

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: P585237

Luminaire Tested: **HCC8S80D010MW-HM86080835-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585237
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-HM86080835-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

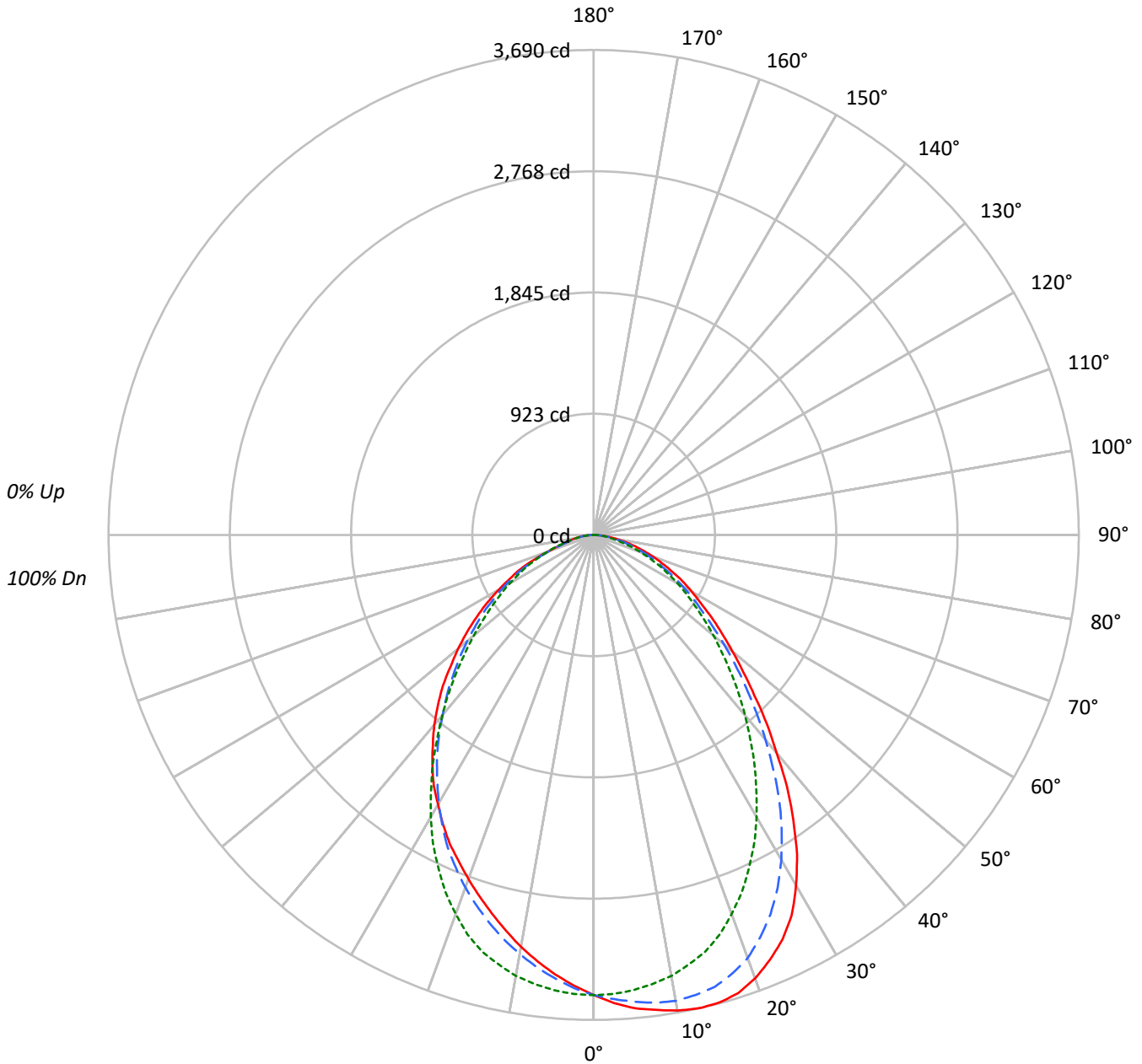
Lumens per Lamp: N/A
Luminaire Lumens: 7041.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (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: P585237
CATALOG NUMBER: HCC8S80D010MW-HM86080835-81WWWB

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 | | | 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° | 107958 | 107958 | 107958 |
| 5° | 111911 | 107603 | 103907 |
| 10° | 115075 | 106664 | 99657 |
| 15° | 117637 | 104778 | 95255 |
| 20° | 117823 | 100687 | 91387 |
| 25° | 115563 | 95094 | 88153 |
| 30° | 109608 | 88184 | 84288 |
| 35° | 99591 | 80310 | 80498 |
| 40° | 87081 | 72067 | 75871 |
| 45° | 75470 | 64193 | 70699 |
| 50° | 66083 | 57016 | 64413 |
| 55° | 58815 | 50530 | 58283 |
| 60° | 53063 | 45391 | 51219 |
| 65° | 47894 | 39919 | 44625 |
| 70° | 43042 | 33629 | 33179 |
| 75° | 37923 | 26664 | 24889 |
| 80° | 31804 | 22091 | 23831 |
| 85° | 24660 | 19353 | 21122 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 330.3 | 4.7 |
| 10°-20° | 930.3 | 13.2 |
| 20°-30° | 1329.5 | 18.9 |
| 30°-40° | 1412.6 | 20.1 |
| 40°-50° | 1216.2 | 17.3 |
| 50°-60° | 909.3 | 12.9 |
| 60°-70° | 580.0 | 8.2 |
| 70°-80° | 264.0 | 3.7 |
| 80°-90° | 69.3 | 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° | 2590.0 | 36.8 |
| 0°-40° | 4002.6 | 56.8 |
| 0°-60° | 6128.1 | 87.0 |
| 0°-90° | 7041.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7041.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3501 | 3501 | 3501 | 3501 | 3501 | |
| 5° | 3615 | 3566 | 3476 | 3387 | 3357 | 346 |
| 15° | 3685 | 3561 | 3282 | 3058 | 2984 | 1038 |
| 25° | 3396 | 3183 | 2795 | 2626 | 2591 | 1555 |
| 35° | 2646 | 2462 | 2133 | 2079 | 2138 | 1648 |
| 45° | 1731 | 1636 | 1472 | 1512 | 1621 | 1345 |
| 55° | 1094 | 1005 | 940 | 1019 | 1084 | 984 |
| 65° | 656 | 582 | 547 | 572 | 612 | 655 |
| 75° | 318 | 274 | 224 | 204 | 209 | 338 |
| 85° | 70 | 60 | 55 | 60 | 60 | 84 |
| 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° | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 |
| 2.5° | 3565.6 | 3555.7 | 3560.7 | 3555.7 | 3560.7 | 3560.7 | 3550.7 | 3550.7 | 3550.7 | 3550.7 | 3535.7 |
| 5° | 3615.4 | 3610.4 | 3610.4 | 3605.4 | 3600.4 | 3605.4 | 3600.4 | 3595.4 | 3585.5 | 3580.6 | 3565.6 |
| 7.5° | 3645.2 | 3645.2 | 3645.2 | 3645.2 | 3640.2 | 3635.2 | 3630.3 | 3620.3 | 3610.4 | 3600.4 | 3590.5 |
| 10° | 3675.1 | 3680.0 | 3675.1 | 3670.1 | 3665.1 | 3655.1 | 3650.1 | 3640.2 | 3625.3 | 3610.4 | 3600.4 |
| 12.5° | 3689.9 | 3689.9 | 3684.9 | 3684.9 | 3675.1 | 3670.1 | 3655.1 | 3640.2 | 3625.3 | 3610.4 | 3585.5 |
| 15° | 3684.9 | 3684.9 | 3680.0 | 3675.1 | 3660.1 | 3655.1 | 3645.2 | 3630.3 | 3605.4 | 3585.5 | 3560.7 |
| 17.5° | 3655.1 | 3650.1 | 3640.2 | 3640.2 | 3620.3 | 3615.4 | 3605.4 | 3585.5 | 3560.7 | 3530.9 | 3501.0 |
| 20° | 3590.5 | 3590.5 | 3585.5 | 3580.6 | 3560.7 | 3545.7 | 3535.7 | 3510.9 | 3491.0 | 3456.2 | 3426.3 |
| 22.5° | 3501.0 | 3510.9 | 3501.0 | 3491.0 | 3466.2 | 3461.2 | 3446.3 | 3416.5 | 3386.6 | 3346.8 | 3312.0 |
| 25° | 3396.5 | 3391.6 | 3386.6 | 3376.6 | 3356.8 | 3346.8 | 3326.9 | 3297.1 | 3267.3 | 3222.5 | 3182.7 |
| 27.5° | 3262.3 | 3242.4 | 3242.4 | 3222.5 | 3207.6 | 3192.7 | 3182.7 | 3152.9 | 3113.0 | 3078.3 | 3028.5 |
| 30° | 3078.3 | 3083.2 | 3058.3 | 3053.4 | 3028.5 | 3018.6 | 2998.7 | 2968.8 | 2934.1 | 2894.3 | 2854.4 |
| 32.5° | 2879.4 | 2864.4 | 2864.4 | 2844.6 | 2824.7 | 2809.7 | 2804.7 | 2769.9 | 2740.1 | 2700.3 | 2660.5 |
| 35° | 2645.6 | 2645.6 | 2630.7 | 2625.8 | 2605.8 | 2595.9 | 2581.0 | 2561.1 | 2526.3 | 2491.4 | 2461.6 |
| 37.5° | 2416.9 | 2406.9 | 2401.9 | 2392.0 | 2377.0 | 2362.2 | 2362.2 | 2327.3 | 2322.4 | 2282.6 | 2242.8 |
| 40° | 2163.3 | 2173.1 | 2163.3 | 2148.3 | 2143.4 | 2133.4 | 2128.4 | 2108.6 | 2093.6 | 2058.8 | 2033.9 |
| 42.5° | 1949.4 | 1939.5 | 1939.5 | 1934.5 | 1914.6 | 1914.6 | 1904.7 | 1894.7 | 1869.8 | 1859.8 | 1830.1 |
| 45° | 1730.6 | 1740.6 | 1725.6 | 1730.6 | 1710.7 | 1710.7 | 1710.7 | 1690.8 | 1670.9 | 1656.0 | 1636.1 |
| 47.5° | 1541.7 | 1546.7 | 1546.7 | 1531.7 | 1526.7 | 1526.7 | 1516.8 | 1506.8 | 1491.8 | 1472.0 | 1457.1 |
| 50° | 1377.5 | 1382.5 | 1372.6 | 1367.6 | 1357.6 | 1352.6 | 1352.6 | 1332.8 | 1322.8 | 1302.9 | 1292.9 |
| 52.5° | 1228.4 | 1228.4 | 1223.4 | 1223.4 | 1208.4 | 1208.4 | 1198.5 | 1183.5 | 1173.7 | 1163.7 | 1138.8 |
| 55° | 1094.0 | 1094.0 | 1089.1 | 1084.1 | 1084.1 | 1069.1 | 1064.3 | 1049.3 | 1039.3 | 1019.4 | 1004.6 |
| 57.5° | 964.8 | 969.7 | 964.8 | 959.8 | 954.8 | 949.9 | 939.9 | 924.9 | 915.1 | 900.1 | 890.2 |
| 60° | 860.4 | 860.4 | 855.4 | 850.4 | 840.4 | 835.5 | 830.5 | 820.5 | 805.7 | 795.7 | 780.8 |
| 62.5° | 760.8 | 755.8 | 751.0 | 746.0 | 736.0 | 736.0 | 726.0 | 716.1 | 701.2 | 691.3 | 681.3 |
| 65° | 656.4 | 656.4 | 651.5 | 651.5 | 646.5 | 636.6 | 631.6 | 626.6 | 606.7 | 601.8 | 581.9 |
| 67.5° | 561.9 | 566.9 | 556.9 | 556.9 | 547.1 | 547.1 | 542.1 | 527.1 | 522.2 | 512.2 | 502.2 |
| 70° | 477.4 | 477.4 | 477.4 | 472.4 | 462.5 | 457.5 | 452.5 | 442.5 | 437.7 | 427.7 | 417.7 |
| 72.5° | 392.8 | 392.8 | 387.9 | 387.9 | 383.0 | 378.0 | 373.0 | 363.0 | 363.0 | 353.1 | 343.1 |
| 75° | 318.3 | 318.3 | 313.3 | 308.3 | 303.3 | 303.3 | 298.3 | 293.4 | 283.5 | 278.5 | 273.5 |
| 77.5° | 243.6 | 243.6 | 243.6 | 238.8 | 233.8 | 233.8 | 233.8 | 223.8 | 213.8 | 213.8 | 208.9 |
| 80° | 179.1 | 179.1 | 174.1 | 174.1 | 169.1 | 169.1 | 169.1 | 164.1 | 159.1 | 154.2 | 149.2 |
| 82.5° | 119.4 | 119.4 | 119.4 | 119.4 | 114.4 | 114.4 | 114.4 | 109.4 | 104.4 | 104.4 | 104.4 |
| 85° | 69.7 | 69.7 | 69.7 | 69.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 59.7 | 59.7 |
| 87.5° | 29.8 | 24.9 | 29.8 | 24.9 | 29.8 | 24.9 | 29.8 | 24.9 | 24.9 | 24.9 | 24.9 |
| 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° | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 |
| 2.5° | 3540.7 | 3535.7 | 3530.9 | 3525.9 | 3525.9 | 3520.9 | 3510.9 | 3506.0 | 3501.0 | 3496.0 | 3496.0 |
| 5° | 3560.7 | 3555.7 | 3545.7 | 3535.7 | 3530.9 | 3520.9 | 3510.9 | 3501.0 | 3491.0 | 3476.2 | 3471.2 |
| 7.5° | 3575.6 | 3560.7 | 3550.7 | 3530.9 | 3525.9 | 3515.9 | 3501.0 | 3486.0 | 3466.2 | 3446.3 | 3431.3 |
| 10° | 3575.6 | 3555.7 | 3540.7 | 3515.9 | 3506.0 | 3496.0 | 3476.2 | 3451.2 | 3426.3 | 3406.5 | 3381.6 |
| 12.5° | 3565.6 | 3540.7 | 3515.9 | 3491.0 | 3476.2 | 3461.2 | 3431.3 | 3406.5 | 3376.6 | 3346.8 | 3326.9 |
| 15° | 3530.9 | 3501.0 | 3471.2 | 3441.3 | 3426.3 | 3406.5 | 3376.6 | 3341.8 | 3312.0 | 3282.1 | 3247.4 |
| 17.5° | 3466.2 | 3436.3 | 3401.5 | 3366.7 | 3346.8 | 3331.9 | 3287.1 | 3262.3 | 3217.6 | 3187.7 | 3157.9 |
| 20° | 3381.6 | 3346.8 | 3302.1 | 3267.3 | 3242.4 | 3227.4 | 3192.7 | 3147.9 | 3113.0 | 3068.3 | 3038.5 |
| 22.5° | 3272.2 | 3227.4 | 3182.7 | 3147.9 | 3123.0 | 3103.2 | 3058.3 | 3013.6 | 2983.8 | 2944.0 | 2909.2 |
| 25° | 3142.9 | 3098.2 | 3053.4 | 3003.7 | 2978.8 | 2958.9 | 2919.1 | 2879.4 | 2839.6 | 2794.9 | 2765.0 |
| 27.5° | 2988.8 | 2939.0 | 2899.3 | 2854.4 | 2829.6 | 2799.7 | 2755.0 | 2715.2 | 2675.5 | 2645.6 | 2605.8 |
| 30° | 2819.7 | 2765.0 | 2725.2 | 2680.5 | 2655.5 | 2630.7 | 2586.0 | 2546.1 | 2511.4 | 2476.6 | 2456.6 |
| 32.5° | 2615.8 | 2576.0 | 2536.3 | 2491.4 | 2471.6 | 2456.6 | 2411.9 | 2372.1 | 2332.3 | 2302.5 | 2287.5 |
| 35° | 2421.9 | 2377.0 | 2342.3 | 2302.5 | 2277.6 | 2262.7 | 2223.0 | 2188.1 | 2168.3 | 2133.4 | 2113.6 |
| 37.5° | 2218.0 | 2183.1 | 2143.4 | 2103.6 | 2088.6 | 2073.7 | 2043.9 | 2009.1 | 1979.2 | 1954.4 | 1944.5 |
| 40° | 2004.1 | 1974.2 | 1939.5 | 1914.6 | 1899.7 | 1884.8 | 1859.8 | 1835.0 | 1815.1 | 1790.3 | 1780.3 |
| 42.5° | 1800.3 | 1780.3 | 1750.4 | 1720.6 | 1705.7 | 1700.7 | 1670.9 | 1651.0 | 1641.1 | 1631.2 | 1621.2 |
| 45° | 1616.2 | 1586.4 | 1566.5 | 1546.7 | 1531.7 | 1521.7 | 1506.8 | 1491.8 | 1482.0 | 1472.0 | 1462.1 |
| 47.5° | 1437.1 | 1412.3 | 1392.4 | 1377.5 | 1362.6 | 1357.6 | 1347.7 | 1332.8 | 1322.8 | 1322.8 | 1322.8 |
| 50° | 1273.1 | 1253.2 | 1233.3 | 1223.4 | 1218.4 | 1208.4 | 1198.5 | 1193.5 | 1188.5 | 1188.5 | 1188.5 |
| 52.5° | 1128.8 | 1109.0 | 1094.0 | 1084.1 | 1084.1 | 1074.1 | 1064.3 | 1059.3 | 1059.3 | 1059.3 | 1059.3 |
| 55° | 994.6 | 979.6 | 969.7 | 959.8 | 949.9 | 944.9 | 944.9 | 944.9 | 939.9 | 939.9 | 944.9 |
| 57.5° | 875.2 | 865.4 | 850.4 | 840.4 | 835.5 | 835.5 | 830.5 | 825.5 | 830.5 | 835.5 | 840.4 |
| 60° | 765.8 | 755.8 | 751.0 | 736.0 | 736.0 | 736.0 | 731.0 | 731.0 | 731.0 | 736.0 | 741.0 |
| 62.5° | 666.4 | 661.4 | 651.5 | 646.5 | 641.5 | 641.5 | 636.6 | 636.6 | 636.6 | 636.6 | 641.5 |
| 65° | 576.9 | 566.9 | 556.9 | 556.9 | 556.9 | 552.1 | 552.1 | 542.1 | 547.1 | 547.1 | 542.1 |
| 67.5° | 492.4 | 482.4 | 477.4 | 472.4 | 467.5 | 467.5 | 462.5 | 457.5 | 452.5 | 452.5 | 452.5 |
| 70° | 412.7 | 402.8 | 402.8 | 392.8 | 392.8 | 387.9 | 383.0 | 383.0 | 378.0 | 373.0 | 368.0 |
| 72.5° | 333.2 | 328.2 | 323.3 | 318.3 | 318.3 | 318.3 | 313.3 | 308.3 | 303.3 | 298.3 | 288.5 |
| 75° | 263.6 | 263.6 | 253.6 | 248.6 | 248.6 | 243.6 | 238.8 | 233.8 | 228.8 | 223.8 | 218.8 |
| 77.5° | 203.9 | 198.9 | 188.9 | 184.1 | 184.1 | 184.1 | 179.1 | 174.1 | 169.1 | 164.1 | 159.1 |
| 80° | 149.2 | 144.2 | 139.2 | 134.2 | 134.2 | 134.2 | 129.2 | 129.2 | 124.4 | 124.4 | 124.4 |
| 82.5° | 99.4 | 99.4 | 94.5 | 94.5 | 94.5 | 94.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 |
| 85° | 59.7 | 59.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 |
| 87.5° | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 |
| 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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CATALOG NUMBER: HCC8S80D010MW-HM86080835-81WWWB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 |
| 2.5° | 3486.0 | 3486.0 | 3476.2 | 3471.2 | 3466.2 | 3471.2 | 3461.2 | 3456.2 | 3451.2 | 3451.2 | 3446.3 |
| 5° | 3456.2 | 3451.2 | 3431.3 | 3426.3 | 3421.3 | 3416.5 | 3406.5 | 3396.5 | 3386.6 | 3381.6 | 3376.6 |
| 7.5° | 3416.5 | 3401.5 | 3381.6 | 3376.6 | 3371.6 | 3356.8 | 3341.8 | 3331.9 | 3317.0 | 3312.0 | 3302.1 |
| 10° | 3361.8 | 3341.8 | 3326.9 | 3312.0 | 3302.1 | 3287.1 | 3272.2 | 3257.3 | 3237.4 | 3232.4 | 3217.6 |
| 12.5° | 3297.1 | 3272.2 | 3242.4 | 3237.4 | 3222.5 | 3202.6 | 3182.7 | 3167.7 | 3152.9 | 3142.9 | 3128.0 |
| 15° | 3217.6 | 3192.7 | 3162.9 | 3147.9 | 3133.0 | 3118.0 | 3093.2 | 3073.3 | 3058.3 | 3043.5 | 3028.5 |
| 17.5° | 3123.0 | 3093.2 | 3068.3 | 3053.4 | 3043.5 | 3018.6 | 2998.7 | 2973.8 | 2958.9 | 2944.0 | 2929.1 |
| 20° | 3008.6 | 2983.8 | 2949.0 | 2934.1 | 2929.1 | 2909.2 | 2884.3 | 2874.4 | 2854.4 | 2839.6 | 2829.6 |
| 22.5° | 2879.4 | 2854.4 | 2824.7 | 2814.7 | 2794.9 | 2784.9 | 2760.0 | 2750.0 | 2740.1 | 2725.2 | 2720.2 |
| 25° | 2735.2 | 2710.3 | 2685.4 | 2680.5 | 2665.5 | 2655.5 | 2640.7 | 2625.8 | 2625.8 | 2610.8 | 2610.8 |
| 27.5° | 2586.0 | 2561.1 | 2541.2 | 2531.3 | 2526.3 | 2516.3 | 2501.4 | 2496.4 | 2491.4 | 2486.4 | 2486.4 |
| 30° | 2426.9 | 2397.0 | 2387.0 | 2382.0 | 2377.0 | 2367.2 | 2362.2 | 2352.2 | 2357.2 | 2362.2 | 2357.2 |
| 32.5° | 2257.7 | 2247.8 | 2227.9 | 2218.0 | 2223.0 | 2218.0 | 2208.0 | 2218.0 | 2213.0 | 2223.0 | 2227.9 |
| 35° | 2093.6 | 2083.7 | 2073.7 | 2073.7 | 2063.7 | 2063.7 | 2063.7 | 2068.7 | 2078.7 | 2083.7 | 2093.6 |
| 37.5° | 1934.5 | 1919.5 | 1914.6 | 1909.7 | 1914.6 | 1914.6 | 1914.6 | 1924.5 | 1934.5 | 1944.5 | 1959.4 |
| 40° | 1765.4 | 1755.4 | 1755.4 | 1755.4 | 1755.4 | 1770.4 | 1765.4 | 1775.3 | 1785.3 | 1800.3 | 1815.1 |
| 42.5° | 1606.2 | 1606.2 | 1611.2 | 1611.2 | 1611.2 | 1611.2 | 1621.2 | 1636.1 | 1651.0 | 1665.9 | 1680.9 |
| 45° | 1457.1 | 1457.1 | 1457.1 | 1467.0 | 1467.0 | 1472.0 | 1491.8 | 1501.8 | 1511.8 | 1526.7 | 1541.7 |
| 47.5° | 1317.9 | 1317.9 | 1322.8 | 1327.8 | 1332.8 | 1342.7 | 1352.6 | 1367.6 | 1382.5 | 1392.4 | 1407.3 |
| 50° | 1188.5 | 1193.5 | 1203.5 | 1213.4 | 1213.4 | 1218.4 | 1233.3 | 1243.2 | 1253.2 | 1268.1 | 1273.1 |
| 52.5° | 1064.3 | 1074.1 | 1084.1 | 1089.1 | 1094.0 | 1104.0 | 1109.0 | 1123.8 | 1128.8 | 1143.8 | 1148.8 |
| 55° | 949.9 | 954.8 | 969.7 | 974.7 | 974.7 | 984.6 | 994.6 | 1004.6 | 1019.4 | 1019.4 | 1029.4 |
| 57.5° | 845.4 | 850.4 | 860.4 | 865.4 | 860.4 | 875.2 | 880.2 | 890.2 | 895.1 | 905.1 | 910.1 |
| 60° | 741.0 | 751.0 | 755.8 | 755.8 | 760.8 | 765.8 | 775.8 | 775.8 | 785.7 | 795.7 | 795.7 |
| 62.5° | 641.5 | 646.5 | 651.5 | 656.4 | 661.4 | 656.4 | 671.3 | 671.3 | 681.3 | 686.3 | 696.2 |
| 65° | 547.1 | 552.1 | 552.1 | 556.9 | 556.9 | 561.9 | 561.9 | 566.9 | 571.9 | 581.9 | 586.8 |
| 67.5° | 452.5 | 452.5 | 452.5 | 457.5 | 452.5 | 457.5 | 457.5 | 462.5 | 462.5 | 472.4 | 477.4 |
| 70° | 368.0 | 363.0 | 358.0 | 358.0 | 358.0 | 358.0 | 353.1 | 358.0 | 358.0 | 363.0 | 363.0 |
| 72.5° | 283.5 | 278.5 | 273.5 | 268.6 | 268.6 | 263.6 | 258.6 | 263.6 | 263.6 | 268.6 | 268.6 |
| 75° | 213.8 | 203.9 | 203.9 | 203.9 | 198.9 | 198.9 | 198.9 | 203.9 | 203.9 | 203.9 | 208.9 |
| 77.5° | 159.1 | 159.1 | 154.2 | 154.2 | 154.2 | 159.1 | 159.1 | 164.1 | 164.1 | 164.1 | 164.1 |
| 80° | 119.4 | 124.4 | 124.4 | 124.4 | 124.4 | 129.2 | 129.2 | 129.2 | 129.2 | 134.2 | 134.2 |
| 82.5° | 89.5 | 89.5 | 89.5 | 89.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 |
| 85° | 54.7 | 59.7 | 59.7 | 54.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 |
| 87.5° | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 |
| 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: P585237

CATALOG NUMBER: HCC8S80D010MW-HM86080835-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 | 3501.0 |
| 2.5° | 3441.3 | 3441.3 | 3441.3 | 3441.3 | 3436.3 | 3436.3 | 3436.3 | 3431.3 |
| 5° | 3366.7 | 3366.7 | 3366.7 | 3356.8 | 3361.8 | 3361.8 | 3351.8 | 3356.8 |
| 7.5° | 3292.1 | 3287.1 | 3282.1 | 3282.1 | 3277.2 | 3272.2 | 3267.3 | 3272.2 |
| 10° | 3207.6 | 3192.7 | 3192.7 | 3187.7 | 3187.7 | 3177.7 | 3177.7 | 3182.7 |
| 12.5° | 3113.0 | 3103.2 | 3103.2 | 3098.2 | 3093.2 | 3088.2 | 3083.2 | 3083.2 |
| 15° | 3018.6 | 3008.6 | 3003.7 | 2998.7 | 2993.8 | 2983.8 | 2988.8 | 2983.8 |
| 17.5° | 2924.1 | 2909.2 | 2909.2 | 2904.3 | 2899.3 | 2889.3 | 2889.3 | 2884.3 |
| 20° | 2814.7 | 2809.7 | 2799.7 | 2804.7 | 2799.7 | 2789.9 | 2784.9 | 2784.9 |
| 22.5° | 2705.3 | 2705.3 | 2700.3 | 2700.3 | 2695.3 | 2690.4 | 2685.4 | 2685.4 |
| 25° | 2600.8 | 2595.9 | 2600.8 | 2600.8 | 2586.0 | 2586.0 | 2586.0 | 2590.9 |
| 27.5° | 2481.6 | 2486.4 | 2481.6 | 2481.6 | 2481.6 | 2481.6 | 2486.4 | 2481.6 |
| 30° | 2362.2 | 2362.2 | 2362.2 | 2367.2 | 2377.0 | 2372.1 | 2372.1 | 2367.2 |
| 32.5° | 2232.8 | 2237.8 | 2237.8 | 2242.8 | 2247.8 | 2257.7 | 2257.7 | 2262.7 |
| 35° | 2103.6 | 2113.6 | 2118.4 | 2113.6 | 2128.4 | 2128.4 | 2138.4 | 2138.4 |
| 37.5° | 1969.3 | 1974.2 | 1984.2 | 1989.2 | 1999.2 | 2004.1 | 2009.1 | 2009.1 |
| 40° | 1825.1 | 1845.0 | 1850.0 | 1855.0 | 1869.8 | 1869.8 | 1874.8 | 1884.8 |
| 42.5° | 1690.8 | 1710.7 | 1715.7 | 1720.6 | 1730.6 | 1745.6 | 1740.6 | 1750.4 |
| 45° | 1561.5 | 1576.4 | 1581.4 | 1586.4 | 1601.3 | 1606.2 | 1606.2 | 1621.2 |
| 47.5° | 1422.3 | 1432.3 | 1437.1 | 1447.1 | 1457.1 | 1467.0 | 1477.0 | 1472.0 |
| 50° | 1283.0 | 1297.9 | 1307.9 | 1312.9 | 1327.8 | 1332.8 | 1337.7 | 1342.7 |
| 52.5° | 1158.7 | 1168.7 | 1173.7 | 1178.5 | 1193.5 | 1198.5 | 1203.5 | 1213.4 |
| 55° | 1039.3 | 1044.3 | 1054.3 | 1049.3 | 1064.3 | 1069.1 | 1074.1 | 1084.1 |
| 57.5° | 920.0 | 924.9 | 929.9 | 929.9 | 939.9 | 949.9 | 954.8 | 959.8 |
| 60° | 805.7 | 815.5 | 820.5 | 820.5 | 820.5 | 830.5 | 830.5 | 830.5 |
| 62.5° | 701.2 | 701.2 | 706.1 | 706.1 | 716.1 | 716.1 | 716.1 | 716.1 |
| 65° | 591.8 | 596.8 | 601.8 | 601.8 | 611.6 | 606.7 | 616.6 | 611.6 |
| 67.5° | 477.4 | 477.4 | 487.4 | 487.4 | 482.4 | 487.4 | 487.4 | 487.4 |
| 70° | 363.0 | 363.0 | 368.0 | 368.0 | 368.0 | 368.0 | 368.0 | 368.0 |
| 72.5° | 268.6 | 268.6 | 268.6 | 273.5 | 268.6 | 268.6 | 273.5 | 268.6 |
| 75° | 208.9 | 208.9 | 208.9 | 208.9 | 208.9 | 208.9 | 208.9 | 208.9 |
| 77.5° | 164.1 | 164.1 | 169.1 | 169.1 | 169.1 | 169.1 | 169.1 | 169.1 |
| 80° | 134.2 | 134.2 | 134.2 | 134.2 | 139.2 | 134.2 | 134.2 | 134.2 |
| 82.5° | 99.4 | 94.5 | 99.4 | 94.5 | 99.4 | 99.4 | 99.4 | 99.4 |
| 85° | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 |
| 87.5° | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 |
| 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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Scaled Data Report



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

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(END OF REPORT)