

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: P593872

Luminaire Tested: **HCC8S60D010MB-HM86080850-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593872
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: HCC8S60D010MB-HM86080850-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

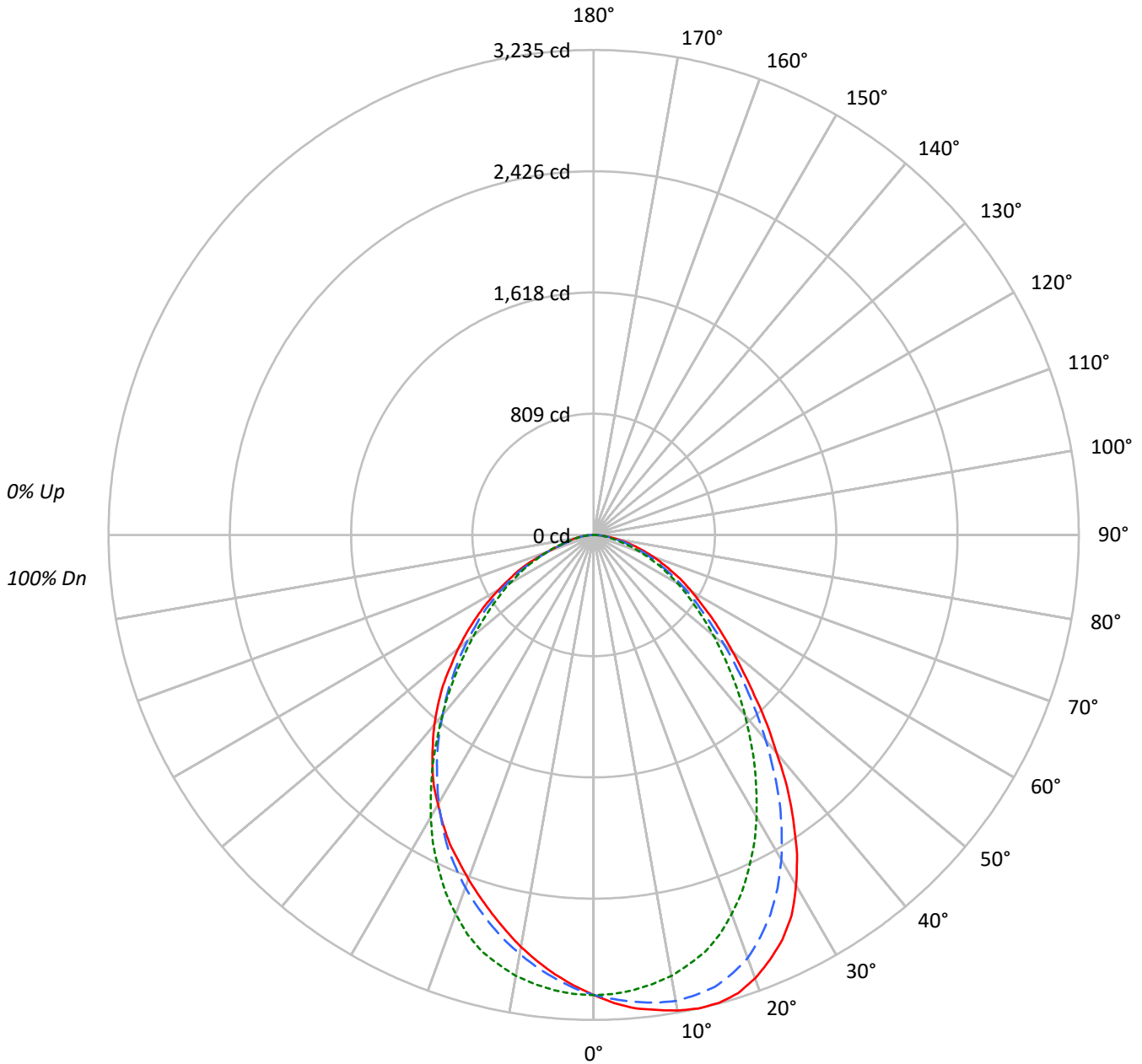
Lumens per Lamp: N/A
Luminaire Lumens: 6173.4 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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: P593872
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Luminous Intensity Polar Plot





TEST NUMBER: P593872

CATALOG NUMBER: HCC8S60D010MB-HM86080850-81WWWB

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 94649 | 94649 | 94649 |
| 5° | 98115 | 94336 | 91098 |
| 10° | 100887 | 93516 | 87373 |
| 15° | 103140 | 91865 | 83513 |
| 20° | 103299 | 88276 | 80122 |
| 25° | 101317 | 83369 | 77286 |
| 30° | 96095 | 77313 | 73895 |
| 35° | 87316 | 70413 | 70572 |
| 40° | 76342 | 63179 | 66520 |
| 45° | 66168 | 56278 | 61982 |
| 50° | 57937 | 49988 | 56474 |
| 55° | 51568 | 44299 | 51100 |
| 60° | 46520 | 39797 | 44904 |
| 65° | 41991 | 34994 | 39131 |
| 70° | 37741 | 29482 | 29085 |
| 75° | 33241 | 23376 | 21827 |
| 80° | 27880 | 19356 | 20919 |
| 85° | 21582 | 16983 | 18539 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 289.6 | 4.7 |
| 10°-20° | 815.6 | 13.2 |
| 20°-30° | 1165.6 | 18.9 |
| 30°-40° | 1238.5 | 20.1 |
| 40°-50° | 1066.3 | 17.3 |
| 50°-60° | 797.2 | 12.9 |
| 60°-70° | 508.5 | 8.2 |
| 70°-80° | 231.4 | 3.7 |
| 80°-90° | 60.7 | 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° | 2270.7 | 36.8 |
| 0°-40° | 3509.2 | 56.8 |
| 0°-60° | 5372.7 | 87.0 |
| 0°-90° | 6173.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6173.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3069 | 3069 | 3069 | 3069 | 3069 | |
| 5° | 3170 | 3126 | 3048 | 2969 | 2943 | 304 |
| 15° | 3231 | 3122 | 2878 | 2681 | 2616 | 910 |
| 25° | 2978 | 2790 | 2450 | 2302 | 2272 | 1363 |
| 35° | 2320 | 2158 | 1870 | 1822 | 1875 | 1444 |
| 45° | 1517 | 1434 | 1290 | 1326 | 1421 | 1179 |
| 55° | 959 | 881 | 824 | 894 | 950 | 862 |
| 65° | 576 | 510 | 480 | 501 | 536 | 574 |
| 75° | 279 | 240 | 196 | 179 | 183 | 296 |
| 85° | 61 | 52 | 48 | 52 | 52 | 74 |
| 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° | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 |
| 2.5° | 3126.1 | 3117.4 | 3121.8 | 3117.4 | 3121.8 | 3121.8 | 3113.0 | 3113.0 | 3113.0 | 3113.0 | 3100.0 |
| 5° | 3169.7 | 3165.4 | 3165.4 | 3161.0 | 3156.6 | 3161.0 | 3156.6 | 3152.2 | 3143.6 | 3139.2 | 3126.1 |
| 7.5° | 3195.8 | 3195.8 | 3195.8 | 3195.8 | 3191.5 | 3187.2 | 3182.8 | 3174.0 | 3165.4 | 3156.6 | 3147.9 |
| 10° | 3222.0 | 3226.4 | 3222.0 | 3217.6 | 3213.3 | 3204.6 | 3200.2 | 3191.5 | 3178.4 | 3165.4 | 3156.6 |
| 12.5° | 3235.1 | 3235.1 | 3230.8 | 3230.8 | 3222.0 | 3217.6 | 3204.6 | 3191.5 | 3178.4 | 3165.4 | 3143.6 |
| 15° | 3230.8 | 3230.8 | 3226.4 | 3222.0 | 3209.0 | 3204.6 | 3195.8 | 3182.8 | 3161.0 | 3143.6 | 3121.8 |
| 17.5° | 3204.6 | 3200.2 | 3191.5 | 3191.5 | 3174.0 | 3169.7 | 3161.0 | 3143.6 | 3121.8 | 3095.6 | 3069.4 |
| 20° | 3147.9 | 3147.9 | 3143.6 | 3139.2 | 3121.8 | 3108.6 | 3100.0 | 3078.2 | 3060.7 | 3030.2 | 3004.0 |
| 22.5° | 3069.4 | 3078.2 | 3069.4 | 3060.7 | 3038.9 | 3034.6 | 3021.4 | 2995.3 | 2969.2 | 2934.2 | 2903.8 |
| 25° | 2977.8 | 2973.5 | 2969.2 | 2960.4 | 2943.0 | 2934.2 | 2916.8 | 2890.7 | 2864.5 | 2825.3 | 2790.4 |
| 27.5° | 2860.2 | 2842.7 | 2842.7 | 2825.3 | 2812.2 | 2799.1 | 2790.4 | 2764.2 | 2729.3 | 2698.8 | 2655.2 |
| 30° | 2698.8 | 2703.2 | 2681.4 | 2677.0 | 2655.2 | 2646.5 | 2629.1 | 2602.9 | 2572.4 | 2537.5 | 2502.6 |
| 32.5° | 2524.4 | 2511.3 | 2511.3 | 2493.9 | 2476.5 | 2463.4 | 2459.0 | 2428.5 | 2402.3 | 2367.5 | 2332.6 |
| 35° | 2319.5 | 2319.5 | 2306.5 | 2302.1 | 2284.7 | 2275.9 | 2262.9 | 2245.4 | 2214.9 | 2184.3 | 2158.2 |
| 37.5° | 2118.9 | 2110.3 | 2105.9 | 2097.1 | 2084.1 | 2071.0 | 2071.0 | 2040.5 | 2036.1 | 2001.3 | 1966.3 |
| 40° | 1896.5 | 1905.3 | 1896.5 | 1883.5 | 1879.1 | 1870.5 | 1866.1 | 1848.7 | 1835.5 | 1805.1 | 1783.3 |
| 42.5° | 1709.1 | 1700.3 | 1700.3 | 1696.1 | 1678.5 | 1678.5 | 1669.9 | 1661.1 | 1639.3 | 1630.7 | 1604.5 |
| 45° | 1517.3 | 1525.9 | 1512.9 | 1517.3 | 1499.9 | 1499.9 | 1499.9 | 1482.3 | 1464.9 | 1451.9 | 1434.5 |
| 47.5° | 1351.6 | 1355.9 | 1355.9 | 1342.9 | 1338.5 | 1338.5 | 1329.8 | 1321.1 | 1308.0 | 1290.5 | 1277.5 |
| 50° | 1207.7 | 1212.1 | 1203.3 | 1199.0 | 1190.3 | 1185.9 | 1185.9 | 1168.5 | 1159.7 | 1142.3 | 1133.6 |
| 52.5° | 1076.9 | 1076.9 | 1072.5 | 1072.5 | 1059.5 | 1059.5 | 1050.7 | 1037.7 | 1028.9 | 1020.2 | 998.4 |
| 55° | 959.2 | 959.2 | 954.8 | 950.5 | 950.5 | 937.4 | 933.0 | 920.0 | 911.2 | 893.8 | 880.7 |
| 57.5° | 845.8 | 850.2 | 845.8 | 841.5 | 837.1 | 832.8 | 824.0 | 811.0 | 802.2 | 789.2 | 780.4 |
| 60° | 754.3 | 754.3 | 749.9 | 745.6 | 736.8 | 732.5 | 728.1 | 719.4 | 706.3 | 697.6 | 684.5 |
| 62.5° | 667.1 | 662.7 | 658.4 | 654.0 | 645.3 | 645.3 | 636.6 | 627.8 | 614.8 | 606.0 | 597.3 |
| 65° | 575.5 | 575.5 | 571.2 | 571.2 | 566.8 | 558.1 | 553.7 | 549.4 | 531.9 | 527.6 | 510.1 |
| 67.5° | 492.7 | 497.0 | 488.3 | 488.3 | 479.6 | 479.6 | 475.2 | 462.2 | 457.8 | 449.1 | 440.4 |
| 70° | 418.6 | 418.6 | 418.6 | 414.2 | 405.4 | 401.2 | 396.8 | 388.0 | 383.6 | 375.0 | 366.2 |
| 72.5° | 344.4 | 344.4 | 340.0 | 340.0 | 335.8 | 331.4 | 327.0 | 318.2 | 318.2 | 309.6 | 300.8 |
| 75° | 279.0 | 279.0 | 274.6 | 270.4 | 266.0 | 266.0 | 261.6 | 257.2 | 248.6 | 244.2 | 239.8 |
| 77.5° | 213.6 | 213.6 | 213.6 | 209.2 | 205.0 | 205.0 | 205.0 | 196.2 | 187.4 | 187.4 | 183.2 |
| 80° | 157.0 | 157.0 | 152.6 | 152.6 | 148.2 | 148.2 | 148.2 | 143.8 | 139.6 | 135.2 | 130.8 |
| 82.5° | 104.6 | 104.6 | 104.6 | 104.6 | 100.2 | 100.2 | 100.2 | 96.0 | 91.6 | 91.6 | 91.6 |
| 85° | 61.0 | 61.0 | 61.0 | 61.0 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 52.4 | 52.4 |
| 87.5° | 26.2 | 21.8 | 26.2 | 21.8 | 26.2 | 21.8 | 26.2 | 21.8 | 21.8 | 21.8 | 21.8 |
| 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° | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 |
| 2.5° | 3104.3 | 3100.0 | 3095.6 | 3091.2 | 3091.2 | 3086.8 | 3078.2 | 3073.8 | 3069.4 | 3065.0 | 3065.0 |
| 5° | 3121.8 | 3117.4 | 3108.6 | 3100.0 | 3095.6 | 3086.8 | 3078.2 | 3069.4 | 3060.7 | 3047.6 | 3043.2 |
| 7.5° | 3134.8 | 3121.8 | 3113.0 | 3095.6 | 3091.2 | 3082.5 | 3069.4 | 3056.4 | 3038.9 | 3021.4 | 3008.4 |
| 10° | 3134.8 | 3117.4 | 3104.3 | 3082.5 | 3073.8 | 3065.0 | 3047.6 | 3025.8 | 3004.0 | 2986.6 | 2964.8 |
| 12.5° | 3126.1 | 3104.3 | 3082.5 | 3060.7 | 3047.6 | 3034.6 | 3008.4 | 2986.6 | 2960.4 | 2934.2 | 2916.8 |
| 15° | 3095.6 | 3069.4 | 3043.2 | 3017.1 | 3004.0 | 2986.6 | 2960.4 | 2929.9 | 2903.8 | 2877.6 | 2847.1 |
| 17.5° | 3038.9 | 3012.8 | 2982.2 | 2951.7 | 2934.2 | 2921.2 | 2882.0 | 2860.2 | 2820.9 | 2794.7 | 2768.6 |
| 20° | 2964.8 | 2934.2 | 2895.0 | 2864.5 | 2842.7 | 2829.6 | 2799.1 | 2759.9 | 2729.3 | 2690.1 | 2663.9 |
| 22.5° | 2868.9 | 2829.6 | 2790.4 | 2759.9 | 2738.1 | 2720.6 | 2681.4 | 2642.1 | 2616.0 | 2581.1 | 2550.6 |
| 25° | 2755.5 | 2716.3 | 2677.0 | 2633.4 | 2611.6 | 2594.2 | 2559.3 | 2524.4 | 2489.5 | 2450.3 | 2424.1 |
| 27.5° | 2620.3 | 2576.7 | 2541.9 | 2502.6 | 2480.8 | 2454.7 | 2415.5 | 2380.5 | 2345.7 | 2319.5 | 2284.7 |
| 30° | 2472.1 | 2424.1 | 2389.3 | 2350.1 | 2328.3 | 2306.5 | 2267.2 | 2232.3 | 2201.8 | 2171.3 | 2153.9 |
| 32.5° | 2293.3 | 2258.5 | 2223.6 | 2184.3 | 2166.9 | 2153.9 | 2114.6 | 2079.7 | 2044.9 | 2018.7 | 2005.5 |
| 35° | 2123.3 | 2084.1 | 2053.5 | 2018.7 | 1996.9 | 1983.7 | 1948.9 | 1918.3 | 1900.9 | 1870.5 | 1852.9 |
| 37.5° | 1944.5 | 1914.1 | 1879.1 | 1844.3 | 1831.1 | 1818.1 | 1791.9 | 1761.5 | 1735.3 | 1713.5 | 1704.7 |
| 40° | 1757.1 | 1730.9 | 1700.3 | 1678.5 | 1665.5 | 1652.5 | 1630.7 | 1608.9 | 1591.3 | 1569.5 | 1560.9 |
| 42.5° | 1578.3 | 1560.9 | 1534.7 | 1508.5 | 1495.5 | 1491.1 | 1464.9 | 1447.5 | 1438.8 | 1430.1 | 1421.3 |
| 45° | 1417.0 | 1390.9 | 1373.4 | 1355.9 | 1342.9 | 1334.1 | 1321.1 | 1308.0 | 1299.3 | 1290.5 | 1281.9 |
| 47.5° | 1260.1 | 1238.3 | 1220.8 | 1207.7 | 1194.6 | 1190.3 | 1181.5 | 1168.5 | 1159.7 | 1159.7 | 1159.7 |
| 50° | 1116.1 | 1098.7 | 1081.3 | 1072.5 | 1068.2 | 1059.5 | 1050.7 | 1046.4 | 1042.0 | 1042.0 | 1042.0 |
| 52.5° | 989.7 | 972.3 | 959.2 | 950.5 | 950.5 | 941.8 | 933.0 | 928.7 | 928.7 | 928.7 | 928.7 |
| 55° | 872.0 | 858.9 | 850.2 | 841.5 | 832.8 | 828.4 | 828.4 | 828.4 | 824.0 | 824.0 | 828.4 |
| 57.5° | 767.4 | 758.6 | 745.6 | 736.8 | 732.5 | 732.5 | 728.1 | 723.8 | 728.1 | 732.5 | 736.8 |
| 60° | 671.4 | 662.7 | 658.4 | 645.3 | 645.3 | 645.3 | 640.9 | 640.9 | 640.9 | 645.3 | 649.6 |
| 62.5° | 584.2 | 579.9 | 571.2 | 566.8 | 562.4 | 562.4 | 558.1 | 558.1 | 558.1 | 558.1 | 562.4 |
| 65° | 505.8 | 497.0 | 488.3 | 488.3 | 488.3 | 484.0 | 484.0 | 475.2 | 479.6 | 479.6 | 475.2 |
| 67.5° | 431.6 | 423.0 | 418.6 | 414.2 | 409.8 | 409.8 | 405.4 | 401.2 | 396.8 | 396.8 | 396.8 |
| 70° | 361.8 | 353.2 | 353.2 | 344.4 | 344.4 | 340.0 | 335.8 | 335.8 | 331.4 | 327.0 | 322.6 |
| 72.5° | 292.2 | 287.8 | 283.4 | 279.0 | 279.0 | 279.0 | 274.6 | 270.4 | 266.0 | 261.6 | 252.8 |
| 75° | 231.0 | 231.0 | 222.4 | 218.0 | 218.0 | 213.6 | 209.2 | 205.0 | 200.6 | 196.2 | 191.8 |
| 77.5° | 178.8 | 174.4 | 165.6 | 161.4 | 161.4 | 161.4 | 157.0 | 152.6 | 148.2 | 143.8 | 139.6 |
| 80° | 130.8 | 126.4 | 122.0 | 117.8 | 117.8 | 117.8 | 113.4 | 113.4 | 109.0 | 109.0 | 109.0 |
| 82.5° | 87.2 | 87.2 | 82.8 | 82.8 | 82.8 | 82.8 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 |
| 85° | 52.4 | 52.4 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 |
| 87.5° | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 |
| 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° | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 |
| 2.5° | 3056.4 | 3056.4 | 3047.6 | 3043.2 | 3038.9 | 3043.2 | 3034.6 | 3030.2 | 3025.8 | 3025.8 | 3021.4 |
| 5° | 3030.2 | 3025.8 | 3008.4 | 3004.0 | 2999.6 | 2995.3 | 2986.6 | 2977.8 | 2969.2 | 2964.8 | 2960.4 |
| 7.5° | 2995.3 | 2982.2 | 2964.8 | 2960.4 | 2956.0 | 2943.0 | 2929.9 | 2921.2 | 2908.1 | 2903.8 | 2895.0 |
| 10° | 2947.4 | 2929.9 | 2916.8 | 2903.8 | 2895.0 | 2882.0 | 2868.9 | 2855.8 | 2838.3 | 2834.0 | 2820.9 |
| 12.5° | 2890.7 | 2868.9 | 2842.7 | 2838.3 | 2825.3 | 2807.8 | 2790.4 | 2777.3 | 2764.2 | 2755.5 | 2742.4 |
| 15° | 2820.9 | 2799.1 | 2772.9 | 2759.9 | 2746.8 | 2733.7 | 2711.9 | 2694.5 | 2681.4 | 2668.3 | 2655.2 |
| 17.5° | 2738.1 | 2711.9 | 2690.1 | 2677.0 | 2668.3 | 2646.5 | 2629.1 | 2607.3 | 2594.2 | 2581.1 | 2568.0 |
| 20° | 2637.8 | 2616.0 | 2585.5 | 2572.4 | 2568.0 | 2550.6 | 2528.8 | 2520.1 | 2502.6 | 2489.5 | 2480.8 |
| 22.5° | 2524.4 | 2502.6 | 2476.5 | 2467.7 | 2450.3 | 2441.6 | 2419.8 | 2411.1 | 2402.3 | 2389.3 | 2384.9 |
| 25° | 2398.0 | 2376.2 | 2354.4 | 2350.1 | 2336.9 | 2328.3 | 2315.1 | 2302.1 | 2302.1 | 2289.0 | 2289.0 |
| 27.5° | 2267.2 | 2245.4 | 2227.9 | 2219.3 | 2214.9 | 2206.1 | 2193.1 | 2188.7 | 2184.3 | 2180.0 | 2180.0 |
| 30° | 2127.7 | 2101.5 | 2092.8 | 2088.5 | 2084.1 | 2075.3 | 2071.0 | 2062.3 | 2066.7 | 2071.0 | 2066.7 |
| 32.5° | 1979.5 | 1970.7 | 1953.3 | 1944.5 | 1948.9 | 1944.5 | 1935.9 | 1944.5 | 1940.1 | 1948.9 | 1953.3 |
| 35° | 1835.5 | 1826.9 | 1818.1 | 1818.1 | 1809.3 | 1809.3 | 1809.3 | 1813.7 | 1822.5 | 1826.9 | 1835.5 |
| 37.5° | 1696.1 | 1682.9 | 1678.5 | 1674.3 | 1678.5 | 1678.5 | 1678.5 | 1687.3 | 1696.1 | 1704.7 | 1717.9 |
| 40° | 1547.7 | 1539.1 | 1539.1 | 1539.1 | 1539.1 | 1552.1 | 1547.7 | 1556.5 | 1565.3 | 1578.3 | 1591.3 |
| 42.5° | 1408.3 | 1408.3 | 1412.7 | 1412.7 | 1412.7 | 1412.7 | 1421.3 | 1434.5 | 1447.5 | 1460.6 | 1473.7 |
| 45° | 1277.5 | 1277.5 | 1277.5 | 1286.2 | 1286.2 | 1290.5 | 1308.0 | 1316.7 | 1325.5 | 1338.5 | 1351.6 |
| 47.5° | 1155.4 | 1155.4 | 1159.7 | 1164.1 | 1168.5 | 1177.2 | 1185.9 | 1199.0 | 1212.1 | 1220.8 | 1233.9 |
| 50° | 1042.0 | 1046.4 | 1055.1 | 1063.8 | 1063.8 | 1068.2 | 1081.3 | 1090.0 | 1098.7 | 1111.8 | 1116.1 |
| 52.5° | 933.0 | 941.8 | 950.5 | 954.8 | 959.2 | 967.9 | 972.3 | 985.3 | 989.7 | 1002.8 | 1007.1 |
| 55° | 832.8 | 837.1 | 850.2 | 854.6 | 854.6 | 863.3 | 872.0 | 880.7 | 893.8 | 893.8 | 902.5 |
| 57.5° | 741.2 | 745.6 | 754.3 | 758.6 | 754.3 | 767.4 | 771.7 | 780.4 | 784.8 | 793.5 | 797.9 |
| 60° | 649.6 | 658.4 | 662.7 | 662.7 | 667.1 | 671.4 | 680.2 | 680.2 | 688.9 | 697.6 | 697.6 |
| 62.5° | 562.4 | 566.8 | 571.2 | 575.5 | 579.9 | 575.5 | 588.6 | 588.6 | 597.3 | 601.7 | 610.4 |
| 65° | 479.6 | 484.0 | 484.0 | 488.3 | 488.3 | 492.7 | 492.7 | 497.0 | 501.4 | 510.1 | 514.5 |
| 67.5° | 396.8 | 396.8 | 396.8 | 401.2 | 396.8 | 401.2 | 401.2 | 405.4 | 405.4 | 414.2 | 418.6 |
| 70° | 322.6 | 318.2 | 314.0 | 314.0 | 314.0 | 314.0 | 309.6 | 314.0 | 314.0 | 318.2 | 318.2 |
| 72.5° | 248.6 | 244.2 | 239.8 | 235.4 | 235.4 | 231.0 | 226.8 | 231.0 | 231.0 | 235.4 | 235.4 |
| 75° | 187.4 | 178.8 | 178.8 | 178.8 | 174.4 | 174.4 | 174.4 | 178.8 | 178.8 | 178.8 | 183.2 |
| 77.5° | 139.6 | 139.6 | 135.2 | 135.2 | 135.2 | 139.6 | 139.6 | 143.8 | 143.8 | 143.8 | 143.8 |
| 80° | 104.6 | 109.0 | 109.0 | 109.0 | 109.0 | 113.4 | 113.4 | 113.4 | 113.4 | 117.8 | 117.8 |
| 82.5° | 78.4 | 78.4 | 78.4 | 78.4 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 |
| 85° | 48.0 | 52.4 | 52.4 | 48.0 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| 87.5° | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 |
| 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: P593872

CATALOG NUMBER: HCC8S60D010MB-HM86080850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 | 3069.4 |
| 2.5° | 3017.1 | 3017.1 | 3017.1 | 3017.1 | 3012.8 | 3012.8 | 3012.8 | 3008.4 |
| 5° | 2951.7 | 2951.7 | 2951.7 | 2943.0 | 2947.4 | 2947.4 | 2938.6 | 2943.0 |
| 7.5° | 2886.3 | 2882.0 | 2877.6 | 2877.6 | 2873.2 | 2868.9 | 2864.5 | 2868.9 |
| 10° | 2812.2 | 2799.1 | 2799.1 | 2794.7 | 2794.7 | 2786.0 | 2786.0 | 2790.4 |
| 12.5° | 2729.3 | 2720.6 | 2720.6 | 2716.3 | 2711.9 | 2707.5 | 2703.2 | 2703.2 |
| 15° | 2646.5 | 2637.8 | 2633.4 | 2629.1 | 2624.7 | 2616.0 | 2620.3 | 2616.0 |
| 17.5° | 2563.7 | 2550.6 | 2550.6 | 2546.2 | 2541.9 | 2533.1 | 2533.1 | 2528.8 |
| 20° | 2467.7 | 2463.4 | 2454.7 | 2459.0 | 2454.7 | 2445.9 | 2441.6 | 2441.6 |
| 22.5° | 2371.9 | 2371.9 | 2367.5 | 2367.5 | 2363.1 | 2358.7 | 2354.4 | 2354.4 |
| 25° | 2280.3 | 2275.9 | 2280.3 | 2280.3 | 2267.2 | 2267.2 | 2267.2 | 2271.5 |
| 27.5° | 2175.7 | 2180.0 | 2175.7 | 2175.7 | 2175.7 | 2175.7 | 2180.0 | 2175.7 |
| 30° | 2071.0 | 2071.0 | 2071.0 | 2075.3 | 2084.1 | 2079.7 | 2079.7 | 2075.3 |
| 32.5° | 1957.7 | 1961.9 | 1961.9 | 1966.3 | 1970.7 | 1979.5 | 1979.5 | 1983.7 |
| 35° | 1844.3 | 1852.9 | 1857.3 | 1852.9 | 1866.1 | 1866.1 | 1874.7 | 1874.7 |
| 37.5° | 1726.5 | 1730.9 | 1739.7 | 1743.9 | 1752.7 | 1757.1 | 1761.5 | 1761.5 |
| 40° | 1600.1 | 1617.5 | 1621.9 | 1626.3 | 1639.3 | 1639.3 | 1643.7 | 1652.5 |
| 42.5° | 1482.3 | 1499.9 | 1504.1 | 1508.5 | 1517.3 | 1530.3 | 1525.9 | 1534.7 |
| 45° | 1369.1 | 1382.1 | 1386.5 | 1390.9 | 1403.9 | 1408.3 | 1408.3 | 1421.3 |
| 47.5° | 1246.9 | 1255.7 | 1260.1 | 1268.7 | 1277.5 | 1286.2 | 1294.9 | 1290.5 |
| 50° | 1124.9 | 1137.9 | 1146.7 | 1151.0 | 1164.1 | 1168.5 | 1172.8 | 1177.2 |
| 52.5° | 1015.9 | 1024.6 | 1028.9 | 1033.3 | 1046.4 | 1050.7 | 1055.1 | 1063.8 |
| 55° | 911.2 | 915.6 | 924.3 | 920.0 | 933.0 | 937.4 | 941.8 | 950.5 |
| 57.5° | 806.6 | 811.0 | 815.3 | 815.3 | 824.0 | 832.8 | 837.1 | 841.5 |
| 60° | 706.3 | 715.0 | 719.4 | 719.4 | 719.4 | 728.1 | 728.1 | 728.1 |
| 62.5° | 614.8 | 614.8 | 619.1 | 619.1 | 627.8 | 627.8 | 627.8 | 627.8 |
| 65° | 518.8 | 523.2 | 527.6 | 527.6 | 536.3 | 531.9 | 540.6 | 536.3 |
| 67.5° | 418.6 | 418.6 | 427.3 | 427.3 | 423.0 | 427.3 | 427.3 | 427.3 |
| 70° | 318.2 | 318.2 | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 | 322.6 |
| 72.5° | 235.4 | 235.4 | 235.4 | 239.8 | 235.4 | 235.4 | 239.8 | 235.4 |
| 75° | 183.2 | 183.2 | 183.2 | 183.2 | 183.2 | 183.2 | 183.2 | 183.2 |
| 77.5° | 143.8 | 143.8 | 148.2 | 148.2 | 148.2 | 148.2 | 148.2 | 148.2 |
| 80° | 117.8 | 117.8 | 117.8 | 117.8 | 122.0 | 117.8 | 117.8 | 117.8 |
| 82.5° | 87.2 | 82.8 | 87.2 | 82.8 | 87.2 | 87.2 | 87.2 | 87.2 |
| 85° | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| 87.5° | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 |
| 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)