

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: P585201

Luminaire Tested: **HCC8W80D010BZ-HM86080827-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585201
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: HCC8W80D010BZ-HM86080827-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

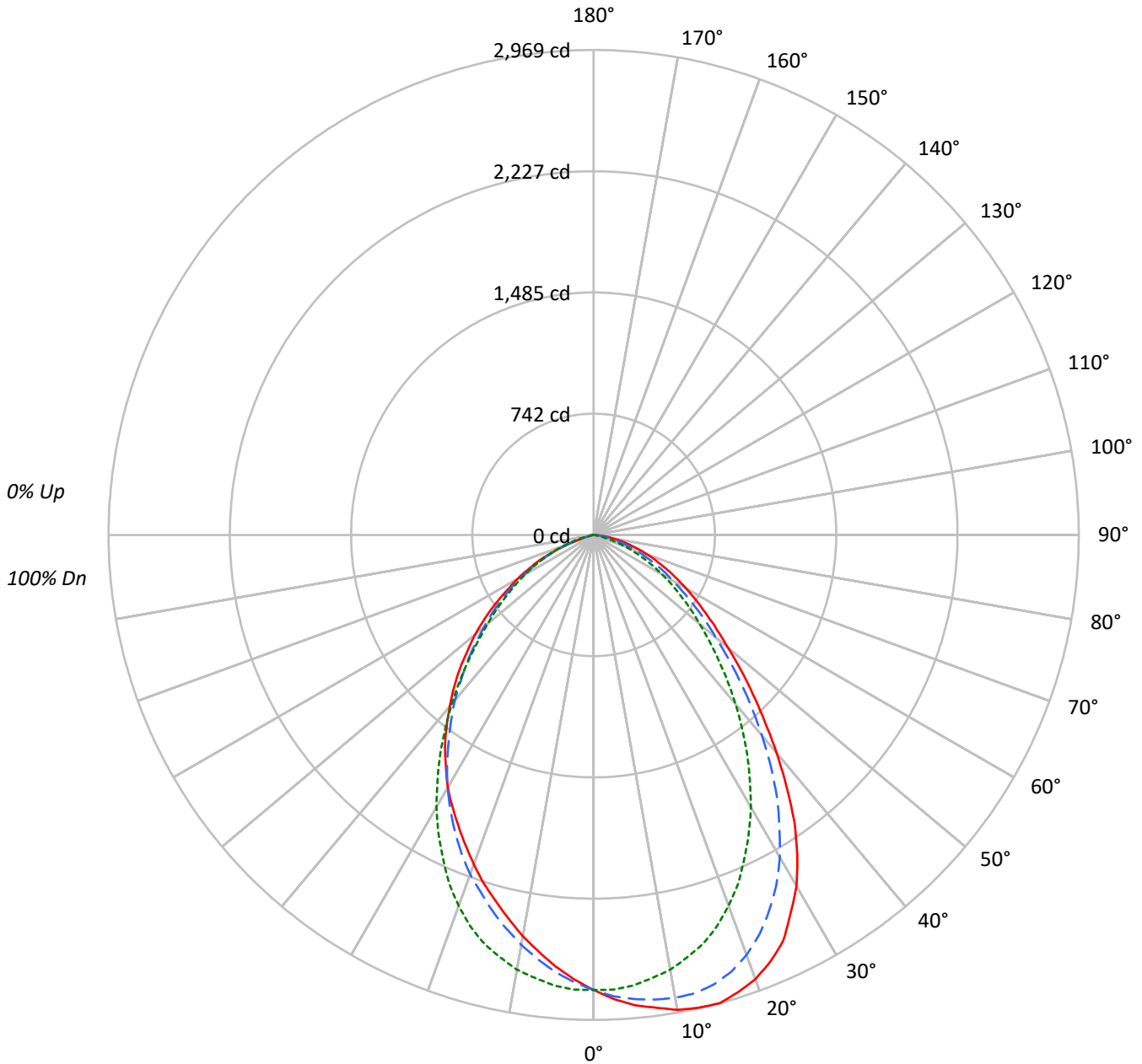
Lumens per Lamp: N/A
Luminaire Lumens: 5189.2 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P585201
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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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | 88 |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | 67 |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | 59 |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | 53 |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | 43 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | 39 |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | 35 |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 85904 | 85904 | 85904 |
| 5° | 89457 | 85718 | 82112 |
| 10° | 92446 | 84624 | 78105 |
| 15° | 94786 | 82687 | 74048 |
| 20° | 94971 | 79256 | 70376 |
| 25° | 93369 | 74244 | 66735 |
| 30° | 88372 | 68504 | 63611 |
| 35° | 80574 | 61605 | 59726 |
| 40° | 70070 | 54311 | 55148 |
| 45° | 60111 | 47032 | 50482 |
| 50° | 51340 | 40556 | 45349 |
| 55° | 45004 | 34929 | 39402 |
| 60° | 40069 | 29794 | 33131 |
| 65° | 35556 | 24312 | 26435 |
| 70° | 31538 | 18023 | 15021 |
| 75° | 26295 | 9424 | 4468 |
| 80° | 20706 | 2948 | 746 |
| 85° | 14718 | 1486 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 262.5 | 5.1 |
| 10°-20° | 735.7 | 14.2 |
| 20°-30° | 1041.4 | 20.1 |
| 30°-40° | 1089.5 | 21.0 |
| 40°-50° | 908.7 | 17.5 |
| 50°-60° | 644.4 | 12.4 |
| 60°-70° | 371.1 | 7.2 |
| 70°-80° | 119.4 | 2.3 |
| 80°-90° | 16.4 | 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° | 2039.6 | 39.3 |
| 0°-40° | 3129.1 | 60.3 |
| 0°-60° | 4682.2 | 90.2 |
| 0°-90° | 5189.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5189.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2786 | 2786 | 2786 | 2786 | 2786 | |
| 5° | 2890 | 2852 | 2769 | 2686 | 2653 | 277 |
| 15° | 2969 | 2848 | 2590 | 2386 | 2320 | 835 |
| 25° | 2744 | 2540 | 2182 | 2007 | 1961 | 1252 |
| 35° | 2140 | 1953 | 1636 | 1549 | 1587 | 1327 |
| 45° | 1378 | 1266 | 1078 | 1091 | 1158 | 1068 |
| 55° | 837 | 750 | 650 | 683 | 733 | 756 |
| 65° | 487 | 408 | 333 | 333 | 362 | 487 |
| 75° | 221 | 162 | 79 | 38 | 38 | 239 |
| 85° | 42 | 21 | 4 | 0 | 0 | 52 |
| 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° | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 |
| 2.5° | 2844.2 | 2840.0 | 2835.9 | 2840.0 | 2835.9 | 2840.0 | 2835.9 | 2835.9 | 2831.6 | 2827.4 | 2827.4 |
| 5° | 2890.0 | 2885.8 | 2885.8 | 2885.8 | 2881.7 | 2877.5 | 2877.5 | 2873.3 | 2865.0 | 2860.9 | 2852.5 |
| 7.5° | 2919.1 | 2923.3 | 2923.3 | 2923.3 | 2915.0 | 2915.0 | 2906.6 | 2898.3 | 2890.0 | 2881.7 | 2869.2 |
| 10° | 2952.4 | 2952.4 | 2948.2 | 2944.1 | 2935.8 | 2931.6 | 2927.4 | 2919.1 | 2906.6 | 2890.0 | 2877.5 |
| 12.5° | 2964.9 | 2964.9 | 2960.7 | 2952.4 | 2948.2 | 2944.1 | 2939.9 | 2927.4 | 2910.8 | 2890.0 | 2873.3 |
| 15° | 2969.1 | 2960.7 | 2956.6 | 2952.4 | 2944.1 | 2931.6 | 2931.6 | 2915.0 | 2894.1 | 2869.2 | 2848.4 |
| 17.5° | 2935.8 | 2939.9 | 2931.6 | 2923.3 | 2910.8 | 2902.5 | 2890.0 | 2877.5 | 2852.5 | 2823.3 | 2802.5 |
| 20° | 2894.1 | 2890.0 | 2885.8 | 2873.3 | 2856.7 | 2852.5 | 2840.0 | 2819.1 | 2798.3 | 2765.0 | 2735.9 |
| 22.5° | 2827.4 | 2823.3 | 2815.0 | 2806.6 | 2790.0 | 2781.7 | 2769.2 | 2744.2 | 2715.1 | 2681.8 | 2648.4 |
| 25° | 2744.2 | 2735.9 | 2723.4 | 2706.8 | 2694.3 | 2686.0 | 2669.3 | 2644.2 | 2610.9 | 2573.5 | 2540.2 |
| 27.5° | 2610.9 | 2623.4 | 2615.1 | 2590.1 | 2577.6 | 2561.0 | 2556.8 | 2523.5 | 2494.4 | 2456.8 | 2419.4 |
| 30° | 2481.9 | 2481.9 | 2469.4 | 2456.8 | 2436.0 | 2423.5 | 2406.9 | 2381.9 | 2352.8 | 2307.0 | 2277.8 |
| 32.5° | 2319.5 | 2315.3 | 2298.7 | 2294.5 | 2277.8 | 2252.8 | 2248.6 | 2215.3 | 2186.2 | 2152.9 | 2115.5 |
| 35° | 2140.4 | 2132.1 | 2115.5 | 2102.9 | 2094.5 | 2082.1 | 2069.6 | 2040.4 | 2011.3 | 1978.0 | 1953.1 |
| 37.5° | 1936.4 | 1936.4 | 1932.2 | 1911.3 | 1903.0 | 1894.7 | 1882.2 | 1853.1 | 1836.4 | 1803.1 | 1778.1 |
| 40° | 1740.7 | 1736.4 | 1723.9 | 1719.8 | 1711.4 | 1699.0 | 1690.6 | 1674.0 | 1649.0 | 1624.1 | 1599.1 |
| 42.5° | 1549.0 | 1553.2 | 1536.5 | 1540.7 | 1524.1 | 1515.7 | 1511.6 | 1486.6 | 1474.1 | 1449.2 | 1428.3 |
| 45° | 1378.4 | 1374.2 | 1365.8 | 1361.6 | 1353.3 | 1345.0 | 1336.7 | 1324.2 | 1303.4 | 1278.4 | 1265.9 |
| 47.5° | 1220.2 | 1207.7 | 1207.7 | 1203.5 | 1199.3 | 1182.6 | 1178.4 | 1165.9 | 1153.4 | 1128.5 | 1111.8 |
| 50° | 1070.2 | 1070.2 | 1070.2 | 1066.1 | 1053.6 | 1049.4 | 1041.1 | 1028.6 | 1016.1 | 999.4 | 974.4 |
| 52.5° | 949.4 | 949.4 | 949.4 | 945.3 | 928.6 | 924.4 | 920.3 | 903.6 | 887.0 | 874.5 | 857.9 |
| 55° | 837.1 | 841.2 | 837.1 | 828.7 | 816.1 | 816.1 | 803.6 | 795.3 | 778.7 | 766.2 | 749.5 |
| 57.5° | 741.2 | 741.2 | 732.9 | 728.7 | 720.4 | 716.3 | 707.9 | 699.6 | 678.8 | 666.3 | 645.5 |
| 60° | 649.7 | 645.5 | 645.5 | 637.1 | 628.7 | 620.4 | 616.3 | 603.8 | 595.5 | 574.6 | 558.0 |
| 62.5° | 566.3 | 566.3 | 558.0 | 558.0 | 541.4 | 541.4 | 537.2 | 524.7 | 512.2 | 491.4 | 483.1 |
| 65° | 487.3 | 487.3 | 483.1 | 478.9 | 466.4 | 462.3 | 458.1 | 445.5 | 433.0 | 420.5 | 408.1 |
| 67.5° | 416.4 | 416.4 | 408.1 | 403.9 | 395.6 | 391.4 | 383.1 | 374.8 | 362.3 | 349.8 | 337.3 |
| 70° | 349.8 | 345.6 | 341.5 | 337.3 | 329.0 | 324.8 | 316.5 | 308.2 | 295.7 | 287.4 | 274.9 |
| 72.5° | 283.2 | 283.2 | 279.1 | 270.6 | 266.5 | 262.3 | 258.1 | 249.8 | 237.3 | 224.8 | 216.5 |
| 75° | 220.7 | 220.7 | 220.7 | 212.4 | 204.0 | 199.9 | 199.9 | 191.5 | 183.2 | 170.7 | 162.4 |
| 77.5° | 170.7 | 166.6 | 162.4 | 162.4 | 154.1 | 149.9 | 145.8 | 141.6 | 129.1 | 125.0 | 116.6 |
| 80° | 116.6 | 120.8 | 116.6 | 112.5 | 108.3 | 104.2 | 104.2 | 95.8 | 91.7 | 83.2 | 74.9 |
| 82.5° | 79.1 | 74.9 | 74.9 | 70.7 | 70.7 | 66.6 | 66.6 | 58.3 | 54.1 | 49.9 | 45.8 |
| 85° | 41.6 | 41.6 | 37.5 | 37.5 | 37.5 | 33.3 | 33.3 | 29.1 | 29.1 | 25.0 | 20.8 |
| 87.5° | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 8.3 | 8.3 | 8.3 |
| 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° | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 |
| 2.5° | 2823.3 | 2815.0 | 2810.8 | 2810.8 | 2806.6 | 2802.5 | 2798.3 | 2794.2 | 2785.8 | 2785.8 | 2777.5 |
| 5° | 2844.2 | 2835.9 | 2831.6 | 2819.1 | 2810.8 | 2810.8 | 2794.2 | 2790.0 | 2777.5 | 2769.2 | 2760.9 |
| 7.5° | 2860.9 | 2844.2 | 2831.6 | 2819.1 | 2810.8 | 2802.5 | 2785.8 | 2769.2 | 2752.5 | 2735.9 | 2727.6 |
| 10° | 2860.9 | 2844.2 | 2823.3 | 2802.5 | 2794.2 | 2785.8 | 2765.0 | 2740.1 | 2719.2 | 2702.6 | 2681.8 |
| 12.5° | 2852.5 | 2827.4 | 2802.5 | 2785.8 | 2769.2 | 2756.7 | 2731.7 | 2706.8 | 2681.8 | 2648.4 | 2631.7 |
| 15° | 2827.4 | 2794.2 | 2769.2 | 2740.1 | 2727.6 | 2706.8 | 2686.0 | 2648.4 | 2619.2 | 2590.1 | 2569.3 |
| 17.5° | 2777.5 | 2735.9 | 2706.8 | 2677.6 | 2656.8 | 2644.2 | 2610.9 | 2577.6 | 2544.3 | 2511.0 | 2486.1 |
| 20° | 2702.6 | 2665.1 | 2631.7 | 2594.3 | 2577.6 | 2561.0 | 2519.4 | 2486.1 | 2452.7 | 2415.2 | 2390.2 |
| 22.5° | 2610.9 | 2573.5 | 2527.7 | 2498.6 | 2473.6 | 2452.7 | 2415.2 | 2377.8 | 2344.5 | 2311.2 | 2277.8 |
| 25° | 2498.6 | 2461.0 | 2419.4 | 2373.6 | 2357.0 | 2336.1 | 2294.5 | 2257.0 | 2219.5 | 2182.1 | 2152.9 |
| 27.5° | 2377.8 | 2327.8 | 2294.5 | 2244.5 | 2227.8 | 2207.0 | 2161.2 | 2119.6 | 2086.2 | 2057.1 | 2023.8 |
| 30° | 2232.0 | 2194.5 | 2148.8 | 2102.9 | 2086.2 | 2065.4 | 2028.0 | 1990.5 | 1957.2 | 1923.9 | 1890.5 |
| 32.5° | 2073.7 | 2036.3 | 1990.5 | 1957.2 | 1932.2 | 1915.5 | 1878.0 | 1844.7 | 1811.4 | 1778.1 | 1749.0 |
| 35° | 1907.2 | 1865.5 | 1832.2 | 1799.0 | 1778.1 | 1757.3 | 1719.8 | 1690.6 | 1665.7 | 1636.5 | 1607.4 |
| 37.5° | 1736.4 | 1707.3 | 1674.0 | 1636.5 | 1615.7 | 1599.1 | 1570.0 | 1536.5 | 1515.7 | 1490.8 | 1470.0 |
| 40° | 1570.0 | 1536.5 | 1507.4 | 1474.1 | 1457.5 | 1445.0 | 1415.9 | 1390.9 | 1370.0 | 1349.2 | 1336.7 |
| 42.5° | 1399.2 | 1370.0 | 1340.8 | 1320.0 | 1307.5 | 1295.1 | 1274.3 | 1245.1 | 1232.6 | 1211.8 | 1199.3 |
| 45° | 1241.0 | 1216.0 | 1195.2 | 1165.9 | 1157.6 | 1149.3 | 1124.3 | 1103.5 | 1091.0 | 1078.5 | 1070.2 |
| 47.5° | 1091.0 | 1074.4 | 1049.4 | 1032.8 | 1020.3 | 1012.0 | 995.2 | 978.5 | 966.1 | 957.7 | 949.4 |
| 50° | 961.9 | 941.1 | 924.4 | 907.8 | 899.5 | 887.0 | 870.3 | 862.0 | 853.7 | 845.4 | 845.4 |
| 52.5° | 841.2 | 820.3 | 803.6 | 791.2 | 782.8 | 774.5 | 762.0 | 757.9 | 749.5 | 749.5 | 745.4 |
| 55° | 728.7 | 716.3 | 699.6 | 683.0 | 678.8 | 674.6 | 666.3 | 658.0 | 653.8 | 649.7 | 653.8 |
| 57.5° | 632.9 | 620.4 | 603.8 | 591.3 | 587.1 | 583.0 | 578.8 | 570.5 | 566.3 | 566.3 | 566.3 |
| 60° | 545.5 | 533.0 | 520.5 | 508.1 | 508.1 | 499.7 | 495.6 | 491.4 | 487.3 | 483.1 | 483.1 |
| 62.5° | 466.4 | 453.8 | 441.4 | 433.0 | 428.9 | 424.7 | 416.4 | 412.2 | 408.1 | 408.1 | 403.9 |
| 65° | 395.6 | 378.9 | 374.8 | 362.3 | 358.1 | 354.0 | 349.8 | 341.5 | 337.3 | 333.2 | 329.0 |
| 67.5° | 324.8 | 316.5 | 304.0 | 295.7 | 291.5 | 287.4 | 283.2 | 274.9 | 270.6 | 266.5 | 258.1 |
| 70° | 262.3 | 254.0 | 245.6 | 237.3 | 233.2 | 229.0 | 220.7 | 212.4 | 208.2 | 199.9 | 187.4 |
| 72.5° | 204.0 | 195.7 | 187.4 | 179.1 | 174.9 | 170.7 | 162.4 | 154.1 | 145.8 | 137.4 | 129.1 |
| 75° | 154.1 | 145.8 | 133.3 | 125.0 | 120.8 | 120.8 | 108.3 | 100.0 | 91.7 | 79.1 | 70.7 |
| 77.5° | 108.3 | 95.8 | 91.7 | 83.2 | 79.1 | 70.7 | 62.4 | 54.1 | 45.8 | 41.6 | 33.3 |
| 80° | 70.7 | 62.4 | 54.1 | 49.9 | 45.8 | 41.6 | 37.5 | 29.1 | 20.8 | 16.6 | 12.5 |
| 82.5° | 41.6 | 37.5 | 33.3 | 29.1 | 25.0 | 20.8 | 16.6 | 16.6 | 12.5 | 8.3 | 4.2 |
| 85° | 20.8 | 16.6 | 12.5 | 12.5 | 8.3 | 8.3 | 8.3 | 4.2 | 4.2 | 4.2 | 4.2 |
| 87.5° | 8.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 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° | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 |
| 2.5° | 2773.3 | 2769.2 | 2765.0 | 2760.9 | 2760.9 | 2752.5 | 2752.5 | 2748.4 | 2740.1 | 2735.9 | 2735.9 |
| 5° | 2748.4 | 2735.9 | 2727.6 | 2723.4 | 2719.2 | 2706.8 | 2702.6 | 2694.3 | 2686.0 | 2677.6 | 2673.5 |
| 7.5° | 2710.9 | 2690.1 | 2681.8 | 2677.6 | 2665.1 | 2652.7 | 2644.2 | 2631.7 | 2619.2 | 2606.8 | 2602.6 |
| 10° | 2665.1 | 2644.2 | 2623.4 | 2615.1 | 2602.6 | 2594.3 | 2577.6 | 2561.0 | 2548.5 | 2536.0 | 2523.5 |
| 12.5° | 2606.8 | 2581.8 | 2561.0 | 2552.7 | 2540.2 | 2523.5 | 2498.6 | 2490.2 | 2469.4 | 2461.0 | 2444.3 |
| 15° | 2540.2 | 2511.0 | 2490.2 | 2477.8 | 2465.2 | 2440.2 | 2423.5 | 2406.9 | 2386.1 | 2377.8 | 2361.1 |
| 17.5° | 2456.8 | 2423.5 | 2402.7 | 2390.2 | 2381.9 | 2361.1 | 2336.1 | 2315.3 | 2294.5 | 2286.2 | 2273.6 |
| 20° | 2357.0 | 2336.1 | 2307.0 | 2294.5 | 2286.2 | 2261.1 | 2236.2 | 2227.8 | 2211.2 | 2194.5 | 2182.1 |
| 22.5° | 2244.5 | 2223.7 | 2194.5 | 2182.1 | 2177.9 | 2157.1 | 2136.3 | 2123.8 | 2111.3 | 2098.7 | 2086.2 |
| 25° | 2128.0 | 2102.9 | 2077.9 | 2069.6 | 2061.3 | 2044.6 | 2028.0 | 2019.6 | 2007.2 | 1998.8 | 1990.5 |
| 27.5° | 2003.0 | 1978.0 | 1957.2 | 1944.7 | 1936.4 | 1923.9 | 1915.5 | 1907.2 | 1898.8 | 1890.5 | 1886.3 |
| 30° | 1869.7 | 1844.7 | 1828.1 | 1819.8 | 1811.4 | 1807.3 | 1794.8 | 1790.6 | 1786.5 | 1778.1 | 1782.3 |
| 32.5° | 1736.4 | 1715.6 | 1699.0 | 1686.5 | 1686.5 | 1678.2 | 1674.0 | 1674.0 | 1669.8 | 1669.8 | 1669.8 |
| 35° | 1590.8 | 1578.3 | 1565.8 | 1561.6 | 1557.5 | 1553.2 | 1549.0 | 1553.2 | 1549.0 | 1553.2 | 1557.5 |
| 37.5° | 1457.5 | 1445.0 | 1436.7 | 1432.5 | 1428.3 | 1432.5 | 1428.3 | 1428.3 | 1432.5 | 1440.8 | 1445.0 |
| 40° | 1320.0 | 1311.7 | 1303.4 | 1307.5 | 1303.4 | 1303.4 | 1303.4 | 1315.9 | 1320.0 | 1324.2 | 1328.4 |
| 42.5° | 1191.0 | 1182.6 | 1178.4 | 1178.4 | 1182.6 | 1178.4 | 1186.7 | 1191.0 | 1199.3 | 1211.8 | 1220.2 |
| 45° | 1066.1 | 1061.9 | 1061.9 | 1066.1 | 1061.9 | 1070.2 | 1070.2 | 1078.5 | 1091.0 | 1099.3 | 1107.7 |
| 47.5° | 949.4 | 949.4 | 949.4 | 953.6 | 953.6 | 957.7 | 966.1 | 970.2 | 978.5 | 986.9 | 995.2 |
| 50° | 841.2 | 845.4 | 849.5 | 849.5 | 849.5 | 857.9 | 866.2 | 870.3 | 874.5 | 878.7 | 891.2 |
| 52.5° | 745.4 | 749.5 | 749.5 | 753.7 | 757.9 | 762.0 | 766.2 | 774.5 | 778.7 | 787.0 | 791.2 |
| 55° | 653.8 | 653.8 | 662.2 | 666.3 | 666.3 | 666.3 | 674.6 | 674.6 | 683.0 | 687.1 | 695.4 |
| 57.5° | 566.3 | 570.5 | 570.5 | 574.6 | 574.6 | 578.8 | 583.0 | 587.1 | 591.3 | 595.5 | 599.6 |
| 60° | 483.1 | 483.1 | 483.1 | 487.3 | 491.4 | 495.6 | 491.4 | 499.7 | 499.7 | 508.1 | 512.2 |
| 62.5° | 403.9 | 408.1 | 408.1 | 408.1 | 408.1 | 408.1 | 408.1 | 412.2 | 416.4 | 420.5 | 424.7 |
| 65° | 329.0 | 329.0 | 329.0 | 324.8 | 329.0 | 324.8 | 329.0 | 333.2 | 333.2 | 337.3 | 341.5 |
| 67.5° | 254.0 | 254.0 | 245.6 | 245.6 | 249.8 | 249.8 | 249.8 | 249.8 | 245.6 | 254.0 | 254.0 |
| 70° | 183.2 | 179.1 | 174.9 | 170.7 | 170.7 | 166.6 | 166.6 | 162.4 | 162.4 | 162.4 | 162.4 |
| 72.5° | 120.8 | 112.5 | 104.2 | 100.0 | 95.8 | 95.8 | 87.4 | 83.2 | 87.4 | 87.4 | 87.4 |
| 75° | 62.4 | 54.1 | 49.9 | 45.8 | 41.6 | 41.6 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 |
| 77.5° | 25.0 | 20.8 | 16.6 | 16.6 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| 80° | 8.3 | 8.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 82.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 85° | 4.2 | 0.0 | 0.0 | 4.2 | 0.0 | 4.2 | 4.2 | 4.2 | 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: P585201

CATALOG NUMBER: HCC8W80D010BZ-HM86080827-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 | 2785.8 |
| 2.5° | 2731.7 | 2731.7 | 2727.6 | 2731.7 | 2723.4 | 2727.6 | 2723.4 | 2723.4 |
| 5° | 2669.3 | 2661.0 | 2661.0 | 2661.0 | 2656.8 | 2656.8 | 2652.7 | 2652.7 |
| 7.5° | 2594.3 | 2590.1 | 2586.0 | 2581.8 | 2577.6 | 2573.5 | 2573.5 | 2573.5 |
| 10° | 2519.4 | 2511.0 | 2511.0 | 2506.9 | 2498.6 | 2494.4 | 2494.4 | 2494.4 |
| 12.5° | 2431.9 | 2427.7 | 2423.5 | 2423.5 | 2406.9 | 2411.1 | 2406.9 | 2406.9 |
| 15° | 2348.6 | 2344.5 | 2344.5 | 2332.0 | 2323.7 | 2323.7 | 2323.7 | 2319.5 |
| 17.5° | 2261.1 | 2257.0 | 2252.8 | 2244.5 | 2236.2 | 2236.2 | 2232.0 | 2236.2 |
| 20° | 2169.6 | 2165.4 | 2157.1 | 2157.1 | 2152.9 | 2148.8 | 2140.4 | 2144.6 |
| 22.5° | 2077.9 | 2069.6 | 2065.4 | 2065.4 | 2061.3 | 2061.3 | 2052.9 | 2052.9 |
| 25° | 1982.2 | 1978.0 | 1973.9 | 1978.0 | 1969.7 | 1969.7 | 1961.4 | 1961.4 |
| 27.5° | 1882.2 | 1878.0 | 1878.0 | 1878.0 | 1873.9 | 1878.0 | 1873.9 | 1873.9 |
| 30° | 1782.3 | 1782.3 | 1778.1 | 1778.1 | 1782.3 | 1778.1 | 1782.3 | 1786.5 |
| 32.5° | 1674.0 | 1674.0 | 1678.2 | 1678.2 | 1682.3 | 1682.3 | 1682.3 | 1682.3 |
| 35° | 1561.6 | 1570.0 | 1570.0 | 1574.1 | 1578.3 | 1582.4 | 1582.4 | 1586.6 |
| 37.5° | 1457.5 | 1461.6 | 1465.8 | 1470.0 | 1478.3 | 1478.3 | 1478.3 | 1478.3 |
| 40° | 1345.0 | 1349.2 | 1357.5 | 1353.3 | 1370.0 | 1374.2 | 1370.0 | 1370.0 |
| 42.5° | 1228.5 | 1236.8 | 1241.0 | 1249.3 | 1253.4 | 1261.8 | 1265.9 | 1265.9 |
| 45° | 1120.2 | 1124.3 | 1132.6 | 1141.0 | 1145.1 | 1157.6 | 1157.6 | 1157.6 |
| 47.5° | 1007.8 | 1016.1 | 1020.3 | 1028.6 | 1032.8 | 1045.2 | 1049.4 | 1045.2 |
| 50° | 899.5 | 907.8 | 916.1 | 916.1 | 928.6 | 932.8 | 941.1 | 945.3 |
| 52.5° | 795.3 | 799.5 | 807.8 | 812.0 | 820.3 | 828.7 | 832.9 | 837.1 |
| 55° | 695.4 | 699.6 | 707.9 | 707.9 | 720.4 | 724.6 | 732.9 | 732.9 |
| 57.5° | 603.8 | 607.9 | 616.3 | 612.1 | 620.4 | 628.7 | 628.7 | 624.6 |
| 60° | 516.4 | 516.4 | 516.4 | 524.7 | 528.9 | 533.0 | 537.2 | 537.2 |
| 62.5° | 424.7 | 433.0 | 437.2 | 437.2 | 441.4 | 445.5 | 445.5 | 441.4 |
| 65° | 341.5 | 349.8 | 354.0 | 354.0 | 358.1 | 358.1 | 358.1 | 362.3 |
| 67.5° | 258.1 | 258.1 | 258.1 | 262.3 | 258.1 | 258.1 | 258.1 | 258.1 |
| 70° | 162.4 | 162.4 | 162.4 | 162.4 | 158.3 | 162.4 | 162.4 | 166.6 |
| 72.5° | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 |
| 75° | 37.5 | 37.5 | 37.5 | 41.6 | 37.5 | 37.5 | 37.5 | 37.5 |
| 77.5° | 16.6 | 12.5 | 16.6 | 16.6 | 12.5 | 12.5 | 12.5 | 12.5 |
| 80° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 82.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 85° | 0.0 | 4.2 | 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 |

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)