

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P895424

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVR-UNV-CC83-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

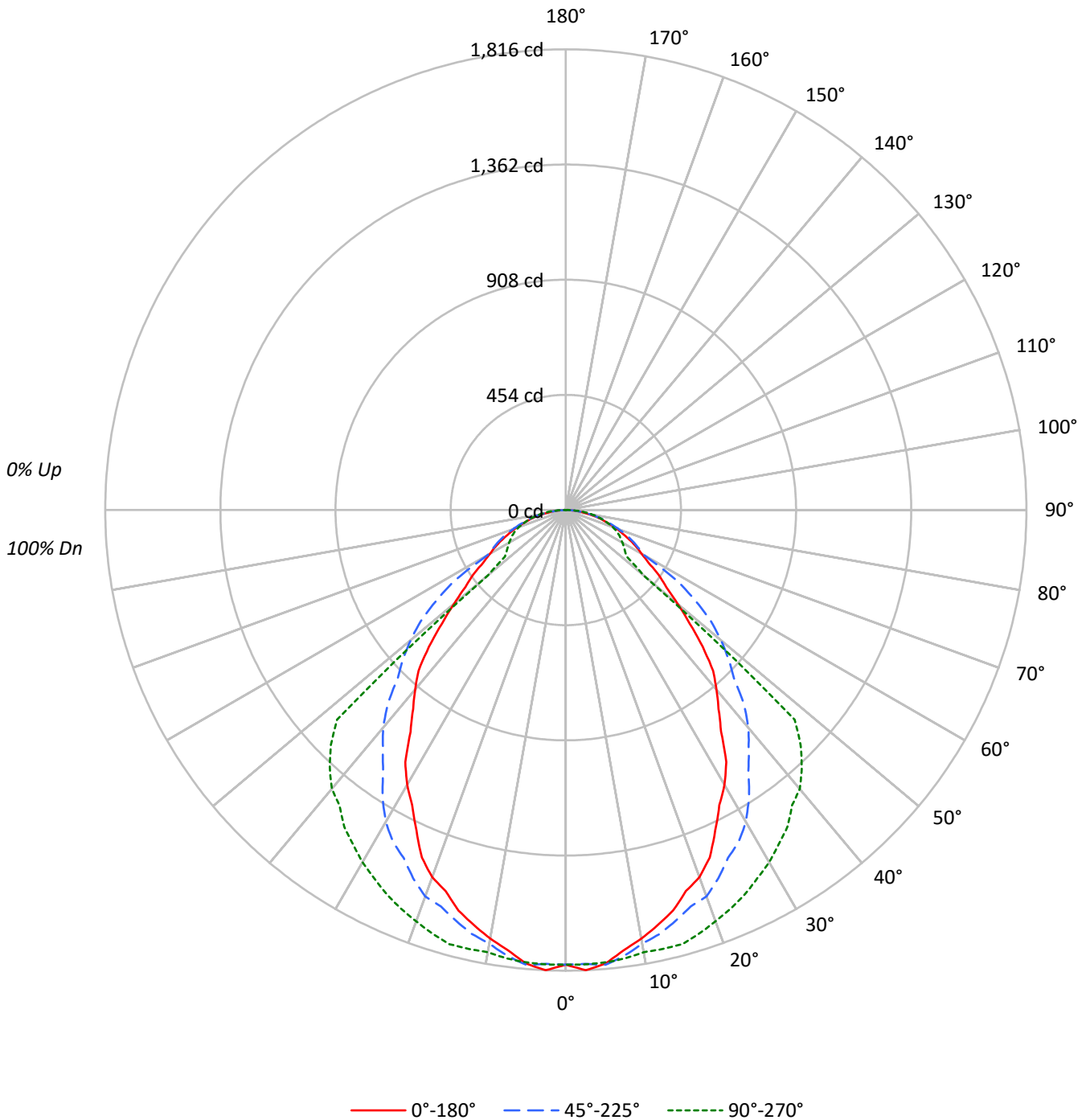
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3824.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895424
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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 102 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 77 | 77 | 77 | 75 |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 67 | 67 | 67 | 65 |
| 4 | 87 | 76 | 68 | 62 | 84 | 74 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 59 | 59 | 59 | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 53 | 63 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 56 | 51 | 47 | 47 | 47 | 47 | 45 |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 42 | 42 | 42 | 40 |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 38 | 38 | 38 | 36 |
| 9 | 61 | 48 | 40 | 35 | 59 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 35 | 35 | 35 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 32 | 32 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6358 | 6358 | 6358 |
| 5° | 6392 | 6409 | 6376 |
| 10° | 6183 | 6255 | 6377 |
| 15° | 6004 | 6155 | 6508 |
| 20° | 5816 | 6120 | 6514 |
| 25° | 5457 | 5923 | 6542 |
| 30° | 5126 | 5816 | 6569 |
| 35° | 4622 | 5439 | 6600 |
| 40° | 4281 | 5188 | 6647 |
| 45° | 3830 | 4702 | 6571 |
| 50° | 3178 | 4405 | 2207 |
| 55° | 2768 | 3867 | 1766 |
| 60° | 2448 | 2520 | 1832 |
| 65° | 2328 | 2451 | 1944 |
| 70° | 2184 | 2317 | 2051 |
| 75° | 2033 | 2182 | 2108 |
| 80° | 1851 | 2058 | 2207 |
| 85° | 1641 | 1751 | 2386 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6571 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.0 | 4.4 |
| 10°-20° | 478.1 | 12.5 |
| 20°-30° | 703.4 | 18.4 |
| 30°-40° | 804.4 | 21.0 |
| 40°-50° | 761.7 | 19.9 |
| 50°-60° | 419.6 | 11.0 |
| 60°-70° | 269.4 | 7.0 |
| 70°-80° | 166.3 | 4.3 |
| 80°-90° | 51.2 | 1.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1351.5 | 35.3 |
| 0°-40° | 2155.8 | 56.4 |
| 0°-60° | 3337.1 | 87.3 |
| 0°-90° | 3824.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3824.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1792 | 1792 | 1792 | 1792 | 1792 | |
| 5° | 1795 | 1809 | 1799 | 1799 | 1790 | 168 |
| 15° | 1634 | 1655 | 1676 | 1764 | 1772 | 459 |
| 25° | 1394 | 1456 | 1513 | 1612 | 1671 | 642 |
| 35° | 1067 | 1159 | 1256 | 1438 | 1524 | 675 |
| 45° | 763 | 836 | 937 | 1203 | 1310 | 584 |
| 55° | 448 | 470 | 625 | 322 | 286 | 400 |
| 65° | 277 | 286 | 292 | 260 | 232 | 274 |
| 75° | 148 | 151 | 159 | 168 | 154 | 158 |
| 85° | 40 | 40 | 43 | 49 | 59 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P895424

CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-LOW-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 |
| 2.5° | 1815.7 | 1820.3 | 1791.0 | 1790.1 | 1792.8 |
| 5° | 1794.7 | 1809.3 | 1799.3 | 1799.3 | 1790.1 |
| 7.5° | 1749.8 | 1774.5 | 1771.8 | 1792.8 | 1782.8 |
| 10° | 1716.0 | 1736.1 | 1736.1 | 1791.0 | 1770.0 |
| 12.5° | 1675.7 | 1698.6 | 1711.4 | 1769.1 | 1771.8 |
| 15° | 1634.5 | 1654.7 | 1675.7 | 1763.6 | 1771.8 |
| 17.5° | 1575.0 | 1611.6 | 1638.2 | 1724.2 | 1750.7 |
| 20° | 1540.3 | 1562.2 | 1620.8 | 1690.3 | 1725.1 |
| 22.5° | 1482.6 | 1514.6 | 1571.4 | 1649.2 | 1700.4 |
| 25° | 1393.8 | 1456.1 | 1512.8 | 1611.6 | 1671.1 |
| 27.5° | 1311.5 | 1358.1 | 1475.3 | 1579.6 | 1636.4 |
| 30° | 1251.1 | 1287.7 | 1419.5 | 1532.9 | 1603.4 |
| 32.5° | 1177.8 | 1237.3 | 1344.4 | 1487.2 | 1562.2 |
| 35° | 1067.1 | 1158.6 | 1255.6 | 1437.8 | 1523.8 |
| 37.5° | 989.3 | 1052.5 | 1184.2 | 1386.5 | 1466.1 |
| 40° | 924.3 | 982.0 | 1120.2 | 1322.4 | 1435.0 |
| 42.5° | 859.4 | 906.0 | 1039.7 | 1274.9 | 1377.4 |
| 45° | 763.3 | 835.6 | 937.1 | 1202.6 | 1309.6 |
| 47.5° | 662.6 | 739.5 | 870.3 | 1141.2 | 1223.6 |
| 50° | 575.7 | 637.0 | 798.0 | 1019.5 | 399.9 |
| 52.5° | 499.7 | 556.4 | 721.2 | 368.8 | 302.0 |
| 55° | 447.5 | 469.5 | 625.1 | 322.1 | 285.5 |
| 57.5° | 385.3 | 421.0 | 524.4 | 306.6 | 270.9 |
| 60° | 345.0 | 360.6 | 355.1 | 291.0 | 258.1 |
| 62.5° | 313.0 | 324.0 | 322.1 | 275.5 | 243.4 |
| 65° | 277.3 | 286.5 | 291.9 | 259.9 | 231.5 |
| 67.5° | 241.6 | 249.8 | 258.1 | 240.7 | 215.1 |
| 70° | 210.5 | 216.0 | 223.3 | 217.8 | 197.7 |
| 72.5° | 178.5 | 184.9 | 189.4 | 194.0 | 174.8 |
| 75° | 148.3 | 151.0 | 159.2 | 167.5 | 153.8 |
| 77.5° | 120.8 | 123.6 | 129.0 | 138.2 | 130.9 |
| 80° | 90.6 | 93.3 | 100.7 | 108.0 | 108.0 |
| 82.5° | 64.1 | 65.9 | 70.5 | 80.5 | 85.1 |
| 85° | 40.3 | 40.3 | 43.0 | 49.4 | 58.6 |
| 87.5° | 15.6 | 15.6 | 18.3 | 22.0 | 29.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 14.38 | 15.86 | 14.74 | 16.17 | 16.49 | 12.18 | 13.66 | 12.54 | 13.98 | 14.29 |
| | 3H | 15.90 | 17.23 | 16.28 | 17.56 | 17.92 | 14.51 | 15.84 | 14.89 | 16.16 | 16.53 |
| | 4H | 16.50 | 17.74 | 16.90 | 18.09 | 18.47 | 15.46 | 16.70 | 15.86 | 17.05 | 17.43 |
| | 6H | 16.95 | 18.10 | 17.36 | 18.47 | 18.86 | 16.24 | 17.39 | 16.66 | 17.76 | 18.15 |
| | 8H | 17.10 | 18.19 | 17.52 | 18.58 | 18.98 | 16.56 | 17.65 | 16.98 | 18.04 | 18.44 |
| | 12H | 17.19 | 18.24 | 17.62 | 18.62 | 19.05 | 16.80 | 17.85 | 17.24 | 18.23 | 18.66 |
| 4H | 2H | 14.93 | 16.17 | 15.33 | 16.52 | 16.90 | 13.28 | 14.53 | 13.68 | 14.88 | 15.25 |
| | 3H | 16.70 | 17.73 | 17.11 | 18.13 | 18.53 | 15.73 | 16.76 | 16.14 | 17.16 | 17.56 |
| | 4H | 17.42 | 18.34 | 17.85 | 18.76 | 19.20 | 16.80 | 17.72 | 17.23 | 18.14 | 18.58 |
| | 6H | 18.00 | 18.81 | 18.46 | 19.25 | 19.71 | 17.68 | 18.49 | 18.14 | 18.93 | 19.39 |
| | 8H | 18.19 | 18.95 | 18.66 | 19.39 | 19.86 | 18.03 | 18.79 | 18.50 | 19.23 | 19.70 |
| | 12H | 18.33 | 19.00 | 18.81 | 19.48 | 19.95 | 18.32 | 19.00 | 18.81 | 19.48 | 19.95 |
| 8H | 4H | 17.73 | 18.48 | 18.19 | 18.92 | 19.39 | 17.18 | 17.93 | 17.65 | 18.38 | 18.85 |
| | 6H | 18.44 | 19.06 | 18.94 | 19.55 | 20.03 | 18.22 | 18.84 | 18.72 | 19.33 | 19.81 |
| | 8H | 18.70 | 19.26 | 19.21 | 19.77 | 20.26 | 18.66 | 19.22 | 19.18 | 19.73 | 20.22 |
| | 12H | 18.91 | 19.41 | 19.42 | 19.90 | 20.47 | 19.05 | 19.55 | 19.56 | 20.04 | 20.60 |
| 12H | 4H | 17.76 | 18.44 | 18.25 | 18.91 | 19.39 | 17.22 | 17.89 | 17.70 | 18.37 | 18.84 |
| | 6H | 18.50 | 19.06 | 19.02 | 19.58 | 20.06 | 18.28 | 18.84 | 18.80 | 19.35 | 19.84 |
| | 8H | 18.82 | 19.32 | 19.33 | 19.81 | 20.38 | 18.79 | 19.29 | 19.30 | 19.78 | 20.35 |