

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: P582819

Luminaire Tested: **HCC6S50D010MW-HM64560935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S50D010MW-HM64560935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

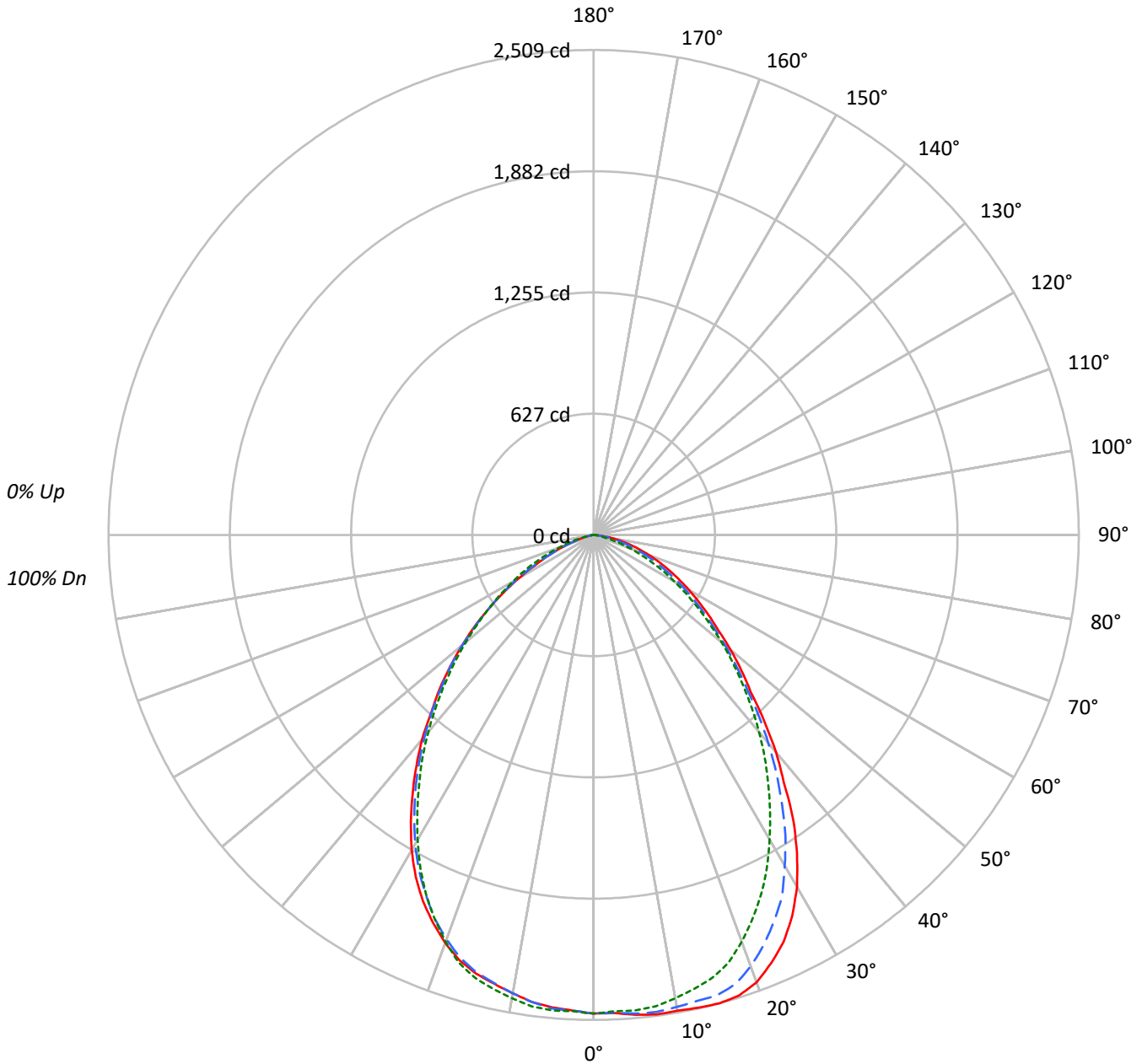
Lumens per Lamp: N/A
Luminaire Lumens: 4851.9 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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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 | 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 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 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 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 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° | 135740 | 135740 | 135740 |
| 5° | 137156 | 135901 | 135010 |
| 10° | 139103 | 135485 | 134038 |
| 15° | 142373 | 134638 | 133349 |
| 20° | 143693 | 130631 | 131011 |
| 25° | 140548 | 124060 | 126413 |
| 30° | 133115 | 115246 | 119151 |
| 35° | 120535 | 105330 | 109245 |
| 40° | 104968 | 95214 | 98699 |
| 45° | 89064 | 84280 | 87304 |
| 50° | 78872 | 73618 | 75563 |
| 55° | 69474 | 62966 | 62660 |
| 60° | 62265 | 53011 | 48746 |
| 65° | 55557 | 42508 | 34945 |
| 70° | 48902 | 30678 | 21847 |
| 75° | 41239 | 18554 | 12391 |
| 80° | 31759 | 8208 | 5114 |
| 85° | 18367 | 2013 | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 235.0 | 4.8 |
| 10°-20° | 675.5 | 13.9 |
| 20°-30° | 976.5 | 20.1 |
| 30°-40° | 1027.5 | 21.2 |
| 40°-50° | 863.8 | 17.8 |
| 50°-60° | 606.2 | 12.5 |
| 60°-70° | 333.5 | 6.9 |
| 70°-80° | 118.4 | 2.4 |
| 80°-90° | 15.5 | 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° | 1887.0 | 38.9 |
| 0°-40° | 2914.5 | 60.1 |
| 0°-60° | 4384.5 | 90.4 |
| 0°-90° | 4851.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4851.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2476 | 2476 | 2476 | 2476 | 2476 | |
| 5° | 2492 | 2486 | 2470 | 2460 | 2453 | 238 |
| 15° | 2509 | 2466 | 2372 | 2343 | 2350 | 708 |
| 25° | 2324 | 2207 | 2051 | 2054 | 2090 | 1063 |
| 35° | 1801 | 1697 | 1574 | 1606 | 1632 | 1116 |
| 45° | 1149 | 1116 | 1087 | 1113 | 1126 | 901 |
| 55° | 727 | 688 | 659 | 659 | 656 | 654 |
| 65° | 428 | 383 | 328 | 269 | 269 | 426 |
| 75° | 195 | 156 | 88 | 58 | 58 | 209 |
| 85° | 29 | 16 | 3 | 3 | 3 | 40 |
| 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° | 2476.1 | 2476.1 | 2476.1 | 2476.1 | 2476.1 | 2476.1 | 2476.1 | 2476.1 | 2476.1 |
| 2.5° | 2476.1 | 2476.1 | 2472.9 | 2472.9 | 2466.4 | 2466.4 | 2463.1 | 2463.1 | 2463.1 |
| 5° | 2492.4 | 2492.4 | 2485.9 | 2476.1 | 2469.6 | 2459.9 | 2459.9 | 2456.6 | 2453.4 |
| 7.5° | 2502.1 | 2498.9 | 2489.1 | 2476.1 | 2459.9 | 2443.6 | 2437.2 | 2440.4 | 2437.2 |
| 10° | 2498.9 | 2492.4 | 2479.4 | 2453.4 | 2433.9 | 2411.2 | 2407.9 | 2404.8 | 2407.9 |
| 12.5° | 2505.4 | 2495.6 | 2469.6 | 2437.2 | 2404.8 | 2378.8 | 2375.5 | 2375.5 | 2378.8 |
| 15° | 2508.6 | 2498.9 | 2466.4 | 2417.7 | 2372.3 | 2346.3 | 2343.1 | 2346.3 | 2349.6 |
| 17.5° | 2498.9 | 2485.9 | 2437.2 | 2372.3 | 2320.3 | 2294.3 | 2294.3 | 2300.8 | 2307.3 |
| 20° | 2463.1 | 2443.6 | 2375.5 | 2297.6 | 2239.2 | 2219.7 | 2226.2 | 2239.2 | 2245.7 |
| 22.5° | 2398.3 | 2375.5 | 2297.6 | 2210.0 | 2148.4 | 2132.2 | 2148.4 | 2164.5 | 2171.0 |
| 25° | 2323.6 | 2297.6 | 2206.8 | 2115.9 | 2051.0 | 2031.6 | 2054.2 | 2080.2 | 2089.9 |
| 27.5° | 2223.0 | 2193.8 | 2109.4 | 2005.6 | 1940.6 | 1930.9 | 1956.9 | 1986.1 | 1992.6 |
| 30° | 2102.9 | 2070.4 | 1976.4 | 1879.0 | 1820.6 | 1817.3 | 1846.5 | 1872.5 | 1882.3 |
| 32.5° | 1956.9 | 1927.6 | 1846.5 | 1749.2 | 1697.2 | 1697.2 | 1726.5 | 1749.2 | 1758.9 |
| 35° | 1801.1 | 1768.7 | 1697.2 | 1616.1 | 1573.9 | 1577.2 | 1606.4 | 1622.6 | 1632.4 |
| 37.5° | 1616.1 | 1606.4 | 1551.2 | 1483.1 | 1453.8 | 1460.3 | 1483.1 | 1496.1 | 1505.8 |
| 40° | 1466.8 | 1440.9 | 1405.2 | 1350.0 | 1330.5 | 1337.0 | 1359.8 | 1372.8 | 1379.2 |
| 42.5° | 1304.5 | 1288.4 | 1259.2 | 1220.2 | 1207.2 | 1217.0 | 1236.4 | 1246.2 | 1242.9 |
| 45° | 1148.8 | 1145.6 | 1116.4 | 1093.6 | 1087.1 | 1100.1 | 1113.1 | 1122.9 | 1126.1 |
| 47.5° | 1035.3 | 1022.3 | 996.3 | 980.1 | 973.6 | 986.6 | 999.5 | 1006.0 | 1006.0 |
| 50° | 924.8 | 912.0 | 886.0 | 869.7 | 863.2 | 876.2 | 886.0 | 892.5 | 886.0 |
| 52.5° | 814.5 | 801.5 | 778.9 | 759.4 | 756.2 | 762.7 | 765.9 | 769.1 | 775.6 |
| 55° | 726.9 | 713.9 | 687.9 | 665.3 | 658.8 | 662.1 | 658.8 | 658.8 | 655.6 |
| 57.5° | 642.6 | 629.6 | 603.6 | 577.6 | 567.9 | 564.6 | 555.0 | 551.6 | 548.5 |
| 60° | 567.9 | 551.6 | 525.8 | 496.5 | 483.5 | 470.5 | 454.3 | 444.6 | 444.6 |
| 62.5° | 496.5 | 480.3 | 451.1 | 425.2 | 405.7 | 382.9 | 357.0 | 344.0 | 344.0 |
| 65° | 428.3 | 415.4 | 382.9 | 353.7 | 327.7 | 298.6 | 269.4 | 262.9 | 269.4 |
| 67.5° | 363.5 | 350.5 | 318.0 | 288.9 | 256.4 | 220.7 | 194.7 | 194.7 | 201.2 |
| 70° | 305.1 | 292.1 | 262.9 | 227.2 | 191.4 | 155.8 | 136.3 | 136.3 | 136.3 |
| 72.5° | 249.9 | 236.9 | 204.4 | 172.0 | 136.3 | 100.6 | 90.8 | 94.1 | 90.8 |
| 75° | 194.7 | 184.9 | 155.8 | 120.1 | 87.6 | 61.6 | 58.5 | 55.2 | 58.5 |
| 77.5° | 146.1 | 136.3 | 110.3 | 77.8 | 48.7 | 35.7 | 32.5 | 32.5 | 32.5 |
| 80° | 100.6 | 90.8 | 71.5 | 45.5 | 26.0 | 16.2 | 16.2 | 16.2 | 16.2 |
| 82.5° | 61.6 | 52.0 | 39.0 | 22.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| 85° | 29.2 | 22.7 | 16.2 | 6.5 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 6.5 | 6.5 | 3.2 | 3.2 | 0.0 | 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 |

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Scaled Data Report



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Scaled Data Report



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

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