

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: P584827

Luminaire Tested: **HCC8S50D010MB-HM82555835-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584827
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: HCC8S50D010MB-HM82555835-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

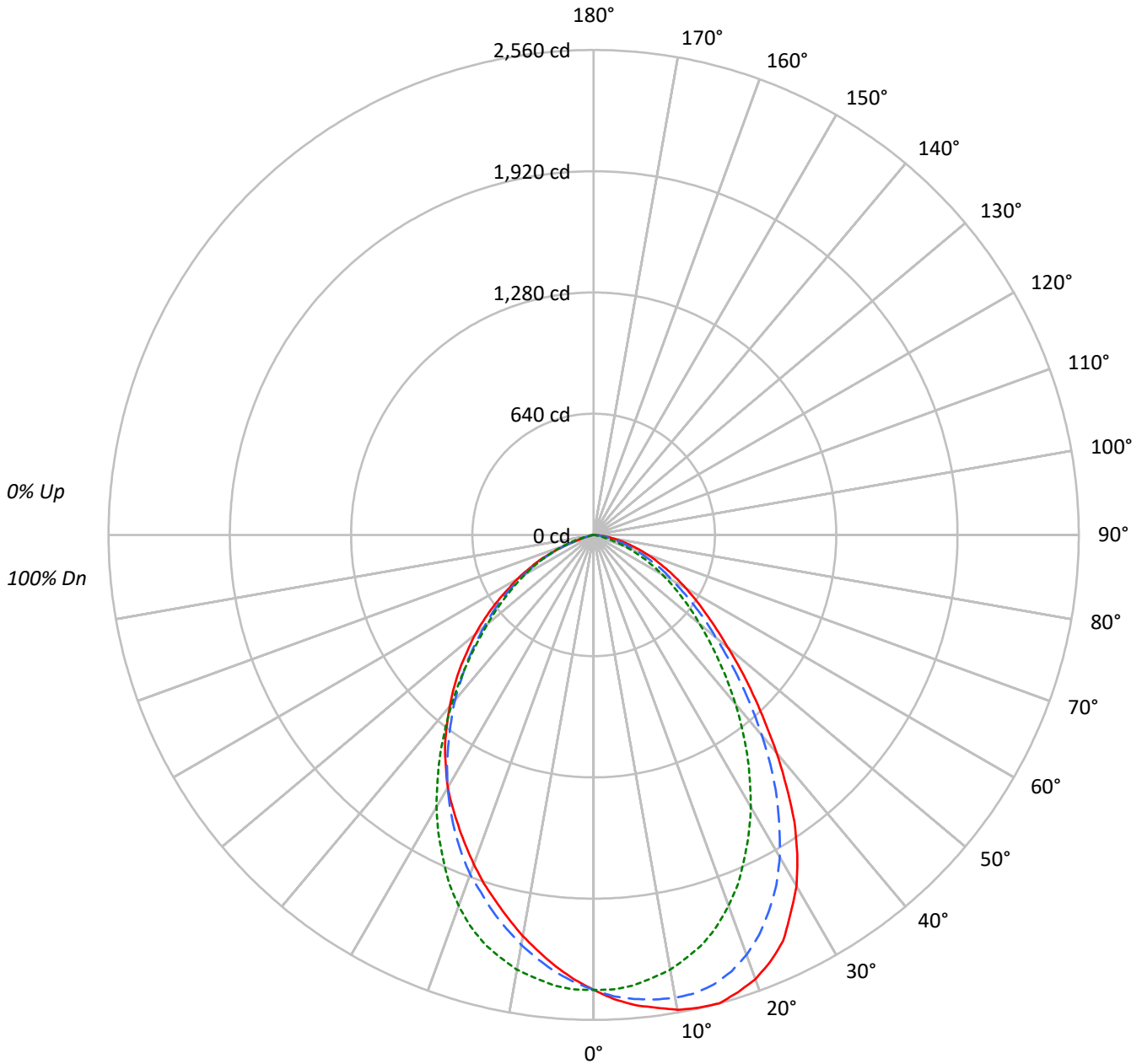
Lumens per Lamp: N/A
Luminaire Lumens: 4473.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P584827
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Luminous Intensity Polar Plot





TEST NUMBER: P584827

CATALOG NUMBER: HCC8S50D010MB-HM82555835-81WWBB

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 74063 | 74063 | 74063 |
| 5° | 77125 | 73900 | 70789 |
| 10° | 79705 | 72960 | 67336 |
| 15° | 81723 | 71290 | 63842 |
| 20° | 81881 | 68331 | 60676 |
| 25° | 80498 | 64010 | 57535 |
| 30° | 76188 | 59061 | 54841 |
| 35° | 69469 | 53116 | 51490 |
| 40° | 60413 | 46827 | 47548 |
| 45° | 51825 | 40548 | 43526 |
| 50° | 44264 | 34967 | 39098 |
| 55° | 38794 | 30112 | 33966 |
| 60° | 34543 | 25687 | 28567 |
| 65° | 30645 | 20956 | 22794 |
| 70° | 27192 | 15534 | 12947 |
| 75° | 22673 | 8137 | 3848 |
| 80° | 17847 | 2557 | 639 |
| 85° | 12702 | 1274 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 226.3 | 5.1 |
| 10°-20° | 634.3 | 14.2 |
| 20°-30° | 897.8 | 20.1 |
| 30°-40° | 939.3 | 21.0 |
| 40°-50° | 783.5 | 17.5 |
| 50°-60° | 555.6 | 12.4 |
| 60°-70° | 320.0 | 7.2 |
| 70°-80° | 103.0 | 2.3 |
| 80°-90° | 14.2 | 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° | 1758.5 | 39.3 |
| 0°-40° | 2697.8 | 60.3 |
| 0°-60° | 4036.8 | 90.2 |
| 0°-90° | 4473.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4473.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2402 | 2402 | 2402 | 2402 | 2402 | |
| 5° | 2492 | 2459 | 2387 | 2316 | 2287 | 239 |
| 15° | 2560 | 2456 | 2233 | 2057 | 2000 | 720 |
| 25° | 2366 | 2190 | 1881 | 1730 | 1691 | 1080 |
| 35° | 1845 | 1684 | 1411 | 1336 | 1368 | 1144 |
| 45° | 1188 | 1091 | 930 | 941 | 998 | 921 |
| 55° | 722 | 646 | 560 | 589 | 632 | 652 |
| 65° | 420 | 352 | 287 | 287 | 312 | 420 |
| 75° | 190 | 140 | 68 | 32 | 32 | 206 |
| 85° | 36 | 18 | 4 | 0 | 0 | 45 |
| 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° | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 |
| 2.5° | 2452.1 | 2448.6 | 2445.0 | 2448.6 | 2445.0 | 2448.6 | 2445.0 | 2445.0 | 2441.3 | 2437.7 | 2437.7 |
| 5° | 2491.6 | 2488.0 | 2488.0 | 2488.0 | 2484.5 | 2480.9 | 2480.9 | 2477.2 | 2470.1 | 2466.5 | 2459.3 |
| 7.5° | 2516.7 | 2520.4 | 2520.4 | 2520.4 | 2513.1 | 2513.1 | 2506.0 | 2498.7 | 2491.6 | 2484.5 | 2473.6 |
| 10° | 2545.5 | 2545.5 | 2541.9 | 2538.2 | 2531.1 | 2527.5 | 2523.9 | 2516.7 | 2506.0 | 2491.6 | 2480.9 |
| 12.5° | 2556.3 | 2556.3 | 2552.6 | 2545.5 | 2541.9 | 2538.2 | 2534.7 | 2523.9 | 2509.6 | 2491.6 | 2477.2 |
| 15° | 2559.9 | 2552.6 | 2549.0 | 2545.5 | 2538.2 | 2527.5 | 2527.5 | 2513.1 | 2495.2 | 2473.6 | 2455.7 |
| 17.5° | 2531.1 | 2534.7 | 2527.5 | 2520.4 | 2509.6 | 2502.4 | 2491.6 | 2480.9 | 2459.3 | 2434.2 | 2416.2 |
| 20° | 2495.2 | 2491.6 | 2488.0 | 2477.2 | 2462.8 | 2459.3 | 2448.6 | 2430.6 | 2412.6 | 2383.9 | 2358.8 |
| 22.5° | 2437.7 | 2434.2 | 2427.0 | 2419.8 | 2405.5 | 2398.3 | 2387.4 | 2365.9 | 2340.8 | 2312.0 | 2283.4 |
| 25° | 2365.9 | 2358.8 | 2348.1 | 2333.7 | 2322.9 | 2315.7 | 2301.3 | 2279.8 | 2251.0 | 2218.8 | 2190.0 |
| 27.5° | 2251.0 | 2261.8 | 2254.7 | 2233.1 | 2222.4 | 2208.0 | 2204.4 | 2175.6 | 2150.5 | 2118.2 | 2086.0 |
| 30° | 2139.7 | 2139.7 | 2129.0 | 2118.2 | 2100.2 | 2089.5 | 2075.1 | 2053.6 | 2028.4 | 1988.9 | 1963.8 |
| 32.5° | 1999.8 | 1996.2 | 1981.8 | 1978.2 | 1963.8 | 1942.3 | 1938.7 | 1910.0 | 1884.9 | 1856.1 | 1823.9 |
| 35° | 1845.4 | 1838.1 | 1823.9 | 1813.1 | 1805.9 | 1795.1 | 1784.4 | 1759.2 | 1734.1 | 1705.3 | 1683.8 |
| 37.5° | 1669.4 | 1669.4 | 1665.8 | 1647.9 | 1640.7 | 1633.6 | 1622.8 | 1597.7 | 1583.3 | 1554.5 | 1533.0 |
| 40° | 1500.8 | 1497.1 | 1486.4 | 1482.8 | 1475.6 | 1464.8 | 1457.6 | 1443.2 | 1421.7 | 1400.2 | 1378.6 |
| 42.5° | 1335.6 | 1339.2 | 1324.8 | 1328.3 | 1314.1 | 1306.8 | 1303.2 | 1281.7 | 1270.9 | 1249.4 | 1231.4 |
| 45° | 1188.4 | 1184.8 | 1177.7 | 1174.0 | 1166.8 | 1159.6 | 1152.5 | 1141.6 | 1123.8 | 1102.3 | 1091.4 |
| 47.5° | 1052.0 | 1041.1 | 1041.1 | 1037.6 | 1034.0 | 1019.6 | 1016.0 | 1005.2 | 994.5 | 973.0 | 958.6 |
| 50° | 922.7 | 922.7 | 922.7 | 919.1 | 908.3 | 904.7 | 897.6 | 886.8 | 876.0 | 861.7 | 840.2 |
| 52.5° | 818.5 | 818.5 | 818.5 | 815.0 | 800.6 | 797.0 | 793.4 | 779.0 | 764.8 | 753.9 | 739.6 |
| 55° | 721.6 | 725.2 | 721.6 | 714.5 | 703.7 | 703.7 | 692.9 | 685.7 | 671.4 | 660.6 | 646.2 |
| 57.5° | 639.1 | 639.1 | 631.8 | 628.3 | 621.1 | 617.5 | 610.3 | 603.2 | 585.2 | 574.4 | 556.4 |
| 60° | 560.1 | 556.4 | 556.4 | 549.3 | 542.1 | 534.9 | 531.3 | 520.6 | 513.4 | 495.4 | 481.0 |
| 62.5° | 488.3 | 488.3 | 481.0 | 481.0 | 466.8 | 466.8 | 463.2 | 452.4 | 441.6 | 423.6 | 416.5 |
| 65° | 420.0 | 420.0 | 416.5 | 412.9 | 402.1 | 398.5 | 394.9 | 384.1 | 373.4 | 362.6 | 351.9 |
| 67.5° | 359.0 | 359.0 | 351.9 | 348.2 | 341.1 | 337.5 | 330.2 | 323.1 | 312.4 | 301.6 | 290.8 |
| 70° | 301.6 | 298.0 | 294.4 | 290.8 | 283.6 | 280.1 | 272.8 | 265.7 | 255.0 | 247.7 | 237.0 |
| 72.5° | 244.1 | 244.1 | 240.6 | 233.3 | 229.8 | 226.2 | 222.6 | 215.4 | 204.7 | 193.8 | 186.7 |
| 75° | 190.3 | 190.3 | 190.3 | 183.1 | 175.9 | 172.3 | 172.3 | 165.2 | 157.9 | 147.2 | 140.0 |
| 77.5° | 147.2 | 143.6 | 140.0 | 140.0 | 132.8 | 129.3 | 125.7 | 122.0 | 111.3 | 107.7 | 100.5 |
| 80° | 100.5 | 104.2 | 100.5 | 96.9 | 93.4 | 89.8 | 89.8 | 82.5 | 79.0 | 71.8 | 64.6 |
| 82.5° | 68.3 | 64.6 | 64.6 | 61.0 | 61.0 | 57.4 | 57.4 | 50.3 | 46.6 | 43.1 | 39.5 |
| 85° | 35.9 | 35.9 | 32.3 | 32.3 | 32.3 | 28.8 | 28.8 | 25.1 | 25.1 | 21.5 | 18.0 |
| 87.5° | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 7.1 | 7.1 | 7.1 |
| 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° | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 |
| 2.5° | 2434.2 | 2427.0 | 2423.5 | 2423.5 | 2419.8 | 2416.2 | 2412.6 | 2409.1 | 2401.8 | 2401.8 | 2394.7 |
| 5° | 2452.1 | 2445.0 | 2441.3 | 2430.6 | 2423.5 | 2423.5 | 2409.1 | 2405.5 | 2394.7 | 2387.4 | 2380.3 |
| 7.5° | 2466.5 | 2452.1 | 2441.3 | 2430.6 | 2423.5 | 2416.2 | 2401.8 | 2387.4 | 2373.2 | 2358.8 | 2351.6 |
| 10° | 2466.5 | 2452.1 | 2434.2 | 2416.2 | 2409.1 | 2401.8 | 2383.9 | 2362.3 | 2344.4 | 2330.1 | 2312.0 |
| 12.5° | 2459.3 | 2437.7 | 2416.2 | 2401.8 | 2387.4 | 2376.7 | 2355.2 | 2333.7 | 2312.0 | 2283.4 | 2269.0 |
| 15° | 2437.7 | 2409.1 | 2387.4 | 2362.3 | 2351.6 | 2333.7 | 2315.7 | 2283.4 | 2258.3 | 2233.1 | 2215.1 |
| 17.5° | 2394.7 | 2358.8 | 2333.7 | 2308.5 | 2290.5 | 2279.8 | 2251.0 | 2222.4 | 2193.6 | 2164.9 | 2143.4 |
| 20° | 2330.1 | 2297.8 | 2269.0 | 2236.8 | 2222.4 | 2208.0 | 2172.1 | 2143.4 | 2114.6 | 2082.3 | 2060.8 |
| 22.5° | 2251.0 | 2218.8 | 2179.2 | 2154.1 | 2132.6 | 2114.6 | 2082.3 | 2050.0 | 2021.3 | 1992.6 | 1963.8 |
| 25° | 2154.1 | 2121.9 | 2086.0 | 2046.5 | 2032.1 | 2014.1 | 1978.2 | 1945.9 | 1913.5 | 1881.3 | 1856.1 |
| 27.5° | 2050.0 | 2006.9 | 1978.2 | 1935.2 | 1920.8 | 1902.8 | 1863.3 | 1827.4 | 1798.7 | 1773.6 | 1744.8 |
| 30° | 1924.4 | 1892.0 | 1852.5 | 1813.1 | 1798.7 | 1780.7 | 1748.5 | 1716.1 | 1687.5 | 1658.7 | 1629.9 |
| 32.5° | 1788.0 | 1755.6 | 1716.1 | 1687.5 | 1665.8 | 1651.4 | 1619.2 | 1590.4 | 1561.8 | 1533.0 | 1507.9 |
| 35° | 1644.3 | 1608.4 | 1579.7 | 1551.0 | 1533.0 | 1515.0 | 1482.8 | 1457.6 | 1436.1 | 1411.0 | 1385.8 |
| 37.5° | 1497.1 | 1472.0 | 1443.2 | 1411.0 | 1393.0 | 1378.6 | 1353.5 | 1324.8 | 1306.8 | 1285.3 | 1267.3 |
| 40° | 1353.5 | 1324.8 | 1299.7 | 1270.9 | 1256.6 | 1245.8 | 1220.7 | 1199.2 | 1181.2 | 1163.3 | 1152.5 |
| 42.5° | 1206.3 | 1181.2 | 1156.0 | 1138.1 | 1127.4 | 1116.5 | 1098.6 | 1073.5 | 1062.7 | 1044.7 | 1034.0 |
| 45° | 1069.9 | 1048.4 | 1030.4 | 1005.2 | 998.1 | 990.8 | 969.3 | 951.4 | 940.7 | 929.8 | 922.7 |
| 47.5° | 940.7 | 926.3 | 904.7 | 890.4 | 879.6 | 872.4 | 858.0 | 843.7 | 832.9 | 825.8 | 818.5 |
| 50° | 829.3 | 811.4 | 797.0 | 782.6 | 775.5 | 764.8 | 750.4 | 743.1 | 736.0 | 728.9 | 728.9 |
| 52.5° | 725.2 | 707.2 | 692.9 | 682.1 | 675.0 | 667.7 | 657.0 | 653.5 | 646.2 | 646.2 | 642.6 |
| 55° | 628.3 | 617.5 | 603.2 | 588.8 | 585.2 | 581.6 | 574.4 | 567.2 | 563.7 | 560.1 | 563.7 |
| 57.5° | 545.7 | 534.9 | 520.6 | 509.8 | 506.2 | 502.7 | 499.0 | 491.9 | 488.3 | 488.3 | 488.3 |
| 60° | 470.3 | 459.5 | 448.8 | 438.0 | 438.0 | 430.8 | 427.3 | 423.6 | 420.0 | 416.5 | 416.5 |
| 62.5° | 402.1 | 391.4 | 380.5 | 373.4 | 369.8 | 366.2 | 359.0 | 355.4 | 351.9 | 351.9 | 348.2 |
| 65° | 341.1 | 326.7 | 323.1 | 312.4 | 308.7 | 305.2 | 301.6 | 294.4 | 290.8 | 287.2 | 283.6 |
| 67.5° | 280.1 | 272.8 | 262.1 | 255.0 | 251.3 | 247.7 | 244.1 | 237.0 | 233.3 | 229.8 | 222.6 |
| 70° | 226.2 | 219.0 | 211.8 | 204.7 | 201.1 | 197.4 | 190.3 | 183.1 | 179.6 | 172.3 | 161.6 |
| 72.5° | 175.9 | 168.7 | 161.6 | 154.4 | 150.8 | 147.2 | 140.0 | 132.8 | 125.7 | 118.4 | 111.3 |
| 75° | 132.8 | 125.7 | 114.9 | 107.7 | 104.2 | 104.2 | 93.4 | 86.2 | 79.0 | 68.3 | 61.0 |
| 77.5° | 93.4 | 82.5 | 79.0 | 71.8 | 68.3 | 61.0 | 53.9 | 46.6 | 39.5 | 35.9 | 28.8 |
| 80° | 61.0 | 53.9 | 46.6 | 43.1 | 39.5 | 35.9 | 32.3 | 25.1 | 18.0 | 14.4 | 10.8 |
| 82.5° | 35.9 | 32.3 | 28.8 | 25.1 | 21.5 | 18.0 | 14.4 | 14.4 | 10.8 | 7.1 | 3.6 |
| 85° | 18.0 | 14.4 | 10.8 | 10.8 | 7.1 | 7.1 | 7.1 | 3.6 | 3.6 | 3.6 | 3.6 |
| 87.5° | 7.1 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 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° | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 |
| 2.5° | 2391.1 | 2387.4 | 2383.9 | 2380.3 | 2380.3 | 2373.2 | 2373.2 | 2369.6 | 2362.3 | 2358.8 | 2358.8 |
| 5° | 2369.6 | 2358.8 | 2351.6 | 2348.1 | 2344.4 | 2333.7 | 2330.1 | 2322.9 | 2315.7 | 2308.5 | 2304.9 |
| 7.5° | 2337.2 | 2319.3 | 2312.0 | 2308.5 | 2297.8 | 2286.9 | 2279.8 | 2269.0 | 2258.3 | 2247.5 | 2243.9 |
| 10° | 2297.8 | 2279.8 | 2261.8 | 2254.7 | 2243.9 | 2236.8 | 2222.4 | 2208.0 | 2197.3 | 2186.5 | 2175.6 |
| 12.5° | 2247.5 | 2225.9 | 2208.0 | 2200.8 | 2190.0 | 2175.6 | 2154.1 | 2147.0 | 2129.0 | 2121.9 | 2107.5 |
| 15° | 2190.0 | 2164.9 | 2147.0 | 2136.2 | 2125.4 | 2103.8 | 2089.5 | 2075.1 | 2057.2 | 2050.0 | 2035.7 |
| 17.5° | 2118.2 | 2089.5 | 2071.6 | 2060.8 | 2053.6 | 2035.7 | 2014.1 | 1996.2 | 1978.2 | 1971.1 | 1960.3 |
| 20° | 2032.1 | 2014.1 | 1988.9 | 1978.2 | 1971.1 | 1949.5 | 1927.9 | 1920.8 | 1906.4 | 1892.0 | 1881.3 |
| 22.5° | 1935.2 | 1917.2 | 1892.0 | 1881.3 | 1877.6 | 1859.8 | 1841.8 | 1831.0 | 1820.2 | 1809.5 | 1798.7 |
| 25° | 1834.6 | 1813.1 | 1791.5 | 1784.4 | 1777.1 | 1762.9 | 1748.5 | 1741.2 | 1730.5 | 1723.3 | 1716.1 |
| 27.5° | 1726.8 | 1705.3 | 1687.5 | 1676.6 | 1669.4 | 1658.7 | 1651.4 | 1644.3 | 1637.2 | 1629.9 | 1626.3 |
| 30° | 1612.1 | 1590.4 | 1576.2 | 1568.9 | 1561.8 | 1558.2 | 1547.4 | 1543.8 | 1540.2 | 1533.0 | 1536.7 |
| 32.5° | 1497.1 | 1479.1 | 1464.8 | 1454.0 | 1454.0 | 1446.9 | 1443.2 | 1443.2 | 1439.6 | 1439.6 | 1439.6 |
| 35° | 1371.5 | 1360.7 | 1350.0 | 1346.3 | 1342.7 | 1339.2 | 1335.6 | 1339.2 | 1335.6 | 1339.2 | 1342.7 |
| 37.5° | 1256.6 | 1245.8 | 1238.7 | 1235.0 | 1231.4 | 1235.0 | 1231.4 | 1231.4 | 1235.0 | 1242.2 | 1245.8 |
| 40° | 1138.1 | 1130.9 | 1123.8 | 1127.4 | 1123.8 | 1123.8 | 1123.8 | 1134.5 | 1138.1 | 1141.6 | 1145.3 |
| 42.5° | 1026.8 | 1019.6 | 1016.0 | 1016.0 | 1019.6 | 1016.0 | 1023.2 | 1026.8 | 1034.0 | 1044.7 | 1052.0 |
| 45° | 919.1 | 915.6 | 915.6 | 919.1 | 915.6 | 922.7 | 922.7 | 929.8 | 940.7 | 947.8 | 955.0 |
| 47.5° | 818.5 | 818.5 | 818.5 | 822.2 | 822.2 | 825.8 | 832.9 | 836.5 | 843.7 | 850.9 | 858.0 |
| 50° | 725.2 | 728.9 | 732.4 | 732.4 | 732.4 | 739.6 | 746.8 | 750.4 | 753.9 | 757.5 | 768.3 |
| 52.5° | 642.6 | 646.2 | 646.2 | 649.8 | 653.5 | 657.0 | 660.6 | 667.7 | 671.4 | 678.6 | 682.1 |
| 55° | 563.7 | 563.7 | 570.8 | 574.4 | 574.4 | 574.4 | 581.6 | 581.6 | 588.8 | 592.3 | 599.6 |
| 57.5° | 488.3 | 491.9 | 491.9 | 495.4 | 495.4 | 499.0 | 502.7 | 506.2 | 509.8 | 513.4 | 517.0 |
| 60° | 416.5 | 416.5 | 416.5 | 420.0 | 423.6 | 427.3 | 423.6 | 430.8 | 430.8 | 438.0 | 441.6 |
| 62.5° | 348.2 | 351.9 | 351.9 | 351.9 | 351.9 | 351.9 | 351.9 | 355.4 | 359.0 | 362.6 | 366.2 |
| 65° | 283.6 | 283.6 | 283.6 | 280.1 | 283.6 | 280.1 | 283.6 | 287.2 | 287.2 | 290.8 | 294.4 |
| 67.5° | 219.0 | 219.0 | 211.8 | 211.8 | 215.4 | 215.4 | 215.4 | 215.4 | 211.8 | 219.0 | 219.0 |
| 70° | 157.9 | 154.4 | 150.8 | 147.2 | 147.2 | 143.6 | 143.6 | 140.0 | 140.0 | 140.0 | 140.0 |
| 72.5° | 104.2 | 96.9 | 89.8 | 86.2 | 82.5 | 82.5 | 75.4 | 71.8 | 75.4 | 75.4 | 75.4 |
| 75° | 53.9 | 46.6 | 43.1 | 39.5 | 35.9 | 35.9 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 |
| 77.5° | 21.5 | 18.0 | 14.4 | 14.4 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| 80° | 7.1 | 7.1 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 82.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 85° | 3.6 | 0.0 | 0.0 | 3.6 | 0.0 | 3.6 | 3.6 | 3.6 | 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: P584827

CATALOG NUMBER: HCC8S50D010MB-HM82555835-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 | 2401.8 |
| 2.5° | 2355.2 | 2355.2 | 2351.6 | 2355.2 | 2348.1 | 2351.6 | 2348.1 | 2348.1 |
| 5° | 2301.3 | 2294.2 | 2294.2 | 2294.2 | 2290.5 | 2290.5 | 2286.9 | 2286.9 |
| 7.5° | 2236.8 | 2233.1 | 2229.5 | 2225.9 | 2222.4 | 2218.8 | 2218.8 | 2218.8 |
| 10° | 2172.1 | 2164.9 | 2164.9 | 2161.4 | 2154.1 | 2150.5 | 2150.5 | 2150.5 |
| 12.5° | 2096.7 | 2093.1 | 2089.5 | 2089.5 | 2075.1 | 2078.7 | 2075.1 | 2075.1 |
| 15° | 2024.9 | 2021.3 | 2021.3 | 2010.6 | 2003.3 | 2003.3 | 2003.3 | 1999.8 |
| 17.5° | 1949.5 | 1945.9 | 1942.3 | 1935.2 | 1927.9 | 1927.9 | 1924.4 | 1927.9 |
| 20° | 1870.5 | 1866.9 | 1859.8 | 1859.8 | 1856.1 | 1852.5 | 1845.4 | 1849.0 |
| 22.5° | 1791.5 | 1784.4 | 1780.7 | 1780.7 | 1777.1 | 1777.1 | 1770.0 | 1770.0 |
| 25° | 1709.0 | 1705.3 | 1701.7 | 1705.3 | 1698.2 | 1698.2 | 1691.0 | 1691.0 |
| 27.5° | 1622.8 | 1619.2 | 1619.2 | 1619.2 | 1615.6 | 1619.2 | 1615.6 | 1615.6 |
| 30° | 1536.7 | 1536.7 | 1533.0 | 1533.0 | 1536.7 | 1533.0 | 1536.7 | 1540.2 |
| 32.5° | 1443.2 | 1443.2 | 1446.9 | 1446.9 | 1450.5 | 1450.5 | 1450.5 | 1450.5 |
| 35° | 1346.3 | 1353.5 | 1353.5 | 1357.1 | 1360.7 | 1364.3 | 1364.3 | 1367.8 |
| 37.5° | 1256.6 | 1260.2 | 1263.8 | 1267.3 | 1274.6 | 1274.6 | 1274.6 | 1274.6 |
| 40° | 1159.6 | 1163.3 | 1170.4 | 1166.8 | 1181.2 | 1184.8 | 1181.2 | 1181.2 |
| 42.5° | 1059.1 | 1066.2 | 1069.9 | 1077.1 | 1080.6 | 1087.9 | 1091.4 | 1091.4 |
| 45° | 965.8 | 969.3 | 976.6 | 983.7 | 987.3 | 998.1 | 998.1 | 998.1 |
| 47.5° | 868.8 | 876.0 | 879.6 | 886.8 | 890.4 | 901.2 | 904.7 | 901.2 |
| 50° | 775.5 | 782.6 | 789.9 | 789.9 | 800.6 | 804.2 | 811.4 | 815.0 |
| 52.5° | 685.7 | 689.4 | 696.5 | 700.1 | 707.2 | 714.5 | 718.0 | 721.6 |
| 55° | 599.6 | 603.2 | 610.3 | 610.3 | 621.1 | 624.7 | 631.8 | 631.8 |
| 57.5° | 520.6 | 524.2 | 531.3 | 527.8 | 534.9 | 542.1 | 542.1 | 538.6 |
| 60° | 445.2 | 445.2 | 445.2 | 452.4 | 455.9 | 459.5 | 463.2 | 463.2 |
| 62.5° | 366.2 | 373.4 | 377.0 | 377.0 | 380.5 | 384.1 | 384.1 | 380.5 |
| 65° | 294.4 | 301.6 | 305.2 | 305.2 | 308.7 | 308.7 | 308.7 | 312.4 |
| 67.5° | 222.6 | 222.6 | 222.6 | 226.2 | 222.6 | 222.6 | 222.6 | 222.6 |
| 70° | 140.0 | 140.0 | 140.0 | 140.0 | 136.4 | 140.0 | 140.0 | 143.6 |
| 72.5° | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 |
| 75° | 32.3 | 32.3 | 32.3 | 35.9 | 32.3 | 32.3 | 32.3 | 32.3 |
| 77.5° | 14.4 | 10.8 | 14.4 | 14.4 | 10.8 | 10.8 | 10.8 | 10.8 |
| 80° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 82.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 85° | 0.0 | 3.6 | 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
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)