

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: P593923

Luminaire Tested: **HCC8S80D010MW-HM86080950-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S80D010MW-HM86080950-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

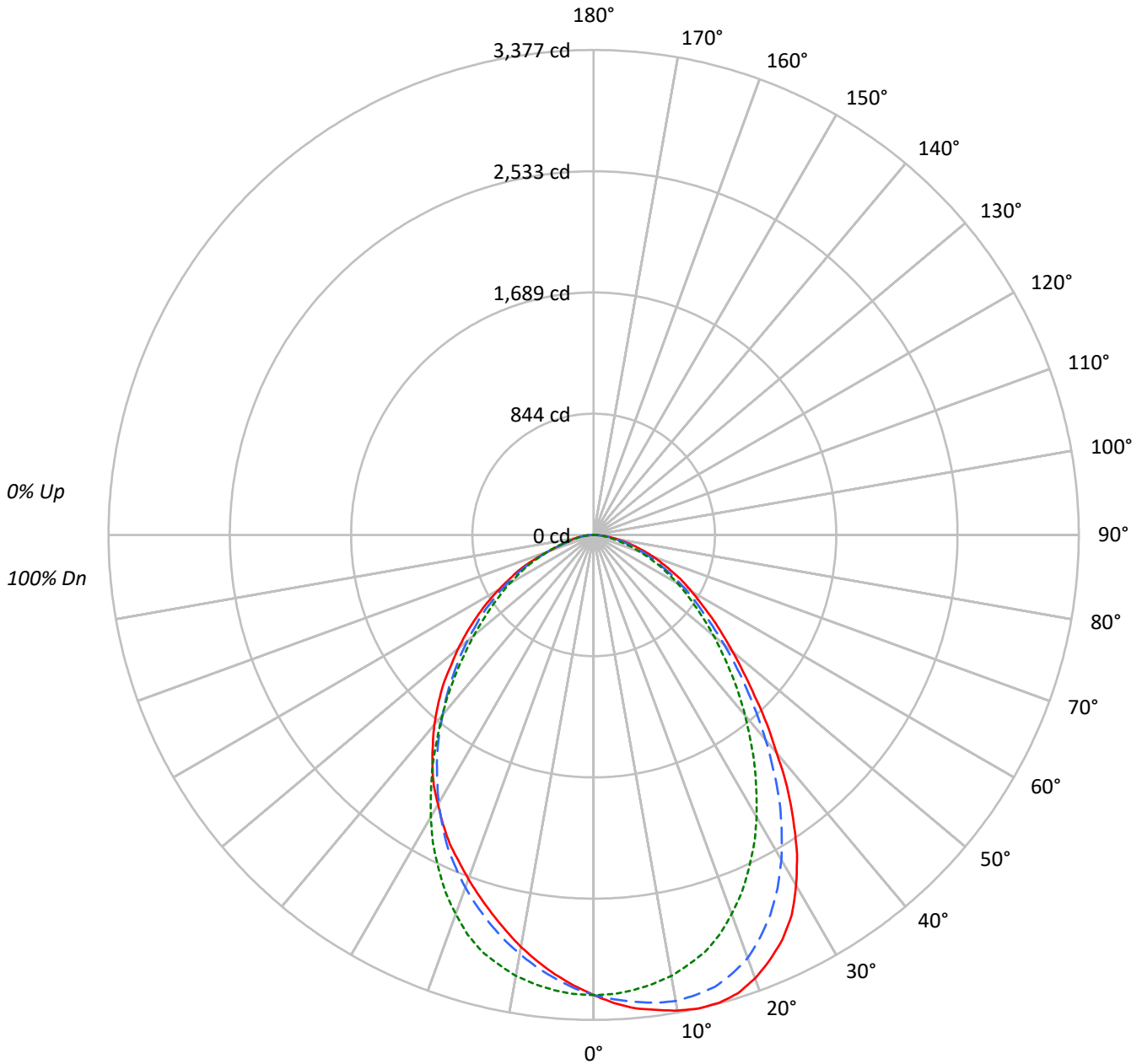
Lumens per Lamp: N/A
Luminaire Lumens: 6444.5 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): 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: P593923
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Luminous Intensity Polar Plot





TEST NUMBER: P593923

CATALOG NUMBER: HCC8S80D010MW-HM86080950-81WWWB

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | 75 | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | 65 | | | |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | | 57 | | | |
| 5 | 80 | 69 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | | | 50 | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | 45 | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 | | | | | 40 | | | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | | | | | 37 | | | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | 30 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 98806 | 98806 | 98806 |
| 5° | 102427 | 98480 | 95100 |
| 10° | 105321 | 97625 | 91209 |
| 15° | 107667 | 95900 | 87182 |
| 20° | 107838 | 92155 | 83643 |
| 25° | 105767 | 87030 | 80681 |
| 30° | 100315 | 80706 | 77142 |
| 35° | 91152 | 73504 | 73673 |
| 40° | 79699 | 65960 | 69438 |
| 45° | 69073 | 58755 | 64707 |
| 50° | 60484 | 52185 | 58959 |
| 55° | 53837 | 46246 | 53342 |
| 60° | 48561 | 41543 | 46877 |
| 65° | 43837 | 36534 | 40846 |
| 70° | 39400 | 30780 | 30366 |
| 75° | 34706 | 24412 | 22780 |
| 80° | 29087 | 20209 | 21824 |
| 85° | 22538 | 17726 | 19318 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 302.3 | 4.7 |
| 10°-20° | 851.4 | 13.2 |
| 20°-30° | 1216.8 | 18.9 |
| 30°-40° | 1292.9 | 20.1 |
| 40°-50° | 1113.1 | 17.3 |
| 50°-60° | 832.2 | 12.9 |
| 60°-70° | 530.8 | 8.2 |
| 70°-80° | 241.6 | 3.7 |
| 80°-90° | 63.4 | 1.0 |
| 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° | 2370.5 | 36.8 |
| 0°-40° | 3663.3 | 56.8 |
| 0°-60° | 5608.7 | 87.0 |
| 0°-90° | 6444.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6444.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3204 | 3204 | 3204 | 3204 | 3204 | |
| 5° | 3309 | 3263 | 3182 | 3100 | 3072 | 317 |
| 15° | 3373 | 3259 | 3004 | 2799 | 2731 | 950 |
| 25° | 3109 | 2913 | 2558 | 2403 | 2371 | 1423 |
| 35° | 2421 | 2253 | 1953 | 1902 | 1957 | 1508 |
| 45° | 1584 | 1497 | 1347 | 1384 | 1484 | 1231 |
| 55° | 1001 | 920 | 860 | 933 | 992 | 900 |
| 65° | 601 | 533 | 501 | 523 | 560 | 599 |
| 75° | 291 | 250 | 205 | 187 | 191 | 310 |
| 85° | 64 | 55 | 50 | 55 | 55 | 77 |
| 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° | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5° | 3263.4 | 3254.3 | 3258.8 | 3254.3 | 3258.8 | 3258.8 | 3249.8 | 3249.8 | 3249.8 | 3249.8 | 3236.1 |
| 5° | 3309.0 | 3304.3 | 3304.3 | 3299.8 | 3295.3 | 3299.8 | 3295.3 | 3290.7 | 3281.6 | 3277.1 | 3263.4 |
| 7.5° | 3336.2 | 3336.2 | 3336.2 | 3336.2 | 3331.7 | 3327.2 | 3322.5 | 3313.5 | 3304.3 | 3295.3 | 3286.2 |
| 10° | 3363.6 | 3368.1 | 3363.6 | 3359.0 | 3354.4 | 3345.4 | 3340.7 | 3331.7 | 3318.0 | 3304.3 | 3295.3 |
| 12.5° | 3377.2 | 3377.2 | 3372.6 | 3372.6 | 3363.6 | 3359.0 | 3345.4 | 3331.7 | 3318.0 | 3304.3 | 3281.6 |
| 15° | 3372.6 | 3372.6 | 3368.1 | 3363.6 | 3349.9 | 3345.4 | 3336.2 | 3322.5 | 3299.8 | 3281.6 | 3258.8 |
| 17.5° | 3345.4 | 3340.7 | 3331.7 | 3331.7 | 3313.5 | 3309.0 | 3299.8 | 3281.6 | 3258.8 | 3231.6 | 3204.2 |
| 20° | 3286.2 | 3286.2 | 3281.6 | 3277.1 | 3258.8 | 3245.3 | 3236.1 | 3213.4 | 3195.2 | 3163.3 | 3136.0 |
| 22.5° | 3204.2 | 3213.4 | 3204.2 | 3195.2 | 3172.4 | 3167.9 | 3154.2 | 3126.8 | 3099.6 | 3063.1 | 3031.2 |
| 25° | 3108.6 | 3104.1 | 3099.6 | 3090.4 | 3072.3 | 3063.1 | 3044.9 | 3017.7 | 2990.3 | 2949.3 | 2912.9 |
| 27.5° | 2985.8 | 2967.6 | 2967.6 | 2949.3 | 2935.8 | 2922.1 | 2912.9 | 2885.6 | 2849.2 | 2817.3 | 2771.8 |
| 30° | 2817.3 | 2822.0 | 2799.1 | 2794.6 | 2771.8 | 2762.8 | 2744.6 | 2717.2 | 2685.4 | 2649.0 | 2612.6 |
| 32.5° | 2635.3 | 2621.6 | 2621.6 | 2603.4 | 2585.2 | 2571.6 | 2567.1 | 2535.2 | 2507.8 | 2471.5 | 2435.1 |
| 35° | 2421.4 | 2421.4 | 2407.7 | 2403.2 | 2385.0 | 2375.9 | 2362.2 | 2344.0 | 2312.1 | 2280.3 | 2253.0 |
| 37.5° | 2212.0 | 2202.9 | 2198.3 | 2189.3 | 2175.6 | 2162.0 | 2162.0 | 2130.1 | 2125.6 | 2089.1 | 2052.7 |
| 40° | 1979.9 | 1989.0 | 1979.9 | 1966.2 | 1961.7 | 1952.6 | 1948.1 | 1929.9 | 1916.2 | 1884.3 | 1861.5 |
| 42.5° | 1784.2 | 1775.1 | 1775.1 | 1770.5 | 1752.3 | 1752.3 | 1743.2 | 1734.2 | 1711.3 | 1702.3 | 1674.9 |
| 45° | 1583.9 | 1593.0 | 1579.3 | 1583.9 | 1565.7 | 1565.7 | 1565.7 | 1547.5 | 1529.3 | 1515.6 | 1497.4 |
| 47.5° | 1411.0 | 1415.5 | 1415.5 | 1401.8 | 1397.3 | 1397.3 | 1388.2 | 1379.1 | 1365.4 | 1347.3 | 1333.6 |
| 50° | 1260.8 | 1265.3 | 1256.2 | 1251.7 | 1242.5 | 1238.0 | 1238.0 | 1219.8 | 1210.6 | 1192.4 | 1183.4 |
| 52.5° | 1124.2 | 1124.2 | 1119.7 | 1119.7 | 1106.0 | 1106.0 | 1096.9 | 1083.3 | 1074.1 | 1065.1 | 1042.3 |
| 55° | 1001.4 | 1001.4 | 996.7 | 992.2 | 992.2 | 978.5 | 974.0 | 960.4 | 951.3 | 933.0 | 919.5 |
| 57.5° | 883.0 | 887.6 | 883.0 | 878.4 | 873.9 | 869.3 | 860.2 | 846.6 | 837.5 | 823.9 | 814.7 |
| 60° | 787.4 | 787.4 | 782.8 | 778.3 | 769.2 | 764.6 | 760.1 | 751.0 | 737.3 | 728.3 | 714.6 |
| 62.5° | 696.4 | 691.9 | 687.2 | 682.7 | 673.6 | 673.6 | 664.5 | 655.4 | 641.7 | 632.7 | 623.5 |
| 65° | 600.8 | 600.8 | 596.3 | 596.3 | 591.6 | 582.6 | 578.1 | 573.5 | 555.3 | 550.7 | 532.6 |
| 67.5° | 514.4 | 518.9 | 509.7 | 509.7 | 500.7 | 500.7 | 496.2 | 482.5 | 477.9 | 468.8 | 459.7 |
| 70° | 437.0 | 437.0 | 437.0 | 432.4 | 423.3 | 418.8 | 414.1 | 405.1 | 400.6 | 391.4 | 382.4 |
| 72.5° | 359.6 | 359.6 | 355.0 | 355.0 | 350.5 | 345.9 | 341.4 | 332.2 | 332.2 | 323.2 | 314.0 |
| 75° | 291.3 | 291.3 | 286.8 | 282.1 | 277.6 | 277.6 | 273.1 | 268.6 | 259.4 | 254.9 | 250.3 |
| 77.5° | 223.1 | 223.1 | 223.1 | 218.4 | 213.9 | 213.9 | 213.9 | 204.9 | 195.7 | 195.7 | 191.2 |
| 80° | 163.8 | 163.8 | 159.3 | 159.3 | 154.8 | 154.8 | 154.8 | 150.2 | 145.7 | 141.1 | 136.5 |
| 82.5° | 109.3 | 109.3 | 109.3 | 109.3 | 104.6 | 104.6 | 104.6 | 100.1 | 95.6 | 95.6 | 95.6 |
| 85° | 63.7 | 63.7 | 63.7 | 63.7 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 54.6 | 54.6 |
| 87.5° | 27.3 | 22.7 | 27.3 | 22.7 | 27.3 | 22.7 | 27.3 | 22.7 | 22.7 | 22.7 | 22.7 |
| 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° | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5° | 3240.6 | 3236.1 | 3231.6 | 3226.9 | 3226.9 | 3222.4 | 3213.4 | 3208.8 | 3204.2 | 3199.7 | 3199.7 |
| 5° | 3258.8 | 3254.3 | 3245.3 | 3236.1 | 3231.6 | 3222.4 | 3213.4 | 3204.2 | 3195.2 | 3181.5 | 3176.9 |
| 7.5° | 3272.5 | 3258.8 | 3249.8 | 3231.6 | 3226.9 | 3217.9 | 3204.2 | 3190.6 | 3172.4 | 3154.2 | 3140.5 |
| 10° | 3272.5 | 3254.3 | 3240.6 | 3217.9 | 3208.8 | 3199.7 | 3181.5 | 3158.7 | 3136.0 | 3117.8 | 3095.0 |
| 12.5° | 3263.4 | 3240.6 | 3217.9 | 3195.2 | 3181.5 | 3167.9 | 3140.5 | 3117.8 | 3090.4 | 3063.1 | 3044.9 |
| 15° | 3231.6 | 3204.2 | 3176.9 | 3149.7 | 3136.0 | 3117.8 | 3090.4 | 3058.6 | 3031.2 | 3004.0 | 2972.1 |
| 17.5° | 3172.4 | 3145.0 | 3113.2 | 3081.4 | 3063.1 | 3049.5 | 3008.5 | 2985.8 | 2944.8 | 2917.4 | 2890.2 |
| 20° | 3095.0 | 3063.1 | 3022.2 | 2990.3 | 2967.6 | 2954.0 | 2922.1 | 2881.1 | 2849.2 | 2808.3 | 2781.0 |
| 22.5° | 2994.9 | 2954.0 | 2912.9 | 2881.1 | 2858.4 | 2840.2 | 2799.1 | 2758.2 | 2730.9 | 2694.5 | 2662.6 |
| 25° | 2876.5 | 2835.5 | 2794.6 | 2749.1 | 2726.4 | 2708.2 | 2671.7 | 2635.3 | 2598.9 | 2557.9 | 2530.7 |
| 27.5° | 2735.4 | 2689.9 | 2653.5 | 2612.6 | 2589.8 | 2562.5 | 2521.5 | 2485.1 | 2448.7 | 2421.4 | 2385.0 |
| 30° | 2580.7 | 2530.7 | 2494.2 | 2453.3 | 2430.4 | 2407.7 | 2366.8 | 2330.3 | 2298.5 | 2266.6 | 2248.4 |
| 32.5° | 2394.1 | 2357.7 | 2321.3 | 2280.3 | 2262.1 | 2248.4 | 2207.5 | 2171.1 | 2134.6 | 2107.4 | 2093.7 |
| 35° | 2216.5 | 2175.6 | 2143.8 | 2107.4 | 2084.6 | 2070.9 | 2034.5 | 2002.6 | 1984.4 | 1952.6 | 1934.4 |
| 37.5° | 2030.0 | 1998.1 | 1961.7 | 1925.2 | 1911.7 | 1898.0 | 1870.7 | 1838.8 | 1811.4 | 1788.7 | 1779.6 |
| 40° | 1834.3 | 1806.9 | 1775.1 | 1752.3 | 1738.7 | 1725.0 | 1702.3 | 1679.5 | 1661.3 | 1638.6 | 1629.4 |
| 42.5° | 1647.6 | 1629.4 | 1602.2 | 1574.8 | 1561.2 | 1556.6 | 1529.3 | 1511.1 | 1501.9 | 1492.9 | 1483.8 |
| 45° | 1479.2 | 1451.9 | 1433.7 | 1415.5 | 1401.8 | 1392.8 | 1379.1 | 1365.4 | 1356.3 | 1347.3 | 1338.1 |
| 47.5° | 1315.4 | 1292.6 | 1274.4 | 1260.8 | 1247.1 | 1242.5 | 1233.5 | 1219.8 | 1210.6 | 1210.6 | 1210.6 |
| 50° | 1165.2 | 1147.0 | 1128.7 | 1119.7 | 1115.2 | 1106.0 | 1096.9 | 1092.3 | 1087.8 | 1087.8 | 1087.8 |
| 52.5° | 1033.2 | 1014.9 | 1001.4 | 992.2 | 992.2 | 983.1 | 974.0 | 969.5 | 969.5 | 969.5 | 969.5 |
| 55° | 910.3 | 896.6 | 887.6 | 878.4 | 869.3 | 864.8 | 864.8 | 864.8 | 860.2 | 860.2 | 864.8 |
| 57.5° | 801.0 | 792.0 | 778.3 | 769.2 | 764.6 | 764.6 | 760.1 | 755.5 | 760.1 | 764.6 | 769.2 |
| 60° | 700.9 | 691.9 | 687.2 | 673.6 | 673.6 | 673.6 | 669.1 | 669.1 | 669.1 | 673.6 | 678.2 |
| 62.5° | 610.0 | 605.3 | 596.3 | 591.6 | 587.1 | 587.1 | 582.6 | 582.6 | 582.6 | 582.6 | 587.1 |
| 65° | 527.9 | 518.9 | 509.7 | 509.7 | 509.7 | 505.2 | 505.2 | 496.2 | 500.7 | 500.7 | 496.2 |
| 67.5° | 450.6 | 441.5 | 437.0 | 432.4 | 427.8 | 427.8 | 423.3 | 418.8 | 414.1 | 414.1 | 414.1 |
| 70° | 377.7 | 368.7 | 368.7 | 359.6 | 359.6 | 355.0 | 350.5 | 350.5 | 345.9 | 341.4 | 336.8 |
| 72.5° | 305.0 | 300.3 | 295.8 | 291.3 | 291.3 | 291.3 | 286.8 | 282.1 | 277.6 | 273.1 | 264.0 |
| 75° | 241.2 | 241.2 | 232.1 | 227.6 | 227.6 | 223.1 | 218.4 | 213.9 | 209.4 | 204.9 | 200.2 |
| 77.5° | 186.6 | 182.0 | 173.0 | 168.4 | 168.4 | 168.4 | 163.8 | 159.3 | 154.8 | 150.2 | 145.7 |
| 80° | 136.5 | 132.0 | 127.5 | 122.9 | 122.9 | 122.9 | 118.3 | 118.3 | 113.8 | 113.8 | 113.8 |
| 82.5° | 91.1 | 91.1 | 86.4 | 86.4 | 86.4 | 86.4 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 |
| 85° | 54.6 | 54.6 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| 87.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5° | 3190.6 | 3190.6 | 3181.5 | 3176.9 | 3172.4 | 3176.9 | 3167.9 | 3163.3 | 3158.7 | 3158.7 | 3154.2 |
| 5° | 3163.3 | 3158.7 | 3140.5 | 3136.0 | 3131.5 | 3126.8 | 3117.8 | 3108.6 | 3099.6 | 3095.0 | 3090.4 |
| 7.5° | 3126.8 | 3113.2 | 3095.0 | 3090.4 | 3085.9 | 3072.3 | 3058.6 | 3049.5 | 3035.9 | 3031.2 | 3022.2 |
| 10° | 3076.8 | 3058.6 | 3044.9 | 3031.2 | 3022.2 | 3008.5 | 2994.9 | 2981.2 | 2963.0 | 2958.5 | 2944.8 |
| 12.5° | 3017.7 | 2994.9 | 2967.6 | 2963.0 | 2949.3 | 2931.1 | 2912.9 | 2899.3 | 2885.6 | 2876.5 | 2862.9 |
| 15° | 2944.8 | 2922.1 | 2894.7 | 2881.1 | 2867.4 | 2853.8 | 2831.0 | 2812.8 | 2799.1 | 2785.5 | 2771.8 |
| 17.5° | 2858.4 | 2831.0 | 2808.3 | 2794.6 | 2785.5 | 2762.8 | 2744.6 | 2721.7 | 2708.2 | 2694.5 | 2680.8 |
| 20° | 2753.6 | 2730.9 | 2699.0 | 2685.4 | 2680.8 | 2662.6 | 2639.8 | 2630.8 | 2612.6 | 2598.9 | 2589.8 |
| 22.5° | 2635.3 | 2612.6 | 2585.2 | 2576.1 | 2557.9 | 2548.9 | 2526.0 | 2517.0 | 2507.8 | 2494.2 | 2489.6 |
| 25° | 2503.3 | 2480.6 | 2457.8 | 2453.3 | 2439.6 | 2430.4 | 2416.9 | 2403.2 | 2403.2 | 2389.5 | 2389.5 |
| 27.5° | 2366.8 | 2344.0 | 2325.8 | 2316.6 | 2312.1 | 2303.1 | 2289.4 | 2284.9 | 2280.3 | 2275.7 | 2275.7 |
| 30° | 2221.2 | 2193.8 | 2184.7 | 2180.2 | 2175.6 | 2166.5 | 2162.0 | 2152.8 | 2157.4 | 2162.0 | 2157.4 |
| 32.5° | 2066.4 | 2057.3 | 2039.0 | 2030.0 | 2034.5 | 2030.0 | 2020.8 | 2030.0 | 2025.5 | 2034.5 | 2039.0 |
| 35° | 1916.2 | 1907.0 | 1898.0 | 1898.0 | 1888.8 | 1888.8 | 1888.8 | 1893.4 | 1902.5 | 1907.0 | 1916.2 |
| 37.5° | 1770.5 | 1756.9 | 1752.3 | 1747.7 | 1752.3 | 1752.3 | 1752.3 | 1761.4 | 1770.5 | 1779.6 | 1793.2 |
| 40° | 1615.7 | 1606.7 | 1606.7 | 1606.7 | 1606.7 | 1620.4 | 1615.7 | 1624.9 | 1633.9 | 1647.6 | 1661.3 |
| 42.5° | 1470.1 | 1470.1 | 1474.7 | 1474.7 | 1474.7 | 1474.7 | 1483.8 | 1497.4 | 1511.1 | 1524.8 | 1538.4 |
| 45° | 1333.6 | 1333.6 | 1333.6 | 1342.7 | 1342.7 | 1347.3 | 1365.4 | 1374.6 | 1383.6 | 1397.3 | 1411.0 |
| 47.5° | 1206.1 | 1206.1 | 1210.6 | 1215.3 | 1219.8 | 1229.0 | 1238.0 | 1251.7 | 1265.3 | 1274.4 | 1288.0 |
| 50° | 1087.8 | 1092.3 | 1101.5 | 1110.5 | 1110.5 | 1115.2 | 1128.7 | 1137.9 | 1147.0 | 1160.6 | 1165.2 |
| 52.5° | 974.0 | 983.1 | 992.2 | 996.7 | 1001.4 | 1010.4 | 1014.9 | 1028.6 | 1033.2 | 1046.8 | 1051.4 |
| 55° | 869.3 | 873.9 | 887.6 | 892.1 | 892.1 | 901.1 | 910.3 | 919.5 | 933.0 | 933.0 | 942.2 |
| 57.5° | 773.8 | 778.3 | 787.4 | 792.0 | 787.4 | 801.0 | 805.7 | 814.7 | 819.2 | 828.4 | 832.9 |
| 60° | 678.2 | 687.2 | 691.9 | 691.9 | 696.4 | 700.9 | 710.1 | 710.1 | 719.1 | 728.3 | 728.3 |
| 62.5° | 587.1 | 591.6 | 596.3 | 600.8 | 605.3 | 600.8 | 614.5 | 614.5 | 623.5 | 628.1 | 637.2 |
| 65° | 500.7 | 505.2 | 505.2 | 509.7 | 509.7 | 514.4 | 514.4 | 518.9 | 523.4 | 532.6 | 537.1 |
| 67.5° | 414.1 | 414.1 | 414.1 | 418.8 | 414.1 | 418.8 | 418.8 | 423.3 | 423.3 | 432.4 | 437.0 |
| 70° | 336.8 | 332.2 | 327.7 | 327.7 | 327.7 | 327.7 | 323.2 | 327.7 | 327.7 | 332.2 | 332.2 |
| 72.5° | 259.4 | 254.9 | 250.3 | 245.8 | 245.8 | 241.2 | 236.7 | 241.2 | 241.2 | 245.8 | 245.8 |
| 75° | 195.7 | 186.6 | 186.6 | 186.6 | 182.0 | 182.0 | 182.0 | 186.6 | 186.6 | 186.6 | 191.2 |
| 77.5° | 145.7 | 145.7 | 141.1 | 141.1 | 141.1 | 145.7 | 145.7 | 150.2 | 150.2 | 150.2 | 150.2 |
| 80° | 109.3 | 113.8 | 113.8 | 113.8 | 113.8 | 118.3 | 118.3 | 118.3 | 118.3 | 122.9 | 122.9 |
| 82.5° | 81.9 | 81.9 | 81.9 | 81.9 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 |
| 85° | 50.1 | 54.6 | 54.6 | 50.1 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 |
| 87.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 |
| 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: P593923

CATALOG NUMBER: HCC8S80D010MW-HM86080950-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 | 3204.2 |
| 2.5° | 3149.7 | 3149.7 | 3149.7 | 3149.7 | 3145.0 | 3145.0 | 3145.0 | 3140.5 |
| 5° | 3081.4 | 3081.4 | 3081.4 | 3072.3 | 3076.8 | 3076.8 | 3067.7 | 3072.3 |
| 7.5° | 3013.0 | 3008.5 | 3004.0 | 3004.0 | 2999.4 | 2994.9 | 2990.3 | 2994.9 |
| 10° | 2935.8 | 2922.1 | 2922.1 | 2917.4 | 2917.4 | 2908.4 | 2908.4 | 2912.9 |
| 12.5° | 2849.2 | 2840.2 | 2840.2 | 2835.5 | 2831.0 | 2826.5 | 2822.0 | 2822.0 |
| 15° | 2762.8 | 2753.6 | 2749.1 | 2744.6 | 2740.1 | 2730.9 | 2735.4 | 2730.9 |
| 17.5° | 2676.3 | 2662.6 | 2662.6 | 2658.0 | 2653.5 | 2644.5 | 2644.5 | 2639.8 |
| 20° | 2576.1 | 2571.6 | 2562.5 | 2567.1 | 2562.5 | 2553.4 | 2548.9 | 2548.9 |
| 22.5° | 2476.0 | 2476.0 | 2471.5 | 2471.5 | 2466.9 | 2462.3 | 2457.8 | 2457.8 |
| 25° | 2380.4 | 2375.9 | 2380.4 | 2380.4 | 2366.8 | 2366.8 | 2366.8 | 2371.3 |
| 27.5° | 2271.2 | 2275.7 | 2271.2 | 2271.2 | 2271.2 | 2271.2 | 2275.7 | 2271.2 |
| 30° | 2162.0 | 2162.0 | 2162.0 | 2166.5 | 2175.6 | 2171.1 | 2171.1 | 2166.5 |
| 32.5° | 2043.7 | 2048.2 | 2048.2 | 2052.7 | 2057.3 | 2066.4 | 2066.4 | 2070.9 |
| 35° | 1925.2 | 1934.4 | 1938.9 | 1934.4 | 1948.1 | 1948.1 | 1957.1 | 1957.1 |
| 37.5° | 1802.4 | 1806.9 | 1816.1 | 1820.6 | 1829.8 | 1834.3 | 1838.8 | 1838.8 |
| 40° | 1670.4 | 1688.6 | 1693.1 | 1697.7 | 1711.3 | 1711.3 | 1716.0 | 1725.0 |
| 42.5° | 1547.5 | 1565.7 | 1570.3 | 1574.8 | 1583.9 | 1597.5 | 1593.0 | 1602.2 |
| 45° | 1429.2 | 1442.9 | 1447.4 | 1451.9 | 1465.6 | 1470.1 | 1470.1 | 1483.8 |
| 47.5° | 1301.7 | 1310.9 | 1315.4 | 1324.4 | 1333.6 | 1342.7 | 1351.8 | 1347.3 |
| 50° | 1174.3 | 1187.9 | 1197.1 | 1201.6 | 1215.3 | 1219.8 | 1224.3 | 1229.0 |
| 52.5° | 1060.5 | 1069.6 | 1074.1 | 1078.7 | 1092.3 | 1096.9 | 1101.5 | 1110.5 |
| 55° | 951.3 | 955.8 | 964.9 | 960.4 | 974.0 | 978.5 | 983.1 | 992.2 |
| 57.5° | 842.0 | 846.6 | 851.1 | 851.1 | 860.2 | 869.3 | 873.9 | 878.4 |
| 60° | 737.3 | 746.5 | 751.0 | 751.0 | 751.0 | 760.1 | 760.1 | 760.1 |
| 62.5° | 641.7 | 641.7 | 646.3 | 646.3 | 655.4 | 655.4 | 655.4 | 655.4 |
| 65° | 541.6 | 546.2 | 550.7 | 550.7 | 559.8 | 555.3 | 564.4 | 559.8 |
| 67.5° | 437.0 | 437.0 | 446.0 | 446.0 | 441.5 | 446.0 | 446.0 | 446.0 |
| 70° | 332.2 | 332.2 | 336.8 | 336.8 | 336.8 | 336.8 | 336.8 | 336.8 |
| 72.5° | 245.8 | 245.8 | 245.8 | 250.3 | 245.8 | 245.8 | 250.3 | 245.8 |
| 75° | 191.2 | 191.2 | 191.2 | 191.2 | 191.2 | 191.2 | 191.2 | 191.2 |
| 77.5° | 150.2 | 150.2 | 154.8 | 154.8 | 154.8 | 154.8 | 154.8 | 154.8 |
| 80° | 122.9 | 122.9 | 122.9 | 122.9 | 127.5 | 122.9 | 122.9 | 122.9 |
| 82.5° | 91.1 | 86.4 | 91.1 | 86.4 | 91.1 | 91.1 | 91.1 | 91.1 |
| 85° | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 |
| 87.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Classified
Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



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

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(END OF REPORT)