

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: P582772

Luminaire Tested: **HCC6S50D010BZ-HM64560840-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S50D010BZ-HM64560840-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

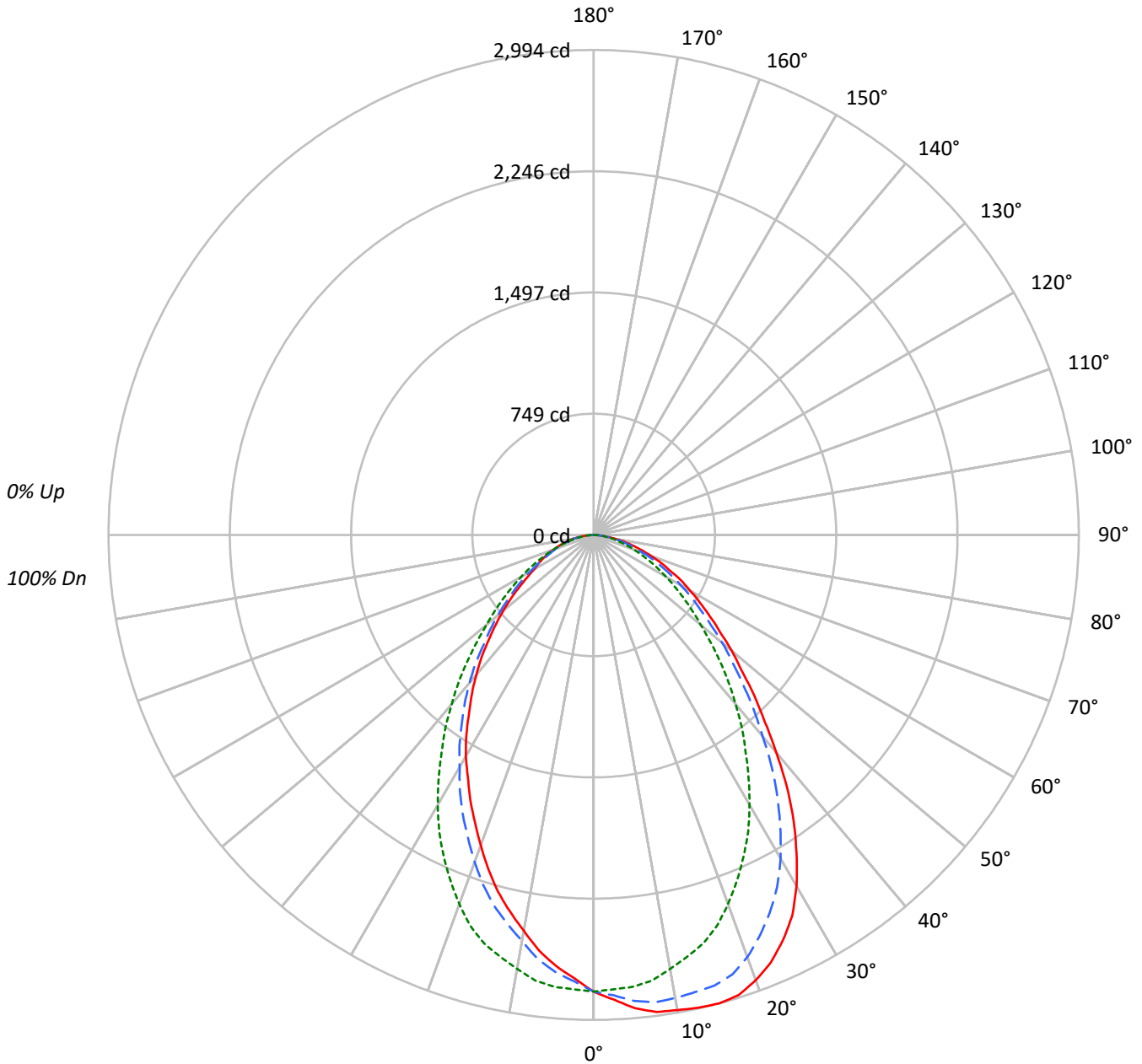
Lumens per Lamp: N/A
Luminaire Lumens: 5251.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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



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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 | | | | | | | | |
| 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 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 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 | 42 | | | | | | | | |
| 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° | 154549 | 154549 | 154549 |
| 5° | 161402 | 154094 | 146995 |
| 10° | 165801 | 151433 | 138129 |
| 15° | 169904 | 148156 | 129422 |
| 20° | 170657 | 141447 | 118865 |
| 25° | 167078 | 132425 | 109016 |
| 30° | 158518 | 121772 | 99914 |
| 35° | 143972 | 109439 | 89637 |
| 40° | 125449 | 97483 | 80644 |
| 45° | 108546 | 85303 | 70891 |
| 50° | 94811 | 73456 | 62122 |
| 55° | 83763 | 64552 | 53312 |
| 60° | 75301 | 56574 | 46170 |
| 65° | 67426 | 49227 | 44791 |
| 70° | 60218 | 41962 | 41962 |
| 75° | 52232 | 35372 | 39375 |
| 80° | 41893 | 29928 | 35926 |
| 85° | 28682 | 26229 | 31072 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 265.0 | 5.0 |
| 10°-20° | 736.5 | 14.0 |
| 20°-30° | 1026.4 | 19.5 |
| 30°-40° | 1057.6 | 20.1 |
| 40°-50° | 876.5 | 16.7 |
| 50°-60° | 629.9 | 12.0 |
| 60°-70° | 401.2 | 7.6 |
| 70°-80° | 206.0 | 3.9 |
| 80°-90° | 52.4 | 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° | 2027.9 | 38.6 |
| 0°-40° | 3085.5 | 58.8 |
| 0°-60° | 4591.9 | 87.4 |
| 0°-90° | 5251.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5251.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2819 | 2819 | 2819 | 2819 | 2819 | |
| 5° | 2933 | 2887 | 2800 | 2709 | 2671 | 281 |
| 15° | 2994 | 2880 | 2610 | 2371 | 2280 | 844 |
| 25° | 2762 | 2572 | 2189 | 1908 | 1802 | 1266 |
| 35° | 2151 | 1977 | 1635 | 1419 | 1339 | 1336 |
| 45° | 1400 | 1302 | 1100 | 960 | 914 | 1084 |
| 55° | 876 | 804 | 675 | 600 | 558 | 790 |
| 65° | 520 | 463 | 380 | 330 | 345 | 521 |
| 75° | 247 | 212 | 167 | 175 | 186 | 263 |
| 85° | 46 | 42 | 42 | 46 | 49 | 58 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2819.2 | 2819.2 | 2819.2 | 2819.2 | 2819.2 | 2819.2 | 2819.2 | 2819.2 | 2819.2 |
| 2.5° | 2872.3 | 2860.9 | 2845.7 | 2830.5 | 2807.7 | 2781.1 | 2758.5 | 2750.8 | 2739.4 |
| 5° | 2933.0 | 2917.8 | 2887.4 | 2849.5 | 2800.2 | 2750.8 | 2709.1 | 2682.5 | 2671.2 |
| 7.5° | 2970.9 | 2951.9 | 2910.2 | 2845.7 | 2773.6 | 2701.5 | 2640.8 | 2602.8 | 2587.7 |
| 10° | 2978.5 | 2959.5 | 2902.7 | 2815.4 | 2720.4 | 2621.8 | 2546.0 | 2500.4 | 2481.4 |
| 12.5° | 2989.9 | 2963.4 | 2891.2 | 2788.8 | 2667.4 | 2553.6 | 2458.7 | 2401.8 | 2382.8 |
| 15° | 2993.7 | 2963.4 | 2879.9 | 2754.7 | 2610.5 | 2473.8 | 2371.4 | 2303.1 | 2280.4 |
| 17.5° | 2978.5 | 2944.4 | 2845.7 | 2694.0 | 2530.8 | 2386.6 | 2265.2 | 2193.1 | 2162.8 |
| 20° | 2925.3 | 2887.4 | 2773.6 | 2602.8 | 2424.6 | 2272.7 | 2147.5 | 2071.7 | 2037.5 |
| 22.5° | 2857.1 | 2807.7 | 2678.7 | 2496.6 | 2310.7 | 2151.3 | 2026.1 | 1950.3 | 1916.1 |
| 25° | 2762.2 | 2716.7 | 2572.5 | 2379.0 | 2189.3 | 2022.3 | 1908.5 | 1828.8 | 1802.3 |
| 27.5° | 2652.2 | 2599.0 | 2451.0 | 2257.6 | 2064.0 | 1897.2 | 1787.1 | 1715.0 | 1680.9 |
| 30° | 2504.2 | 2454.9 | 2307.0 | 2113.4 | 1923.7 | 1768.1 | 1654.3 | 1593.6 | 1578.4 |
| 32.5° | 2329.6 | 2288.0 | 2143.8 | 1961.6 | 1779.5 | 1635.3 | 1540.5 | 1476.0 | 1460.8 |
| 35° | 2151.3 | 2102.1 | 1976.8 | 1806.1 | 1635.3 | 1506.4 | 1419.1 | 1362.2 | 1339.4 |
| 37.5° | 1957.9 | 1912.3 | 1806.1 | 1654.3 | 1502.6 | 1381.1 | 1305.2 | 1255.9 | 1233.1 |
| 40° | 1753.0 | 1718.8 | 1620.1 | 1498.7 | 1362.2 | 1255.9 | 1191.4 | 1149.7 | 1126.9 |
| 42.5° | 1563.3 | 1529.0 | 1460.8 | 1346.9 | 1233.1 | 1138.2 | 1081.3 | 1043.4 | 1024.4 |
| 45° | 1400.1 | 1369.7 | 1301.5 | 1202.7 | 1100.3 | 1020.6 | 959.9 | 933.3 | 914.4 |
| 47.5° | 1237.0 | 1221.7 | 1161.0 | 1070.0 | 975.2 | 906.8 | 865.1 | 834.7 | 819.6 |
| 50° | 1111.7 | 1092.8 | 1035.9 | 941.0 | 861.3 | 808.2 | 770.2 | 743.7 | 728.4 |
| 52.5° | 982.7 | 963.7 | 910.7 | 831.0 | 766.5 | 717.1 | 679.2 | 656.4 | 641.3 |
| 55° | 876.4 | 861.3 | 804.4 | 732.3 | 675.4 | 633.6 | 599.5 | 572.9 | 557.8 |
| 57.5° | 777.8 | 762.7 | 709.5 | 641.3 | 591.9 | 554.0 | 523.7 | 500.9 | 481.8 |
| 60° | 686.8 | 675.4 | 622.3 | 557.8 | 516.0 | 478.1 | 451.5 | 432.6 | 421.1 |
| 62.5° | 607.0 | 584.4 | 538.8 | 481.8 | 443.9 | 413.6 | 387.0 | 375.7 | 383.2 |
| 65° | 519.8 | 508.4 | 463.0 | 413.6 | 379.5 | 349.1 | 330.1 | 337.6 | 345.3 |
| 67.5° | 447.7 | 432.6 | 394.6 | 349.1 | 318.8 | 296.0 | 284.6 | 299.7 | 303.5 |
| 70° | 375.7 | 360.4 | 326.3 | 288.4 | 261.8 | 246.6 | 246.6 | 258.0 | 261.8 |
| 72.5° | 307.3 | 296.0 | 265.6 | 235.3 | 216.2 | 204.9 | 212.5 | 220.0 | 223.9 |
| 75° | 246.6 | 235.3 | 212.5 | 185.9 | 167.0 | 167.0 | 174.6 | 182.1 | 185.9 |
| 77.5° | 189.7 | 182.1 | 159.3 | 140.4 | 132.7 | 132.7 | 140.4 | 144.2 | 148.0 |
| 80° | 132.7 | 125.2 | 113.8 | 102.4 | 94.8 | 102.4 | 110.1 | 110.1 | 113.8 |
| 82.5° | 87.3 | 83.5 | 75.9 | 68.3 | 68.3 | 72.0 | 75.9 | 79.7 | 79.7 |
| 85° | 45.6 | 45.6 | 41.7 | 37.9 | 41.7 | 45.6 | 45.6 | 49.4 | 49.4 |
| 87.5° | 15.2 | 15.2 | 15.2 | 15.2 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



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Scaled Data Report



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

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