

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: P582807

Luminaire Tested: **HCC6W50D010SL-HM64560930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W50D010SL-HM64560930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

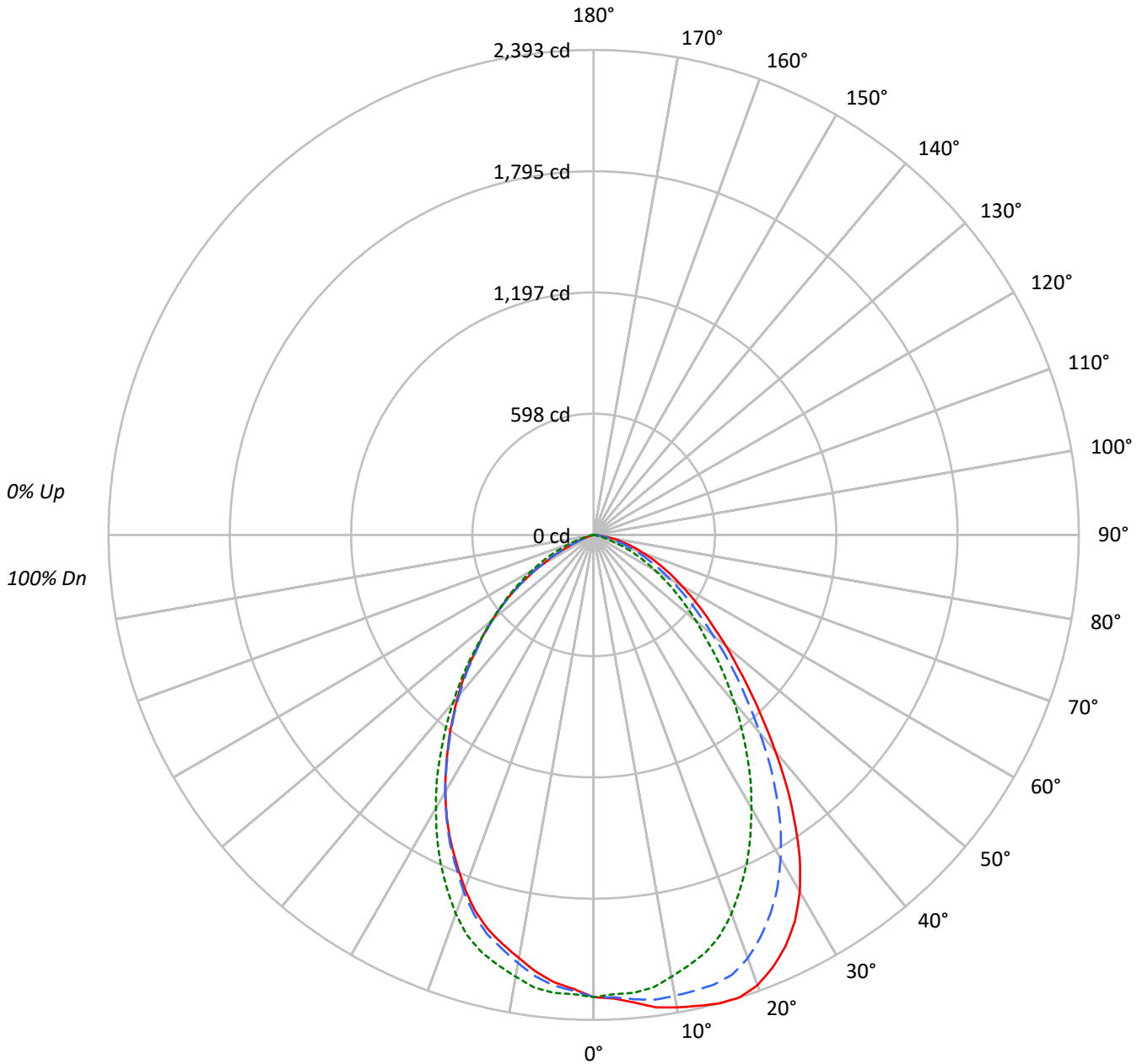
Lumens per Lamp: N/A
Luminaire Lumens: 4064.2 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 125023 | 125023 | 125023 |
| 5° | 127443 | 124802 | 121973 |
| 10° | 131778 | 123205 | 118023 |
| 15° | 135807 | 121062 | 114325 |
| 20° | 137912 | 116023 | 108346 |
| 25° | 135425 | 108067 | 100893 |
| 30° | 128735 | 98477 | 92590 |
| 35° | 115710 | 88017 | 83500 |
| 40° | 99859 | 77130 | 74604 |
| 45° | 84559 | 66402 | 64658 |
| 50° | 72501 | 56083 | 55538 |
| 55° | 62851 | 47215 | 45380 |
| 60° | 54864 | 38341 | 32355 |
| 65° | 48267 | 29536 | 17888 |
| 70° | 41642 | 19539 | 8751 |
| 75° | 35330 | 9510 | 3410 |
| 80° | 27339 | 4072 | 2020 |
| 85° | 16102 | 2013 | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 215.2 | 5.3 |
| 10°-20° | 608.6 | 15.0 |
| 20°-30° | 857.1 | 21.1 |
| 30°-40° | 875.7 | 21.5 |
| 40°-50° | 706.0 | 17.4 |
| 50°-60° | 473.5 | 11.7 |
| 60°-70° | 239.6 | 5.9 |
| 70°-80° | 76.6 | 1.9 |
| 80°-90° | 11.8 | 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° | 1680.9 | 41.4 |
| 0°-40° | 2556.6 | 62.9 |
| 0°-60° | 3736.1 | 91.9 |
| 0°-90° | 4064.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4064.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2281 | 2281 | 2281 | 2281 | 2281 | |
| 5° | 2316 | 2300 | 2268 | 2233 | 2216 | 223 |
| 15° | 2393 | 2297 | 2133 | 2037 | 2014 | 676 |
| 25° | 2239 | 2062 | 1787 | 1678 | 1668 | 1025 |
| 35° | 1729 | 1572 | 1315 | 1241 | 1248 | 1076 |
| 45° | 1091 | 1004 | 856 | 828 | 834 | 848 |
| 55° | 658 | 584 | 494 | 472 | 475 | 592 |
| 65° | 372 | 308 | 228 | 151 | 138 | 371 |
| 75° | 167 | 119 | 45 | 16 | 16 | 179 |
| 85° | 26 | 13 | 3 | 3 | 3 | 34 |
| 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° | 2280.6 | 2280.6 | 2280.6 | 2280.6 | 2280.6 | 2280.6 | 2280.6 | 2280.6 | 2280.6 |
| 2.5° | 2290.3 | 2287.1 | 2283.8 | 2277.4 | 2267.9 | 2258.2 | 2251.8 | 2245.3 | 2242.1 |
| 5° | 2315.9 | 2309.6 | 2299.9 | 2287.1 | 2267.9 | 2245.3 | 2232.6 | 2219.7 | 2216.5 |
| 7.5° | 2351.3 | 2338.4 | 2312.8 | 2283.8 | 2251.8 | 2219.7 | 2197.3 | 2184.4 | 2174.8 |
| 10° | 2367.3 | 2344.8 | 2309.6 | 2261.4 | 2213.3 | 2174.8 | 2145.9 | 2126.6 | 2120.2 |
| 12.5° | 2380.1 | 2354.4 | 2303.1 | 2238.9 | 2174.8 | 2123.4 | 2091.4 | 2075.4 | 2069.0 |
| 15° | 2392.9 | 2367.3 | 2296.7 | 2213.3 | 2133.1 | 2072.2 | 2036.9 | 2020.8 | 2014.4 |
| 17.5° | 2392.9 | 2357.6 | 2274.3 | 2168.4 | 2072.2 | 1998.4 | 1963.1 | 1947.0 | 1943.8 |
| 20° | 2364.0 | 2325.5 | 2222.9 | 2097.8 | 1988.8 | 1905.3 | 1873.3 | 1863.6 | 1857.2 |
| 22.5° | 2309.6 | 2264.6 | 2149.2 | 2008.1 | 1889.4 | 1809.2 | 1773.9 | 1767.4 | 1761.0 |
| 25° | 2238.9 | 2194.1 | 2062.5 | 1911.8 | 1786.6 | 1706.4 | 1677.6 | 1671.2 | 1668.0 |
| 27.5° | 2149.2 | 2101.0 | 1963.1 | 1809.2 | 1674.4 | 1597.4 | 1571.8 | 1571.8 | 1568.6 |
| 30° | 2033.7 | 1979.1 | 1844.4 | 1690.5 | 1555.7 | 1485.1 | 1465.9 | 1465.9 | 1462.7 |
| 32.5° | 1892.6 | 1838.0 | 1716.1 | 1568.6 | 1440.2 | 1366.4 | 1350.5 | 1356.9 | 1353.7 |
| 35° | 1729.0 | 1684.0 | 1571.8 | 1427.4 | 1315.2 | 1247.7 | 1241.3 | 1247.7 | 1247.7 |
| 37.5° | 1565.3 | 1523.6 | 1427.4 | 1302.3 | 1196.5 | 1135.5 | 1135.5 | 1145.1 | 1141.9 |
| 40° | 1395.4 | 1363.2 | 1273.5 | 1164.3 | 1077.8 | 1036.1 | 1029.7 | 1039.3 | 1042.5 |
| 42.5° | 1235.0 | 1209.3 | 1132.3 | 1042.5 | 965.5 | 923.8 | 933.5 | 939.8 | 943.0 |
| 45° | 1090.7 | 1064.9 | 1004.0 | 911.0 | 856.5 | 827.5 | 827.5 | 837.2 | 834.0 |
| 47.5° | 962.3 | 943.0 | 882.1 | 792.3 | 744.1 | 731.4 | 737.8 | 744.1 | 744.1 |
| 50° | 850.1 | 821.1 | 763.4 | 692.9 | 657.6 | 641.5 | 647.9 | 651.2 | 651.2 |
| 52.5° | 744.1 | 724.9 | 667.1 | 603.0 | 571.0 | 561.3 | 561.3 | 564.5 | 564.5 |
| 55° | 657.6 | 635.1 | 583.8 | 519.6 | 494.0 | 481.1 | 471.6 | 468.3 | 474.8 |
| 57.5° | 574.2 | 555.0 | 506.8 | 445.8 | 417.0 | 404.1 | 384.9 | 378.5 | 384.9 |
| 60° | 500.4 | 484.3 | 436.3 | 378.5 | 349.7 | 323.9 | 301.5 | 288.6 | 295.1 |
| 62.5° | 436.3 | 417.0 | 368.8 | 320.8 | 288.6 | 259.8 | 224.5 | 205.3 | 214.9 |
| 65° | 372.1 | 356.1 | 307.9 | 259.8 | 227.7 | 192.5 | 150.8 | 137.9 | 137.9 |
| 67.5° | 314.4 | 298.3 | 253.4 | 211.8 | 173.3 | 131.6 | 93.1 | 89.8 | 93.1 |
| 70° | 259.8 | 243.8 | 205.3 | 163.6 | 121.9 | 80.2 | 54.6 | 54.6 | 54.6 |
| 72.5° | 214.9 | 195.7 | 160.4 | 118.7 | 77.0 | 41.7 | 28.8 | 32.1 | 32.1 |
| 75° | 166.8 | 150.8 | 118.7 | 80.2 | 44.9 | 19.3 | 16.1 | 16.1 | 16.1 |
| 77.5° | 125.1 | 112.3 | 83.4 | 51.4 | 22.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| 80° | 86.6 | 73.8 | 54.6 | 32.1 | 12.9 | 6.4 | 6.4 | 6.4 | 6.4 |
| 82.5° | 51.4 | 44.9 | 32.1 | 16.1 | 6.4 | 3.2 | 3.2 | 3.2 | 3.2 |
| 85° | 25.6 | 22.4 | 12.9 | 6.4 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 6.4 | 6.4 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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