

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



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P585151

Luminaire Tested: **HCC8S60D010MW-HM86080930-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S60D010MW-HM86080930-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

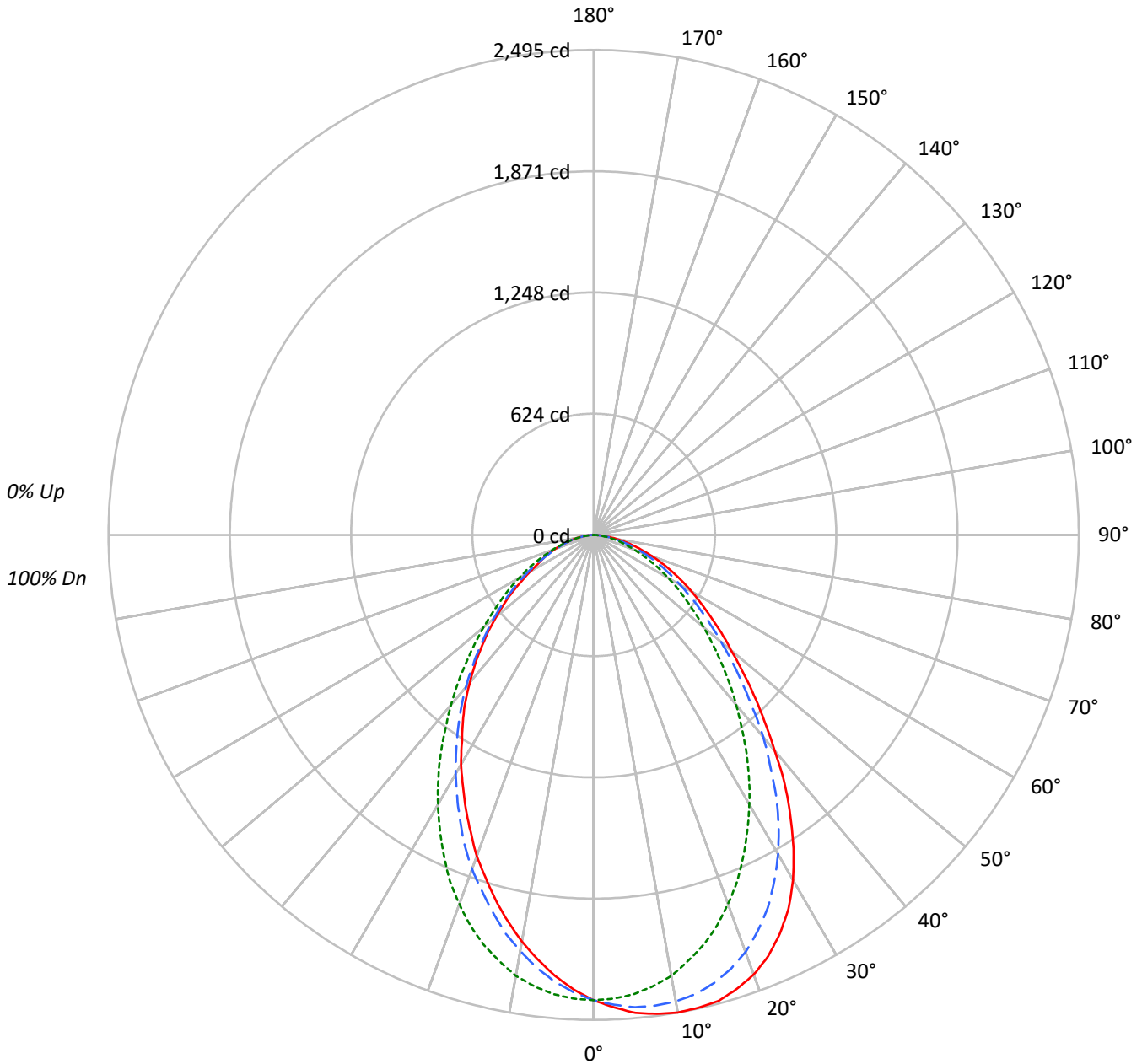
Lumens per Lamp: N/A
Luminaire Lumens: 4418.2 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585151
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Luminous Intensity Polar Plot





TEST NUMBER: P585151

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 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 | 100 | | | | | | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 59 | 54 | 63 | 57 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 41 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 73822 | 73822 | 73822 |
| 5° | 76416 | 73401 | 70482 |
| 10° | 78114 | 72112 | 66519 |
| 15° | 79226 | 69684 | 62118 |
| 20° | 78986 | 66300 | 57666 |
| 25° | 77034 | 62002 | 52938 |
| 30° | 72983 | 57021 | 48575 |
| 35° | 66397 | 51603 | 44145 |
| 40° | 58320 | 45894 | 39884 |
| 45° | 50853 | 40369 | 35555 |
| 50° | 44255 | 35375 | 31321 |
| 55° | 39466 | 31085 | 27241 |
| 60° | 35856 | 27247 | 23238 |
| 65° | 32236 | 23699 | 21087 |
| 70° | 28698 | 20205 | 19042 |
| 75° | 25163 | 17025 | 16251 |
| 80° | 21345 | 13851 | 14419 |
| 85° | 16063 | 10331 | 11499 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 224.2 | 5.1 |
| 10°-20° | 617.8 | 14.0 |
| 20°-30° | 857.6 | 19.4 |
| 30°-40° | 886.7 | 20.1 |
| 40°-50° | 742.4 | 16.8 |
| 50°-60° | 539.0 | 12.2 |
| 60°-70° | 340.1 | 7.7 |
| 70°-80° | 168.5 | 3.8 |
| 80°-90° | 41.9 | 0.9 |
| 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° | 1699.7 | 38.5 |
| 0°-40° | 2586.4 | 58.5 |
| 0°-60° | 3867.7 | 87.5 |
| 0°-90° | 4418.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4418.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2394 | 2394 | 2394 | 2394 | 2394 | |
| 5° | 2469 | 2439 | 2371 | 2306 | 2277 | 236 |
| 15° | 2482 | 2388 | 2183 | 2008 | 1946 | 698 |
| 25° | 2264 | 2118 | 1822 | 1624 | 1556 | 1038 |
| 35° | 1764 | 1634 | 1371 | 1215 | 1173 | 1098 |
| 45° | 1166 | 1082 | 926 | 835 | 815 | 902 |
| 55° | 734 | 669 | 578 | 530 | 507 | 663 |
| 65° | 442 | 386 | 325 | 286 | 289 | 440 |
| 75° | 211 | 175 | 143 | 136 | 136 | 226 |
| 85° | 45 | 36 | 29 | 32 | 32 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 |
| 2.5° | 2433.0 | 2433.0 | 2436.2 | 2433.0 | 2433.0 | 2433.0 | 2429.8 | 2429.8 | 2426.5 | 2426.5 | 2419.9 |
| 5° | 2468.7 | 2462.2 | 2468.7 | 2462.2 | 2462.2 | 2462.2 | 2458.9 | 2452.5 | 2449.2 | 2442.7 | 2439.4 |
| 7.5° | 2485.0 | 2481.7 | 2481.7 | 2478.4 | 2478.4 | 2475.2 | 2472.0 | 2468.7 | 2455.7 | 2452.5 | 2442.7 |
| 10° | 2494.7 | 2491.5 | 2491.5 | 2488.2 | 2481.7 | 2481.7 | 2475.2 | 2472.0 | 2455.7 | 2449.2 | 2436.2 |
| 12.5° | 2491.5 | 2491.5 | 2491.5 | 2488.2 | 2478.4 | 2475.2 | 2468.7 | 2458.9 | 2446.0 | 2433.0 | 2419.9 |
| 15° | 2481.7 | 2481.7 | 2475.2 | 2472.0 | 2462.2 | 2455.7 | 2452.5 | 2436.2 | 2423.2 | 2407.0 | 2387.5 |
| 17.5° | 2449.2 | 2449.2 | 2446.0 | 2439.4 | 2429.8 | 2423.2 | 2416.7 | 2400.5 | 2387.5 | 2361.5 | 2342.0 |
| 20° | 2407.0 | 2403.8 | 2400.5 | 2390.8 | 2381.0 | 2377.7 | 2368.0 | 2345.3 | 2329.1 | 2309.6 | 2283.5 |
| 22.5° | 2345.3 | 2342.0 | 2338.7 | 2332.3 | 2316.0 | 2309.6 | 2303.0 | 2286.8 | 2257.5 | 2238.1 | 2205.6 |
| 25° | 2264.1 | 2264.1 | 2257.5 | 2247.9 | 2231.6 | 2225.1 | 2215.3 | 2199.1 | 2173.1 | 2143.8 | 2117.9 |
| 27.5° | 2169.9 | 2166.7 | 2156.9 | 2150.4 | 2137.4 | 2127.7 | 2111.4 | 2091.9 | 2066.0 | 2043.1 | 2010.7 |
| 30° | 2049.7 | 2049.7 | 2043.1 | 2033.4 | 2017.2 | 2010.7 | 1997.7 | 1975.0 | 1949.0 | 1919.7 | 1897.0 |
| 32.5° | 1913.3 | 1913.3 | 1903.5 | 1897.0 | 1887.3 | 1871.0 | 1867.8 | 1841.7 | 1819.0 | 1796.3 | 1770.4 |
| 35° | 1763.8 | 1767.1 | 1760.5 | 1747.6 | 1731.4 | 1731.4 | 1724.8 | 1702.1 | 1676.1 | 1653.4 | 1633.9 |
| 37.5° | 1614.4 | 1604.6 | 1601.4 | 1594.9 | 1585.1 | 1572.2 | 1565.7 | 1555.9 | 1533.2 | 1517.0 | 1487.8 |
| 40° | 1448.8 | 1452.0 | 1445.4 | 1439.0 | 1435.8 | 1425.9 | 1422.7 | 1406.6 | 1390.3 | 1370.8 | 1357.8 |
| 42.5° | 1299.3 | 1299.3 | 1299.3 | 1292.8 | 1286.3 | 1276.6 | 1273.4 | 1263.5 | 1244.1 | 1231.1 | 1211.6 |
| 45° | 1166.1 | 1156.4 | 1156.4 | 1153.2 | 1149.9 | 1143.4 | 1133.7 | 1127.2 | 1114.2 | 1104.4 | 1081.7 |
| 47.5° | 1036.2 | 1039.4 | 1036.2 | 1033.0 | 1023.2 | 1020.0 | 1016.7 | 1003.7 | 990.8 | 981.0 | 964.7 |
| 50° | 922.5 | 929.1 | 922.5 | 922.5 | 916.0 | 912.8 | 906.2 | 896.5 | 886.7 | 870.6 | 854.3 |
| 52.5° | 828.4 | 828.4 | 825.0 | 821.8 | 812.1 | 805.5 | 802.3 | 799.1 | 782.8 | 769.9 | 756.9 |
| 55° | 734.1 | 737.4 | 737.4 | 727.6 | 724.3 | 717.9 | 714.6 | 704.8 | 698.4 | 678.9 | 669.2 |
| 57.5° | 652.9 | 649.7 | 652.9 | 646.4 | 639.9 | 633.4 | 630.2 | 623.6 | 614.0 | 600.9 | 587.9 |
| 60° | 581.4 | 575.0 | 575.0 | 571.7 | 565.2 | 561.9 | 555.5 | 545.7 | 536.0 | 523.0 | 513.3 |
| 62.5° | 510.0 | 506.7 | 503.5 | 500.2 | 493.8 | 490.5 | 487.2 | 477.5 | 467.7 | 458.0 | 448.2 |
| 65° | 441.8 | 441.8 | 438.5 | 432.1 | 428.7 | 425.5 | 422.3 | 415.8 | 402.8 | 396.3 | 386.5 |
| 67.5° | 380.0 | 376.8 | 376.8 | 370.4 | 363.8 | 360.6 | 360.6 | 354.1 | 344.3 | 334.6 | 328.0 |
| 70° | 318.3 | 321.6 | 318.3 | 315.1 | 308.5 | 308.5 | 302.1 | 298.8 | 285.8 | 282.6 | 272.9 |
| 72.5° | 263.1 | 263.1 | 259.9 | 259.9 | 253.4 | 250.2 | 250.2 | 243.6 | 237.1 | 230.7 | 224.1 |
| 75° | 211.2 | 211.2 | 211.2 | 207.8 | 204.6 | 198.2 | 198.2 | 194.9 | 188.4 | 181.9 | 175.4 |
| 77.5° | 165.6 | 162.4 | 162.4 | 159.2 | 155.9 | 152.7 | 152.7 | 149.4 | 142.9 | 139.7 | 133.2 |
| 80° | 120.2 | 117.0 | 117.0 | 117.0 | 110.5 | 113.7 | 110.5 | 107.2 | 103.9 | 100.7 | 97.5 |
| 82.5° | 78.0 | 81.2 | 81.2 | 78.0 | 74.7 | 74.7 | 74.7 | 71.5 | 71.5 | 68.2 | 64.9 |
| 85° | 45.4 | 45.4 | 45.4 | 45.4 | 42.2 | 42.2 | 42.2 | 39.0 | 39.0 | 39.0 | 35.8 |
| 87.5° | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 |
| 2.5° | 2419.9 | 2413.5 | 2410.3 | 2407.0 | 2407.0 | 2403.8 | 2400.5 | 2394.0 | 2394.0 | 2387.5 | 2384.3 |
| 5° | 2433.0 | 2423.2 | 2416.7 | 2410.3 | 2407.0 | 2400.5 | 2394.0 | 2384.3 | 2381.0 | 2371.3 | 2361.5 |
| 7.5° | 2436.2 | 2419.9 | 2413.5 | 2400.5 | 2394.0 | 2387.5 | 2374.5 | 2364.8 | 2351.8 | 2342.0 | 2329.1 |
| 10° | 2423.2 | 2410.3 | 2394.0 | 2377.7 | 2374.5 | 2364.8 | 2345.3 | 2332.3 | 2316.0 | 2303.0 | 2283.5 |
| 12.5° | 2403.8 | 2384.3 | 2368.0 | 2348.6 | 2338.7 | 2329.1 | 2309.6 | 2290.1 | 2267.4 | 2244.6 | 2225.1 |
| 15° | 2371.3 | 2348.6 | 2325.8 | 2303.0 | 2290.1 | 2280.3 | 2257.5 | 2234.8 | 2212.1 | 2182.8 | 2163.3 |
| 17.5° | 2322.5 | 2296.5 | 2273.8 | 2244.6 | 2231.6 | 2221.8 | 2192.6 | 2166.7 | 2137.4 | 2108.2 | 2088.7 |
| 20° | 2260.8 | 2228.4 | 2202.3 | 2169.9 | 2160.1 | 2143.8 | 2114.6 | 2085.5 | 2052.9 | 2020.4 | 1997.7 |
| 22.5° | 2179.6 | 2147.2 | 2117.9 | 2085.5 | 2069.2 | 2052.9 | 2023.6 | 1988.0 | 1955.5 | 1929.5 | 1906.8 |
| 25° | 2085.5 | 2056.2 | 2020.4 | 1991.2 | 1971.7 | 1952.2 | 1919.7 | 1890.5 | 1861.2 | 1822.3 | 1799.5 |
| 27.5° | 1981.4 | 1945.8 | 1919.7 | 1880.7 | 1861.2 | 1848.3 | 1812.6 | 1773.6 | 1747.6 | 1711.9 | 1685.9 |
| 30° | 1864.5 | 1832.1 | 1802.8 | 1763.8 | 1744.3 | 1731.4 | 1698.8 | 1663.1 | 1637.1 | 1601.4 | 1575.4 |
| 32.5° | 1741.1 | 1705.4 | 1669.7 | 1643.6 | 1620.9 | 1608.0 | 1572.2 | 1549.5 | 1517.0 | 1487.8 | 1458.5 |
| 35° | 1608.0 | 1572.2 | 1546.2 | 1510.5 | 1497.5 | 1484.4 | 1455.2 | 1425.9 | 1396.8 | 1370.8 | 1348.1 |
| 37.5° | 1464.9 | 1439.0 | 1409.8 | 1383.7 | 1374.0 | 1361.0 | 1325.3 | 1299.3 | 1276.6 | 1250.6 | 1231.1 |
| 40° | 1325.3 | 1302.5 | 1283.0 | 1257.1 | 1240.8 | 1231.1 | 1205.1 | 1182.4 | 1156.4 | 1140.1 | 1120.6 |
| 42.5° | 1198.6 | 1172.7 | 1153.2 | 1133.7 | 1117.4 | 1107.7 | 1084.9 | 1068.7 | 1049.2 | 1033.0 | 1010.3 |
| 45° | 1065.4 | 1052.5 | 1029.8 | 1013.5 | 1003.7 | 990.8 | 974.5 | 955.0 | 938.8 | 925.7 | 909.6 |
| 47.5° | 948.6 | 935.5 | 919.3 | 899.8 | 893.3 | 883.5 | 867.2 | 854.3 | 841.3 | 828.4 | 812.1 |
| 50° | 841.3 | 825.0 | 812.1 | 799.1 | 792.6 | 782.8 | 766.5 | 760.1 | 750.4 | 737.4 | 727.6 |
| 52.5° | 743.8 | 730.9 | 717.9 | 701.6 | 698.4 | 691.9 | 682.1 | 669.2 | 659.4 | 652.9 | 646.4 |
| 55° | 656.2 | 643.1 | 633.4 | 620.4 | 617.2 | 610.7 | 597.7 | 591.2 | 584.7 | 578.2 | 571.7 |
| 57.5° | 578.2 | 565.2 | 552.2 | 545.7 | 539.2 | 532.8 | 529.5 | 519.7 | 513.3 | 510.0 | 503.5 |
| 60° | 506.7 | 493.8 | 484.0 | 474.3 | 471.0 | 467.7 | 461.2 | 454.8 | 448.2 | 441.8 | 438.5 |
| 62.5° | 438.5 | 425.5 | 419.0 | 412.6 | 406.0 | 406.0 | 399.5 | 393.1 | 386.5 | 383.3 | 376.8 |
| 65° | 376.8 | 370.4 | 360.6 | 350.9 | 347.5 | 347.5 | 337.8 | 334.6 | 331.4 | 324.8 | 318.3 |
| 67.5° | 318.3 | 311.9 | 302.1 | 298.8 | 295.6 | 292.4 | 289.0 | 282.6 | 276.1 | 272.9 | 266.3 |
| 70° | 266.3 | 259.9 | 253.4 | 250.2 | 246.8 | 243.6 | 237.1 | 233.9 | 227.3 | 224.1 | 220.9 |
| 72.5° | 214.4 | 211.2 | 204.6 | 201.4 | 198.2 | 194.9 | 191.7 | 188.4 | 181.9 | 178.7 | 175.4 |
| 75° | 172.2 | 168.9 | 162.4 | 159.2 | 155.9 | 155.9 | 152.7 | 146.1 | 142.9 | 142.9 | 139.7 |
| 77.5° | 130.0 | 126.6 | 123.4 | 120.2 | 117.0 | 117.0 | 113.7 | 110.5 | 107.2 | 107.2 | 103.9 |
| 80° | 94.2 | 91.0 | 87.7 | 87.7 | 87.7 | 84.4 | 81.2 | 81.2 | 78.0 | 78.0 | 74.7 |
| 82.5° | 61.7 | 61.7 | 58.5 | 58.5 | 58.5 | 55.2 | 55.2 | 52.0 | 52.0 | 52.0 | 52.0 |
| 85° | 35.8 | 35.8 | 35.8 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 29.2 | 32.5 |
| 87.5° | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 16.3 | 13.0 | 13.0 | 13.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 |
| 2.5° | 2381.0 | 2377.7 | 2371.3 | 2371.3 | 2364.8 | 2364.8 | 2361.5 | 2358.2 | 2355.0 | 2351.8 | 2348.6 |
| 5° | 2358.2 | 2345.3 | 2338.7 | 2335.5 | 2329.1 | 2325.8 | 2316.0 | 2309.6 | 2306.3 | 2299.8 | 2293.3 |
| 7.5° | 2316.0 | 2303.0 | 2290.1 | 2286.8 | 2283.5 | 2270.6 | 2260.8 | 2251.1 | 2244.6 | 2238.1 | 2231.6 |
| 10° | 2267.4 | 2254.3 | 2238.1 | 2231.6 | 2225.1 | 2208.9 | 2195.8 | 2186.2 | 2173.1 | 2160.1 | 2156.9 |
| 12.5° | 2208.9 | 2189.4 | 2169.9 | 2163.3 | 2153.6 | 2137.4 | 2124.4 | 2108.2 | 2098.4 | 2082.1 | 2078.9 |
| 15° | 2140.6 | 2117.9 | 2101.6 | 2085.5 | 2078.9 | 2062.6 | 2039.9 | 2027.0 | 2007.5 | 2000.9 | 1984.8 |
| 17.5° | 2059.4 | 2036.7 | 2014.0 | 2007.5 | 1997.7 | 1975.0 | 1952.2 | 1936.0 | 1916.5 | 1906.8 | 1897.0 |
| 20° | 1975.0 | 1945.8 | 1922.9 | 1916.5 | 1903.5 | 1884.0 | 1861.2 | 1845.1 | 1828.8 | 1809.3 | 1799.5 |
| 22.5° | 1877.5 | 1845.1 | 1825.6 | 1809.3 | 1806.1 | 1783.3 | 1757.3 | 1744.3 | 1731.4 | 1715.1 | 1702.1 |
| 25° | 1770.4 | 1741.1 | 1718.3 | 1705.4 | 1698.8 | 1679.4 | 1659.9 | 1643.6 | 1624.1 | 1614.4 | 1598.2 |
| 27.5° | 1659.9 | 1640.4 | 1611.2 | 1598.2 | 1588.5 | 1572.2 | 1549.5 | 1539.7 | 1520.2 | 1507.3 | 1497.5 |
| 30° | 1552.7 | 1523.4 | 1507.3 | 1491.0 | 1481.2 | 1464.9 | 1445.4 | 1435.8 | 1419.5 | 1406.6 | 1396.8 |
| 32.5° | 1435.8 | 1416.3 | 1393.5 | 1387.1 | 1374.0 | 1357.8 | 1344.7 | 1328.6 | 1315.6 | 1302.5 | 1299.3 |
| 35° | 1328.6 | 1302.5 | 1279.8 | 1273.4 | 1263.5 | 1247.4 | 1240.8 | 1231.1 | 1214.9 | 1211.6 | 1198.6 |
| 37.5° | 1211.6 | 1198.6 | 1172.7 | 1162.9 | 1159.6 | 1146.6 | 1133.7 | 1127.2 | 1117.4 | 1107.7 | 1104.4 |
| 40° | 1101.2 | 1084.9 | 1072.0 | 1062.2 | 1055.7 | 1045.9 | 1033.0 | 1029.8 | 1023.2 | 1010.3 | 1006.9 |
| 42.5° | 997.2 | 981.0 | 968.0 | 964.7 | 955.0 | 945.2 | 938.8 | 929.1 | 925.7 | 922.5 | 916.0 |
| 45° | 896.5 | 886.7 | 873.8 | 870.6 | 867.2 | 854.3 | 847.9 | 841.3 | 834.8 | 831.6 | 825.0 |
| 47.5° | 805.5 | 795.8 | 786.0 | 782.8 | 776.4 | 773.1 | 763.3 | 760.1 | 750.4 | 747.1 | 743.8 |
| 50° | 717.9 | 711.4 | 704.8 | 701.6 | 695.2 | 691.9 | 685.4 | 678.9 | 672.4 | 669.2 | 665.9 |
| 52.5° | 639.9 | 633.4 | 626.9 | 623.6 | 620.4 | 614.0 | 607.4 | 600.9 | 597.7 | 594.5 | 591.2 |
| 55° | 565.2 | 558.7 | 555.5 | 552.2 | 549.0 | 545.7 | 536.0 | 532.8 | 529.5 | 526.2 | 519.7 |
| 57.5° | 497.0 | 490.5 | 484.0 | 484.0 | 480.7 | 477.5 | 471.0 | 464.5 | 464.5 | 458.0 | 451.6 |
| 60° | 435.3 | 428.7 | 422.3 | 419.0 | 415.8 | 409.3 | 406.0 | 402.8 | 399.5 | 396.3 | 389.8 |
| 62.5° | 370.4 | 367.0 | 360.6 | 360.6 | 354.1 | 350.9 | 347.5 | 344.3 | 341.1 | 334.6 | 331.4 |
| 65° | 315.1 | 311.9 | 305.3 | 302.1 | 302.1 | 298.8 | 292.4 | 289.0 | 285.8 | 285.8 | 282.6 |
| 67.5° | 263.1 | 259.9 | 253.4 | 250.2 | 250.2 | 246.8 | 243.6 | 243.6 | 240.4 | 237.1 | 240.4 |
| 70° | 217.6 | 211.2 | 211.2 | 207.8 | 207.8 | 204.6 | 201.4 | 201.4 | 201.4 | 204.6 | 204.6 |
| 72.5° | 172.2 | 168.9 | 165.6 | 165.6 | 165.6 | 165.6 | 162.4 | 162.4 | 165.6 | 168.9 | 168.9 |
| 75° | 136.4 | 133.2 | 133.2 | 133.2 | 130.0 | 130.0 | 133.2 | 133.2 | 136.4 | 136.4 | 136.4 |
| 77.5° | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 100.7 | 103.9 | 103.9 | 107.2 | 107.2 | 107.2 |
| 80° | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 81.2 |
| 82.5° | 52.0 | 52.0 | 52.0 | 52.0 | 52.0 | 52.0 | 52.0 | 55.2 | 55.2 | 55.2 | 55.2 |
| 85° | 29.2 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 |
| 87.5° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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



TEST NUMBER: P585151

CATALOG NUMBER: HCC8S60D010MW-HM86080930-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 | 2394.0 |
| 2.5° | 2345.3 | 2345.3 | 2345.3 | 2348.6 | 2342.0 | 2342.0 | 2342.0 | 2342.0 |
| 5° | 2290.1 | 2286.8 | 2283.5 | 2286.8 | 2280.3 | 2280.3 | 2277.0 | 2277.0 |
| 7.5° | 2221.8 | 2218.6 | 2215.3 | 2215.3 | 2208.9 | 2208.9 | 2205.6 | 2202.3 |
| 10° | 2147.2 | 2140.6 | 2143.8 | 2137.4 | 2134.1 | 2130.9 | 2127.7 | 2124.4 |
| 12.5° | 2066.0 | 2059.4 | 2056.2 | 2049.7 | 2043.1 | 2039.9 | 2043.1 | 2036.7 |
| 15° | 1978.2 | 1968.5 | 1965.3 | 1958.7 | 1952.2 | 1949.0 | 1949.0 | 1945.8 |
| 17.5° | 1880.7 | 1874.3 | 1871.0 | 1864.5 | 1861.2 | 1854.8 | 1851.6 | 1848.3 |
| 20° | 1789.8 | 1773.6 | 1776.8 | 1770.4 | 1767.1 | 1754.1 | 1754.1 | 1757.3 |
| 22.5° | 1689.2 | 1679.4 | 1672.9 | 1666.4 | 1663.1 | 1656.6 | 1656.6 | 1653.4 |
| 25° | 1588.5 | 1578.7 | 1575.4 | 1569.0 | 1565.7 | 1559.2 | 1555.9 | 1555.9 |
| 27.5° | 1491.0 | 1478.0 | 1478.0 | 1471.5 | 1464.9 | 1461.7 | 1458.5 | 1455.2 |
| 30° | 1387.1 | 1377.3 | 1374.0 | 1374.0 | 1370.8 | 1370.8 | 1361.0 | 1364.2 |
| 32.5° | 1289.6 | 1283.0 | 1279.8 | 1273.4 | 1273.4 | 1270.1 | 1270.1 | 1260.3 |
| 35° | 1192.2 | 1182.4 | 1185.6 | 1179.1 | 1175.9 | 1172.7 | 1175.9 | 1172.7 |
| 37.5° | 1097.9 | 1091.5 | 1091.5 | 1084.9 | 1084.9 | 1081.7 | 1078.4 | 1084.9 |
| 40° | 1003.7 | 1000.5 | 997.2 | 994.0 | 997.2 | 994.0 | 987.5 | 990.8 |
| 42.5° | 909.6 | 909.6 | 906.2 | 906.2 | 903.0 | 903.0 | 903.0 | 903.0 |
| 45° | 825.0 | 821.8 | 821.8 | 818.6 | 818.6 | 818.6 | 818.6 | 815.3 |
| 47.5° | 740.6 | 737.4 | 737.4 | 737.4 | 734.1 | 734.1 | 730.9 | 734.1 |
| 50° | 659.4 | 659.4 | 656.2 | 656.2 | 659.4 | 656.2 | 652.9 | 652.9 |
| 52.5° | 584.7 | 584.7 | 581.4 | 581.4 | 578.2 | 575.0 | 578.2 | 578.2 |
| 55° | 516.5 | 513.3 | 510.0 | 510.0 | 506.7 | 503.5 | 503.5 | 506.7 |
| 57.5° | 451.6 | 448.2 | 445.0 | 445.0 | 438.5 | 435.3 | 435.3 | 435.3 |
| 60° | 389.8 | 383.3 | 383.3 | 380.0 | 380.0 | 376.8 | 376.8 | 376.8 |
| 62.5° | 331.4 | 328.0 | 328.0 | 328.0 | 328.0 | 324.8 | 324.8 | 324.8 |
| 65° | 282.6 | 282.6 | 282.6 | 285.8 | 285.8 | 289.0 | 289.0 | 289.0 |
| 67.5° | 243.6 | 246.8 | 246.8 | 246.8 | 250.2 | 250.2 | 250.2 | 246.8 |
| 70° | 207.8 | 207.8 | 207.8 | 211.2 | 211.2 | 211.2 | 211.2 | 211.2 |
| 72.5° | 172.2 | 172.2 | 172.2 | 172.2 | 172.2 | 172.2 | 172.2 | 172.2 |
| 75° | 136.4 | 139.7 | 139.7 | 139.7 | 136.4 | 139.7 | 139.7 | 136.4 |
| 77.5° | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 | 107.2 |
| 80° | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 |
| 82.5° | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 |
| 85° | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 |
| 87.5° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report



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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)