

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: P593372

Luminaire Tested: **HCC6S50D010MW-HM64560950-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593372
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-HM64560950-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

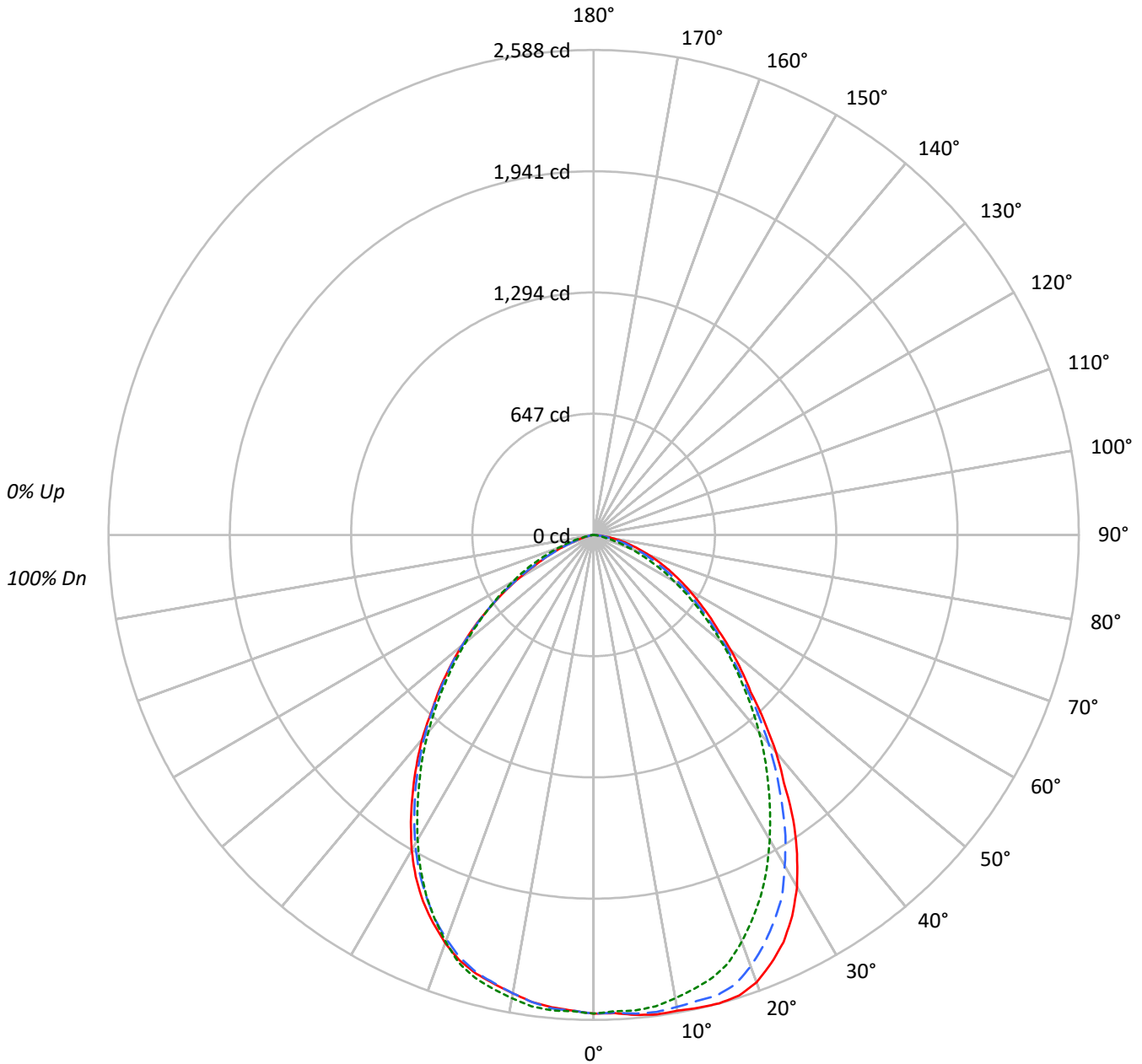
Lumens per Lamp: N/A
Luminaire Lumens: 5005.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 140027 | 140027 | 140027 |
| 5° | 141481 | 140188 | 139269 |
| 10° | 143490 | 139760 | 138274 |
| 15° | 146862 | 138888 | 137549 |
| 20° | 148232 | 134756 | 135141 |
| 25° | 144988 | 127979 | 130405 |
| 30° | 137319 | 118879 | 122911 |
| 35° | 124336 | 108656 | 112692 |
| 40° | 108281 | 98227 | 101819 |
| 45° | 91870 | 86947 | 90056 |
| 50° | 81370 | 75946 | 77942 |
| 55° | 71663 | 64944 | 64629 |
| 60° | 64238 | 54700 | 50281 |
| 65° | 57321 | 43857 | 36048 |
| 70° | 50441 | 31656 | 22552 |
| 75° | 42552 | 19126 | 12751 |
| 80° | 32769 | 8461 | 5304 |
| 85° | 18933 | 2076 | 2076 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 242.5 | 4.8 |
| 10°-20° | 696.8 | 13.9 |
| 20°-30° | 1007.3 | 20.1 |
| 30°-40° | 1059.9 | 21.2 |
| 40°-50° | 891.0 | 17.8 |
| 50°-60° | 625.4 | 12.5 |
| 60°-70° | 344.0 | 6.9 |
| 70°-80° | 122.2 | 2.4 |
| 80°-90° | 16.0 | 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° | 1946.6 | 38.9 |
| 0°-40° | 3006.5 | 60.1 |
| 0°-60° | 4522.9 | 90.4 |
| 0°-90° | 5005.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5005.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2554 | 2554 | 2554 | 2554 | 2554 | |
| 5° | 2571 | 2564 | 2548 | 2538 | 2531 | 246 |
| 15° | 2588 | 2544 | 2447 | 2417 | 2424 | 730 |
| 25° | 2397 | 2276 | 2116 | 2119 | 2156 | 1097 |
| 35° | 1858 | 1751 | 1624 | 1657 | 1684 | 1152 |
| 45° | 1185 | 1152 | 1122 | 1148 | 1162 | 930 |
| 55° | 750 | 710 | 680 | 680 | 676 | 675 |
| 65° | 442 | 395 | 338 | 278 | 278 | 440 |
| 75° | 201 | 161 | 90 | 60 | 60 | 216 |
| 85° | 30 | 17 | 3 | 3 | 3 | 41 |
| 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° | 2554.3 | 2554.3 | 2554.3 | 2554.3 | 2554.3 | 2554.3 | 2554.3 | 2554.3 | 2554.3 |
| 2.5° | 2554.3 | 2554.3 | 2551.0 | 2551.0 | 2544.2 | 2544.2 | 2540.9 | 2540.9 | 2540.9 |
| 5° | 2571.0 | 2571.0 | 2564.3 | 2554.3 | 2547.5 | 2537.5 | 2537.5 | 2534.2 | 2530.8 |
| 7.5° | 2581.1 | 2577.7 | 2567.6 | 2554.3 | 2537.5 | 2520.7 | 2514.1 | 2517.4 | 2514.1 |
| 10° | 2577.7 | 2571.0 | 2557.6 | 2530.8 | 2510.7 | 2487.3 | 2484.0 | 2480.6 | 2484.0 |
| 12.5° | 2584.4 | 2574.3 | 2547.5 | 2514.1 | 2480.6 | 2453.9 | 2450.5 | 2450.5 | 2453.9 |
| 15° | 2587.7 | 2577.7 | 2544.2 | 2494.0 | 2447.2 | 2420.3 | 2417.0 | 2420.3 | 2423.6 |
| 17.5° | 2577.7 | 2564.3 | 2514.1 | 2447.2 | 2393.5 | 2366.8 | 2366.8 | 2373.5 | 2380.2 |
| 20° | 2540.9 | 2520.7 | 2450.5 | 2370.1 | 2309.9 | 2289.8 | 2296.5 | 2309.9 | 2316.5 |
| 22.5° | 2474.0 | 2450.5 | 2370.1 | 2279.8 | 2216.1 | 2199.4 | 2216.1 | 2232.9 | 2239.5 |
| 25° | 2397.0 | 2370.1 | 2276.4 | 2182.7 | 2115.8 | 2095.7 | 2119.1 | 2145.9 | 2155.9 |
| 27.5° | 2293.1 | 2263.0 | 2176.0 | 2068.9 | 2001.9 | 1991.9 | 2018.7 | 2048.8 | 2055.4 |
| 30° | 2169.3 | 2135.8 | 2038.8 | 1938.3 | 1878.0 | 1874.7 | 1904.8 | 1931.6 | 1941.7 |
| 32.5° | 2018.7 | 1988.4 | 1904.8 | 1804.3 | 1750.8 | 1750.8 | 1780.9 | 1804.3 | 1814.4 |
| 35° | 1857.9 | 1824.5 | 1750.8 | 1667.1 | 1623.6 | 1626.9 | 1657.1 | 1673.8 | 1683.9 |
| 37.5° | 1667.1 | 1657.1 | 1600.1 | 1529.9 | 1499.8 | 1506.5 | 1529.9 | 1543.2 | 1553.3 |
| 40° | 1513.1 | 1486.4 | 1449.6 | 1392.6 | 1372.6 | 1379.3 | 1402.7 | 1416.0 | 1422.8 |
| 42.5° | 1345.7 | 1329.0 | 1298.9 | 1258.7 | 1245.4 | 1255.4 | 1275.5 | 1285.5 | 1282.1 |
| 45° | 1185.0 | 1181.7 | 1151.6 | 1128.2 | 1121.5 | 1134.8 | 1148.3 | 1158.3 | 1161.6 |
| 47.5° | 1067.9 | 1054.5 | 1027.7 | 1010.9 | 1004.3 | 1017.7 | 1031.1 | 1037.7 | 1037.7 |
| 50° | 954.1 | 940.7 | 913.9 | 897.2 | 890.5 | 903.8 | 913.9 | 920.6 | 913.9 |
| 52.5° | 840.3 | 826.8 | 803.4 | 783.4 | 780.1 | 786.7 | 790.1 | 793.4 | 800.1 |
| 55° | 749.8 | 736.5 | 709.7 | 686.3 | 679.5 | 683.0 | 679.5 | 679.5 | 676.2 |
| 57.5° | 662.8 | 649.4 | 622.6 | 595.9 | 585.9 | 582.5 | 572.4 | 569.1 | 565.7 |
| 60° | 585.9 | 569.1 | 542.3 | 512.2 | 498.9 | 485.4 | 468.6 | 458.6 | 458.6 |
| 62.5° | 512.2 | 495.4 | 465.3 | 438.5 | 418.4 | 395.0 | 368.2 | 354.9 | 354.9 |
| 65° | 441.9 | 428.5 | 395.0 | 364.9 | 338.1 | 308.0 | 277.9 | 271.2 | 277.9 |
| 67.5° | 375.0 | 361.5 | 328.1 | 298.0 | 264.4 | 227.7 | 200.9 | 200.9 | 207.5 |
| 70° | 314.7 | 301.3 | 271.2 | 234.3 | 197.5 | 160.7 | 140.7 | 140.7 | 140.7 |
| 72.5° | 257.8 | 244.3 | 210.9 | 177.4 | 140.7 | 103.8 | 93.8 | 97.1 | 93.8 |
| 75° | 200.9 | 190.8 | 160.7 | 123.9 | 90.3 | 63.7 | 60.2 | 56.9 | 60.2 |
| 77.5° | 150.7 | 140.7 | 113.8 | 80.3 | 50.2 | 36.8 | 33.4 | 33.4 | 33.4 |
| 80° | 103.8 | 93.8 | 73.7 | 46.9 | 26.8 | 16.8 | 16.8 | 16.8 | 16.8 |
| 82.5° | 63.7 | 53.6 | 40.2 | 23.4 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| 85° | 30.1 | 23.4 | 16.8 | 6.7 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 87.5° | 6.7 | 6.7 | 3.3 | 3.3 | 0.0 | 3.3 | 3.3 | 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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