

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: P894391

Luminaire Tested: 8TMB-10SL-FLTU-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-FLTU-UNV-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 40
Light Source: -
Ballast/Driver: -

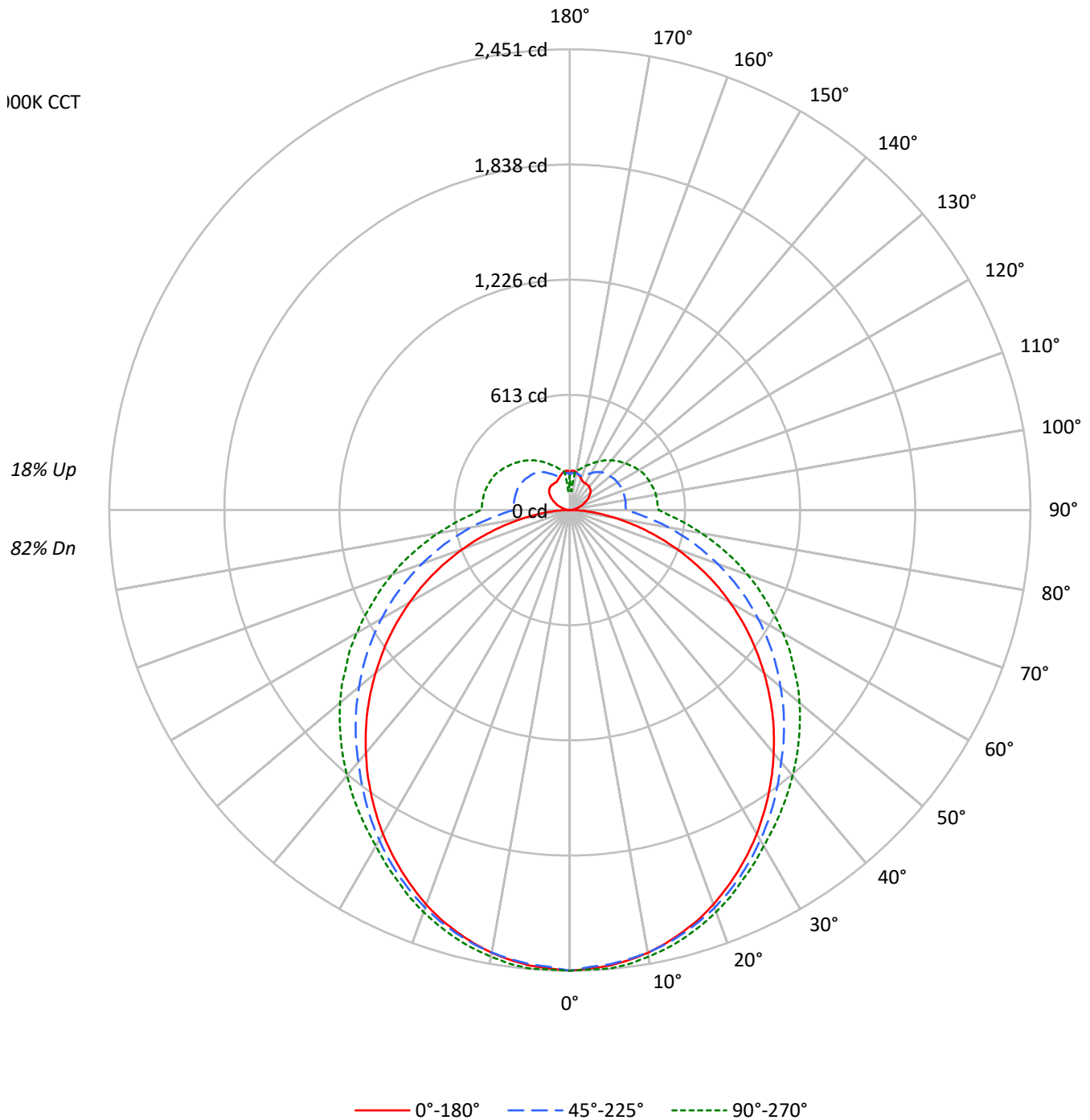
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9265.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P894391
CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P894391
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

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 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 93 | 93 | 93 | 86 | 86 | 86 | 86 | 86 | 86 | 82 |
| 1 | 103 | 98 | 93 | 89 | 99 | 94 | 90 | 86 | 86 | 83 | 80 | 79 | 77 | 74 | 73 | 71 | 69 | 69 | 69 | 69 | 66 |
| 2 | 93 | 85 | 77 | 71 | 89 | 81 | 75 | 69 | 75 | 69 | 65 | 69 | 64 | 61 | 63 | 60 | 57 | 57 | 57 | 57 | 54 |
| 3 | 85 | 74 | 65 | 59 | 81 | 71 | 63 | 57 | 65 | 59 | 54 | 60 | 55 | 51 | 55 | 51 | 48 | 48 | 48 | 48 | 45 |
| 4 | 77 | 65 | 56 | 49 | 74 | 63 | 54 | 48 | 58 | 51 | 45 | 53 | 48 | 43 | 49 | 45 | 41 | 41 | 41 | 41 | 38 |
| 5 | 71 | 58 | 49 | 42 | 68 | 56 | 47 | 41 | 52 | 45 | 39 | 48 | 42 | 37 | 44 | 39 | 35 | 35 | 35 | 35 | 32 |
| 6 | 66 | 52 | 43 | 37 | 62 | 50 | 42 | 36 | 47 | 39 | 34 | 43 | 37 | 32 | 40 | 35 | 31 | 31 | 31 | 31 | 28 |
| 7 | 61 | 47 | 38 | 32 | 58 | 45 | 37 | 31 | 42 | 35 | 30 | 39 | 33 | 29 | 37 | 31 | 27 | 27 | 27 | 27 | 25 |
| 8 | 56 | 43 | 34 | 29 | 54 | 41 | 33 | 28 | 39 | 32 | 27 | 36 | 30 | 26 | 34 | 28 | 24 | 24 | 24 | 24 | 22 |
| 9 | 53 | 39 | 31 | 26 | 50 | 38 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 31 | 26 | 22 | 22 | 22 | 22 | 20 |
| 10 | 49 | 36 | 28 | 23 | 47 | 35 | 28 | 23 | 33 | 26 | 22 | 31 | 25 | 21 | 29 | 24 | 20 | 20 | 20 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8695 | 8695 | 8695 |
| 5° | 8645 | 8345 | 8322 |
| 10° | 8581 | 8037 | 7927 |
| 15° | 8475 | 7726 | 7549 |
| 20° | 8355 | 7407 | 7166 |
| 25° | 8198 | 7073 | 6776 |
| 30° | 8031 | 6730 | 6423 |
| 35° | 7845 | 6386 | 6131 |
| 40° | 7649 | 6047 | 5852 |
| 45° | 7454 | 5752 | 5587 |
| 50° | 7225 | 5445 | 5329 |
| 55° | 6980 | 5145 | 5041 |
| 60° | 6686 | 4821 | 4767 |
| 65° | 6335 | 4480 | 4458 |
| 70° | 5871 | 4106 | 4170 |
| 75° | 5228 | 3721 | 3859 |
| 80° | 4382 | 3310 | 3540 |
| 85° | 3298 | 2892 | 3249 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7454 cd/sqm



TEST NUMBER: P894391
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 231.7 | 2.5 |
| 10°-20° | 661.0 | 7.1 |
| 20°-30° | 993.1 | 10.7 |
| 30°-40° | 1192.5 | 12.9 |
| 40°-50° | 1253.9 | 13.5 |
| 50°-60° | 1178.1 | 12.7 |
| 60°-70° | 979.7 | 10.6 |
| 70°-80° | 699.1 | 7.5 |
| 80°-90° | 416.1 | 4.5 |
| 90°-100° | 301.2 | 3.3 |
| 100°-110° | 297.2 | 3.2 |
| 110°-120° | 279.2 | 3.0 |
| 120°-130° | 247.4 | 2.7 |
| 130°-140° | 205.0 | 2.2 |
| 140°-150° | 153.5 | 1.7 |
| 150°-160° | 100.9 | 1.1 |
| 160°-170° | 57.2 | 0.6 |
| 170°-180° | 18.2 | 0.2 |
| 0°-30° | 1885.8 | 20.4 |
| 0°-40° | 3078.3 | 33.2 |
| 0°-60° | 5510.4 | 59.5 |
| 0°-90° | 7605.2 | 82.1 |
| 90°-120° | 877.6 | 9.5 |
| 90°-150° | 1483.4 | 16.0 |
| 90°-180° | 1660.0 | 17.9 |
| 0°-180° | 9265.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2451 | 2451 | 2451 | 2451 | 2451 | |
| 5° | 2433 | 2462 | 2426 | 2433 | 2448 | 231 |
| 15° | 2323 | 2359 | 2332 | 2348 | 2357 | 655 |
| 25° | 2120 | 2160 | 2149 | 2169 | 2173 | 976 |
| 35° | 1844 | 1887 | 1894 | 1940 | 1958 | 1154 |
| 45° | 1524 | 1567 | 1612 | 1694 | 1723 | 1175 |
| 55° | 1170 | 1218 | 1314 | 1421 | 1452 | 1046 |
| 65° | 797 | 862 | 998 | 1124 | 1155 | 788 |
| 75° | 418 | 512 | 683 | 815 | 857 | 445 |
| 85° | 105 | 230 | 401 | 535 | 580 | 115 |
| 90° | 0 | 132 | 298 | 428 | 472 | 7 |
| 95° | 11 | 139 | 298 | 423 | 468 | 13 |
| 105° | 42 | 154 | 300 | 418 | 459 | 45 |
| 115° | 83 | 168 | 298 | 401 | 441 | 83 |
| 125° | 125 | 179 | 289 | 376 | 405 | 112 |
| 135° | 154 | 188 | 273 | 342 | 367 | 119 |
| 145° | 163 | 184 | 246 | 304 | 322 | 103 |
| 155° | 166 | 186 | 208 | 257 | 273 | 77 |
| 165° | 190 | 201 | 195 | 197 | 228 | 54 |
| 175° | 210 | 208 | 197 | 168 | 101 | 20 |
| 180° | 184 | 184 | 184 | 184 | 184 | |



TEST NUMBER: P894391
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 |
| 2.5° | 2441.8 | 2448.5 | 2450.7 | 2473.1 | 2464.2 | 2473.1 | 2457.5 | 2439.6 | 2435.1 | 2446.3 | 2432.8 |
| 5° | 2432.8 | 2439.6 | 2441.8 | 2464.2 | 2455.2 | 2461.9 | 2448.5 | 2430.6 | 2426.1 | 2439.6 | 2426.1 |
| 7.5° | 2414.9 | 2421.7 | 2423.9 | 2448.5 | 2437.3 | 2446.3 | 2430.6 | 2412.7 | 2410.5 | 2423.9 | 2410.5 |
| 10° | 2392.6 | 2399.3 | 2401.5 | 2423.9 | 2414.9 | 2423.9 | 2408.2 | 2390.3 | 2388.1 | 2403.7 | 2390.3 |
| 12.5° | 2361.2 | 2367.9 | 2372.4 | 2394.8 | 2383.6 | 2394.8 | 2376.9 | 2359.0 | 2361.2 | 2374.7 | 2365.7 |
| 15° | 2323.2 | 2332.1 | 2334.4 | 2356.7 | 2347.8 | 2359.0 | 2341.1 | 2323.2 | 2327.7 | 2341.1 | 2332.1 |
| 17.5° | 2282.9 | 2291.8 | 2294.1 | 2314.2 | 2305.3 | 2318.7 | 2298.6 | 2282.9 | 2287.4 | 2300.8 | 2294.1 |
| 20° | 2233.7 | 2242.6 | 2247.1 | 2267.2 | 2258.3 | 2271.7 | 2251.6 | 2238.1 | 2242.6 | 2258.3 | 2251.6 |
| 22.5° | 2177.7 | 2191.1 | 2193.4 | 2215.7 | 2204.6 | 2218.0 | 2197.8 | 2186.7 | 2193.4 | 2209.0 | 2202.3 |
| 25° | 2119.5 | 2132.9 | 2135.2 | 2157.6 | 2148.6 | 2159.8 | 2139.6 | 2128.5 | 2137.4 | 2153.1 | 2148.6 |
| 27.5° | 2056.8 | 2070.3 | 2074.7 | 2094.9 | 2085.9 | 2099.4 | 2077.0 | 2070.3 | 2079.2 | 2094.9 | 2090.4 |
| 30° | 1989.7 | 2003.1 | 2005.4 | 2025.5 | 2018.8 | 2032.2 | 2012.1 | 2003.1 | 2016.6 | 2032.2 | 2027.7 |
| 32.5° | 1918.1 | 1931.5 | 1938.2 | 1956.1 | 1949.4 | 1960.6 | 1942.7 | 1938.2 | 1949.4 | 1965.1 | 1962.8 |
| 35° | 1844.2 | 1857.6 | 1864.4 | 1884.5 | 1875.6 | 1886.7 | 1868.8 | 1864.4 | 1882.3 | 1893.5 | 1893.5 |
| 37.5° | 1768.1 | 1781.5 | 1788.3 | 1808.4 | 1797.2 | 1810.6 | 1792.7 | 1790.5 | 1810.6 | 1821.8 | 1821.8 |
| 40° | 1687.5 | 1703.2 | 1709.9 | 1727.8 | 1718.9 | 1730.1 | 1714.4 | 1716.6 | 1734.5 | 1748.0 | 1750.2 |
| 42.5° | 1607.0 | 1622.6 | 1629.4 | 1649.5 | 1638.3 | 1649.5 | 1636.1 | 1638.3 | 1658.5 | 1671.9 | 1683.1 |
| 45° | 1524.2 | 1537.6 | 1544.3 | 1566.7 | 1553.3 | 1566.7 | 1553.3 | 1557.7 | 1577.9 | 1598.0 | 1611.5 |
| 47.5° | 1436.9 | 1450.3 | 1461.5 | 1479.4 | 1468.2 | 1479.4 | 1470.4 | 1477.2 | 1501.8 | 1521.9 | 1539.8 |
| 50° | 1349.6 | 1363.0 | 1374.2 | 1389.9 | 1378.7 | 1394.4 | 1383.2 | 1392.1 | 1423.4 | 1443.6 | 1463.7 |
| 52.5° | 1260.1 | 1271.3 | 1289.2 | 1298.1 | 1289.2 | 1307.1 | 1298.1 | 1311.5 | 1342.9 | 1367.5 | 1389.9 |
| 55° | 1170.5 | 1181.7 | 1199.6 | 1206.4 | 1197.4 | 1217.5 | 1210.8 | 1228.7 | 1262.3 | 1289.2 | 1313.8 |
| 57.5° | 1078.8 | 1090.0 | 1105.6 | 1112.3 | 1105.6 | 1128.0 | 1125.8 | 1145.9 | 1179.5 | 1208.6 | 1235.4 |
| 60° | 984.8 | 996.0 | 1009.4 | 1016.1 | 1016.1 | 1038.5 | 1038.5 | 1063.1 | 1098.9 | 1125.8 | 1157.1 |
| 62.5° | 893.0 | 899.7 | 913.2 | 922.1 | 928.8 | 951.2 | 951.2 | 978.1 | 1016.1 | 1047.4 | 1078.8 |
| 65° | 796.8 | 803.5 | 814.7 | 825.9 | 837.1 | 861.7 | 863.9 | 893.0 | 931.1 | 962.4 | 998.2 |
| 67.5° | 700.5 | 707.2 | 718.4 | 731.9 | 747.5 | 772.2 | 776.6 | 808.0 | 848.3 | 884.1 | 917.6 |
| 70° | 606.5 | 608.8 | 622.2 | 640.1 | 658.0 | 682.6 | 689.3 | 722.9 | 765.4 | 801.2 | 837.1 |
| 72.5° | 512.5 | 514.8 | 528.2 | 550.6 | 570.7 | 597.6 | 606.5 | 642.3 | 684.9 | 720.7 | 756.5 |
| 75° | 418.5 | 420.8 | 438.7 | 465.5 | 487.9 | 512.5 | 523.7 | 561.8 | 604.3 | 642.3 | 682.6 |
| 77.5° | 329.0 | 333.5 | 351.4 | 378.2 | 405.1 | 434.2 | 445.4 | 483.4 | 530.4 | 566.2 | 604.3 |
| 80° | 246.2 | 250.7 | 270.8 | 299.9 | 329.0 | 355.9 | 369.3 | 407.3 | 456.6 | 492.4 | 534.9 |
| 82.5° | 170.1 | 176.8 | 201.4 | 232.8 | 261.9 | 291.0 | 304.4 | 340.2 | 385.0 | 425.2 | 465.5 |
| 85° | 105.2 | 114.1 | 138.8 | 172.3 | 203.7 | 230.5 | 244.0 | 282.0 | 324.5 | 362.6 | 400.6 |
| 87.5° | 49.2 | 62.7 | 87.3 | 120.9 | 154.4 | 176.8 | 192.5 | 230.5 | 270.8 | 308.9 | 346.9 |
| 90° | 0.0 | 20.1 | 44.8 | 78.3 | 111.9 | 132.0 | 150.0 | 185.8 | 226.1 | 261.9 | 297.7 |
| 92.5° | 4.5 | 22.4 | 49.2 | 80.6 | 114.1 | 134.3 | 152.2 | 188.0 | 226.1 | 261.9 | 297.7 |
| 95° | 11.2 | 24.6 | 51.5 | 85.0 | 118.6 | 138.8 | 154.4 | 190.2 | 228.3 | 264.1 | 297.7 |
| 97.5° | 20.1 | 31.3 | 58.2 | 89.5 | 123.1 | 141.0 | 158.9 | 194.7 | 230.5 | 266.3 | 299.9 |
| 100° | 26.9 | 35.8 | 62.7 | 94.0 | 127.6 | 145.5 | 163.4 | 197.0 | 232.8 | 268.6 | 299.9 |
| 102.5° | 33.6 | 44.8 | 69.4 | 98.5 | 132.0 | 150.0 | 165.6 | 199.2 | 235.0 | 268.6 | 299.9 |
| 105° | 42.5 | 51.5 | 73.9 | 105.2 | 136.5 | 154.4 | 170.1 | 203.7 | 237.2 | 270.8 | 299.9 |
| 107.5° | 51.5 | 58.2 | 80.6 | 109.7 | 141.0 | 156.7 | 172.3 | 205.9 | 239.5 | 270.8 | 299.9 |
| 110° | 62.7 | 67.1 | 87.3 | 114.1 | 143.2 | 161.1 | 176.8 | 208.1 | 239.5 | 270.8 | 299.9 |



TEST NUMBER: P894391
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 73.9 | 73.9 | 94.0 | 118.6 | 147.7 | 163.4 | 179.1 | 210.4 | 241.7 | 270.8 | 299.9 |
| 115° | 82.8 | 85.0 | 100.7 | 123.1 | 152.2 | 167.9 | 181.3 | 210.4 | 241.7 | 270.8 | 297.7 |
| 117.5° | 94.0 | 94.0 | 109.7 | 127.6 | 154.4 | 170.1 | 185.8 | 212.6 | 241.7 | 268.6 | 295.4 |
| 120° | 105.2 | 103.0 | 116.4 | 134.3 | 158.9 | 172.3 | 188.0 | 214.9 | 241.7 | 268.6 | 293.2 |
| 122.5° | 116.4 | 111.9 | 120.9 | 138.8 | 161.1 | 176.8 | 188.0 | 214.9 | 241.7 | 266.3 | 291.0 |
| 125° | 125.3 | 120.9 | 127.6 | 145.5 | 165.6 | 179.1 | 190.2 | 214.9 | 241.7 | 264.1 | 288.7 |
| 127.5° | 134.3 | 129.8 | 136.5 | 150.0 | 167.9 | 179.1 | 192.5 | 214.9 | 241.7 | 261.9 | 284.2 |
| 130° | 143.2 | 136.5 | 145.5 | 154.4 | 172.3 | 181.3 | 192.5 | 214.9 | 239.5 | 259.6 | 279.8 |
| 132.5° | 150.0 | 143.2 | 152.2 | 158.9 | 174.6 | 183.5 | 194.7 | 214.9 | 237.2 | 257.4 | 277.5 |
| 135° | 154.4 | 147.7 | 158.9 | 163.4 | 179.1 | 188.0 | 197.0 | 214.9 | 235.0 | 255.1 | 273.1 |
| 137.5° | 158.9 | 150.0 | 163.4 | 167.9 | 181.3 | 190.2 | 197.0 | 212.6 | 232.8 | 250.7 | 268.6 |
| 140° | 161.1 | 154.4 | 167.9 | 172.3 | 179.1 | 188.0 | 197.0 | 210.4 | 228.3 | 246.2 | 261.9 |
| 142.5° | 163.4 | 154.4 | 170.1 | 174.6 | 179.1 | 185.8 | 194.7 | 205.9 | 223.8 | 239.5 | 255.1 |
| 145° | 163.4 | 156.7 | 170.1 | 174.6 | 179.1 | 183.5 | 190.2 | 203.7 | 217.1 | 230.5 | 246.2 |
| 147.5° | 163.4 | 158.9 | 172.3 | 176.8 | 181.3 | 181.3 | 185.8 | 199.2 | 210.4 | 223.8 | 237.2 |
| 150° | 165.6 | 158.9 | 172.3 | 176.8 | 183.5 | 183.5 | 185.8 | 192.5 | 205.9 | 214.9 | 226.1 |
| 152.5° | 163.4 | 161.1 | 170.1 | 179.1 | 183.5 | 185.8 | 185.8 | 188.0 | 199.2 | 208.1 | 217.1 |
| 155° | 165.6 | 165.6 | 172.3 | 183.5 | 185.8 | 185.8 | 188.0 | 185.8 | 190.2 | 199.2 | 208.1 |
| 157.5° | 170.1 | 174.6 | 174.6 | 185.8 | 190.2 | 190.2 | 192.5 | 190.2 | 188.0 | 190.2 | 199.2 |
| 160° | 176.8 | 181.3 | 181.3 | 188.0 | 194.7 | 194.7 | 197.0 | 194.7 | 192.5 | 190.2 | 190.2 |
| 162.5° | 183.5 | 188.0 | 188.0 | 190.2 | 197.0 | 199.2 | 201.4 | 199.2 | 197.0 | 192.5 | 190.2 |
| 165° | 190.2 | 194.7 | 194.7 | 194.7 | 199.2 | 201.4 | 203.7 | 201.4 | 201.4 | 197.0 | 194.7 |
| 167.5° | 197.0 | 201.4 | 201.4 | 199.2 | 201.4 | 203.7 | 205.9 | 203.7 | 203.7 | 201.4 | 197.0 |
| 170° | 203.7 | 208.1 | 208.1 | 203.7 | 205.9 | 205.9 | 208.1 | 205.9 | 205.9 | 201.4 | 199.2 |
| 172.5° | 208.1 | 212.6 | 210.4 | 208.1 | 208.1 | 208.1 | 208.1 | 205.9 | 203.7 | 199.2 | 199.2 |
| 175° | 210.4 | 214.9 | 214.9 | 210.4 | 208.1 | 208.1 | 210.4 | 205.9 | 203.7 | 201.4 | 197.0 |
| 177.5° | 210.4 | 214.9 | 214.9 | 210.4 | 210.4 | 208.1 | 210.4 | 208.1 | 208.1 | 203.7 | 199.2 |
| 180° | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 |



TEST NUMBER: P894391
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 | 2450.7 |
| 2.5° | 2441.8 | 2439.6 | 2426.1 | 2441.8 | 2441.8 | 2437.3 | 2455.2 | 2453.0 | 2450.7 | 2446.3 |
| 5° | 2432.8 | 2430.6 | 2417.2 | 2432.8 | 2432.8 | 2430.6 | 2448.5 | 2450.7 | 2453.0 | 2448.5 |
| 7.5° | 2419.4 | 2417.2 | 2403.7 | 2419.4 | 2419.4 | 2417.2 | 2437.3 | 2439.6 | 2441.8 | 2435.1 |
| 10° | 2399.3 | 2397.0 | 2383.6 | 2399.3 | 2401.5 | 2399.3 | 2414.9 | 2417.2 | 2421.7 | 2412.7 |
| 12.5° | 2372.4 | 2372.4 | 2359.0 | 2374.7 | 2376.9 | 2374.7 | 2390.3 | 2394.8 | 2399.3 | 2388.1 |
| 15° | 2338.8 | 2341.1 | 2329.9 | 2345.6 | 2347.8 | 2347.8 | 2363.5 | 2365.7 | 2372.4 | 2356.7 |
| 17.5° | 2298.6 | 2303.0 | 2294.1 | 2309.7 | 2312.0 | 2314.2 | 2323.2 | 2329.9 | 2336.6 | 2318.7 |
| 20° | 2256.0 | 2258.3 | 2251.6 | 2265.0 | 2269.5 | 2267.2 | 2278.4 | 2287.4 | 2294.1 | 2276.2 |
| 22.5° | 2204.6 | 2206.8 | 2200.1 | 2213.5 | 2218.0 | 2220.2 | 2229.2 | 2240.4 | 2244.8 | 2229.2 |
| 25° | 2146.4 | 2155.3 | 2150.8 | 2164.3 | 2168.7 | 2168.7 | 2177.7 | 2188.9 | 2195.6 | 2173.2 |
| 27.5° | 2090.4 | 2101.6 | 2097.1 | 2110.6 | 2115.0 | 2117.3 | 2121.7 | 2135.2 | 2141.9 | 2121.7 |
| 30° | 2027.7 | 2041.2 | 2038.9 | 2052.4 | 2056.8 | 2054.6 | 2063.6 | 2077.0 | 2085.9 | 2063.6 |
| 32.5° | 1958.4 | 1976.3 | 1974.0 | 1991.9 | 1996.4 | 1998.6 | 2005.4 | 2023.3 | 2032.2 | 2012.1 |
| 35° | 1891.2 | 1911.4 | 1913.6 | 1933.7 | 1940.5 | 1942.7 | 1951.6 | 1969.6 | 1978.5 | 1958.4 |
| 37.5° | 1821.8 | 1848.7 | 1855.4 | 1875.6 | 1882.3 | 1884.5 | 1893.5 | 1913.6 | 1922.6 | 1902.4 |
| 40° | 1754.7 | 1786.0 | 1795.0 | 1812.9 | 1819.6 | 1826.3 | 1833.0 | 1853.2 | 1864.4 | 1844.2 |
| 42.5° | 1687.5 | 1721.1 | 1732.3 | 1750.2 | 1756.9 | 1763.6 | 1772.6 | 1795.0 | 1803.9 | 1786.0 |
| 45° | 1618.2 | 1654.0 | 1667.4 | 1685.3 | 1694.3 | 1701.0 | 1709.9 | 1730.1 | 1741.3 | 1723.4 |
| 47.5° | 1548.8 | 1584.6 | 1598.0 | 1618.2 | 1627.1 | 1636.1 | 1642.8 | 1667.4 | 1678.6 | 1660.7 |
| 50° | 1474.9 | 1515.2 | 1530.9 | 1548.8 | 1562.2 | 1568.9 | 1577.9 | 1600.3 | 1611.5 | 1595.8 |
| 52.5° | 1401.1 | 1443.6 | 1461.5 | 1479.4 | 1492.8 | 1504.0 | 1508.5 | 1533.1 | 1544.3 | 1528.6 |
| 55° | 1325.0 | 1367.5 | 1387.6 | 1407.8 | 1421.2 | 1434.6 | 1439.1 | 1463.7 | 1474.9 | 1452.5 |
| 57.5° | 1248.9 | 1293.6 | 1313.8 | 1336.2 | 1347.4 | 1363.0 | 1369.7 | 1392.1 | 1403.3 | 1387.6 |
| 60° | 1172.8 | 1215.3 | 1239.9 | 1260.1 | 1275.7 | 1289.2 | 1293.6 | 1318.3 | 1329.4 | 1309.3 |
| 62.5° | 1094.4 | 1139.2 | 1163.8 | 1186.2 | 1199.6 | 1215.3 | 1222.0 | 1244.4 | 1253.4 | 1233.2 |
| 65° | 1013.9 | 1058.6 | 1085.5 | 1105.6 | 1123.5 | 1137.0 | 1141.4 | 1166.1 | 1175.0 | 1154.9 |
| 67.5° | 933.3 | 978.1 | 1007.2 | 1029.5 | 1045.2 | 1060.9 | 1065.3 | 1090.0 | 1098.9 | 1083.3 |
| 70° | 855.0 | 899.7 | 928.8 | 955.7 | 966.9 | 982.5 | 989.3 | 1011.6 | 1020.6 | 1007.2 |
| 72.5° | 776.6 | 821.4 | 852.7 | 879.6 | 890.8 | 906.4 | 915.4 | 933.3 | 946.7 | 935.5 |
| 75° | 700.5 | 745.3 | 776.6 | 803.5 | 814.7 | 830.3 | 839.3 | 857.2 | 866.2 | 857.2 |
| 77.5° | 626.7 | 671.4 | 700.5 | 727.4 | 740.8 | 754.2 | 763.2 | 781.1 | 792.3 | 783.3 |
| 80° | 555.1 | 599.8 | 628.9 | 653.5 | 667.0 | 680.4 | 689.3 | 709.5 | 718.4 | 711.7 |
| 82.5° | 487.9 | 530.4 | 561.8 | 586.4 | 599.8 | 613.2 | 622.2 | 640.1 | 651.3 | 642.3 |
| 85° | 427.5 | 470.0 | 499.1 | 523.7 | 534.9 | 548.3 | 557.3 | 575.2 | 584.2 | 579.7 |
| 87.5° | 369.3 | 407.3 | 440.9 | 465.5 | 476.7 | 490.1 | 501.3 | 514.8 | 526.0 | 519.2 |
| 90° | 324.5 | 358.1 | 389.4 | 414.1 | 427.5 | 440.9 | 454.3 | 467.8 | 476.7 | 472.2 |
| 92.5° | 326.8 | 358.1 | 387.2 | 409.6 | 423.0 | 436.4 | 449.9 | 465.5 | 472.2 | 467.8 |
| 95° | 326.8 | 358.1 | 387.2 | 409.6 | 423.0 | 436.4 | 449.9 | 465.5 | 472.2 | 467.8 |
| 97.5° | 326.8 | 358.1 | 387.2 | 409.6 | 423.0 | 436.4 | 449.9 | 465.5 | 472.2 | 465.5 |
| 100° | 326.8 | 358.1 | 387.2 | 409.6 | 423.0 | 434.2 | 447.6 | 463.3 | 470.0 | 465.5 |
| 102.5° | 326.8 | 358.1 | 385.0 | 407.3 | 420.8 | 432.0 | 445.4 | 461.1 | 467.8 | 463.3 |
| 105° | 326.8 | 355.9 | 385.0 | 405.1 | 418.5 | 429.7 | 443.1 | 456.6 | 463.3 | 458.8 |
| 107.5° | 324.5 | 353.6 | 380.5 | 402.9 | 414.1 | 425.2 | 438.7 | 452.1 | 458.8 | 454.3 |
| 110° | 324.5 | 351.4 | 378.2 | 398.4 | 409.6 | 420.8 | 434.2 | 447.6 | 454.3 | 449.9 |



TEST NUMBER: P894391
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 322.3 | 349.1 | 376.0 | 393.9 | 405.1 | 416.3 | 427.5 | 443.1 | 449.9 | 445.4 |
| 115° | 320.1 | 346.9 | 371.5 | 389.4 | 400.6 | 409.6 | 423.0 | 438.7 | 443.1 | 440.9 |
| 117.5° | 317.8 | 342.4 | 367.1 | 385.0 | 396.1 | 405.1 | 416.3 | 429.7 | 436.4 | 434.2 |
| 120° | 315.6 | 338.0 | 362.6 | 378.2 | 389.4 | 398.4 | 407.3 | 420.8 | 427.5 | 423.0 |
| 122.5° | 311.1 | 333.5 | 358.1 | 373.8 | 382.7 | 391.7 | 400.6 | 411.8 | 418.5 | 416.3 |
| 125° | 306.6 | 329.0 | 351.4 | 367.1 | 376.0 | 382.7 | 391.7 | 402.9 | 407.3 | 405.1 |
| 127.5° | 302.1 | 324.5 | 344.7 | 358.1 | 369.3 | 376.0 | 382.7 | 393.9 | 398.4 | 396.1 |
| 130° | 297.7 | 317.8 | 338.0 | 351.4 | 360.3 | 367.1 | 373.8 | 385.0 | 387.2 | 387.2 |
| 132.5° | 293.2 | 311.1 | 331.2 | 344.7 | 353.6 | 358.1 | 364.8 | 373.8 | 378.2 | 376.0 |
| 135° | 288.7 | 304.4 | 324.5 | 335.7 | 342.4 | 349.1 | 355.9 | 364.8 | 367.1 | 367.1 |
| 137.5° | 282.0 | 297.7 | 315.6 | 326.8 | 333.5 | 338.0 | 344.7 | 353.6 | 355.9 | 355.9 |
| 140° | 275.3 | 291.0 | 306.6 | 315.6 | 324.5 | 329.0 | 333.5 | 342.4 | 344.7 | 344.7 |
| 142.5° | 268.6 | 282.0 | 297.7 | 306.6 | 315.6 | 317.8 | 324.5 | 331.2 | 333.5 | 333.5 |
| 145° | 259.6 | 275.3 | 288.7 | 297.7 | 304.4 | 306.6 | 313.3 | 320.1 | 320.1 | 322.3 |
| 147.5° | 248.4 | 261.9 | 279.8 | 286.5 | 293.2 | 295.4 | 302.1 | 306.6 | 308.9 | 308.9 |
| 150° | 237.2 | 250.7 | 266.3 | 277.5 | 284.2 | 286.5 | 288.7 | 295.4 | 295.4 | 297.7 |
| 152.5° | 226.1 | 237.2 | 252.9 | 264.1 | 273.1 | 275.3 | 277.5 | 282.0 | 282.0 | 284.2 |
| 155° | 214.9 | 223.8 | 237.2 | 248.4 | 257.4 | 261.9 | 266.3 | 270.8 | 270.8 | 273.1 |
| 157.5° | 205.9 | 214.9 | 226.1 | 235.0 | 241.7 | 248.4 | 255.1 | 259.6 | 259.6 | 259.6 |
| 160° | 194.7 | 201.4 | 212.6 | 219.3 | 228.3 | 232.8 | 244.0 | 248.4 | 248.4 | 250.7 |
| 162.5° | 188.0 | 190.2 | 197.0 | 203.7 | 210.4 | 214.9 | 226.1 | 237.2 | 237.2 | 239.5 |
| 165° | 190.2 | 188.0 | 190.2 | 192.5 | 197.0 | 199.2 | 205.9 | 221.6 | 226.1 | 228.3 |
| 167.5° | 194.7 | 188.0 | 188.0 | 188.0 | 192.5 | 192.5 | 199.2 | 208.1 | 223.8 | 219.3 |
| 170° | 194.7 | 188.0 | 183.5 | 183.5 | 185.8 | 183.5 | 188.0 | 194.7 | 203.7 | 212.6 |
| 172.5° | 197.0 | 190.2 | 183.5 | 174.6 | 176.8 | 174.6 | 170.1 | 170.1 | 172.3 | 201.4 |
| 175° | 194.7 | 190.2 | 181.3 | 170.1 | 167.9 | 161.1 | 147.7 | 136.5 | 129.8 | 100.7 |
| 177.5° | 192.5 | 185.8 | 179.1 | 170.1 | 165.6 | 158.9 | 143.2 | 125.3 | 107.4 | 103.0 |
| 180° | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 | 183.5 |



TEST NUMBER: P894391
 CATALOG NUMBER: 8TMB-10SL-FLTU-UNV-L840

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 | 15.22 | 16.54 | 15.84 | 17.17 | 17.90 | 17.85 | 19.17 | 18.47 | 19.80 | 20.53 |
| | 3H | 16.63 | 17.83 | 17.25 | 18.47 | 19.22 | 20.31 | 21.51 | 20.94 | 22.16 | 22.91 |
| | 4H | 17.05 | 18.19 | 17.70 | 18.85 | 19.61 | 21.48 | 22.62 | 22.13 | 23.27 | 24.04 |
| | 6H | 17.29 | 18.35 | 17.95 | 19.01 | 19.80 | 22.66 | 23.72 | 23.32 | 24.38 | 25.17 |
| | 8H | 17.33 | 18.34 | 18.00 | 19.03 | 19.82 | 23.25 | 24.26 | 23.92 | 24.95 | 25.74 |
| | 12H | 17.34 | 18.31 | 18.02 | 18.99 | 19.81 | 23.89 | 24.86 | 24.57 | 25.54 | 26.35 |
| 4H | 2H | 16.12 | 17.26 | 16.77 | 17.92 | 18.69 | 18.20 | 19.33 | 18.85 | 19.99 | 20.76 |
| | 3H | 17.75 | 18.71 | 18.41 | 19.41 | 20.19 | 20.86 | 21.82 | 21.52 | 22.52 | 23.31 |
| | 4H | 18.30 | 19.19 | 18.98 | 19.88 | 20.70 | 22.17 | 23.06 | 22.85 | 23.76 | 24.57 |
| | 6H | 18.64 | 19.42 | 19.34 | 20.14 | 20.97 | 23.53 | 24.30 | 24.22 | 25.03 | 25.85 |
| | 8H | 18.71 | 19.45 | 19.42 | 20.17 | 21.01 | 24.22 | 24.95 | 24.92 | 25.67 | 26.51 |
| | 12H | 18.74 | 19.41 | 19.47 | 20.15 | 21.00 | 24.97 | 25.63 | 25.69 | 26.37 | 27.22 |
| 8H | 4H | 18.96 | 19.70 | 19.67 | 20.41 | 21.26 | 22.32 | 23.05 | 23.03 | 23.77 | 24.61 |
| | 6H | 19.47 | 20.09 | 20.20 | 20.85 | 21.69 | 23.82 | 24.43 | 24.55 | 25.19 | 26.04 |
| | 8H | 19.62 | 20.18 | 20.37 | 20.94 | 21.80 | 24.63 | 25.18 | 25.37 | 25.94 | 26.80 |
| | 12H | 19.71 | 20.21 | 20.46 | 20.96 | 21.88 | 25.54 | 26.03 | 26.29 | 26.78 | 27.70 |
| 12H | 4H | 19.13 | 19.80 | 19.86 | 20.54 | 21.39 | 22.31 | 22.98 | 23.04 | 23.72 | 24.57 |
| | 6H | 19.73 | 20.29 | 20.48 | 21.05 | 21.91 | 23.83 | 24.39 | 24.58 | 25.15 | 26.01 |
| | 8H | 19.97 | 20.46 | 20.72 | 21.21 | 22.13 | 24.69 | 25.19 | 25.44 | 25.94 | 26.86 |