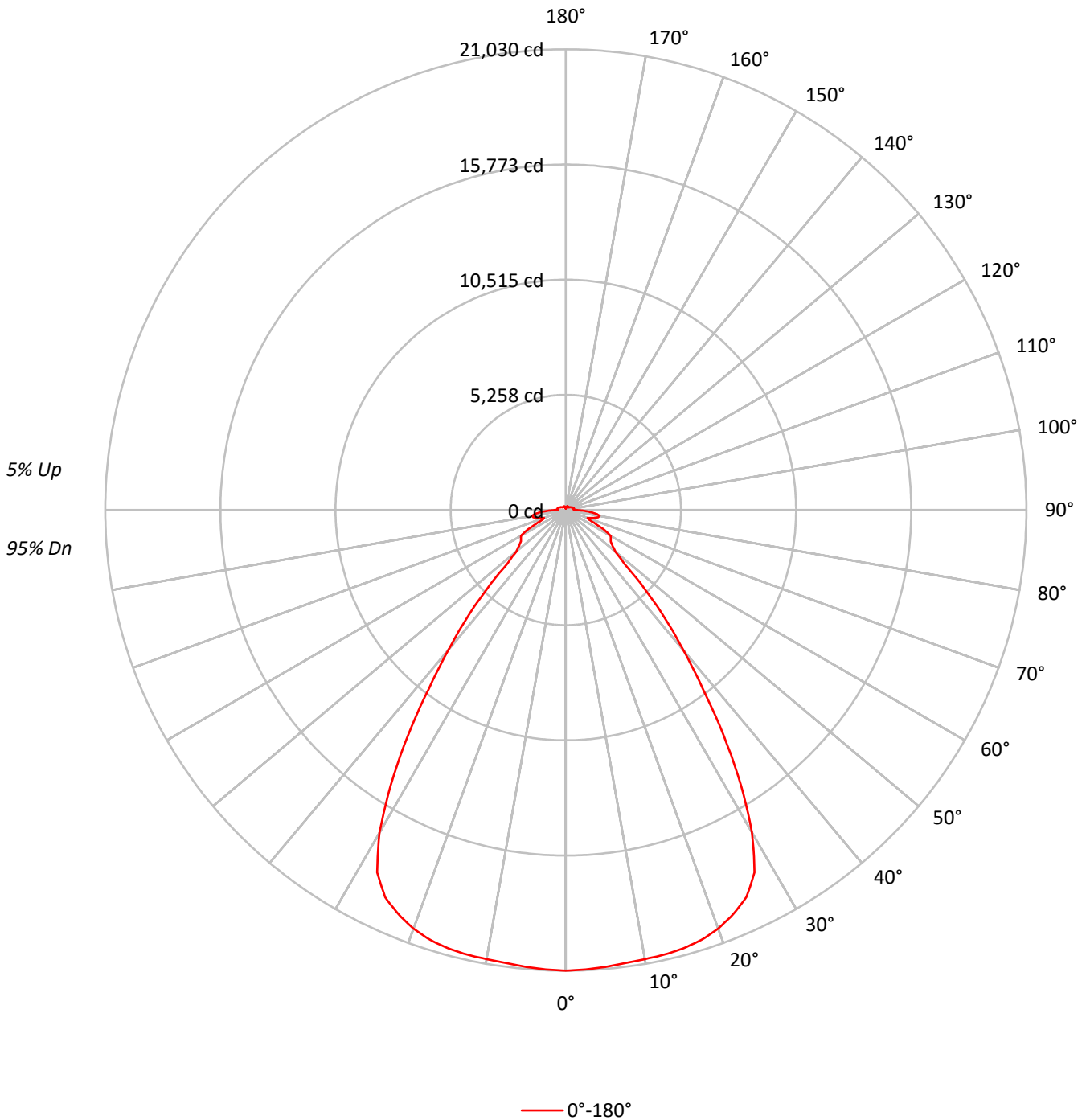
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36705.0 lumens
Efficiency: N/A
Efficacy: 153.5 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): 239.1
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





TEST NUMBER: P1175845

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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° | 133015 |
| 5° | 128067 |
| 10° | 124224 |
| 15° | 121591 |
| 20° | 118283 |
| 25° | 113291 |
| 30° | 99400 |
| 35° | 74440 |
| 40° | 50510 |
| 45° | 31770 |
| 50° | 19170 |
| 55° | 17055 |
| 60° | 17095 |
| 65° | 11614 |
| 70° | 8960 |
| 75° | 12803 |
| 80° | 16508 |
| 85° | 14339 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31770 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1994.0 | 5.4 |
| 10°-20° | 5851.8 | 15.9 |
| 20°-30° | 8847.0 | 24.1 |
| 30°-40° | 7801.3 | 21.3 |
| 40°-50° | 4012.4 | 10.9 |
| 50°-60° | 2301.7 | 6.3 |
| 60°-70° | 1568.4 | 4.3 |
| 70°-80° | 1428.8 | 3.9 |
| 80°-90° | 1220.0 | 3.3 |
| 90°-100° | 418.3 | 1.1 |
| 100°-110° | 387.8 | 1.1 |
| 110°-120° | 289.7 | 0.8 |
| 120°-130° | 201.6 | 0.5 |
| 130°-140° | 137.8 | 0.4 |
| 140°-150° | 108.4 | 0.3 |
| 150°-160° | 83.8 | 0.2 |
| 160°-170° | 42.5 | 0.1 |
| 170°-180° | 9.7 | 0.0 |
| 0°-30° | 16692.8 | 45.5 |
| 0°-40° | 24494.1 | 66.7 |
| 0°-60° | 30808.2 | 83.9 |
| 0°-90° | 35025.5 | 95.4 |
| 90°-120° | 1095.8 | 3.0 |
| 90°-150° | 1543.6 | 4.2 |
| 90°-180° | 1680.0 | 4.6 |
| 0°-180° | 36705.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-------|------|
| 0° | 21030 | |
| 5° | 20934 | ### |
| 15° | 20720 | 5852 |
| 25° | 19507 | 8847 |
| 35° | 12560 | 7801 |
| 45° | 5088 | 4012 |
| 55° | 2502 | 2302 |
| 65° | 1496 | 1568 |
| 75° | 1370 | 1429 |
| 85° | 1174 | 1036 |
| 90° | 520 | 308 |
| 95° | 348 | 294 |
| 105° | 375 | 388 |
| 115° | 288 | 290 |
| 125° | 225 | 202 |
| 135° | 174 | 138 |
| 145° | 171 | 108 |
| 155° | 183 | 84 |
| 165° | 147 | 42 |
| 175° | 93 | 10 |
| 180° | 78 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|---------|
| 0° | 21029.8 |
| 2.5° | 20996.7 |
| 5° | 20933.7 |
| 7.5° | 20855.6 |
| 10° | 20816.5 |
| 12.5° | 20789.5 |
| 15° | 20720.4 |
| 17.5° | 20579.3 |
| 20° | 20339.0 |
| 22.5° | 19972.6 |
| 25° | 19507.1 |
| 27.5° | 18657.1 |
| 30° | 17008.2 |
| 32.5° | 14881.8 |
| 35° | 12560.2 |
| 37.5° | 10253.6 |
| 40° | 8337.4 |
| 42.5° | 6679.6 |
| 45° | 5087.8 |
| 47.5° | 3622.1 |
| 50° | 2952.3 |
| 52.5° | 2691.0 |
| 55° | 2501.8 |
| 57.5° | 2432.8 |
| 60° | 2363.7 |
| 62.5° | 2018.3 |
| 65° | 1495.7 |
| 67.5° | 1132.3 |
| 70° | 1060.2 |
| 72.5° | 1183.3 |
| 75° | 1369.5 |
| 77.5° | 1528.7 |
| 80° | 1564.8 |
| 82.5° | 1441.6 |
| 85° | 1174.3 |
| 87.5° | 819.9 |
| 90° | 519.6 |
| 92.5° | 387.4 |
| 95° | 348.4 |
| 97.5° | 354.4 |
| 100° | 366.4 |
| 102.5° | 378.4 |
| 105° | 375.4 |
| 107.5° | 360.4 |
| 110° | 336.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 312.4 |
| 115° | 288.3 |
| 117.5° | 270.3 |
| 120° | 252.3 |
| 122.5° | 240.3 |
| 125° | 225.3 |
| 127.5° | 207.2 |
| 130° | 195.2 |
| 132.5° | 183.2 |
| 135° | 174.2 |
| 137.5° | 171.2 |
| 140° | 168.2 |
| 142.5° | 171.2 |
| 145° | 171.2 |
| 147.5° | 174.2 |
| 150° | 180.2 |
| 152.5° | 183.2 |
| 155° | 183.2 |
| 157.5° | 180.2 |
| 160° | 174.2 |
| 162.5° | 162.2 |
| 165° | 147.2 |
| 167.5° | 132.1 |
| 170° | 117.1 |
| 172.5° | 105.1 |
| 175° | 93.1 |
| 177.5° | 84.1 |
| 180° | 78.1 |

(END OF REPORT)