

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: P584963

Luminaire Tested: **HCC8S55D010SL-HM82555835-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584963  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S55D010SL-HM82555835-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

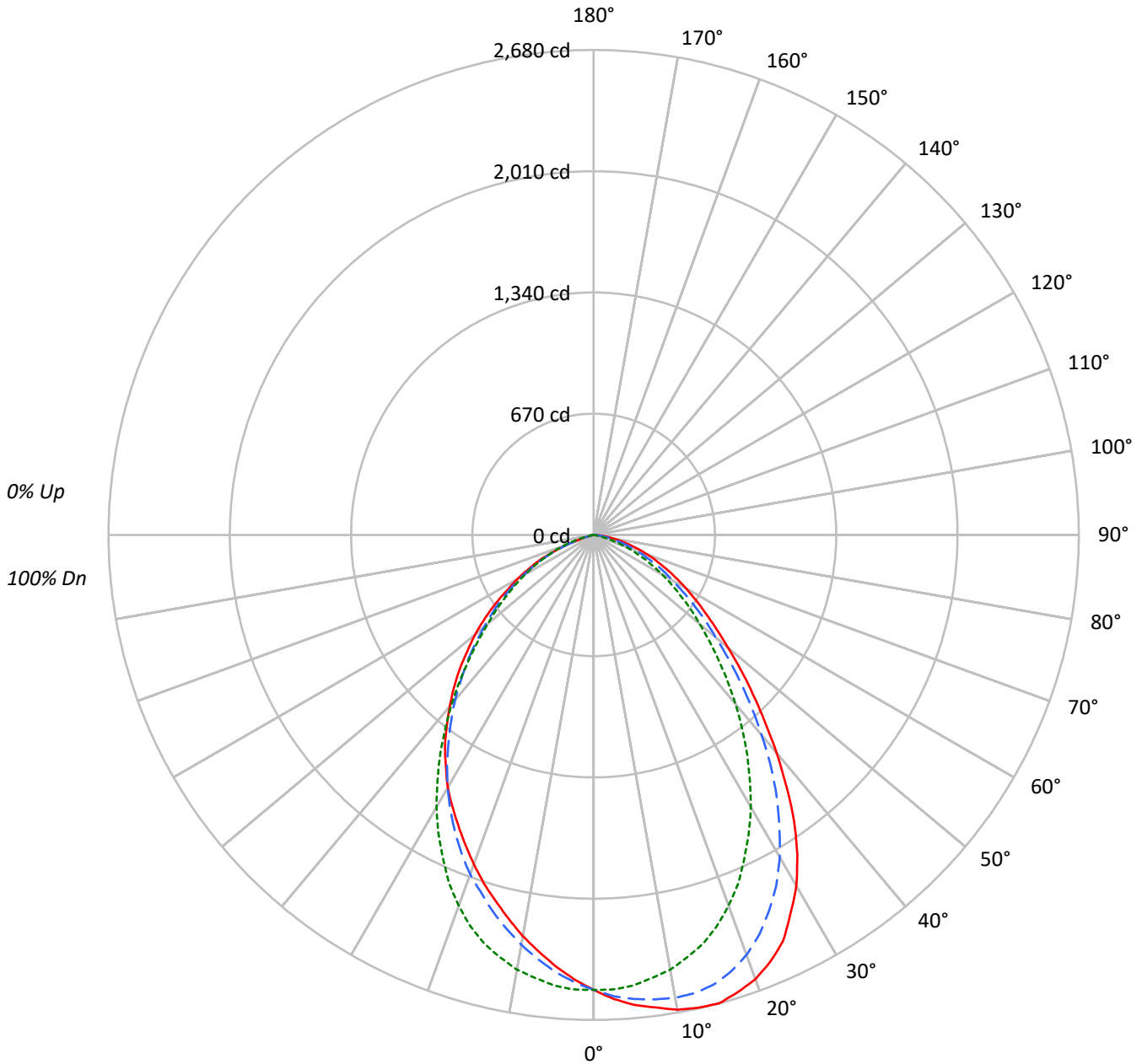
Lumens per Lamp: N/A  
Luminaire Lumens: 4683.2 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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



TEST NUMBER: P584963  
CATALOG NUMBER: HCC8S55D010SL-HM82555835-81WWBB

### 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 | 100 |    |    |   |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 69  | 67  |    |    |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |   |
| 5   | 82  | 70  | 63  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |   |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 49  | 47  |    |    |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  | 43  |    |    |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 39  |    |    |   |
| 9   | 62  | 50  | 43  | 37  | 61  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |   |
| 10  | 59  | 47  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 77529 | 77529 | 77529 |
| 5°  | 80734 | 77360 | 74101 |
| 10° | 83431 | 76370 | 70486 |
| 15° | 85541 | 74626 | 66827 |
| 20° | 85710 | 71528 | 63511 |
| 25° | 84264 | 67000 | 60226 |
| 30° | 79752 | 61820 | 57405 |
| 35° | 72717 | 55600 | 53899 |
| 40° | 63235 | 49013 | 49774 |
| 45° | 54250 | 42445 | 45558 |
| 50° | 46332 | 36598 | 40926 |
| 55° | 40611 | 31515 | 35563 |
| 60° | 36152 | 26889 | 29893 |
| 65° | 32083 | 21933 | 23860 |
| 70° | 28463 | 16265 | 13560 |
| 75° | 23721 | 8507  | 4039  |
| 80° | 18681 | 2664  | 675   |
| 85° | 13303 | 1344  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 236.9  | 5.1       |
| 10°-20°   | 664.0  | 14.2      |
| 20°-30°   | 939.8  | 20.1      |
| 30°-40°   | 983.2  | 21.0      |
| 40°-50°   | 820.1  | 17.5      |
| 50°-60°   | 581.6  | 12.4      |
| 60°-70°   | 334.9  | 7.2       |
| 70°-80°   | 107.8  | 2.3       |
| 80°-90°   | 14.8   | 0.3       |
| 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°    | 1840.7 | 39.3      |
| 0°-40°    | 2823.9 | 60.3      |
| 0°-60°    | 4225.6 | 90.2      |
| 0°-90°    | 4683.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4683.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2514 | 2514 | 2514 | 2514 | 2514 |      |
| 5°  | 2608 | 2574 | 2499 | 2424 | 2394 | 250  |
| 15° | 2680 | 2570 | 2338 | 2153 | 2093 | 753  |
| 25° | 2477 | 2292 | 1969 | 1811 | 1770 | 1130 |
| 35° | 1932 | 1763 | 1477 | 1398 | 1432 | 1198 |
| 45° | 1244 | 1142 | 973  | 985  | 1045 | 964  |
| 55° | 755  | 676  | 586  | 616  | 662  | 682  |
| 65° | 440  | 368  | 301  | 301  | 327  | 439  |
| 75° | 199  | 147  | 71   | 34   | 34   | 216  |
| 85° | 38   | 19   | 4    | 0    | 0    | 47   |
| 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°    | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 |
| 2.5°  | 2566.8 | 2563.0 | 2559.3 | 2563.0 | 2559.3 | 2563.0 | 2559.3 | 2559.3 | 2555.5 | 2551.8 | 2551.8 |
| 5°    | 2608.2 | 2604.4 | 2604.4 | 2604.4 | 2600.7 | 2596.8 | 2596.8 | 2593.0 | 2585.5 | 2581.8 | 2574.3 |
| 7.5°  | 2634.4 | 2638.2 | 2638.2 | 2638.2 | 2630.7 | 2630.7 | 2623.2 | 2615.7 | 2608.2 | 2600.7 | 2589.3 |
| 10°   | 2664.5 | 2664.5 | 2660.8 | 2657.0 | 2649.4 | 2645.7 | 2641.9 | 2634.4 | 2623.2 | 2608.2 | 2596.8 |
| 12.5° | 2675.8 | 2675.8 | 2672.0 | 2664.5 | 2660.8 | 2657.0 | 2653.2 | 2641.9 | 2626.9 | 2608.2 | 2593.0 |
| 15°   | 2679.5 | 2672.0 | 2668.3 | 2664.5 | 2657.0 | 2645.7 | 2645.7 | 2630.7 | 2611.9 | 2589.3 | 2570.5 |
| 17.5° | 2649.4 | 2653.2 | 2645.7 | 2638.2 | 2626.9 | 2619.4 | 2608.2 | 2596.8 | 2574.3 | 2548.0 | 2529.2 |
| 20°   | 2611.9 | 2608.2 | 2604.4 | 2593.0 | 2578.0 | 2574.3 | 2563.0 | 2544.3 | 2525.4 | 2495.4 | 2469.1 |
| 22.5° | 2551.8 | 2548.0 | 2540.4 | 2532.9 | 2517.9 | 2510.4 | 2499.2 | 2476.6 | 2450.3 | 2420.2 | 2390.2 |
| 25°   | 2476.6 | 2469.1 | 2457.8 | 2442.8 | 2431.5 | 2423.9 | 2408.9 | 2386.4 | 2356.3 | 2322.6 | 2292.4 |
| 27.5° | 2356.3 | 2367.6 | 2360.1 | 2337.6 | 2326.3 | 2311.2 | 2307.4 | 2277.4 | 2251.1 | 2217.3 | 2183.4 |
| 30°   | 2239.8 | 2239.8 | 2228.6 | 2217.3 | 2198.6 | 2187.2 | 2172.2 | 2149.7 | 2123.3 | 2081.9 | 2055.7 |
| 32.5° | 2093.3 | 2089.6 | 2074.4 | 2070.7 | 2055.7 | 2033.2 | 2029.4 | 1999.3 | 1973.1 | 1942.9 | 1909.1 |
| 35°   | 1931.7 | 1924.2 | 1909.1 | 1897.8 | 1890.3 | 1879.1 | 1867.8 | 1841.4 | 1815.2 | 1785.1 | 1762.6 |
| 37.5° | 1747.6 | 1747.6 | 1743.8 | 1724.9 | 1717.4 | 1709.9 | 1698.7 | 1672.3 | 1657.3 | 1627.3 | 1604.7 |
| 40°   | 1570.9 | 1567.1 | 1555.8 | 1552.1 | 1544.6 | 1533.3 | 1525.8 | 1510.7 | 1488.2 | 1465.7 | 1443.1 |
| 42.5° | 1398.0 | 1401.8 | 1386.7 | 1390.5 | 1375.5 | 1368.0 | 1364.2 | 1341.6 | 1330.3 | 1307.8 | 1289.1 |
| 45°   | 1244.0 | 1240.2 | 1232.7 | 1229.0 | 1221.3 | 1213.8 | 1206.3 | 1195.1 | 1176.3 | 1153.7 | 1142.5 |
| 47.5° | 1101.1 | 1089.8 | 1089.8 | 1086.1 | 1082.3 | 1067.3 | 1063.6 | 1052.2 | 1041.0 | 1018.5 | 1003.5 |
| 50°   | 965.8  | 965.8  | 965.8  | 962.1  | 950.8  | 947.1  | 939.5  | 928.2  | 917.0  | 902.0  | 879.4  |
| 52.5° | 856.8  | 856.8  | 856.8  | 853.1  | 838.1  | 834.3  | 830.6  | 815.5  | 800.5  | 789.2  | 774.2  |
| 55°   | 755.4  | 759.1  | 755.4  | 747.9  | 736.6  | 736.6  | 725.4  | 717.8  | 702.7  | 691.5  | 676.5  |
| 57.5° | 669.0  | 669.0  | 661.5  | 657.7  | 650.1  | 646.4  | 638.9  | 631.4  | 612.6  | 601.4  | 582.5  |
| 60°   | 586.2  | 582.5  | 582.5  | 575.0  | 567.5  | 560.0  | 556.2  | 545.0  | 537.4  | 518.6  | 503.6  |
| 62.5° | 511.1  | 511.1  | 503.6  | 503.6  | 488.6  | 488.6  | 484.7  | 473.5  | 462.2  | 443.5  | 436.0  |
| 65°   | 439.7  | 439.7  | 436.0  | 432.2  | 420.9  | 417.1  | 413.4  | 402.1  | 390.9  | 379.6  | 368.2  |
| 67.5° | 375.9  | 375.9  | 368.2  | 364.5  | 357.0  | 353.2  | 345.7  | 338.2  | 327.0  | 315.7  | 304.4  |
| 70°   | 315.7  | 311.9  | 308.1  | 304.4  | 296.9  | 293.1  | 285.6  | 278.1  | 266.9  | 259.4  | 248.0  |
| 72.5° | 255.5  | 255.5  | 251.7  | 244.2  | 240.5  | 236.7  | 233.0  | 225.5  | 214.2  | 203.0  | 195.4  |
| 75°   | 199.1  | 199.1  | 199.1  | 191.6  | 184.1  | 180.4  | 180.4  | 172.9  | 165.4  | 154.1  | 146.6  |
| 77.5° | 154.1  | 150.4  | 146.6  | 146.6  | 139.0  | 135.2  | 131.5  | 127.7  | 116.5  | 112.7  | 105.2  |
| 80°   | 105.2  | 109.0  | 105.2  | 101.5  | 97.7   | 94.0   | 94.0   | 86.5   | 82.6   | 75.1   | 67.6   |
| 82.5° | 71.4   | 67.6   | 67.6   | 63.9   | 63.9   | 60.1   | 60.1   | 52.6   | 48.9   | 45.1   | 41.4   |
| 85°   | 37.6   | 37.6   | 33.9   | 33.9   | 33.9   | 30.1   | 30.1   | 26.3   | 26.3   | 22.5   | 18.8   |
| 87.5° | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 7.5    | 7.5    | 7.5    |
| 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°    | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 |
| 2.5°  | 2548.0 | 2540.4 | 2536.7 | 2536.7 | 2532.9 | 2529.2 | 2525.4 | 2521.7 | 2514.2 | 2514.2 | 2506.7 |
| 5°    | 2566.8 | 2559.3 | 2555.5 | 2544.3 | 2536.7 | 2536.7 | 2521.7 | 2517.9 | 2506.7 | 2499.2 | 2491.7 |
| 7.5°  | 2581.8 | 2566.8 | 2555.5 | 2544.3 | 2536.7 | 2529.2 | 2514.2 | 2499.2 | 2484.2 | 2469.1 | 2461.6 |
| 10°   | 2581.8 | 2566.8 | 2548.0 | 2529.2 | 2521.7 | 2514.2 | 2495.4 | 2472.8 | 2454.1 | 2439.0 | 2420.2 |
| 12.5° | 2574.3 | 2551.8 | 2529.2 | 2514.2 | 2499.2 | 2487.9 | 2465.3 | 2442.8 | 2420.2 | 2390.2 | 2375.2 |
| 15°   | 2551.8 | 2521.7 | 2499.2 | 2472.8 | 2461.6 | 2442.8 | 2423.9 | 2390.2 | 2363.8 | 2337.6 | 2318.8 |
| 17.5° | 2506.7 | 2469.1 | 2442.8 | 2416.4 | 2397.7 | 2386.4 | 2356.3 | 2326.3 | 2296.2 | 2266.2 | 2243.6 |
| 20°   | 2439.0 | 2405.2 | 2375.2 | 2341.3 | 2326.3 | 2311.2 | 2273.7 | 2243.6 | 2213.6 | 2179.7 | 2157.2 |
| 22.5° | 2356.3 | 2322.6 | 2281.2 | 2254.8 | 2232.3 | 2213.6 | 2179.7 | 2145.9 | 2115.8 | 2085.8 | 2055.7 |
| 25°   | 2254.8 | 2221.1 | 2183.4 | 2142.2 | 2127.1 | 2108.3 | 2070.7 | 2036.9 | 2003.1 | 1969.2 | 1942.9 |
| 27.5° | 2145.9 | 2100.8 | 2070.7 | 2025.6 | 2010.6 | 1991.8 | 1950.4 | 1912.9 | 1882.8 | 1856.6 | 1826.4 |
| 30°   | 2014.3 | 1980.6 | 1939.2 | 1897.8 | 1882.8 | 1864.1 | 1830.2 | 1796.3 | 1766.3 | 1736.2 | 1706.2 |
| 32.5° | 1871.6 | 1837.7 | 1796.3 | 1766.3 | 1743.8 | 1728.7 | 1694.9 | 1664.8 | 1634.8 | 1604.7 | 1578.4 |
| 35°   | 1721.2 | 1683.6 | 1653.6 | 1623.5 | 1604.7 | 1586.0 | 1552.1 | 1525.8 | 1503.2 | 1477.0 | 1450.6 |
| 37.5° | 1567.1 | 1540.8 | 1510.7 | 1477.0 | 1458.2 | 1443.1 | 1416.8 | 1386.7 | 1368.0 | 1345.5 | 1326.6 |
| 40°   | 1416.8 | 1386.7 | 1360.5 | 1330.3 | 1315.3 | 1304.1 | 1277.7 | 1255.2 | 1236.5 | 1217.6 | 1206.3 |
| 42.5° | 1262.7 | 1236.5 | 1210.1 | 1191.3 | 1180.1 | 1168.7 | 1150.0 | 1123.7 | 1112.3 | 1093.6 | 1082.3 |
| 45°   | 1120.0 | 1097.3 | 1078.6 | 1052.2 | 1044.7 | 1037.2 | 1014.7 | 995.8  | 984.6  | 973.3  | 965.8  |
| 47.5° | 984.6  | 969.6  | 947.1  | 932.0  | 920.7  | 913.2  | 898.2  | 883.1  | 871.9  | 864.4  | 856.8  |
| 50°   | 868.1  | 849.3  | 834.3  | 819.2  | 811.7  | 800.5  | 785.5  | 778.0  | 770.4  | 762.9  | 762.9  |
| 52.5° | 759.1  | 740.4  | 725.4  | 714.1  | 706.5  | 699.0  | 687.7  | 684.0  | 676.5  | 676.5  | 672.7  |
| 55°   | 657.7  | 646.4  | 631.4  | 616.4  | 612.6  | 608.9  | 601.4  | 593.7  | 590.0  | 586.2  | 590.0  |
| 57.5° | 571.2  | 560.0  | 545.0  | 533.6  | 529.9  | 526.1  | 522.4  | 514.9  | 511.1  | 511.1  | 511.1  |
| 60°   | 492.4  | 481.0  | 469.7  | 458.5  | 458.5  | 451.0  | 447.2  | 443.5  | 439.7  | 436.0  | 436.0  |
| 62.5° | 420.9  | 409.6  | 398.4  | 390.9  | 387.1  | 383.4  | 375.9  | 372.1  | 368.2  | 368.2  | 364.5  |
| 65°   | 357.0  | 342.0  | 338.2  | 327.0  | 323.2  | 319.5  | 315.7  | 308.1  | 304.4  | 300.6  | 296.9  |
| 67.5° | 293.1  | 285.6  | 274.4  | 266.9  | 263.1  | 259.4  | 255.5  | 248.0  | 244.2  | 240.5  | 233.0  |
| 70°   | 236.7  | 229.2  | 221.7  | 214.2  | 210.5  | 206.7  | 199.1  | 191.6  | 187.9  | 180.4  | 169.1  |
| 72.5° | 184.1  | 176.6  | 169.1  | 161.6  | 157.9  | 154.1  | 146.6  | 139.0  | 131.5  | 124.0  | 116.5  |
| 75°   | 139.0  | 131.5  | 120.2  | 112.7  | 109.0  | 109.0  | 97.7   | 90.2   | 82.6   | 71.4   | 63.9   |
| 77.5° | 97.7   | 86.5   | 82.6   | 75.1   | 71.4   | 63.9   | 56.4   | 48.9   | 41.4   | 37.6   | 30.1   |
| 80°   | 63.9   | 56.4   | 48.9   | 45.1   | 41.4   | 37.6   | 33.9   | 26.3   | 18.8   | 15.0   | 11.3   |
| 82.5° | 37.6   | 33.9   | 30.1   | 26.3   | 22.5   | 18.8   | 15.0   | 15.0   | 11.3   | 7.5    | 3.8    |
| 85°   | 18.8   | 15.0   | 11.3   | 11.3   | 7.5    | 7.5    | 7.5    | 3.8    | 3.8    | 3.8    | 3.8    |
| 87.5° | 7.5    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 |
| 2.5°  | 2502.9 | 2499.2 | 2495.4 | 2491.7 | 2491.7 | 2484.2 | 2484.2 | 2480.3 | 2472.8 | 2469.1 | 2469.1 |
| 5°    | 2480.3 | 2469.1 | 2461.6 | 2457.8 | 2454.1 | 2442.8 | 2439.0 | 2431.5 | 2423.9 | 2416.4 | 2412.7 |
| 7.5°  | 2446.5 | 2427.8 | 2420.2 | 2416.4 | 2405.2 | 2393.9 | 2386.4 | 2375.2 | 2363.8 | 2352.6 | 2348.8 |
| 10°   | 2405.2 | 2386.4 | 2367.6 | 2360.1 | 2348.8 | 2341.3 | 2326.3 | 2311.2 | 2299.9 | 2288.7 | 2277.4 |
| 12.5° | 2352.6 | 2330.1 | 2311.2 | 2303.7 | 2292.4 | 2277.4 | 2254.8 | 2247.3 | 2228.6 | 2221.1 | 2206.1 |
| 15°   | 2292.4 | 2266.2 | 2247.3 | 2236.1 | 2224.8 | 2202.3 | 2187.2 | 2172.2 | 2153.4 | 2145.9 | 2130.8 |
| 17.5° | 2217.3 | 2187.2 | 2168.4 | 2157.2 | 2149.7 | 2130.8 | 2108.3 | 2089.6 | 2070.7 | 2063.2 | 2051.9 |
| 20°   | 2127.1 | 2108.3 | 2081.9 | 2070.7 | 2063.2 | 2040.7 | 2018.1 | 2010.6 | 1995.6 | 1980.6 | 1969.2 |
| 22.5° | 2025.6 | 2006.8 | 1980.6 | 1969.2 | 1965.4 | 1946.7 | 1927.9 | 1916.7 | 1905.3 | 1894.1 | 1882.8 |
| 25°   | 1920.4 | 1897.8 | 1875.3 | 1867.8 | 1860.3 | 1845.2 | 1830.2 | 1822.7 | 1811.4 | 1803.9 | 1796.3 |
| 27.5° | 1807.7 | 1785.1 | 1766.3 | 1755.1 | 1747.6 | 1736.2 | 1728.7 | 1721.2 | 1713.7 | 1706.2 | 1702.4 |
| 30°   | 1687.4 | 1664.8 | 1649.8 | 1642.3 | 1634.8 | 1631.1 | 1619.7 | 1616.0 | 1612.2 | 1604.7 | 1608.5 |
| 32.5° | 1567.1 | 1548.3 | 1533.3 | 1522.1 | 1522.1 | 1514.6 | 1510.7 | 1510.7 | 1507.0 | 1507.0 | 1507.0 |
| 35°   | 1435.6 | 1424.3 | 1413.1 | 1409.3 | 1405.6 | 1401.8 | 1398.0 | 1401.8 | 1398.0 | 1401.8 | 1405.6 |
| 37.5° | 1315.3 | 1304.1 | 1296.6 | 1292.8 | 1289.1 | 1292.8 | 1289.1 | 1289.1 | 1292.8 | 1300.3 | 1304.1 |
| 40°   | 1191.3 | 1183.8 | 1176.3 | 1180.1 | 1176.3 | 1176.3 | 1176.3 | 1187.6 | 1191.3 | 1195.1 | 1198.8 |
| 42.5° | 1074.8 | 1067.3 | 1063.6 | 1063.6 | 1067.3 | 1063.6 | 1071.1 | 1074.8 | 1082.3 | 1093.6 | 1101.1 |
| 45°   | 962.1  | 958.3  | 958.3  | 962.1  | 958.3  | 965.8  | 965.8  | 973.3  | 984.6  | 992.1  | 999.7  |
| 47.5° | 856.8  | 856.8  | 856.8  | 860.6  | 860.6  | 864.4  | 871.9  | 875.6  | 883.1  | 890.7  | 898.2  |
| 50°   | 759.1  | 762.9  | 766.6  | 766.6  | 766.6  | 774.2  | 781.7  | 785.5  | 789.2  | 793.0  | 804.2  |
| 52.5° | 672.7  | 676.5  | 676.5  | 680.2  | 684.0  | 687.7  | 691.5  | 699.0  | 702.7  | 710.2  | 714.1  |
| 55°   | 590.0  | 590.0  | 597.5  | 601.4  | 601.4  | 601.4  | 608.9  | 608.9  | 616.4  | 620.1  | 627.6  |
| 57.5° | 511.1  | 514.9  | 514.9  | 518.6  | 518.6  | 522.4  | 526.1  | 529.9  | 533.6  | 537.4  | 541.1  |
| 60°   | 436.0  | 436.0  | 436.0  | 439.7  | 443.5  | 447.2  | 443.5  | 451.0  | 451.0  | 458.5  | 462.2  |
| 62.5° | 364.5  | 368.2  | 368.2  | 368.2  | 368.2  | 368.2  | 368.2  | 372.1  | 375.9  | 379.6  | 383.4  |
| 65°   | 296.9  | 296.9  | 296.9  | 293.1  | 296.9  | 293.1  | 296.9  | 300.6  | 300.6  | 304.4  | 308.1  |
| 67.5° | 229.2  | 229.2  | 221.7  | 221.7  | 225.5  | 225.5  | 225.5  | 225.5  | 221.7  | 229.2  | 229.2  |
| 70°   | 165.4  | 161.6  | 157.9  | 154.1  | 154.1  | 150.4  | 150.4  | 146.6  | 146.6  | 146.6  | 146.6  |
| 72.5° | 109.0  | 101.5  | 94.0   | 90.2   | 86.5   | 86.5   | 78.9   | 75.1   | 78.9   | 78.9   | 78.9   |
| 75°   | 56.4   | 48.9   | 45.1   | 41.4   | 37.6   | 37.6   | 33.9   | 33.9   | 33.9   | 33.9   | 33.9   |
| 77.5° | 22.5   | 18.8   | 15.0   | 15.0   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   |
| 80°   | 7.5    | 7.5    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 82.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 85°   | 3.8    | 0.0    | 0.0    | 3.8    | 0.0    | 3.8    | 3.8    | 3.8    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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: P584963

CATALOG NUMBER: HCC8S55D010SL-HM82555835-81WWBB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 | 2514.2 |
| 2.5°  | 2465.3 | 2465.3 | 2461.6 | 2465.3 | 2457.8 | 2461.6 | 2457.8 | 2457.8 |
| 5°    | 2408.9 | 2401.4 | 2401.4 | 2401.4 | 2397.7 | 2397.7 | 2393.9 | 2393.9 |
| 7.5°  | 2341.3 | 2337.6 | 2333.8 | 2330.1 | 2326.3 | 2322.6 | 2322.6 | 2322.6 |
| 10°   | 2273.7 | 2266.2 | 2266.2 | 2262.4 | 2254.8 | 2251.1 | 2251.1 | 2251.1 |
| 12.5° | 2194.7 | 2190.9 | 2187.2 | 2187.2 | 2172.2 | 2175.9 | 2172.2 | 2172.2 |
| 15°   | 2119.6 | 2115.8 | 2115.8 | 2104.6 | 2097.1 | 2097.1 | 2097.1 | 2093.3 |
| 17.5° | 2040.7 | 2036.9 | 2033.2 | 2025.6 | 2018.1 | 2018.1 | 2014.3 | 2018.1 |
| 20°   | 1957.9 | 1954.2 | 1946.7 | 1946.7 | 1942.9 | 1939.2 | 1931.7 | 1935.4 |
| 22.5° | 1875.3 | 1867.8 | 1864.1 | 1864.1 | 1860.3 | 1860.3 | 1852.7 | 1852.7 |
| 25°   | 1788.8 | 1785.1 | 1781.3 | 1785.1 | 1777.6 | 1777.6 | 1770.1 | 1770.1 |
| 27.5° | 1698.7 | 1694.9 | 1694.9 | 1694.9 | 1691.2 | 1694.9 | 1691.2 | 1691.2 |
| 30°   | 1608.5 | 1608.5 | 1604.7 | 1604.7 | 1608.5 | 1604.7 | 1608.5 | 1612.2 |
| 32.5° | 1510.7 | 1510.7 | 1514.6 | 1514.6 | 1518.3 | 1518.3 | 1518.3 | 1518.3 |
| 35°   | 1409.3 | 1416.8 | 1416.8 | 1420.6 | 1424.3 | 1428.1 | 1428.1 | 1431.8 |
| 37.5° | 1315.3 | 1319.1 | 1322.8 | 1326.6 | 1334.1 | 1334.1 | 1334.1 | 1334.1 |
| 40°   | 1213.8 | 1217.6 | 1225.1 | 1221.3 | 1236.5 | 1240.2 | 1236.5 | 1236.5 |
| 42.5° | 1108.6 | 1116.2 | 1120.0 | 1127.5 | 1131.2 | 1138.7 | 1142.5 | 1142.5 |
| 45°   | 1011.0 | 1014.7 | 1022.2 | 1029.7 | 1033.5 | 1044.7 | 1044.7 | 1044.7 |
| 47.5° | 909.5  | 917.0  | 920.7  | 928.2  | 932.0  | 943.3  | 947.1  | 943.3  |
| 50°   | 811.7  | 819.2  | 826.7  | 826.7  | 838.1  | 841.8  | 849.3  | 853.1  |
| 52.5° | 717.8  | 721.6  | 729.1  | 732.9  | 740.4  | 747.9  | 751.6  | 755.4  |
| 55°   | 627.6  | 631.4  | 638.9  | 638.9  | 650.1  | 653.9  | 661.5  | 661.5  |
| 57.5° | 545.0  | 548.7  | 556.2  | 552.5  | 560.0  | 567.5  | 567.5  | 563.7  |
| 60°   | 466.0  | 466.0  | 466.0  | 473.5  | 477.2  | 481.0  | 484.7  | 484.7  |
| 62.5° | 383.4  | 390.9  | 394.6  | 394.6  | 398.4  | 402.1  | 402.1  | 398.4  |
| 65°   | 308.1  | 315.7  | 319.5  | 319.5  | 323.2  | 323.2  | 323.2  | 327.0  |
| 67.5° | 233.0  | 233.0  | 233.0  | 236.7  | 233.0  | 233.0  | 233.0  | 233.0  |
| 70°   | 146.6  | 146.6  | 146.6  | 146.6  | 142.9  | 146.6  | 146.6  | 150.4  |
| 72.5° | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   | 78.9   |
| 75°   | 33.9   | 33.9   | 33.9   | 37.6   | 33.9   | 33.9   | 33.9   | 33.9   |
| 77.5° | 15.0   | 11.3   | 15.0   | 15.0   | 11.3   | 11.3   | 11.3   | 11.3   |
| 80°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 82.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 85°   | 0.0    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)