

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: P585321

Luminaire Tested: **HCC8S80D010MB-HM86080940-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585321
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: HCC8S80D010MB-HM86080940-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

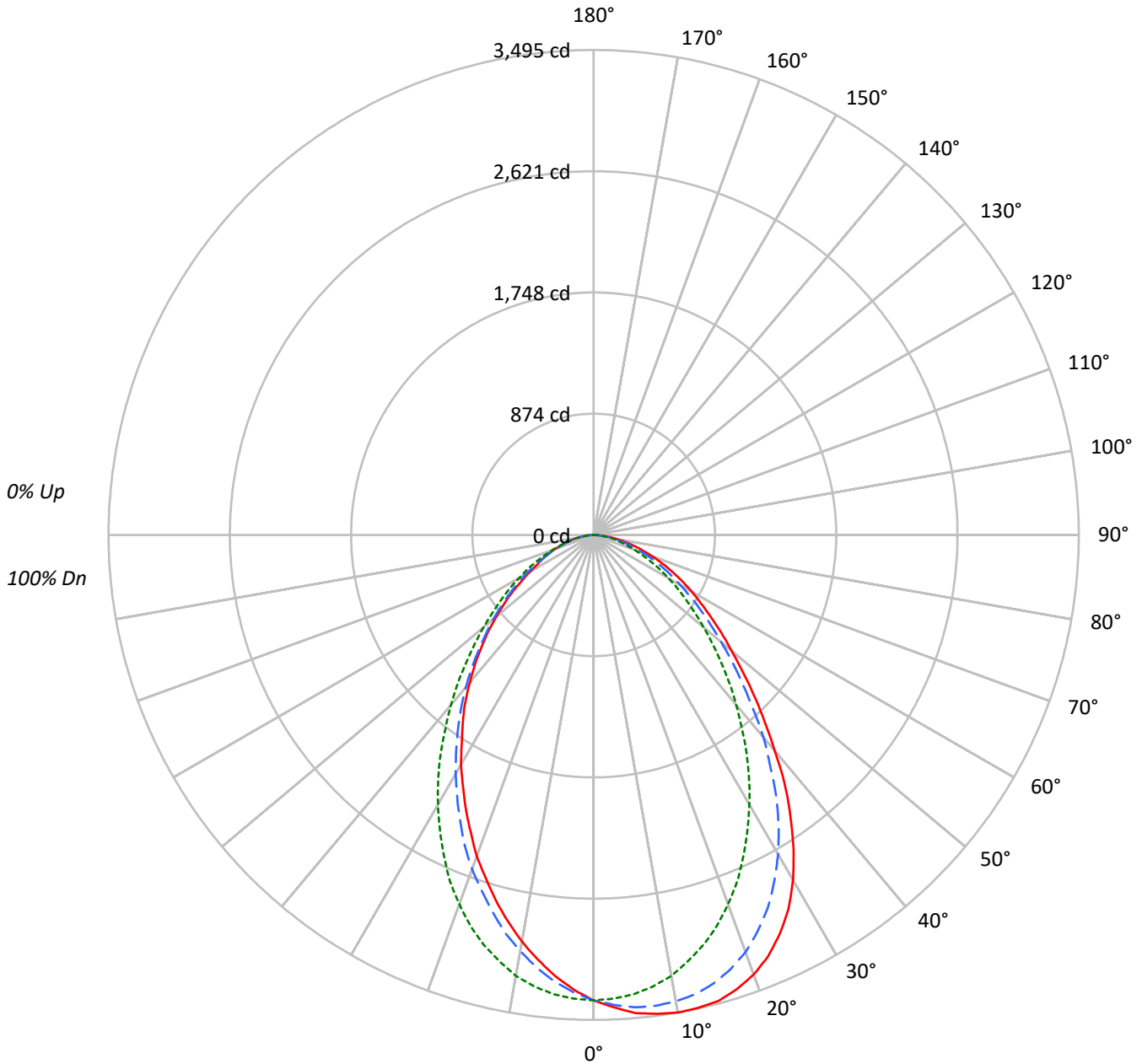
Lumens per Lamp: N/A
Luminaire Lumens: 6189.7 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P585321
CATALOG NUMBER: HCC8S80D010MB-HM86080940-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P585321

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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° | 103419 | 103419 | 103419 |
| 5° | 107058 | 102826 | 98744 |
| 10° | 109432 | 101028 | 93191 |
| 15° | 110994 | 97627 | 87022 |
| 20° | 110653 | 92884 | 80788 |
| 25° | 107918 | 86860 | 74166 |
| 30° | 102241 | 79884 | 68055 |
| 35° | 93019 | 72292 | 61842 |
| 40° | 81699 | 64298 | 55868 |
| 45° | 71244 | 56561 | 49815 |
| 50° | 62000 | 49556 | 43881 |
| 55° | 55294 | 43552 | 38171 |
| 60° | 50239 | 38169 | 32557 |
| 65° | 45158 | 33199 | 29551 |
| 70° | 40211 | 28310 | 26669 |
| 75° | 35242 | 23852 | 22768 |
| 80° | 29904 | 19409 | 20209 |
| 85° | 22538 | 14471 | 16098 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 314.1 | 5.1 |
| 10°-20° | 865.6 | 14.0 |
| 20°-30° | 1201.5 | 19.4 |
| 30°-40° | 1242.2 | 20.1 |
| 40°-50° | 1040.1 | 16.8 |
| 50°-60° | 755.0 | 12.2 |
| 60°-70° | 476.5 | 7.7 |
| 70°-80° | 236.0 | 3.8 |
| 80°-90° | 58.7 | 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° | 2381.1 | 38.5 |
| 0°-40° | 3623.3 | 58.5 |
| 0°-60° | 5418.5 | 87.5 |
| 0°-90° | 6189.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6189.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3354 | 3354 | 3354 | 3354 | 3354 | |
| 5° | 3459 | 3418 | 3322 | 3231 | 3190 | 331 |
| 15° | 3477 | 3345 | 3058 | 2812 | 2726 | 978 |
| 25° | 3172 | 2967 | 2553 | 2275 | 2180 | 1453 |
| 35° | 2471 | 2289 | 1920 | 1702 | 1643 | 1539 |
| 45° | 1634 | 1515 | 1297 | 1170 | 1142 | 1264 |
| 55° | 1028 | 937 | 810 | 742 | 710 | 928 |
| 65° | 619 | 542 | 455 | 400 | 405 | 617 |
| 75° | 296 | 246 | 200 | 191 | 191 | 317 |
| 85° | 64 | 50 | 41 | 46 | 46 | 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° | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 |
| 2.5° | 3408.5 | 3408.5 | 3413.0 | 3408.5 | 3408.5 | 3408.5 | 3403.9 | 3403.9 | 3399.4 | 3399.4 | 3390.2 |
| 5° | 3458.6 | 3449.4 | 3458.6 | 3449.4 | 3449.4 | 3449.4 | 3444.9 | 3435.7 | 3431.2 | 3422.1 | 3417.5 |
| 7.5° | 3481.3 | 3476.8 | 3476.8 | 3472.1 | 3472.1 | 3467.6 | 3463.1 | 3458.6 | 3440.3 | 3435.7 | 3422.1 |
| 10° | 3494.9 | 3490.3 | 3490.3 | 3485.8 | 3476.8 | 3476.8 | 3467.6 | 3463.1 | 3440.3 | 3431.2 | 3413.0 |
| 12.5° | 3490.3 | 3490.3 | 3490.3 | 3485.8 | 3472.1 | 3467.6 | 3458.6 | 3444.9 | 3426.7 | 3408.5 | 3390.2 |
| 15° | 3476.8 | 3476.8 | 3467.6 | 3463.1 | 3449.4 | 3440.3 | 3435.7 | 3413.0 | 3394.8 | 3372.0 | 3344.8 |
| 17.5° | 3431.2 | 3431.2 | 3426.7 | 3417.5 | 3403.9 | 3394.8 | 3385.7 | 3363.0 | 3344.8 | 3308.4 | 3281.0 |
| 20° | 3372.0 | 3367.5 | 3363.0 | 3349.3 | 3335.6 | 3331.1 | 3317.4 | 3285.6 | 3262.9 | 3235.5 | 3199.1 |
| 22.5° | 3285.6 | 3281.0 | 3276.5 | 3267.4 | 3244.7 | 3235.5 | 3226.5 | 3203.6 | 3162.7 | 3135.4 | 3089.9 |
| 25° | 3171.8 | 3171.8 | 3162.7 | 3149.1 | 3126.4 | 3117.2 | 3103.5 | 3080.8 | 3044.4 | 3003.4 | 2967.0 |
| 27.5° | 3039.8 | 3035.3 | 3021.6 | 3012.6 | 2994.4 | 2980.7 | 2958.0 | 2930.6 | 2894.3 | 2862.4 | 2816.9 |
| 30° | 2871.4 | 2871.4 | 2862.4 | 2848.7 | 2826.0 | 2816.9 | 2798.7 | 2766.8 | 2730.4 | 2689.4 | 2657.5 |
| 32.5° | 2680.4 | 2680.4 | 2666.7 | 2657.5 | 2644.0 | 2621.2 | 2616.6 | 2580.2 | 2548.4 | 2516.5 | 2480.1 |
| 35° | 2471.0 | 2475.6 | 2466.5 | 2448.3 | 2425.6 | 2425.6 | 2416.4 | 2384.5 | 2348.2 | 2316.3 | 2288.9 |
| 37.5° | 2261.7 | 2248.0 | 2243.5 | 2234.4 | 2220.7 | 2202.5 | 2193.5 | 2179.8 | 2147.9 | 2125.2 | 2084.2 |
| 40° | 2029.6 | 2034.1 | 2025.1 | 2015.9 | 2011.4 | 1997.8 | 1993.2 | 1970.4 | 1947.7 | 1920.4 | 1902.2 |
| 42.5° | 1820.2 | 1820.2 | 1820.2 | 1811.2 | 1802.0 | 1788.4 | 1783.9 | 1770.2 | 1743.0 | 1724.8 | 1697.4 |
| 45° | 1633.7 | 1620.0 | 1620.0 | 1615.5 | 1611.0 | 1601.8 | 1588.1 | 1579.1 | 1560.9 | 1547.2 | 1515.4 |
| 47.5° | 1451.7 | 1456.2 | 1451.7 | 1447.1 | 1433.5 | 1428.9 | 1424.3 | 1406.1 | 1387.9 | 1374.2 | 1351.5 |
| 50° | 1292.4 | 1301.5 | 1292.4 | 1292.4 | 1283.3 | 1278.8 | 1269.6 | 1255.9 | 1242.4 | 1219.6 | 1196.8 |
| 52.5° | 1160.5 | 1160.5 | 1155.8 | 1151.3 | 1137.6 | 1128.6 | 1124.0 | 1119.4 | 1096.7 | 1078.5 | 1060.4 |
| 55° | 1028.5 | 1033.0 | 1033.0 | 1019.3 | 1014.8 | 1005.7 | 1001.1 | 987.5 | 978.4 | 951.1 | 937.4 |
| 57.5° | 914.7 | 910.2 | 914.7 | 905.5 | 896.5 | 887.4 | 882.8 | 873.7 | 860.1 | 841.9 | 823.6 |
| 60° | 814.6 | 805.4 | 805.4 | 800.9 | 791.9 | 787.2 | 778.2 | 764.5 | 750.9 | 732.7 | 719.0 |
| 62.5° | 714.5 | 710.0 | 705.3 | 700.8 | 691.8 | 687.1 | 682.6 | 668.9 | 655.3 | 641.7 | 628.0 |
| 65° | 618.9 | 618.9 | 614.4 | 605.2 | 600.7 | 596.2 | 591.6 | 582.5 | 564.3 | 555.1 | 541.6 |
| 67.5° | 532.4 | 527.9 | 527.9 | 518.8 | 509.7 | 505.1 | 505.1 | 496.1 | 482.4 | 468.7 | 459.7 |
| 70° | 446.0 | 450.5 | 446.0 | 441.4 | 432.3 | 432.3 | 423.2 | 418.6 | 400.5 | 395.9 | 382.3 |
| 72.5° | 368.6 | 368.6 | 364.1 | 364.1 | 354.9 | 350.4 | 350.4 | 341.2 | 332.2 | 323.1 | 314.0 |
| 75° | 295.8 | 295.8 | 295.8 | 291.2 | 286.7 | 277.6 | 277.6 | 273.0 | 264.0 | 254.8 | 245.8 |
| 77.5° | 232.1 | 227.6 | 227.6 | 222.9 | 218.4 | 213.9 | 213.9 | 209.4 | 200.2 | 195.7 | 186.6 |
| 80° | 168.4 | 163.8 | 163.8 | 163.8 | 154.7 | 159.3 | 154.7 | 150.2 | 145.7 | 141.0 | 136.5 |
| 82.5° | 109.3 | 113.8 | 113.8 | 109.3 | 104.6 | 104.6 | 104.6 | 100.1 | 100.1 | 95.6 | 91.0 |
| 85° | 63.7 | 63.7 | 63.7 | 63.7 | 59.2 | 59.2 | 59.2 | 54.6 | 54.6 | 54.6 | 50.1 |
| 87.5° | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 |
| 2.5° | 3390.2 | 3381.2 | 3376.6 | 3372.0 | 3372.0 | 3367.5 | 3363.0 | 3353.8 | 3353.8 | 3344.8 | 3340.1 |
| 5° | 3408.5 | 3394.8 | 3385.7 | 3376.6 | 3372.0 | 3363.0 | 3353.8 | 3340.1 | 3335.6 | 3321.9 | 3308.4 |
| 7.5° | 3413.0 | 3390.2 | 3381.2 | 3363.0 | 3353.8 | 3344.8 | 3326.6 | 3312.9 | 3294.7 | 3281.0 | 3262.9 |
| 10° | 3394.8 | 3376.6 | 3353.8 | 3331.1 | 3326.6 | 3312.9 | 3285.6 | 3267.4 | 3244.7 | 3226.5 | 3199.1 |
| 12.5° | 3367.5 | 3340.1 | 3317.4 | 3290.1 | 3276.5 | 3262.9 | 3235.5 | 3208.3 | 3176.4 | 3144.5 | 3117.2 |
| 15° | 3321.9 | 3290.1 | 3258.3 | 3226.5 | 3208.3 | 3194.6 | 3162.7 | 3130.9 | 3099.0 | 3058.1 | 3030.8 |
| 17.5° | 3253.7 | 3217.3 | 3185.4 | 3144.5 | 3126.4 | 3112.7 | 3071.7 | 3035.3 | 2994.4 | 2953.4 | 2926.1 |
| 20° | 3167.3 | 3121.7 | 3085.3 | 3039.8 | 3026.2 | 3003.4 | 2962.5 | 2921.5 | 2876.1 | 2830.5 | 2798.7 |
| 22.5° | 3053.5 | 3008.1 | 2967.0 | 2921.5 | 2898.8 | 2876.1 | 2835.1 | 2785.0 | 2739.5 | 2703.1 | 2671.2 |
| 25° | 2921.5 | 2880.6 | 2830.5 | 2789.5 | 2762.3 | 2734.9 | 2689.4 | 2648.5 | 2607.5 | 2552.9 | 2521.0 |
| 27.5° | 2776.0 | 2725.9 | 2689.4 | 2634.8 | 2607.5 | 2589.3 | 2539.2 | 2484.7 | 2448.3 | 2398.2 | 2361.8 |
| 30° | 2612.1 | 2566.6 | 2525.7 | 2471.0 | 2443.8 | 2425.6 | 2380.0 | 2330.0 | 2293.6 | 2243.5 | 2207.0 |
| 32.5° | 2439.1 | 2389.1 | 2339.0 | 2302.6 | 2270.8 | 2252.6 | 2202.5 | 2170.6 | 2125.2 | 2084.2 | 2043.3 |
| 35° | 2252.6 | 2202.5 | 2166.1 | 2116.1 | 2097.9 | 2079.7 | 2038.7 | 1997.8 | 1956.7 | 1920.4 | 1888.5 |
| 37.5° | 2052.3 | 2015.9 | 1975.0 | 1938.5 | 1925.0 | 1906.7 | 1856.6 | 1820.2 | 1788.4 | 1752.0 | 1724.8 |
| 40° | 1856.6 | 1824.9 | 1797.5 | 1761.1 | 1738.3 | 1724.8 | 1688.3 | 1656.4 | 1620.0 | 1597.3 | 1570.0 |
| 42.5° | 1679.2 | 1642.8 | 1615.5 | 1588.1 | 1565.4 | 1551.8 | 1519.9 | 1497.2 | 1469.8 | 1447.1 | 1415.3 |
| 45° | 1492.7 | 1474.4 | 1442.6 | 1419.8 | 1406.1 | 1387.9 | 1365.2 | 1337.9 | 1315.2 | 1297.0 | 1274.1 |
| 47.5° | 1328.8 | 1310.6 | 1287.8 | 1260.6 | 1251.4 | 1237.7 | 1215.0 | 1196.8 | 1178.7 | 1160.5 | 1137.6 |
| 50° | 1178.7 | 1155.8 | 1137.6 | 1119.4 | 1110.4 | 1096.7 | 1073.9 | 1064.9 | 1051.2 | 1033.0 | 1019.3 |
| 52.5° | 1042.2 | 1023.8 | 1005.7 | 982.9 | 978.4 | 969.3 | 955.6 | 937.4 | 923.7 | 914.7 | 905.5 |
| 55° | 919.2 | 901.0 | 887.4 | 869.2 | 864.6 | 855.5 | 837.3 | 828.3 | 819.1 | 810.1 | 800.9 |
| 57.5° | 810.1 | 791.9 | 773.6 | 764.5 | 755.4 | 746.3 | 741.8 | 728.1 | 719.0 | 714.5 | 705.3 |
| 60° | 710.0 | 691.8 | 678.1 | 664.4 | 659.9 | 655.3 | 646.2 | 637.1 | 628.0 | 618.9 | 614.4 |
| 62.5° | 614.4 | 596.2 | 587.0 | 578.0 | 568.8 | 568.8 | 559.8 | 550.6 | 541.6 | 537.0 | 527.9 |
| 65° | 527.9 | 518.8 | 505.1 | 491.4 | 486.9 | 486.9 | 473.2 | 468.7 | 464.2 | 455.0 | 446.0 |
| 67.5° | 446.0 | 436.8 | 423.2 | 418.6 | 414.1 | 409.6 | 405.0 | 395.9 | 386.8 | 382.3 | 373.1 |
| 70° | 373.1 | 364.1 | 354.9 | 350.4 | 345.9 | 341.2 | 332.2 | 327.7 | 318.5 | 314.0 | 309.5 |
| 72.5° | 300.3 | 295.8 | 286.7 | 282.1 | 277.6 | 273.0 | 268.5 | 264.0 | 254.8 | 250.3 | 245.8 |
| 75° | 241.1 | 236.6 | 227.6 | 222.9 | 218.4 | 218.4 | 213.9 | 204.7 | 200.2 | 200.2 | 195.7 |
| 77.5° | 182.0 | 177.5 | 172.9 | 168.4 | 163.8 | 163.8 | 159.3 | 154.7 | 150.2 | 150.2 | 145.7 |
| 80° | 132.0 | 127.5 | 122.8 | 122.8 | 122.8 | 118.3 | 113.8 | 113.8 | 109.3 | 109.3 | 104.6 |
| 82.5° | 86.4 | 86.4 | 81.9 | 81.9 | 81.9 | 77.4 | 77.4 | 72.8 | 72.8 | 72.8 | 72.8 |
| 85° | 50.1 | 50.1 | 50.1 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 40.9 | 45.5 |
| 87.5° | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 18.2 | 18.2 | 18.2 |
| 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° | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 |
| 2.5° | 3335.6 | 3331.1 | 3321.9 | 3321.9 | 3312.9 | 3312.9 | 3308.4 | 3303.8 | 3299.2 | 3294.7 | 3290.1 |
| 5° | 3303.8 | 3285.6 | 3276.5 | 3271.9 | 3262.9 | 3258.3 | 3244.7 | 3235.5 | 3231.0 | 3221.8 | 3212.8 |
| 7.5° | 3244.7 | 3226.5 | 3208.3 | 3203.6 | 3199.1 | 3180.9 | 3167.3 | 3153.6 | 3144.5 | 3135.4 | 3126.4 |
| 10° | 3176.4 | 3158.2 | 3135.4 | 3126.4 | 3117.2 | 3094.5 | 3076.3 | 3062.6 | 3044.4 | 3026.2 | 3021.6 |
| 12.5° | 3094.5 | 3067.1 | 3039.8 | 3030.8 | 3017.1 | 2994.4 | 2976.2 | 2953.4 | 2939.7 | 2917.0 | 2912.5 |
| 15° | 2998.9 | 2967.0 | 2944.3 | 2921.5 | 2912.5 | 2889.6 | 2857.9 | 2839.6 | 2812.3 | 2803.2 | 2780.5 |
| 17.5° | 2885.1 | 2853.2 | 2821.4 | 2812.3 | 2798.7 | 2766.8 | 2734.9 | 2712.2 | 2684.9 | 2671.2 | 2657.5 |
| 20° | 2766.8 | 2725.9 | 2694.0 | 2684.9 | 2666.7 | 2639.3 | 2607.5 | 2584.8 | 2562.1 | 2534.7 | 2521.0 |
| 22.5° | 2630.3 | 2584.8 | 2557.4 | 2534.7 | 2530.2 | 2498.3 | 2461.9 | 2443.8 | 2425.6 | 2402.7 | 2384.5 |
| 25° | 2480.1 | 2439.1 | 2407.2 | 2389.1 | 2380.0 | 2352.7 | 2325.4 | 2302.6 | 2275.4 | 2261.7 | 2238.9 |
| 27.5° | 2325.4 | 2298.1 | 2257.1 | 2238.9 | 2225.3 | 2202.5 | 2170.6 | 2157.0 | 2129.7 | 2111.5 | 2097.9 |
| 30° | 2175.3 | 2134.3 | 2111.5 | 2088.7 | 2075.2 | 2052.3 | 2025.1 | 2011.4 | 1988.6 | 1970.4 | 1956.7 |
| 32.5° | 2011.4 | 1984.1 | 1952.2 | 1943.2 | 1925.0 | 1902.2 | 1884.0 | 1861.3 | 1843.1 | 1824.9 | 1820.2 |
| 35° | 1861.3 | 1824.9 | 1793.0 | 1783.9 | 1770.2 | 1747.5 | 1738.3 | 1724.8 | 1701.9 | 1697.4 | 1679.2 |
| 37.5° | 1697.4 | 1679.2 | 1642.8 | 1629.2 | 1624.6 | 1606.3 | 1588.1 | 1579.1 | 1565.4 | 1551.8 | 1547.2 |
| 40° | 1542.7 | 1519.9 | 1501.7 | 1488.0 | 1479.0 | 1465.3 | 1447.1 | 1442.6 | 1433.5 | 1415.3 | 1410.7 |
| 42.5° | 1397.1 | 1374.2 | 1356.1 | 1351.5 | 1337.9 | 1324.2 | 1315.2 | 1301.5 | 1297.0 | 1292.4 | 1283.3 |
| 45° | 1255.9 | 1242.4 | 1224.1 | 1219.6 | 1215.0 | 1196.8 | 1187.7 | 1178.7 | 1169.5 | 1165.0 | 1155.8 |
| 47.5° | 1128.6 | 1114.9 | 1101.3 | 1096.7 | 1087.6 | 1083.1 | 1069.4 | 1064.9 | 1051.2 | 1046.7 | 1042.2 |
| 50° | 1005.7 | 996.6 | 987.5 | 982.9 | 973.8 | 969.3 | 960.2 | 951.1 | 942.0 | 937.4 | 932.9 |
| 52.5° | 896.5 | 887.4 | 878.3 | 873.7 | 869.2 | 860.1 | 851.0 | 841.9 | 837.3 | 832.8 | 828.3 |
| 55° | 791.9 | 782.7 | 778.2 | 773.6 | 769.0 | 764.5 | 750.9 | 746.3 | 741.8 | 737.2 | 728.1 |
| 57.5° | 696.3 | 687.1 | 678.1 | 678.1 | 673.4 | 668.9 | 659.9 | 650.7 | 650.7 | 641.7 | 632.5 |
| 60° | 609.8 | 600.7 | 591.6 | 587.0 | 582.5 | 573.3 | 568.8 | 564.3 | 559.8 | 555.1 | 546.1 |
| 62.5° | 518.8 | 514.2 | 505.1 | 505.1 | 496.1 | 491.4 | 486.9 | 482.4 | 477.9 | 468.7 | 464.2 |
| 65° | 441.4 | 436.8 | 427.8 | 423.2 | 423.2 | 418.6 | 409.6 | 405.0 | 400.5 | 400.5 | 395.9 |
| 67.5° | 368.6 | 364.1 | 354.9 | 350.4 | 350.4 | 345.9 | 341.2 | 341.2 | 336.7 | 332.2 | 336.7 |
| 70° | 304.9 | 295.8 | 295.8 | 291.2 | 291.2 | 286.7 | 282.1 | 282.1 | 282.1 | 286.7 | 286.7 |
| 72.5° | 241.1 | 236.6 | 232.1 | 232.1 | 232.1 | 232.1 | 227.6 | 227.6 | 232.1 | 236.6 | 236.6 |
| 75° | 191.1 | 186.6 | 186.6 | 186.6 | 182.0 | 182.0 | 186.6 | 186.6 | 191.1 | 191.1 | 191.1 |
| 77.5° | 141.0 | 141.0 | 141.0 | 141.0 | 141.0 | 141.0 | 145.7 | 145.7 | 150.2 | 150.2 | 150.2 |
| 80° | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 113.8 |
| 82.5° | 72.8 | 72.8 | 72.8 | 72.8 | 72.8 | 72.8 | 72.8 | 77.4 | 77.4 | 77.4 | 77.4 |
| 85° | 40.9 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 87.5° | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 |
| 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: P585321

CATALOG NUMBER: HCC8S80D010MB-HM86080940-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 | 3353.8 |
| 2.5° | 3285.6 | 3285.6 | 3285.6 | 3290.1 | 3281.0 | 3281.0 | 3281.0 | 3281.0 |
| 5° | 3208.3 | 3203.6 | 3199.1 | 3203.6 | 3194.6 | 3194.6 | 3190.0 | 3190.0 |
| 7.5° | 3112.7 | 3108.2 | 3103.5 | 3103.5 | 3094.5 | 3094.5 | 3089.9 | 3085.3 |
| 10° | 3008.1 | 2998.9 | 3003.4 | 2994.4 | 2989.7 | 2985.2 | 2980.7 | 2976.2 |
| 12.5° | 2894.3 | 2885.1 | 2880.6 | 2871.4 | 2862.4 | 2857.9 | 2862.4 | 2853.2 |
| 15° | 2771.3 | 2757.8 | 2753.1 | 2744.1 | 2734.9 | 2730.4 | 2730.4 | 2725.9 |
| 17.5° | 2634.8 | 2625.8 | 2621.2 | 2612.1 | 2607.5 | 2598.4 | 2593.9 | 2589.3 |
| 20° | 2507.4 | 2484.7 | 2489.2 | 2480.1 | 2475.6 | 2457.3 | 2457.3 | 2461.9 |
| 22.5° | 2366.3 | 2352.7 | 2343.6 | 2334.5 | 2330.0 | 2320.8 | 2320.8 | 2316.3 |
| 25° | 2225.3 | 2211.7 | 2207.0 | 2198.0 | 2193.5 | 2184.3 | 2179.8 | 2179.8 |
| 27.5° | 2088.7 | 2070.5 | 2070.5 | 2061.5 | 2052.3 | 2047.8 | 2043.3 | 2038.7 |
| 30° | 1943.2 | 1929.5 | 1925.0 | 1925.0 | 1920.4 | 1920.4 | 1906.7 | 1911.3 |
| 32.5° | 1806.6 | 1797.5 | 1793.0 | 1783.9 | 1783.9 | 1779.3 | 1779.3 | 1765.7 |
| 35° | 1670.1 | 1656.4 | 1661.0 | 1651.9 | 1647.4 | 1642.8 | 1647.4 | 1642.8 |
| 37.5° | 1538.1 | 1529.1 | 1529.1 | 1519.9 | 1519.9 | 1515.4 | 1510.9 | 1519.9 |
| 40° | 1406.1 | 1401.6 | 1397.1 | 1392.6 | 1397.1 | 1392.6 | 1383.4 | 1387.9 |
| 42.5° | 1274.1 | 1274.1 | 1269.6 | 1269.6 | 1265.1 | 1265.1 | 1265.1 | 1265.1 |
| 45° | 1155.8 | 1151.3 | 1151.3 | 1146.8 | 1146.8 | 1146.8 | 1146.8 | 1142.3 |
| 47.5° | 1037.5 | 1033.0 | 1033.0 | 1033.0 | 1028.5 | 1028.5 | 1023.8 | 1028.5 |
| 50° | 923.7 | 923.7 | 919.2 | 919.2 | 923.7 | 919.2 | 914.7 | 914.7 |
| 52.5° | 819.1 | 819.1 | 814.6 | 814.6 | 810.1 | 805.4 | 810.1 | 810.1 |
| 55° | 723.5 | 719.0 | 714.5 | 714.5 | 710.0 | 705.3 | 705.3 | 710.0 |
| 57.5° | 632.5 | 628.0 | 623.4 | 623.4 | 614.4 | 609.8 | 609.8 | 609.8 |
| 60° | 546.1 | 537.0 | 537.0 | 532.4 | 532.4 | 527.9 | 527.9 | 527.9 |
| 62.5° | 464.2 | 459.7 | 459.7 | 459.7 | 459.7 | 455.0 | 455.0 | 455.0 |
| 65° | 395.9 | 395.9 | 395.9 | 400.5 | 400.5 | 405.0 | 405.0 | 405.0 |
| 67.5° | 341.2 | 345.9 | 345.9 | 345.9 | 350.4 | 350.4 | 350.4 | 345.9 |
| 70° | 291.2 | 291.2 | 291.2 | 295.8 | 295.8 | 295.8 | 295.8 | 295.8 |
| 72.5° | 241.1 | 241.1 | 241.1 | 241.1 | 241.1 | 241.1 | 241.1 | 241.1 |
| 75° | 191.1 | 195.7 | 195.7 | 195.7 | 191.1 | 195.7 | 195.7 | 191.1 |
| 77.5° | 150.2 | 150.2 | 150.2 | 150.2 | 150.2 | 150.2 | 150.2 | 150.2 |
| 80° | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 | 113.8 |
| 82.5° | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 |
| 85° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 87.5° | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 |
| 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)