

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: P584896

Luminaire Tested: **HCC8W50D010SL-HM82555935-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584896  
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: HCC8W50D010SL-HM82555935-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

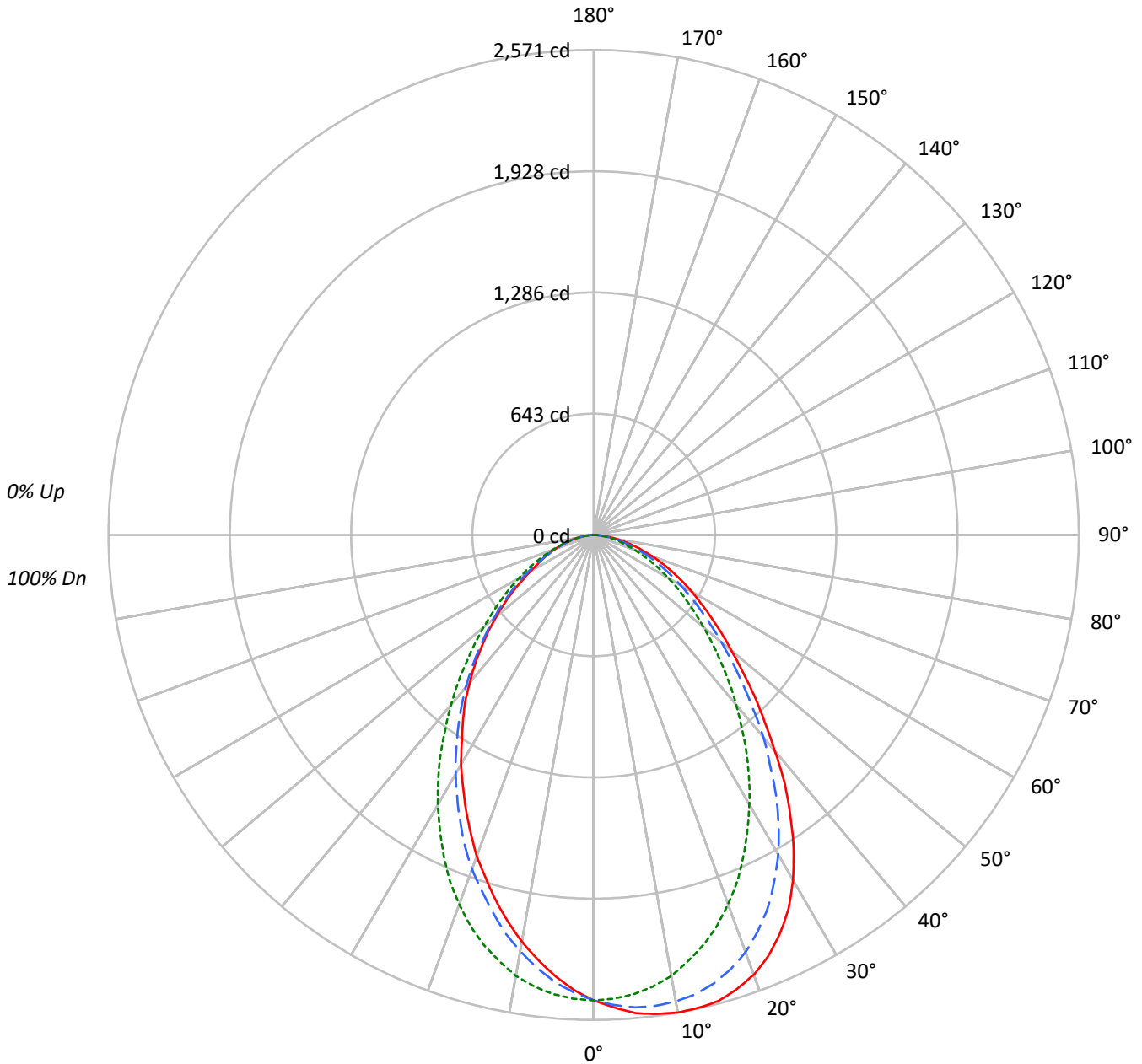
Lumens per Lamp: N/A  
Luminaire Lumens: 4553.9 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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CATALOG NUMBER: HCC8W50D010SL-HM82555935-81WWW

### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |  |  |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 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°  | 76089 | 76089 | 76089 |
| 5°  | 78766 | 75652 | 72649 |
| 10° | 80513 | 74328 | 68564 |
| 15° | 81659 | 71826 | 64024 |
| 20° | 81415 | 68338 | 59435 |
| 25° | 79399 | 63904 | 54568 |
| 30° | 75223 | 58772 | 50070 |
| 35° | 68437 | 53187 | 45497 |
| 40° | 60111 | 47306 | 41103 |
| 45° | 52418 | 41616 | 36649 |
| 50° | 45617 | 36459 | 32286 |
| 55° | 40681 | 32042 | 28080 |
| 60° | 36960 | 28080 | 23947 |
| 65° | 33221 | 24429 | 21744 |
| 70° | 29581 | 20827 | 19628 |
| 75° | 25937 | 17550 | 16751 |
| 80° | 22002 | 14260 | 14863 |
| 85° | 16594 | 10685 | 11817 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 231.1  | 5.1       |
| 10°-20°   | 636.8  | 14.0      |
| 20°-30°   | 883.9  | 19.4      |
| 30°-40°   | 913.9  | 20.1      |
| 40°-50°   | 765.2  | 16.8      |
| 50°-60°   | 555.5  | 12.2      |
| 60°-70°   | 350.6  | 7.7       |
| 70°-80°   | 173.7  | 3.8       |
| 80°-90°   | 43.1   | 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°    | 1751.9 | 38.5      |
| 0°-40°    | 2665.8 | 58.5      |
| 0°-60°    | 3986.5 | 87.5      |
| 0°-90°    | 4553.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4553.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2468 | 2468 | 2468 | 2468 | 2468 |      |
| 5°  | 2545 | 2514 | 2444 | 2377 | 2347 | 243  |
| 15° | 2558 | 2461 | 2250 | 2069 | 2006 | 720  |
| 25° | 2334 | 2183 | 1878 | 1674 | 1604 | 1069 |
| 35° | 1818 | 1684 | 1413 | 1252 | 1209 | 1132 |
| 45° | 1202 | 1115 | 954  | 860  | 840  | 930  |
| 55° | 757  | 690  | 596  | 546  | 522  | 683  |
| 65° | 455  | 398  | 335  | 295  | 298  | 454  |
| 75° | 218  | 181  | 147  | 141  | 141  | 233  |
| 85° | 47   | 37   | 30   | 33   | 33   | 57   |
| 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°    | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 |
| 2.5°  | 2507.7 | 2507.7 | 2511.0 | 2507.7 | 2507.7 | 2507.7 | 2504.3 | 2504.3 | 2501.0 | 2501.0 | 2494.3 |
| 5°    | 2544.6 | 2537.8 | 2544.6 | 2537.8 | 2537.8 | 2537.8 | 2534.5 | 2527.7 | 2524.5 | 2517.8 | 2514.4 |
| 7.5°  | 2561.3 | 2557.9 | 2557.9 | 2554.6 | 2554.6 | 2551.2 | 2547.8 | 2544.6 | 2531.1 | 2527.7 | 2517.8 |
| 10°   | 2571.3 | 2567.9 | 2567.9 | 2564.7 | 2557.9 | 2557.9 | 2551.2 | 2547.8 | 2531.1 | 2524.5 | 2511.0 |
| 12.5° | 2567.9 | 2567.9 | 2567.9 | 2564.7 | 2554.6 | 2551.2 | 2544.6 | 2534.5 | 2521.1 | 2507.7 | 2494.3 |
| 15°   | 2557.9 | 2557.9 | 2551.2 | 2547.8 | 2537.8 | 2531.1 | 2527.7 | 2511.0 | 2497.7 | 2481.0 | 2460.9 |
| 17.5° | 2524.5 | 2524.5 | 2521.1 | 2514.4 | 2504.3 | 2497.7 | 2490.9 | 2474.2 | 2460.9 | 2434.1 | 2414.0 |
| 20°   | 2481.0 | 2477.6 | 2474.2 | 2464.1 | 2454.1 | 2450.8 | 2440.8 | 2417.3 | 2400.5 | 2380.4 | 2353.7 |
| 22.5° | 2417.3 | 2414.0 | 2410.6 | 2403.9 | 2387.2 | 2380.4 | 2373.8 | 2357.1 | 2326.9 | 2306.8 | 2273.4 |
| 25°   | 2333.6 | 2333.6 | 2326.9 | 2316.8 | 2300.1 | 2293.5 | 2283.4 | 2266.7 | 2239.8 | 2209.8 | 2183.0 |
| 27.5° | 2236.5 | 2233.1 | 2223.1 | 2216.4 | 2203.0 | 2192.9 | 2176.2 | 2156.1 | 2129.3 | 2106.0 | 2072.4 |
| 30°   | 2112.6 | 2112.6 | 2106.0 | 2095.9 | 2079.2 | 2072.4 | 2059.1 | 2035.6 | 2008.8 | 1978.6 | 1955.3 |
| 32.5° | 1972.0 | 1972.0 | 1961.9 | 1955.3 | 1945.2 | 1928.5 | 1925.1 | 1898.3 | 1875.0 | 1851.5 | 1824.7 |
| 35°   | 1818.0 | 1821.3 | 1814.6 | 1801.3 | 1784.5 | 1784.5 | 1777.8 | 1754.4 | 1727.5 | 1704.2 | 1684.1 |
| 37.5° | 1664.0 | 1653.9 | 1650.6 | 1643.8 | 1633.8 | 1620.5 | 1613.8 | 1603.8 | 1580.3 | 1563.5 | 1533.4 |
| 40°   | 1493.3 | 1496.6 | 1489.9 | 1483.2 | 1479.8 | 1469.8 | 1466.4 | 1449.7 | 1433.0 | 1412.9 | 1399.5 |
| 42.5° | 1339.2 | 1339.2 | 1339.2 | 1332.5 | 1325.9 | 1315.8 | 1312.4 | 1302.4 | 1282.3 | 1268.9 | 1248.8 |
| 45°   | 1202.0 | 1191.9 | 1191.9 | 1188.5 | 1185.2 | 1178.5 | 1168.4 | 1161.8 | 1148.4 | 1138.4 | 1114.9 |
| 47.5° | 1068.0 | 1071.4 | 1068.0 | 1064.7 | 1054.7 | 1051.3 | 1047.9 | 1034.6 | 1021.1 | 1011.1 | 994.4  |
| 50°   | 950.9  | 957.5  | 950.9  | 950.9  | 944.2  | 940.8  | 934.1  | 924.1  | 914.0  | 897.3  | 880.5  |
| 52.5° | 853.7  | 853.7  | 850.4  | 847.1  | 837.0  | 830.3  | 827.0  | 823.7  | 806.8  | 793.5  | 780.1  |
| 55°   | 756.7  | 760.0  | 760.0  | 749.9  | 746.6  | 740.0  | 736.6  | 726.5  | 719.9  | 699.8  | 689.7  |
| 57.5° | 673.0  | 669.6  | 673.0  | 666.2  | 659.5  | 652.9  | 649.5  | 642.8  | 632.8  | 619.3  | 606.0  |
| 60°   | 599.3  | 592.6  | 592.6  | 589.3  | 582.5  | 579.2  | 572.6  | 562.5  | 552.5  | 539.0  | 529.0  |
| 62.5° | 525.7  | 522.3  | 518.9  | 515.6  | 508.9  | 505.6  | 502.2  | 492.1  | 482.1  | 472.0  | 462.0  |
| 65°   | 455.3  | 455.3  | 451.9  | 445.3  | 442.0  | 438.6  | 435.2  | 428.6  | 415.1  | 408.4  | 398.4  |
| 67.5° | 391.7  | 388.3  | 388.3  | 381.7  | 375.0  | 371.6  | 371.6  | 365.0  | 354.9  | 344.9  | 338.2  |
| 70°   | 328.1  | 331.4  | 328.1  | 324.7  | 318.1  | 318.1  | 311.4  | 308.0  | 294.6  | 291.3  | 281.3  |
| 72.5° | 271.2  | 271.2  | 267.8  | 267.8  | 261.2  | 257.8  | 257.8  | 251.1  | 244.4  | 237.7  | 231.0  |
| 75°   | 217.7  | 217.7  | 217.7  | 214.3  | 210.9  | 204.2  | 204.2  | 200.8  | 194.2  | 187.5  | 180.8  |
| 77.5° | 170.8  | 167.4  | 167.4  | 164.0  | 160.7  | 157.3  | 157.3  | 154.0  | 147.3  | 144.0  | 137.2  |
| 80°   | 123.9  | 120.5  | 120.5  | 120.5  | 113.9  | 117.1  | 113.9  | 110.5  | 107.1  | 103.8  | 100.4  |
| 82.5° | 80.3   | 83.7   | 83.7   | 80.3   | 77.0   | 77.0   | 77.0   | 73.6   | 73.6   | 70.3   | 67.0   |
| 85°   | 46.9   | 46.9   | 46.9   | 46.9   | 43.5   | 43.5   | 43.5   | 40.2   | 40.2   | 40.2   | 36.8   |
| 87.5° | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 20.1   | 16.7   | 16.7   | 16.7   | 16.7   | 16.7   |
| 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°    | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 |
| 2.5°  | 2494.3 | 2487.6 | 2484.2 | 2481.0 | 2481.0 | 2477.6 | 2474.2 | 2467.5 | 2467.5 | 2460.9 | 2457.5 |
| 5°    | 2507.7 | 2497.7 | 2490.9 | 2484.2 | 2481.0 | 2474.2 | 2467.5 | 2457.5 | 2454.1 | 2444.0 | 2434.1 |
| 7.5°  | 2511.0 | 2494.3 | 2487.6 | 2474.2 | 2467.5 | 2460.9 | 2447.4 | 2437.4 | 2424.0 | 2414.0 | 2400.5 |
| 10°   | 2497.7 | 2484.2 | 2467.5 | 2450.8 | 2447.4 | 2437.4 | 2417.3 | 2403.9 | 2387.2 | 2373.8 | 2353.7 |
| 12.5° | 2477.6 | 2457.5 | 2440.8 | 2420.6 | 2410.6 | 2400.5 | 2380.4 | 2360.3 | 2336.9 | 2313.5 | 2293.5 |
| 15°   | 2444.0 | 2420.6 | 2397.2 | 2373.8 | 2360.3 | 2350.4 | 2326.9 | 2303.5 | 2280.0 | 2249.9 | 2229.8 |
| 17.5° | 2393.9 | 2367.1 | 2343.6 | 2313.5 | 2300.1 | 2290.1 | 2259.9 | 2233.1 | 2203.0 | 2172.9 | 2152.8 |
| 20°   | 2330.3 | 2296.7 | 2270.0 | 2236.5 | 2226.5 | 2209.8 | 2179.6 | 2149.4 | 2116.0 | 2082.5 | 2059.1 |
| 22.5° | 2246.6 | 2213.0 | 2183.0 | 2149.4 | 2132.7 | 2116.0 | 2085.8 | 2049.0 | 2015.5 | 1988.7 | 1965.3 |
| 25°   | 2149.4 | 2119.3 | 2082.5 | 2052.4 | 2032.3 | 2012.2 | 1978.6 | 1948.6 | 1918.4 | 1878.2 | 1854.9 |
| 27.5° | 2042.4 | 2005.5 | 1978.6 | 1938.6 | 1918.4 | 1905.0 | 1868.2 | 1828.1 | 1801.3 | 1764.4 | 1737.6 |
| 30°   | 1921.8 | 1888.3 | 1858.1 | 1818.0 | 1797.9 | 1784.5 | 1751.0 | 1714.2 | 1687.5 | 1650.6 | 1623.9 |
| 32.5° | 1794.5 | 1757.7 | 1720.9 | 1694.1 | 1670.7 | 1657.3 | 1620.5 | 1597.0 | 1563.5 | 1533.4 | 1503.3 |
| 35°   | 1657.3 | 1620.5 | 1593.7 | 1556.9 | 1543.4 | 1530.1 | 1499.9 | 1469.8 | 1439.6 | 1412.9 | 1389.5 |
| 37.5° | 1510.0 | 1483.2 | 1453.1 | 1426.3 | 1416.2 | 1402.8 | 1366.0 | 1339.2 | 1315.8 | 1289.1 | 1268.9 |
| 40°   | 1366.0 | 1342.6 | 1322.5 | 1295.7 | 1279.0 | 1268.9 | 1242.2 | 1218.7 | 1191.9 | 1175.2 | 1155.1 |
| 42.5° | 1235.4 | 1208.6 | 1188.5 | 1168.4 | 1151.7 | 1141.6 | 1118.3 | 1101.5 | 1081.4 | 1064.7 | 1041.2 |
| 45°   | 1098.2 | 1084.7 | 1061.3 | 1044.6 | 1034.6 | 1021.1 | 1004.4 | 984.3  | 967.6  | 954.3  | 937.4  |
| 47.5° | 977.6  | 964.2  | 947.5  | 927.4  | 920.7  | 910.7  | 893.9  | 880.5  | 867.2  | 853.7  | 837.0  |
| 50°   | 867.2  | 850.4  | 837.0  | 823.7  | 816.9  | 806.8  | 790.1  | 783.5  | 773.4  | 760.0  | 749.9  |
| 52.5° | 766.7  | 753.3  | 740.0  | 723.1  | 719.9  | 713.1  | 703.0  | 689.7  | 679.7  | 673.0  | 666.2  |
| 55°   | 676.3  | 662.9  | 652.9  | 639.4  | 636.2  | 629.4  | 616.1  | 609.4  | 602.6  | 596.0  | 589.3  |
| 57.5° | 596.0  | 582.5  | 569.2  | 562.5  | 555.7  | 549.1  | 545.7  | 535.6  | 529.0  | 525.7  | 518.9  |
| 60°   | 522.3  | 508.9  | 498.8  | 488.8  | 485.5  | 482.1  | 475.4  | 468.8  | 462.0  | 455.3  | 451.9  |
| 62.5° | 451.9  | 438.6  | 431.9  | 425.2  | 418.5  | 418.5  | 411.8  | 405.1  | 398.4  | 395.1  | 388.3  |
| 65°   | 388.3  | 381.7  | 371.6  | 361.6  | 358.3  | 358.3  | 348.2  | 344.9  | 341.5  | 334.8  | 328.1  |
| 67.5° | 328.1  | 321.4  | 311.4  | 308.0  | 304.6  | 301.4  | 298.0  | 291.3  | 284.5  | 281.3  | 274.6  |
| 70°   | 274.6  | 267.8  | 261.2  | 257.8  | 254.5  | 251.1  | 244.4  | 241.0  | 234.4  | 231.0  | 227.7  |
| 72.5° | 220.9  | 217.7  | 210.9  | 207.6  | 204.2  | 200.8  | 197.6  | 194.2  | 187.5  | 184.1  | 180.8  |
| 75°   | 177.5  | 174.1  | 167.4  | 164.0  | 160.7  | 160.7  | 157.3  | 150.7  | 147.3  | 147.3  | 144.0  |
| 77.5° | 134.0  | 130.6  | 127.2  | 123.9  | 120.5  | 120.5  | 117.1  | 113.9  | 110.5  | 110.5  | 107.1  |
| 80°   | 97.1   | 93.8   | 90.4   | 90.4   | 90.4   | 87.1   | 83.7   | 83.7   | 80.3   | 80.3   | 77.0   |
| 82.5° | 63.6   | 63.6   | 60.3   | 60.3   | 60.3   | 56.9   | 56.9   | 53.5   | 53.5   | 53.5   | 53.5   |
| 85°   | 36.8   | 36.8   | 36.8   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 30.2   | 33.4   |
| 87.5° | 16.7   | 16.7   | 16.7   | 16.7   | 16.7   | 16.7   | 16.7   | 16.7   | 13.4   | 13.4   | 13.4   |
| 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°    | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 |
| 2.5°  | 2454.1 | 2450.8 | 2444.0 | 2444.0 | 2437.4 | 2437.4 | 2434.1 | 2430.7 | 2427.3 | 2424.0 | 2420.6 |
| 5°    | 2430.7 | 2417.3 | 2410.6 | 2407.2 | 2400.5 | 2397.2 | 2387.2 | 2380.4 | 2377.2 | 2370.4 | 2363.7 |
| 7.5°  | 2387.2 | 2373.8 | 2360.3 | 2357.1 | 2353.7 | 2340.3 | 2330.3 | 2320.2 | 2313.5 | 2306.8 | 2300.1 |
| 10°   | 2336.9 | 2323.5 | 2306.8 | 2300.1 | 2293.5 | 2276.6 | 2263.3 | 2253.2 | 2239.8 | 2226.5 | 2223.1 |
| 12.5° | 2276.6 | 2256.6 | 2236.5 | 2229.8 | 2219.8 | 2203.0 | 2189.7 | 2172.9 | 2162.9 | 2146.1 | 2142.8 |
| 15°   | 2206.4 | 2183.0 | 2166.2 | 2149.4 | 2142.8 | 2126.1 | 2102.6 | 2089.2 | 2069.1 | 2062.3 | 2045.6 |
| 17.5° | 2122.7 | 2099.3 | 2075.8 | 2069.1 | 2059.1 | 2035.6 | 2012.2 | 1995.5 | 1975.4 | 1965.3 | 1955.3 |
| 20°   | 2035.6 | 2005.5 | 1982.0 | 1975.4 | 1961.9 | 1941.8 | 1918.4 | 1901.7 | 1885.0 | 1864.9 | 1854.9 |
| 22.5° | 1935.2 | 1901.7 | 1881.6 | 1864.9 | 1861.5 | 1838.1 | 1811.2 | 1797.9 | 1784.5 | 1767.8 | 1754.4 |
| 25°   | 1824.7 | 1794.5 | 1771.2 | 1757.7 | 1751.0 | 1730.9 | 1710.8 | 1694.1 | 1674.0 | 1664.0 | 1647.2 |
| 27.5° | 1710.8 | 1690.7 | 1660.7 | 1647.2 | 1637.2 | 1620.5 | 1597.0 | 1587.0 | 1566.9 | 1553.5 | 1543.4 |
| 30°   | 1600.4 | 1570.2 | 1553.5 | 1536.8 | 1526.7 | 1510.0 | 1489.9 | 1479.8 | 1463.1 | 1449.7 | 1439.6 |
| 32.5° | 1479.8 | 1459.7 | 1436.4 | 1429.6 | 1416.2 | 1399.5 | 1386.1 | 1369.4 | 1355.9 | 1342.6 | 1339.2 |
| 35°   | 1369.4 | 1342.6 | 1319.1 | 1312.4 | 1302.4 | 1285.7 | 1279.0 | 1268.9 | 1252.1 | 1248.8 | 1235.4 |
| 37.5° | 1248.8 | 1235.4 | 1208.6 | 1198.6 | 1195.3 | 1181.9 | 1168.4 | 1161.8 | 1151.7 | 1141.6 | 1138.4 |
| 40°   | 1135.0 | 1118.3 | 1104.8 | 1094.8 | 1088.1 | 1078.1 | 1064.7 | 1061.3 | 1054.7 | 1041.2 | 1038.0 |
| 42.5° | 1027.9 | 1011.1 | 997.7  | 994.4  | 984.3  | 974.2  | 967.6  | 957.5  | 954.3  | 950.9  | 944.2  |
| 45°   | 924.1  | 914.0  | 900.6  | 897.3  | 893.9  | 880.5  | 873.8  | 867.2  | 860.5  | 857.1  | 850.4  |
| 47.5° | 830.3  | 820.3  | 810.2  | 806.8  | 800.2  | 796.8  | 786.7  | 783.5  | 773.4  | 770.0  | 766.7  |
| 50°   | 740.0  | 733.2  | 726.5  | 723.1  | 716.5  | 713.1  | 706.4  | 699.8  | 693.1  | 689.7  | 686.3  |
| 52.5° | 659.5  | 652.9  | 646.2  | 642.8  | 639.4  | 632.8  | 626.1  | 619.3  | 616.1  | 612.7  | 609.4  |
| 55°   | 582.5  | 575.8  | 572.6  | 569.2  | 565.8  | 562.5  | 552.5  | 549.1  | 545.7  | 542.4  | 535.6  |
| 57.5° | 512.3  | 505.6  | 498.8  | 498.8  | 495.5  | 492.1  | 485.5  | 478.8  | 478.8  | 472.0  | 465.4  |
| 60°   | 448.7  | 442.0  | 435.2  | 431.9  | 428.6  | 421.9  | 418.5  | 415.1  | 411.8  | 408.4  | 401.8  |
| 62.5° | 381.7  | 378.3  | 371.6  | 371.6  | 365.0  | 361.6  | 358.3  | 354.9  | 351.5  | 344.9  | 341.5  |
| 65°   | 324.7  | 321.4  | 314.7  | 311.4  | 311.4  | 308.0  | 301.4  | 298.0  | 294.6  | 294.6  | 291.3  |
| 67.5° | 271.2  | 267.8  | 261.2  | 257.8  | 257.8  | 254.5  | 251.1  | 251.1  | 247.7  | 244.4  | 247.7  |
| 70°   | 224.3  | 217.7  | 217.7  | 214.3  | 214.3  | 210.9  | 207.6  | 207.6  | 207.6  | 210.9  | 210.9  |
| 72.5° | 177.5  | 174.1  | 170.8  | 170.8  | 170.8  | 170.8  | 167.4  | 167.4  | 170.8  | 174.1  | 174.1  |
| 75°   | 140.6  | 137.2  | 137.2  | 137.2  | 134.0  | 134.0  | 137.2  | 137.2  | 140.6  | 140.6  | 140.6  |
| 77.5° | 103.8  | 103.8  | 103.8  | 103.8  | 103.8  | 103.8  | 107.1  | 107.1  | 110.5  | 110.5  | 110.5  |
| 80°   | 77.0   | 77.0   | 77.0   | 77.0   | 77.0   | 80.3   | 80.3   | 80.3   | 80.3   | 80.3   | 83.7   |
| 82.5° | 53.5   | 53.5   | 53.5   | 53.5   | 53.5   | 53.5   | 53.5   | 56.9   | 56.9   | 56.9   | 56.9   |
| 85°   | 30.2   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   |
| 87.5° | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   |
| 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: P584896

CATALOG NUMBER: HCC8W50D010SL-HM82555935-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 | 2467.5 |
| 2.5°  | 2417.3 | 2417.3 | 2417.3 | 2420.6 | 2414.0 | 2414.0 | 2414.0 | 2414.0 |
| 5°    | 2360.3 | 2357.1 | 2353.7 | 2357.1 | 2350.4 | 2350.4 | 2347.0 | 2347.0 |
| 7.5°  | 2290.1 | 2286.7 | 2283.4 | 2283.4 | 2276.6 | 2276.6 | 2273.4 | 2270.0 |
| 10°   | 2213.0 | 2206.4 | 2209.8 | 2203.0 | 2199.7 | 2196.3 | 2192.9 | 2189.7 |
| 12.5° | 2129.3 | 2122.7 | 2119.3 | 2112.6 | 2106.0 | 2102.6 | 2106.0 | 2099.3 |
| 15°   | 2039.0 | 2028.9 | 2025.5 | 2018.9 | 2012.2 | 2008.8 | 2008.8 | 2005.5 |
| 17.5° | 1938.6 | 1931.8 | 1928.5 | 1921.8 | 1918.4 | 1911.8 | 1908.4 | 1905.0 |
| 20°   | 1844.8 | 1828.1 | 1831.4 | 1824.7 | 1821.3 | 1808.0 | 1808.0 | 1811.2 |
| 22.5° | 1741.0 | 1730.9 | 1724.3 | 1717.6 | 1714.2 | 1707.6 | 1707.6 | 1704.2 |
| 25°   | 1637.2 | 1627.1 | 1623.9 | 1617.1 | 1613.8 | 1607.0 | 1603.8 | 1603.8 |
| 27.5° | 1536.8 | 1523.3 | 1523.3 | 1516.7 | 1510.0 | 1506.6 | 1503.3 | 1499.9 |
| 30°   | 1429.6 | 1419.6 | 1416.2 | 1416.2 | 1412.9 | 1412.9 | 1402.8 | 1406.2 |
| 32.5° | 1329.2 | 1322.5 | 1319.1 | 1312.4 | 1312.4 | 1309.0 | 1309.0 | 1299.0 |
| 35°   | 1228.7 | 1218.7 | 1222.1 | 1215.3 | 1212.0 | 1208.6 | 1212.0 | 1208.6 |
| 37.5° | 1131.6 | 1124.9 | 1124.9 | 1118.3 | 1118.3 | 1114.9 | 1111.6 | 1118.3 |
| 40°   | 1034.6 | 1031.2 | 1027.9 | 1024.5 | 1027.9 | 1024.5 | 1017.8 | 1021.1 |
| 42.5° | 937.4  | 937.4  | 934.1  | 934.1  | 930.8  | 930.8  | 930.8  | 930.8  |
| 45°   | 850.4  | 847.1  | 847.1  | 843.7  | 843.7  | 843.7  | 843.7  | 840.4  |
| 47.5° | 763.4  | 760.0  | 760.0  | 760.0  | 756.7  | 756.7  | 753.3  | 756.7  |
| 50°   | 679.7  | 679.7  | 676.3  | 676.3  | 679.7  | 676.3  | 673.0  | 673.0  |
| 52.5° | 602.6  | 602.6  | 599.3  | 599.3  | 596.0  | 592.6  | 596.0  | 596.0  |
| 55°   | 532.4  | 529.0  | 525.7  | 525.7  | 522.3  | 518.9  | 518.9  | 522.3  |
| 57.5° | 465.4  | 462.0  | 458.7  | 458.7  | 451.9  | 448.7  | 448.7  | 448.7  |
| 60°   | 401.8  | 395.1  | 395.1  | 391.7  | 391.7  | 388.3  | 388.3  | 388.3  |
| 62.5° | 341.5  | 338.2  | 338.2  | 338.2  | 338.2  | 334.8  | 334.8  | 334.8  |
| 65°   | 291.3  | 291.3  | 291.3  | 294.6  | 294.6  | 298.0  | 298.0  | 298.0  |
| 67.5° | 251.1  | 254.5  | 254.5  | 254.5  | 257.8  | 257.8  | 257.8  | 254.5  |
| 70°   | 214.3  | 214.3  | 214.3  | 217.7  | 217.7  | 217.7  | 217.7  | 217.7  |
| 72.5° | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  | 177.5  |
| 75°   | 140.6  | 144.0  | 144.0  | 144.0  | 140.6  | 144.0  | 144.0  | 140.6  |
| 77.5° | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  | 110.5  |
| 80°   | 83.7   | 83.7   | 83.7   | 83.7   | 83.7   | 83.7   | 83.7   | 83.7   |
| 82.5° | 56.9   | 56.9   | 56.9   | 56.9   | 56.9   | 56.9   | 56.9   | 56.9   |
| 85°   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   | 33.4   |
| 87.5° | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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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)