

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: P584549

Luminaire Tested: **HCC8S40D010SL-HM82555835-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S40D010SL-HM82555835-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

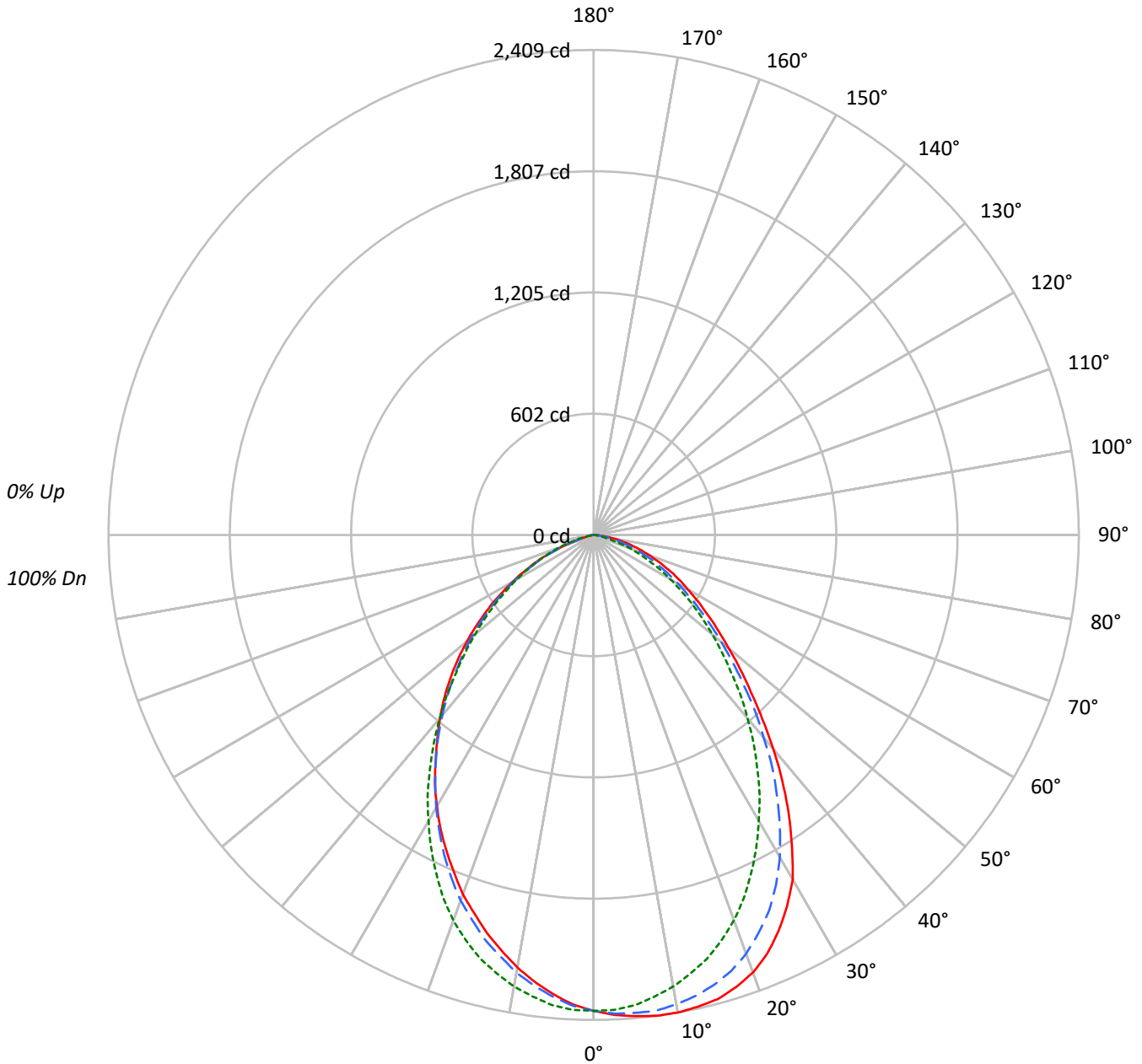
Lumens per Lamp: N/A  
Luminaire Lumens: 4432.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
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: P584549  
CATALOG NUMBER: HCC8S40D010SL-HM82555835-81RWWH

### 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 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 84  | 80  | 84  | 81  | 79  | 77  |    |    | 77  |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |    |    | 67  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 62  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    | 52  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    | 47  |
| 7   | 71  | 58  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    | 38  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 36  | 35  |    |    | 35  |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    | 32  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 72903 | 72903 | 72903 |
| 5°  | 74271 | 72584 | 70900 |
| 10° | 75431 | 71319 | 68307 |
| 15° | 76187 | 69540 | 65349 |
| 20° | 75899 | 66858 | 62336 |
| 25° | 73900 | 62999 | 58858 |
| 30° | 70377 | 58402 | 55436 |
| 35° | 63555 | 53304 | 51493 |
| 40° | 55836 | 47842 | 47709 |
| 45° | 48197 | 42052 | 43866 |
| 50° | 41952 | 36886 | 39338 |
| 55° | 37203 | 32031 | 34273 |
| 60° | 33192 | 27068 | 28443 |
| 65° | 29923 | 21970 | 22437 |
| 70° | 26579 | 16454 | 13280 |
| 75° | 22899 | 9543  | 5731  |
| 80° | 17651 | 3427  | 1705  |
| 85° | 11322 | 1132  | 1132  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 221.9  | 5.0       |
| 10°-20°   | 617.8  | 13.9      |
| 20°-30°   | 873.8  | 19.7      |
| 30°-40°   | 920.8  | 20.8      |
| 40°-50°   | 782.5  | 17.7      |
| 50°-60°   | 563.5  | 12.7      |
| 60°-70°   | 325.1  | 7.3       |
| 70°-80°   | 111.2  | 2.5       |
| 80°-90°   | 15.3   | 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°    | 1713.6 | 38.7      |
| 0°-40°    | 2634.4 | 59.4      |
| 0°-60°    | 3980.4 | 89.8      |
| 0°-90°    | 4432.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4432.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2364 | 2364 | 2364 | 2364 | 2364 |      |
| 5°  | 2399 | 2383 | 2345 | 2303 | 2290 | 229  |
| 15° | 2386 | 2313 | 2178 | 2082 | 2047 | 672  |
| 25° | 2172 | 2060 | 1852 | 1756 | 1730 | 996  |
| 35° | 1688 | 1589 | 1416 | 1365 | 1368 | 1051 |
| 45° | 1105 | 1054 | 964  | 971  | 1006 | 859  |
| 55° | 692  | 638  | 596  | 618  | 638  | 623  |
| 65° | 410  | 352  | 301  | 295  | 308  | 408  |
| 75° | 192  | 144  | 80   | 51   | 48   | 203  |
| 85° | 32   | 19   | 3    | 3    | 3    | 43   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 |
| 2.5°  | 2386.5 | 2389.8 | 2386.5 | 2386.5 | 2383.3 | 2380.1 | 2376.9 | 2373.8 | 2367.4 | 2361.0 | 2361.0 |
| 5°    | 2399.4 | 2405.8 | 2399.4 | 2399.4 | 2389.8 | 2383.3 | 2376.9 | 2367.4 | 2354.5 | 2344.9 | 2344.9 |
| 7.5°  | 2409.0 | 2409.0 | 2409.0 | 2399.4 | 2393.0 | 2383.3 | 2367.4 | 2351.3 | 2335.3 | 2319.3 | 2312.9 |
| 10°   | 2409.0 | 2409.0 | 2405.8 | 2393.0 | 2386.5 | 2367.4 | 2351.3 | 2328.9 | 2306.5 | 2284.1 | 2277.7 |
| 12.5° | 2399.4 | 2402.6 | 2396.2 | 2383.3 | 2367.4 | 2344.9 | 2322.5 | 2293.7 | 2268.0 | 2242.4 | 2229.6 |
| 15°   | 2386.5 | 2383.3 | 2376.9 | 2361.0 | 2341.7 | 2312.9 | 2290.5 | 2258.4 | 2223.2 | 2191.1 | 2178.3 |
| 17.5° | 2354.5 | 2354.5 | 2344.9 | 2328.9 | 2303.2 | 2271.2 | 2236.0 | 2200.8 | 2162.3 | 2127.1 | 2111.1 |
| 20°   | 2312.9 | 2312.9 | 2300.0 | 2280.9 | 2255.2 | 2213.6 | 2175.1 | 2133.6 | 2088.7 | 2053.5 | 2037.4 |
| 22.5° | 2252.1 | 2255.2 | 2239.2 | 2216.7 | 2187.9 | 2139.9 | 2101.4 | 2050.3 | 2005.4 | 1963.7 | 1950.9 |
| 25°   | 2172.0 | 2178.3 | 2162.3 | 2139.9 | 2101.4 | 2059.8 | 2011.8 | 1963.7 | 1912.4 | 1870.8 | 1851.6 |
| 27.5° | 2079.0 | 2082.3 | 2066.2 | 2043.8 | 2005.4 | 1960.5 | 1912.4 | 1861.2 | 1813.2 | 1768.3 | 1749.1 |
| 30°   | 1976.5 | 1963.7 | 1957.3 | 1928.5 | 1886.9 | 1848.4 | 1793.9 | 1752.3 | 1701.0 | 1662.5 | 1640.2 |
| 32.5° | 1832.4 | 1838.8 | 1819.5 | 1797.1 | 1765.1 | 1720.3 | 1675.4 | 1627.3 | 1579.2 | 1550.5 | 1534.5 |
| 35°   | 1688.3 | 1694.7 | 1685.0 | 1662.5 | 1627.3 | 1588.9 | 1544.0 | 1508.8 | 1467.2 | 1431.9 | 1416.0 |
| 37.5° | 1537.6 | 1537.6 | 1531.3 | 1518.4 | 1492.9 | 1457.5 | 1412.8 | 1377.4 | 1342.2 | 1313.4 | 1303.8 |
| 40°   | 1387.1 | 1380.6 | 1377.4 | 1367.9 | 1345.4 | 1313.4 | 1284.6 | 1255.8 | 1220.5 | 1201.3 | 1188.5 |
| 42.5° | 1239.7 | 1239.7 | 1233.3 | 1223.7 | 1201.3 | 1185.2 | 1156.4 | 1124.4 | 1098.7 | 1079.6 | 1079.6 |
| 45°   | 1105.2 | 1108.4 | 1098.7 | 1092.4 | 1079.6 | 1054.0 | 1028.3 | 1005.9 | 983.4  | 970.7  | 964.3  |
| 47.5° | 986.6  | 986.6  | 977.1  | 970.7  | 957.8  | 935.5  | 913.0  | 893.8  | 877.7  | 868.1  | 864.9  |
| 50°   | 874.5  | 874.5  | 874.5  | 858.5  | 842.5  | 826.5  | 810.5  | 788.0  | 778.4  | 772.1  | 768.9  |
| 52.5° | 778.4  | 775.3  | 775.3  | 762.4  | 746.4  | 727.2  | 711.1  | 692.0  | 682.3  | 675.9  | 679.1  |
| 55°   | 692.0  | 692.0  | 688.8  | 672.7  | 656.8  | 637.5  | 621.4  | 605.5  | 599.0  | 592.6  | 595.8  |
| 56°   | 656.8  | 656.8  | 653.5  | 640.7  | 621.4  | 605.5  | 586.2  | 570.2  | 560.6  | 563.8  | 563.8  |
| 57°   | 631.1  | 624.6  | 624.6  | 608.7  | 592.6  | 570.2  | 554.2  | 538.2  | 531.8  | 528.6  | 528.6  |
| 58°   | 599.0  | 595.8  | 592.6  | 576.7  | 560.6  | 541.3  | 525.4  | 509.3  | 499.7  | 499.7  | 496.6  |
| 59°   | 567.0  | 567.0  | 560.6  | 547.8  | 531.8  | 512.5  | 496.6  | 480.5  | 470.9  | 467.7  | 467.7  |
| 60°   | 538.2  | 541.3  | 531.8  | 519.0  | 506.1  | 483.7  | 464.5  | 451.7  | 442.1  | 438.9  | 438.9  |
| 61°   | 512.5  | 512.5  | 506.1  | 490.2  | 474.1  | 458.2  | 438.9  | 422.8  | 416.5  | 410.1  | 410.1  |
| 62°   | 490.2  | 483.7  | 480.5  | 464.5  | 448.5  | 429.2  | 413.3  | 397.2  | 387.6  | 381.2  | 384.4  |
| 63°   | 461.2  | 458.2  | 451.7  | 438.9  | 422.8  | 403.6  | 384.4  | 371.6  | 362.0  | 352.4  | 355.6  |
| 64°   | 438.9  | 435.7  | 426.0  | 413.3  | 397.2  | 378.1  | 358.8  | 345.9  | 339.5  | 330.0  | 326.8  |
| 65°   | 410.1  | 406.9  | 403.6  | 387.6  | 371.6  | 352.4  | 336.4  | 323.6  | 313.9  | 307.5  | 301.1  |
| 66°   | 384.4  | 387.6  | 381.2  | 368.4  | 349.1  | 333.2  | 310.7  | 298.0  | 291.6  | 281.9  | 275.5  |
| 67°   | 362.0  | 362.0  | 355.6  | 342.7  | 323.6  | 307.5  | 291.6  | 275.5  | 265.8  | 256.3  | 253.1  |
| 67.5° | 349.1  | 349.1  | 342.7  | 326.8  | 313.9  | 294.8  | 278.7  | 265.8  | 253.1  | 246.7  | 240.3  |
| 68°   | 336.4  | 336.4  | 333.2  | 320.3  | 304.3  | 285.1  | 269.1  | 253.1  | 240.3  | 230.6  | 227.4  |
| 69°   | 313.9  | 317.1  | 310.7  | 298.0  | 281.9  | 262.6  | 246.7  | 233.8  | 221.0  | 211.5  | 205.0  |
| 70°   | 294.8  | 291.6  | 285.1  | 272.3  | 256.3  | 243.5  | 227.4  | 211.5  | 198.6  | 185.8  | 182.5  |
| 71°   | 269.1  | 269.1  | 262.6  | 253.1  | 237.0  | 221.0  | 205.0  | 192.2  | 179.5  | 163.4  | 160.2  |
| 72°   | 249.9  | 249.9  | 243.5  | 230.6  | 217.9  | 201.8  | 185.8  | 169.8  | 160.2  | 144.1  | 137.8  |
| 72.5° | 237.0  | 240.3  | 233.8  | 221.0  | 208.2  | 189.0  | 176.2  | 163.4  | 147.3  | 134.6  | 128.2  |
| 73°   | 230.6  | 227.4  | 224.2  | 211.5  | 195.4  | 182.5  | 166.6  | 153.7  | 137.8  | 125.0  | 118.5  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 77.5° | 144.1 | 144.1 | 140.9 | 128.2 | 115.3 | 102.5 | 89.7 | 76.9 | 64.0 | 51.3 | 44.9 |
| 80°   | 99.4  | 102.5 | 96.2  | 89.7  | 80.1  | 67.2  | 54.5 | 44.9 | 32.0 | 25.6 | 19.3 |
| 82.5° | 64.0  | 64.0  | 60.8  | 54.5  | 48.1  | 38.4  | 32.0 | 22.4 | 16.1 | 12.9 | 9.6  |
| 85°   | 32.0  | 35.2  | 32.0  | 28.8  | 22.4  | 19.3  | 16.1 | 9.6  | 6.4  | 3.2  | 3.2  |
| 87.5° | 12.9  | 12.9  | 12.9  | 9.6   | 9.6   | 6.4   | 3.2  | 3.2  | 3.2  | 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 | 2364.2 |
| 2.5°  | 2354.5 | 2354.5 | 2348.1 | 2344.9 | 2341.7 | 2338.5 | 2335.3 | 2332.2 | 2332.2 | 2335.3 |
| 5°    | 2335.3 | 2328.9 | 2316.1 | 2312.9 | 2303.2 | 2300.0 | 2293.7 | 2290.5 | 2293.7 | 2290.5 |
| 7.5°  | 2306.5 | 2293.7 | 2277.7 | 2271.2 | 2258.4 | 2252.1 | 2242.4 | 2242.4 | 2236.0 | 2239.2 |
| 10°   | 2268.0 | 2248.9 | 2229.6 | 2216.7 | 2207.2 | 2197.6 | 2191.1 | 2184.7 | 2181.5 | 2181.5 |
| 12.5° | 2219.9 | 2197.6 | 2178.3 | 2159.1 | 2143.1 | 2136.6 | 2123.9 | 2123.9 | 2117.5 | 2114.3 |
| 15°   | 2165.6 | 2136.6 | 2114.3 | 2095.1 | 2082.3 | 2069.4 | 2059.8 | 2053.5 | 2047.0 | 2047.0 |
| 17.5° | 2095.1 | 2069.4 | 2047.0 | 2024.5 | 2005.4 | 1995.7 | 1986.1 | 1976.5 | 1976.5 | 1970.2 |
| 20°   | 2018.1 | 1989.3 | 1970.2 | 1947.7 | 1931.7 | 1915.7 | 1902.8 | 1902.8 | 1896.4 | 1899.6 |
| 22.5° | 1931.7 | 1896.4 | 1877.2 | 1861.2 | 1845.2 | 1832.4 | 1819.5 | 1819.5 | 1816.3 | 1813.2 |
| 25°   | 1835.6 | 1806.8 | 1784.3 | 1765.1 | 1755.5 | 1742.6 | 1739.4 | 1733.1 | 1729.9 | 1729.9 |
| 27.5° | 1733.1 | 1710.6 | 1681.8 | 1672.2 | 1659.3 | 1653.0 | 1653.0 | 1649.8 | 1643.4 | 1646.6 |
| 30°   | 1624.1 | 1598.5 | 1582.5 | 1576.2 | 1563.3 | 1563.3 | 1560.1 | 1553.7 | 1553.7 | 1556.9 |
| 32.5° | 1518.4 | 1492.9 | 1480.0 | 1476.8 | 1463.9 | 1463.9 | 1460.7 | 1463.9 | 1463.9 | 1467.2 |
| 35°   | 1403.1 | 1380.6 | 1377.4 | 1367.9 | 1364.7 | 1364.7 | 1364.7 | 1371.1 | 1377.4 | 1367.9 |
| 37.5° | 1294.2 | 1278.2 | 1268.5 | 1265.3 | 1268.5 | 1268.5 | 1271.8 | 1281.4 | 1278.2 | 1275.0 |
| 40°   | 1182.0 | 1169.3 | 1162.9 | 1162.9 | 1169.3 | 1175.7 | 1175.7 | 1185.2 | 1188.5 | 1185.2 |
| 42.5° | 1069.9 | 1060.3 | 1060.3 | 1063.5 | 1069.9 | 1073.1 | 1082.8 | 1092.4 | 1095.6 | 1098.7 |
| 45°   | 964.3  | 964.3  | 964.3  | 967.5  | 970.7  | 977.1  | 989.8  | 999.5  | 1002.7 | 1005.9 |
| 47.5° | 861.7  | 858.5  | 868.1  | 871.3  | 881.0  | 884.2  | 893.8  | 906.5  | 909.8  | 913.0  |
| 50°   | 765.6  | 772.1  | 775.3  | 784.8  | 791.2  | 791.2  | 804.1  | 810.5  | 820.0  | 820.0  |
| 52.5° | 675.9  | 685.6  | 688.8  | 698.4  | 701.5  | 704.7  | 711.1  | 720.8  | 727.2  | 727.2  |
| 55°   | 595.8  | 599.0  | 605.5  | 608.7  | 618.3  | 621.4  | 627.8  | 631.1  | 640.7  | 637.5  |
| 56°   | 560.6  | 567.0  | 570.2  | 576.7  | 583.0  | 586.2  | 592.6  | 595.8  | 602.3  | 605.5  |
| 57°   | 528.6  | 531.8  | 541.3  | 544.5  | 551.0  | 551.0  | 554.2  | 563.8  | 563.8  | 567.0  |
| 58°   | 496.6  | 502.9  | 506.1  | 509.3  | 515.7  | 519.0  | 525.4  | 528.6  | 531.8  | 528.6  |
| 59°   | 467.7  | 470.9  | 474.1  | 474.1  | 480.5  | 480.5  | 490.2  | 496.6  | 499.7  | 499.7  |
| 60°   | 438.9  | 438.9  | 442.1  | 445.3  | 451.7  | 454.9  | 454.9  | 461.2  | 461.2  | 461.2  |
| 61°   | 410.1  | 410.1  | 413.3  | 416.5  | 419.6  | 419.6  | 426.0  | 426.0  | 429.2  | 432.4  |
| 62°   | 384.4  | 381.2  | 381.2  | 384.4  | 384.4  | 390.8  | 394.0  | 397.2  | 400.4  | 397.2  |
| 63°   | 355.6  | 352.4  | 352.4  | 352.4  | 352.4  | 358.8  | 358.8  | 362.0  | 368.4  | 365.2  |
| 64°   | 323.6  | 323.6  | 323.6  | 323.6  | 326.8  | 326.8  | 333.2  | 336.4  | 339.5  | 342.7  |
| 65°   | 301.1  | 294.8  | 291.6  | 291.6  | 294.8  | 298.0  | 301.1  | 304.3  | 307.5  | 307.5  |
| 66°   | 275.5  | 269.1  | 265.8  | 265.8  | 265.8  | 265.8  | 272.3  | 272.3  | 278.7  | 278.7  |
| 67°   | 246.7  | 240.3  | 237.0  | 233.8  | 233.8  | 233.8  | 243.5  | 240.3  | 240.3  | 240.3  |
| 67.5° | 237.0  | 227.4  | 224.2  | 221.0  | 217.9  | 224.2  | 221.0  | 224.2  | 224.2  | 221.0  |
| 68°   | 224.2  | 217.9  | 211.5  | 205.0  | 205.0  | 205.0  | 208.2  | 211.5  | 208.2  | 205.0  |
| 69°   | 198.6  | 195.4  | 185.8  | 179.5  | 176.2  | 179.5  | 176.2  | 179.5  | 176.2  | 179.5  |
| 70°   | 176.2  | 166.6  | 157.0  | 153.7  | 150.5  | 150.5  | 150.5  | 147.3  | 150.5  | 147.3  |
| 71°   | 153.7  | 144.1  | 134.6  | 128.2  | 125.0  | 125.0  | 121.7  | 125.0  | 121.7  | 125.0  |
| 72°   | 131.4  | 121.7  | 108.9  | 102.5  | 102.5  | 102.5  | 102.5  | 99.4   | 102.5  | 99.4   |
| 72.5° | 121.7  | 108.9  | 99.4   | 92.9   | 89.7   | 89.7   | 89.7   | 89.7   | 86.5   | 89.7   |
| 73°   | 112.1  | 99.4   | 86.5   | 83.3   | 83.3   | 83.3   | 80.1   | 76.9   | 80.1   | 80.1   |



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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P584549

CATALOG NUMBER: HCC8S40D010SL-HM82555835-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 38.4 | 28.8 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 22.4 | 22.4 |
| 80°   | 16.1 | 12.9 | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| 82.5° | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  | 6.4  |
| 85°   | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  |
| 87.5° | 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  |

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

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|     |       |       |       |       |       |       |       |       |       |       |      |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 74° | 208.2 | 208.2 | 201.8 | 192.2 | 176.2 | 160.2 | 147.3 | 134.6 | 118.5 | 102.5 | 96.2 |
| 75° | 192.2 | 189.0 | 182.5 | 173.0 | 160.2 | 144.1 | 131.4 | 115.3 | 102.5 | 86.5  | 80.1 |

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|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 74° | 92.9 | 76.9 | 70.4 | 64.0 | 64.0 | 64.0 | 60.8 | 60.8 | 60.8 | 64.0 |
| 75° | 73.7 | 60.8 | 54.5 | 48.1 | 51.3 | 48.1 | 51.3 | 48.1 | 48.1 | 48.1 |

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