

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: P584522

Luminaire Tested: **HCC8S40D010BZ-HM82555827-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584522
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: HCC8S40D010BZ-HM82555827-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

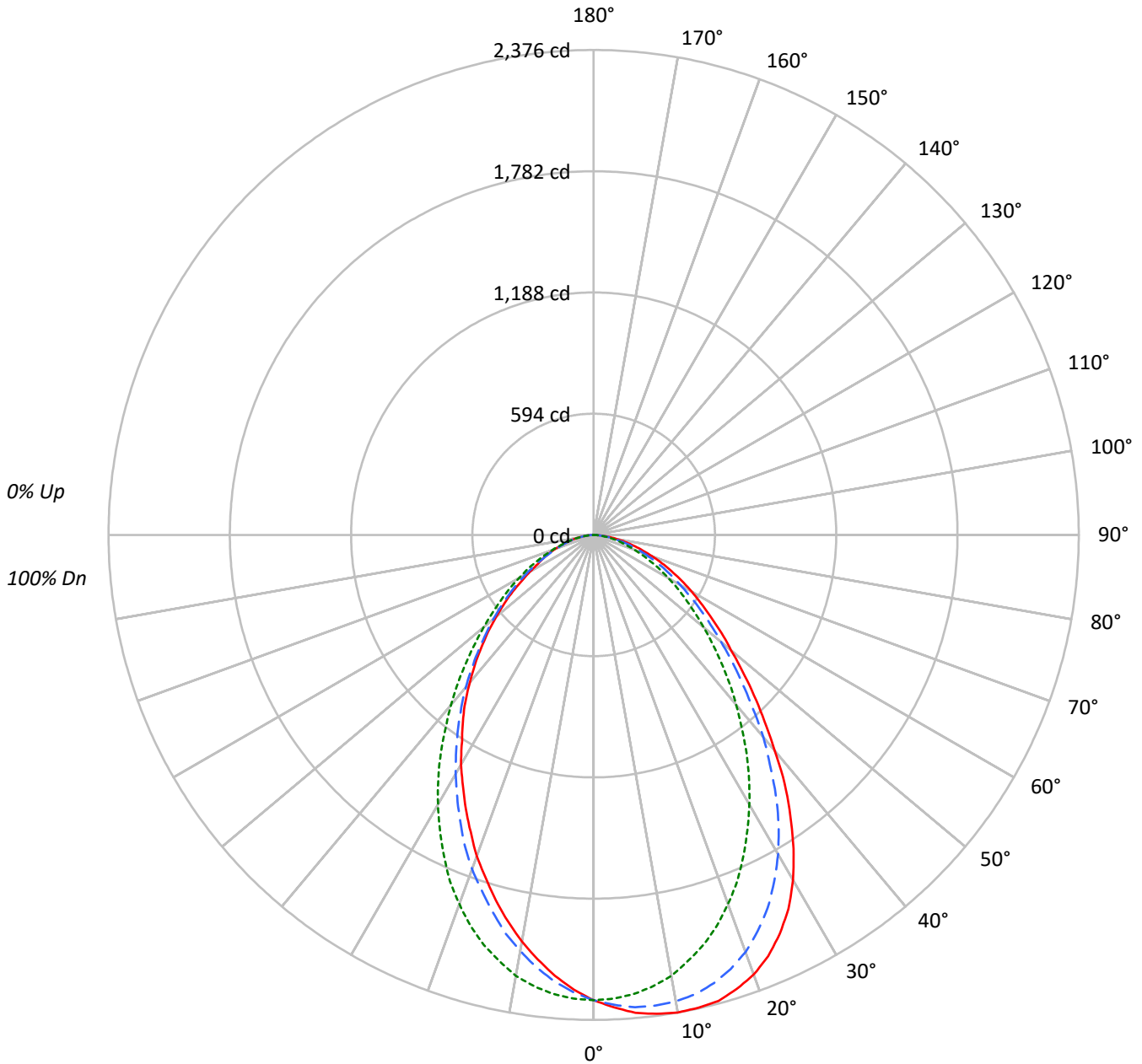
Lumens per Lamp: N/A
Luminaire Lumens: 4207.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P584522
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Luminous Intensity Polar Plot





TEST NUMBER: P584522

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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 | 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° | 70301 | 70301 | 70301 |
| 5° | 72767 | 69897 | 67121 |
| 10° | 74385 | 68674 | 63344 |
| 15° | 75443 | 66361 | 59149 |
| 20° | 75219 | 63137 | 54916 |
| 25° | 73356 | 59045 | 50414 |
| 30° | 69497 | 54300 | 46257 |
| 35° | 63231 | 49137 | 42037 |
| 40° | 55534 | 43708 | 37976 |
| 45° | 48428 | 38446 | 33862 |
| 50° | 42144 | 33686 | 29829 |
| 55° | 37585 | 29601 | 25940 |
| 60° | 34148 | 25946 | 22128 |
| 65° | 30696 | 22568 | 20080 |
| 70° | 27327 | 19249 | 18131 |
| 75° | 23960 | 16215 | 15477 |
| 80° | 20333 | 13194 | 13745 |
| 85° | 15320 | 9836 | 10933 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.5 | 5.1 |
| 10°-20° | 588.4 | 14.0 |
| 20°-30° | 816.7 | 19.4 |
| 30°-40° | 844.4 | 20.1 |
| 40°-50° | 707.0 | 16.8 |
| 50°-60° | 513.2 | 12.2 |
| 60°-70° | 323.9 | 7.7 |
| 70°-80° | 160.5 | 3.8 |
| 80°-90° | 39.9 | 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° | 1618.6 | 38.5 |
| 0°-40° | 2462.9 | 58.5 |
| 0°-60° | 3683.2 | 87.5 |
| 0°-90° | 4207.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4207.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2280 | 2280 | 2280 | 2280 | 2280 | |
| 5° | 2351 | 2323 | 2258 | 2196 | 2168 | 225 |
| 15° | 2363 | 2274 | 2079 | 1912 | 1853 | 665 |
| 25° | 2156 | 2017 | 1735 | 1547 | 1482 | 988 |
| 35° | 1680 | 1556 | 1305 | 1157 | 1117 | 1046 |
| 45° | 1110 | 1030 | 882 | 795 | 776 | 859 |
| 55° | 699 | 637 | 551 | 504 | 482 | 631 |
| 65° | 421 | 368 | 309 | 272 | 275 | 419 |
| 75° | 201 | 167 | 136 | 130 | 130 | 216 |
| 85° | 43 | 34 | 28 | 31 | 31 | 53 |
| 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° | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 |
| 2.5° | 2316.9 | 2316.9 | 2320.0 | 2316.9 | 2316.9 | 2316.9 | 2313.8 | 2313.8 | 2310.7 | 2310.7 | 2304.6 |
| 5° | 2350.8 | 2344.7 | 2350.8 | 2344.7 | 2344.7 | 2344.7 | 2341.6 | 2335.4 | 2332.3 | 2326.2 | 2323.1 |
| 7.5° | 2366.3 | 2363.2 | 2363.2 | 2360.1 | 2360.1 | 2357.0 | 2353.9 | 2350.8 | 2338.5 | 2335.4 | 2326.2 |
| 10° | 2375.6 | 2372.5 | 2372.5 | 2369.4 | 2363.2 | 2363.2 | 2357.0 | 2353.9 | 2338.5 | 2332.3 | 2320.0 |
| 12.5° | 2372.5 | 2372.5 | 2372.5 | 2369.4 | 2360.1 | 2357.0 | 2350.8 | 2341.6 | 2329.3 | 2316.9 | 2304.6 |
| 15° | 2363.2 | 2363.2 | 2357.0 | 2353.9 | 2344.7 | 2338.5 | 2335.4 | 2320.0 | 2307.6 | 2292.2 | 2273.6 |
| 17.5° | 2332.3 | 2332.3 | 2329.3 | 2323.1 | 2313.8 | 2307.6 | 2301.5 | 2286.0 | 2273.6 | 2248.9 | 2230.3 |
| 20° | 2292.2 | 2289.1 | 2286.0 | 2276.7 | 2267.4 | 2264.3 | 2255.0 | 2233.4 | 2217.9 | 2199.4 | 2174.6 |
| 22.5° | 2233.4 | 2230.3 | 2227.2 | 2221.0 | 2205.5 | 2199.4 | 2193.2 | 2177.7 | 2149.9 | 2131.3 | 2100.4 |
| 25° | 2156.0 | 2156.0 | 2149.9 | 2140.6 | 2125.1 | 2118.9 | 2109.6 | 2094.2 | 2069.4 | 2041.6 | 2016.8 |
| 27.5° | 2066.3 | 2063.2 | 2053.9 | 2047.8 | 2035.4 | 2026.1 | 2010.6 | 1992.1 | 1967.3 | 1945.6 | 1914.7 |
| 30° | 1951.8 | 1951.8 | 1945.6 | 1936.4 | 1920.9 | 1914.7 | 1902.3 | 1880.7 | 1855.9 | 1828.1 | 1806.5 |
| 32.5° | 1821.9 | 1821.9 | 1812.6 | 1806.5 | 1797.3 | 1781.8 | 1778.7 | 1753.9 | 1732.3 | 1710.6 | 1685.9 |
| 35° | 1679.7 | 1682.8 | 1676.6 | 1664.2 | 1648.7 | 1648.7 | 1642.6 | 1620.9 | 1596.1 | 1574.5 | 1555.9 |
| 37.5° | 1537.4 | 1528.1 | 1525.0 | 1518.8 | 1509.5 | 1497.1 | 1491.0 | 1481.7 | 1460.0 | 1444.5 | 1416.7 |
| 40° | 1379.6 | 1382.7 | 1376.5 | 1370.3 | 1367.2 | 1357.9 | 1354.8 | 1339.3 | 1323.9 | 1305.3 | 1293.1 |
| 42.5° | 1237.4 | 1237.4 | 1237.4 | 1231.2 | 1225.0 | 1215.7 | 1212.6 | 1203.3 | 1184.8 | 1172.4 | 1153.8 |
| 45° | 1110.5 | 1101.2 | 1101.2 | 1098.1 | 1095.0 | 1088.8 | 1079.6 | 1073.4 | 1061.0 | 1051.7 | 1030.1 |
| 47.5° | 986.7 | 989.8 | 986.7 | 983.7 | 974.4 | 971.3 | 968.2 | 955.8 | 943.4 | 934.2 | 918.7 |
| 50° | 878.5 | 884.6 | 878.5 | 878.5 | 872.3 | 869.2 | 863.0 | 853.7 | 844.4 | 829.0 | 813.5 |
| 52.5° | 788.7 | 788.7 | 785.6 | 782.5 | 773.4 | 767.2 | 764.1 | 761.0 | 745.5 | 733.2 | 720.8 |
| 55° | 699.1 | 702.2 | 702.2 | 692.9 | 689.8 | 683.7 | 680.6 | 671.3 | 665.1 | 646.5 | 637.2 |
| 57.5° | 621.8 | 618.7 | 621.8 | 615.6 | 609.4 | 603.2 | 600.1 | 593.9 | 584.6 | 572.3 | 559.9 |
| 60° | 553.7 | 547.5 | 547.5 | 544.4 | 538.2 | 535.1 | 529.0 | 519.7 | 510.4 | 498.0 | 488.7 |
| 62.5° | 485.6 | 482.5 | 479.5 | 476.4 | 470.2 | 467.1 | 464.0 | 454.7 | 445.4 | 436.1 | 426.9 |
| 65° | 420.7 | 420.7 | 417.6 | 411.4 | 408.3 | 405.2 | 402.1 | 395.9 | 383.5 | 377.3 | 368.1 |
| 67.5° | 361.9 | 358.8 | 358.8 | 352.6 | 346.4 | 343.3 | 343.3 | 337.1 | 327.8 | 318.6 | 312.4 |
| 70° | 303.1 | 306.2 | 303.1 | 300.0 | 293.8 | 293.8 | 287.6 | 284.5 | 272.2 | 269.1 | 259.8 |
| 72.5° | 250.6 | 250.6 | 247.5 | 247.5 | 241.3 | 238.2 | 238.2 | 232.0 | 225.9 | 219.7 | 213.5 |
| 75° | 201.1 | 201.1 | 201.1 | 198.0 | 194.9 | 188.7 | 188.7 | 185.6 | 179.5 | 173.3 | 167.1 |
| 77.5° | 157.8 | 154.7 | 154.7 | 151.6 | 148.5 | 145.4 | 145.4 | 142.3 | 136.1 | 133.0 | 126.9 |
| 80° | 114.5 | 111.4 | 111.4 | 111.4 | 105.2 | 108.3 | 105.2 | 102.1 | 99.0 | 95.9 | 92.8 |
| 82.5° | 74.3 | 77.4 | 77.4 | 74.3 | 71.2 | 71.2 | 71.2 | 68.1 | 68.1 | 65.0 | 61.9 |
| 85° | 43.3 | 43.3 | 43.3 | 43.3 | 40.2 | 40.2 | 40.2 | 37.1 | 37.1 | 37.1 | 34.0 |
| 87.5° | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 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° | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 |
| 2.5° | 2304.6 | 2298.4 | 2295.3 | 2292.2 | 2292.2 | 2289.1 | 2286.0 | 2279.8 | 2279.8 | 2273.6 | 2270.5 |
| 5° | 2316.9 | 2307.6 | 2301.5 | 2295.3 | 2292.2 | 2286.0 | 2279.8 | 2270.5 | 2267.4 | 2258.1 | 2248.9 |
| 7.5° | 2320.0 | 2304.6 | 2298.4 | 2286.0 | 2279.8 | 2273.6 | 2261.2 | 2252.0 | 2239.6 | 2230.3 | 2217.9 |
| 10° | 2307.6 | 2295.3 | 2279.8 | 2264.3 | 2261.2 | 2252.0 | 2233.4 | 2221.0 | 2205.5 | 2193.2 | 2174.6 |
| 12.5° | 2289.1 | 2270.5 | 2255.0 | 2236.5 | 2227.2 | 2217.9 | 2199.4 | 2180.8 | 2159.1 | 2137.5 | 2118.9 |
| 15° | 2258.1 | 2236.5 | 2214.8 | 2193.2 | 2180.8 | 2171.5 | 2149.9 | 2128.2 | 2106.5 | 2078.7 | 2060.1 |
| 17.5° | 2211.7 | 2187.0 | 2165.3 | 2137.5 | 2125.1 | 2115.8 | 2088.0 | 2063.2 | 2035.4 | 2007.5 | 1989.0 |
| 20° | 2152.9 | 2122.0 | 2097.3 | 2066.3 | 2057.0 | 2041.6 | 2013.7 | 1985.9 | 1954.9 | 1924.0 | 1902.3 |
| 22.5° | 2075.6 | 2044.7 | 2016.8 | 1985.9 | 1970.4 | 1954.9 | 1927.1 | 1893.1 | 1862.1 | 1837.4 | 1815.7 |
| 25° | 1985.9 | 1958.0 | 1924.0 | 1896.1 | 1877.6 | 1859.0 | 1828.1 | 1800.4 | 1772.5 | 1735.4 | 1713.7 |
| 27.5° | 1886.9 | 1852.8 | 1828.1 | 1791.1 | 1772.5 | 1760.1 | 1726.1 | 1689.0 | 1664.2 | 1630.2 | 1605.4 |
| 30° | 1775.6 | 1744.7 | 1716.8 | 1679.7 | 1661.1 | 1648.7 | 1617.8 | 1583.8 | 1559.0 | 1525.0 | 1500.2 |
| 32.5° | 1658.0 | 1624.0 | 1590.0 | 1565.2 | 1543.5 | 1531.2 | 1497.1 | 1475.5 | 1444.5 | 1416.7 | 1388.8 |
| 35° | 1531.2 | 1497.1 | 1472.4 | 1438.4 | 1426.0 | 1413.6 | 1385.8 | 1357.9 | 1330.1 | 1305.3 | 1283.8 |
| 37.5° | 1395.0 | 1370.3 | 1342.4 | 1317.7 | 1308.4 | 1296.0 | 1262.1 | 1237.4 | 1215.7 | 1191.0 | 1172.4 |
| 40° | 1262.1 | 1240.5 | 1221.9 | 1197.1 | 1181.7 | 1172.4 | 1147.6 | 1126.0 | 1101.2 | 1085.8 | 1067.2 |
| 42.5° | 1141.4 | 1116.7 | 1098.1 | 1079.6 | 1064.1 | 1054.8 | 1033.2 | 1017.7 | 999.1 | 983.7 | 962.0 |
| 45° | 1014.6 | 1002.2 | 980.6 | 965.1 | 955.8 | 943.4 | 928.0 | 909.4 | 893.9 | 881.6 | 866.1 |
| 47.5° | 903.2 | 890.8 | 875.4 | 856.8 | 850.6 | 841.3 | 825.9 | 813.5 | 801.1 | 788.7 | 773.4 |
| 50° | 801.1 | 785.6 | 773.4 | 761.0 | 754.8 | 745.5 | 730.1 | 723.9 | 714.6 | 702.2 | 692.9 |
| 52.5° | 708.4 | 696.0 | 683.7 | 668.2 | 665.1 | 658.9 | 649.6 | 637.2 | 628.0 | 621.8 | 615.6 |
| 55° | 624.9 | 612.5 | 603.2 | 590.8 | 587.7 | 581.6 | 569.2 | 563.0 | 556.8 | 550.6 | 544.4 |
| 57.5° | 550.6 | 538.2 | 525.9 | 519.7 | 513.5 | 507.3 | 504.2 | 494.9 | 488.7 | 485.6 | 479.5 |
| 60° | 482.5 | 470.2 | 460.9 | 451.6 | 448.5 | 445.4 | 439.2 | 433.0 | 426.9 | 420.7 | 417.6 |
| 62.5° | 417.6 | 405.2 | 399.0 | 392.8 | 386.6 | 386.6 | 380.4 | 374.3 | 368.1 | 365.0 | 358.8 |
| 65° | 358.8 | 352.6 | 343.3 | 334.0 | 330.9 | 330.9 | 321.7 | 318.6 | 315.5 | 309.3 | 303.1 |
| 67.5° | 303.1 | 296.9 | 287.6 | 284.5 | 281.4 | 278.3 | 275.2 | 269.1 | 262.9 | 259.8 | 253.7 |
| 70° | 253.7 | 247.5 | 241.3 | 238.2 | 235.1 | 232.0 | 225.9 | 222.8 | 216.6 | 213.5 | 210.4 |
| 72.5° | 204.2 | 201.1 | 194.9 | 191.8 | 188.7 | 185.6 | 182.5 | 179.5 | 173.3 | 170.2 | 167.1 |
| 75° | 164.0 | 160.9 | 154.7 | 151.6 | 148.5 | 148.5 | 145.4 | 139.2 | 136.1 | 136.1 | 133.0 |
| 77.5° | 123.8 | 120.7 | 117.6 | 114.5 | 111.4 | 111.4 | 108.3 | 105.2 | 102.1 | 102.1 | 99.0 |
| 80° | 89.7 | 86.6 | 83.5 | 83.5 | 83.5 | 80.4 | 77.4 | 77.4 | 74.3 | 74.3 | 71.2 |
| 82.5° | 58.8 | 58.8 | 55.7 | 55.7 | 55.7 | 52.6 | 52.6 | 49.5 | 49.5 | 49.5 | 49.5 |
| 85° | 34.0 | 34.0 | 34.0 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 27.8 | 30.9 |
| 87.5° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 12.4 | 12.4 | 12.4 |
| 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° | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 |
| 2.5° | 2267.4 | 2264.3 | 2258.1 | 2258.1 | 2252.0 | 2252.0 | 2248.9 | 2245.8 | 2242.7 | 2239.6 | 2236.5 |
| 5° | 2245.8 | 2233.4 | 2227.2 | 2224.1 | 2217.9 | 2214.8 | 2205.5 | 2199.4 | 2196.3 | 2190.1 | 2183.9 |
| 7.5° | 2205.5 | 2193.2 | 2180.8 | 2177.7 | 2174.6 | 2162.2 | 2152.9 | 2143.7 | 2137.5 | 2131.3 | 2125.1 |
| 10° | 2159.1 | 2146.8 | 2131.3 | 2125.1 | 2118.9 | 2103.4 | 2091.1 | 2081.8 | 2069.4 | 2057.0 | 2053.9 |
| 12.5° | 2103.4 | 2084.9 | 2066.3 | 2060.1 | 2050.8 | 2035.4 | 2023.0 | 2007.5 | 1998.2 | 1982.8 | 1979.7 |
| 15° | 2038.5 | 2016.8 | 2001.3 | 1985.9 | 1979.7 | 1964.2 | 1942.6 | 1930.2 | 1911.6 | 1905.4 | 1890.0 |
| 17.5° | 1961.1 | 1939.5 | 1917.8 | 1911.6 | 1902.3 | 1880.7 | 1859.0 | 1843.5 | 1825.0 | 1815.7 | 1806.5 |
| 20° | 1880.7 | 1852.8 | 1831.2 | 1825.0 | 1812.6 | 1794.2 | 1772.5 | 1757.0 | 1741.6 | 1723.0 | 1713.7 |
| 22.5° | 1788.0 | 1757.0 | 1738.5 | 1723.0 | 1719.9 | 1698.2 | 1673.5 | 1661.1 | 1648.7 | 1633.3 | 1620.9 |
| 25° | 1685.9 | 1658.0 | 1636.4 | 1624.0 | 1617.8 | 1599.2 | 1580.7 | 1565.2 | 1546.6 | 1537.4 | 1521.9 |
| 27.5° | 1580.7 | 1562.1 | 1534.3 | 1521.9 | 1512.6 | 1497.1 | 1475.5 | 1466.2 | 1447.6 | 1435.3 | 1426.0 |
| 30° | 1478.6 | 1450.7 | 1435.3 | 1419.8 | 1410.5 | 1395.0 | 1376.5 | 1367.2 | 1351.7 | 1339.3 | 1330.1 |
| 32.5° | 1367.2 | 1348.6 | 1327.0 | 1320.8 | 1308.4 | 1293.1 | 1280.7 | 1265.2 | 1252.8 | 1240.5 | 1237.4 |
| 35° | 1265.2 | 1240.5 | 1218.8 | 1212.6 | 1203.3 | 1187.9 | 1181.7 | 1172.4 | 1156.9 | 1153.8 | 1141.4 |
| 37.5° | 1153.8 | 1141.4 | 1116.7 | 1107.4 | 1104.3 | 1091.9 | 1079.6 | 1073.4 | 1064.1 | 1054.8 | 1051.7 |
| 40° | 1048.6 | 1033.2 | 1020.8 | 1011.5 | 1005.3 | 996.0 | 983.7 | 980.6 | 974.4 | 962.0 | 958.9 |
| 42.5° | 949.6 | 934.2 | 921.8 | 918.7 | 909.4 | 900.1 | 893.9 | 884.6 | 881.6 | 878.5 | 872.3 |
| 45° | 853.7 | 844.4 | 832.0 | 829.0 | 825.9 | 813.5 | 807.3 | 801.1 | 794.9 | 791.8 | 785.6 |
| 47.5° | 767.2 | 757.9 | 748.6 | 745.5 | 739.3 | 736.3 | 727.0 | 723.9 | 714.6 | 711.5 | 708.4 |
| 50° | 683.7 | 677.5 | 671.3 | 668.2 | 662.0 | 658.9 | 652.7 | 646.5 | 640.3 | 637.2 | 634.2 |
| 52.5° | 609.4 | 603.2 | 597.0 | 593.9 | 590.8 | 584.6 | 578.5 | 572.3 | 569.2 | 566.1 | 563.0 |
| 55° | 538.2 | 532.0 | 529.0 | 525.9 | 522.8 | 519.7 | 510.4 | 507.3 | 504.2 | 501.1 | 494.9 |
| 57.5° | 473.3 | 467.1 | 460.9 | 460.9 | 457.8 | 454.7 | 448.5 | 442.3 | 442.3 | 436.1 | 429.9 |
| 60° | 414.5 | 408.3 | 402.1 | 399.0 | 395.9 | 389.7 | 386.6 | 383.5 | 380.4 | 377.3 | 371.2 |
| 62.5° | 352.6 | 349.5 | 343.3 | 343.3 | 337.1 | 334.0 | 330.9 | 327.8 | 324.8 | 318.6 | 315.5 |
| 65° | 300.0 | 296.9 | 290.7 | 287.6 | 287.6 | 284.5 | 278.3 | 275.2 | 272.2 | 272.2 | 269.1 |
| 67.5° | 250.6 | 247.5 | 241.3 | 238.2 | 238.2 | 235.1 | 232.0 | 232.0 | 229.0 | 225.9 | 229.0 |
| 70° | 207.3 | 201.1 | 201.1 | 198.0 | 198.0 | 194.9 | 191.8 | 191.8 | 191.8 | 194.9 | 194.9 |
| 72.5° | 164.0 | 160.9 | 157.8 | 157.8 | 157.8 | 157.8 | 154.7 | 154.7 | 157.8 | 160.9 | 160.9 |
| 75° | 129.9 | 126.9 | 126.9 | 126.9 | 123.8 | 123.8 | 126.9 | 126.9 | 129.9 | 129.9 | 129.9 |
| 77.5° | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 99.0 | 99.0 | 102.1 | 102.1 | 102.1 |
| 80° | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 77.4 |
| 82.5° | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 52.6 | 52.6 | 52.6 | 52.6 |
| 85° | 27.8 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 |
| 87.5° | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| 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: P584522

CATALOG NUMBER: HCC8S40D010BZ-HM82555827-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 | 2279.8 |
| 2.5° | 2233.4 | 2233.4 | 2233.4 | 2236.5 | 2230.3 | 2230.3 | 2230.3 | 2230.3 |
| 5° | 2180.8 | 2177.7 | 2174.6 | 2177.7 | 2171.5 | 2171.5 | 2168.4 | 2168.4 |
| 7.5° | 2115.8 | 2112.7 | 2109.6 | 2109.6 | 2103.4 | 2103.4 | 2100.4 | 2097.3 |
| 10° | 2044.7 | 2038.5 | 2041.6 | 2035.4 | 2032.3 | 2029.2 | 2026.1 | 2023.0 |
| 12.5° | 1967.3 | 1961.1 | 1958.0 | 1951.8 | 1945.6 | 1942.6 | 1945.6 | 1939.5 |
| 15° | 1883.8 | 1874.5 | 1871.4 | 1865.2 | 1859.0 | 1855.9 | 1855.9 | 1852.8 |
| 17.5° | 1791.1 | 1784.9 | 1781.8 | 1775.6 | 1772.5 | 1766.3 | 1763.2 | 1760.1 |
| 20° | 1704.4 | 1689.0 | 1692.1 | 1685.9 | 1682.8 | 1670.4 | 1670.4 | 1673.5 |
| 22.5° | 1608.5 | 1599.2 | 1593.1 | 1586.9 | 1583.8 | 1577.6 | 1577.6 | 1574.5 |
| 25° | 1512.6 | 1503.3 | 1500.2 | 1494.0 | 1491.0 | 1484.8 | 1481.7 | 1481.7 |
| 27.5° | 1419.8 | 1407.4 | 1407.4 | 1401.2 | 1395.0 | 1391.9 | 1388.8 | 1385.8 |
| 30° | 1320.8 | 1311.5 | 1308.4 | 1308.4 | 1305.3 | 1305.3 | 1296.0 | 1299.1 |
| 32.5° | 1228.1 | 1221.9 | 1218.8 | 1212.6 | 1212.6 | 1209.5 | 1209.5 | 1200.2 |
| 35° | 1135.3 | 1126.0 | 1129.1 | 1122.9 | 1119.8 | 1116.7 | 1119.8 | 1116.7 |
| 37.5° | 1045.5 | 1039.3 | 1039.3 | 1033.2 | 1033.2 | 1030.1 | 1027.0 | 1033.2 |
| 40° | 955.8 | 952.7 | 949.6 | 946.5 | 949.6 | 946.5 | 940.3 | 943.4 |
| 42.5° | 866.1 | 866.1 | 863.0 | 863.0 | 859.9 | 859.9 | 859.9 | 859.9 |
| 45° | 785.6 | 782.5 | 782.5 | 779.4 | 779.4 | 779.4 | 779.4 | 776.5 |
| 47.5° | 705.3 | 702.2 | 702.2 | 702.2 | 699.1 | 699.1 | 696.0 | 699.1 |
| 50° | 628.0 | 628.0 | 624.9 | 624.9 | 628.0 | 624.9 | 621.8 | 621.8 |
| 52.5° | 556.8 | 556.8 | 553.7 | 553.7 | 550.6 | 547.5 | 550.6 | 550.6 |
| 55° | 491.8 | 488.7 | 485.6 | 485.6 | 482.5 | 479.5 | 479.5 | 482.5 |
| 57.5° | 429.9 | 426.9 | 423.8 | 423.8 | 417.6 | 414.5 | 414.5 | 414.5 |
| 60° | 371.2 | 365.0 | 365.0 | 361.9 | 361.9 | 358.8 | 358.8 | 358.8 |
| 62.5° | 315.5 | 312.4 | 312.4 | 312.4 | 312.4 | 309.3 | 309.3 | 309.3 |
| 65° | 269.1 | 269.1 | 269.1 | 272.2 | 272.2 | 275.2 | 275.2 | 275.2 |
| 67.5° | 232.0 | 235.1 | 235.1 | 235.1 | 238.2 | 238.2 | 238.2 | 235.1 |
| 70° | 198.0 | 198.0 | 198.0 | 201.1 | 201.1 | 201.1 | 201.1 | 201.1 |
| 72.5° | 164.0 | 164.0 | 164.0 | 164.0 | 164.0 | 164.0 | 164.0 | 164.0 |
| 75° | 129.9 | 133.0 | 133.0 | 133.0 | 129.9 | 133.0 | 133.0 | 129.9 |
| 77.5° | 102.1 | 102.1 | 102.1 | 102.1 | 102.1 | 102.1 | 102.1 | 102.1 |
| 80° | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 |
| 82.5° | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 |
| 85° | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 | 30.9 |
| 87.5° | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| 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)