

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: P582513

Luminaire Tested: **HCC6S40D010MW-HM63040930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582513
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: HCC6S40D010MW-HM63040930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

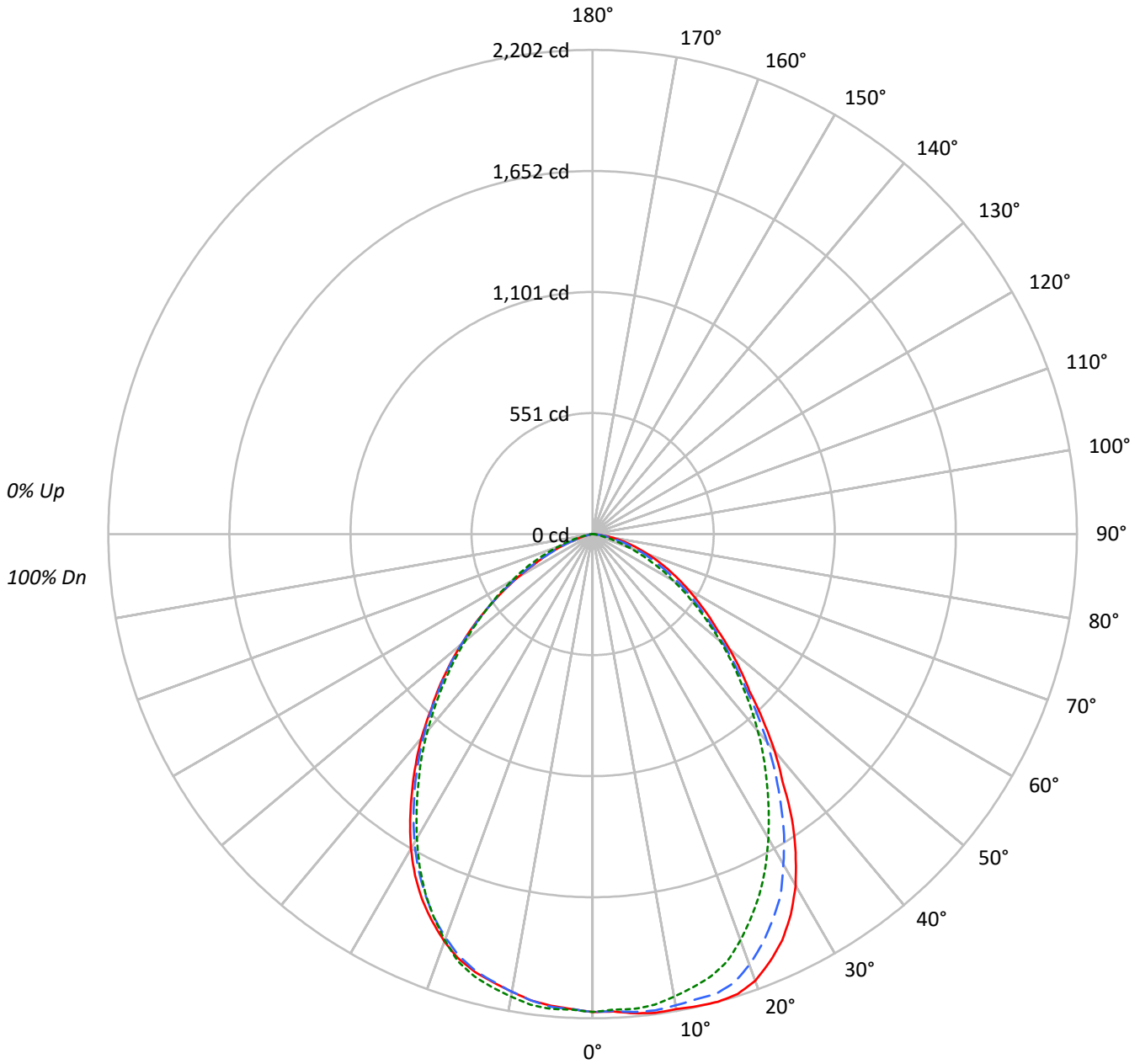
Lumens per Lamp: N/A
Luminaire Lumens: 4258.7 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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 | 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° | 119141 | 119141 | 119141 |
| 5° | 120383 | 119282 | 118501 |
| 10° | 122086 | 118925 | 117655 |
| 15° | 124961 | 118173 | 117044 |
| 20° | 126128 | 114658 | 114991 |
| 25° | 123358 | 108889 | 110952 |
| 30° | 116841 | 101155 | 104573 |
| 35° | 105792 | 92454 | 95881 |
| 40° | 92137 | 83571 | 86634 |
| 45° | 78179 | 73977 | 76636 |
| 50° | 69234 | 64612 | 66326 |
| 55° | 60978 | 55262 | 54985 |
| 60° | 54656 | 46542 | 42793 |
| 65° | 48773 | 37319 | 30665 |
| 70° | 42924 | 26928 | 19170 |
| 75° | 36198 | 16288 | 10866 |
| 80° | 27844 | 7198 | 4483 |
| 85° | 16102 | 1824 | 1824 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 206.3 | 4.8 |
| 10°-20° | 592.9 | 13.9 |
| 20°-30° | 857.1 | 20.1 |
| 30°-40° | 901.8 | 21.2 |
| 40°-50° | 758.1 | 17.8 |
| 50°-60° | 532.1 | 12.5 |
| 60°-70° | 292.7 | 6.9 |
| 70°-80° | 103.9 | 2.4 |
| 80°-90° | 13.6 | 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° | 1656.3 | 38.9 |
| 0°-40° | 2558.2 | 60.1 |
| 0°-60° | 3848.4 | 90.4 |
| 0°-90° | 4258.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4258.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2173 | 2173 | 2173 | 2173 | 2173 | |
| 5° | 2188 | 2182 | 2168 | 2159 | 2153 | 209 |
| 15° | 2202 | 2165 | 2082 | 2057 | 2062 | 621 |
| 25° | 2039 | 1937 | 1800 | 1803 | 1834 | 933 |
| 35° | 1581 | 1490 | 1382 | 1410 | 1433 | 980 |
| 45° | 1008 | 980 | 954 | 977 | 988 | 791 |
| 55° | 638 | 604 | 578 | 578 | 575 | 574 |
| 65° | 376 | 336 | 288 | 236 | 236 | 374 |
| 75° | 171 | 137 | 77 | 51 | 51 | 183 |
| 85° | 26 | 14 | 3 | 3 | 3 | 35 |
| 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° | 2173.3 | 2173.3 | 2173.3 | 2173.3 | 2173.3 | 2173.3 | 2173.3 | 2173.3 | 2173.3 |
| 2.5° | 2173.3 | 2173.3 | 2170.5 | 2170.5 | 2164.9 | 2164.9 | 2162.0 | 2162.0 | 2162.0 |
| 5° | 2187.6 | 2187.6 | 2181.9 | 2173.3 | 2167.6 | 2159.1 | 2159.1 | 2156.3 | 2153.4 |
| 7.5° | 2196.1 | 2193.2 | 2184.8 | 2173.3 | 2159.1 | 2144.8 | 2139.2 | 2142.1 | 2139.2 |
| 10° | 2193.2 | 2187.6 | 2176.2 | 2153.4 | 2136.4 | 2116.3 | 2113.6 | 2110.7 | 2113.6 |
| 12.5° | 2199.0 | 2190.5 | 2167.6 | 2139.2 | 2110.7 | 2087.8 | 2085.1 | 2085.1 | 2087.8 |
| 15° | 2201.8 | 2193.2 | 2164.9 | 2122.1 | 2082.2 | 2059.4 | 2056.6 | 2059.4 | 2062.3 |
| 17.5° | 2193.2 | 2181.9 | 2139.2 | 2082.2 | 2036.7 | 2013.8 | 2013.8 | 2019.5 | 2025.2 |
| 20° | 2162.0 | 2144.8 | 2085.1 | 2016.8 | 1965.4 | 1948.3 | 1954.0 | 1965.4 | 1971.1 |
| 22.5° | 2105.0 | 2085.1 | 2016.8 | 1939.7 | 1885.6 | 1871.4 | 1885.6 | 1899.9 | 1905.6 |
| 25° | 2039.4 | 2016.8 | 1937.0 | 1857.2 | 1800.2 | 1783.2 | 1803.1 | 1825.9 | 1834.3 |
| 27.5° | 1951.2 | 1925.5 | 1851.5 | 1760.3 | 1703.4 | 1694.8 | 1717.6 | 1743.2 | 1749.0 |
| 30° | 1845.8 | 1817.3 | 1734.7 | 1649.3 | 1598.0 | 1595.1 | 1620.8 | 1643.6 | 1652.0 |
| 32.5° | 1717.6 | 1692.0 | 1620.8 | 1535.3 | 1489.7 | 1489.7 | 1515.4 | 1535.3 | 1543.9 |
| 35° | 1580.8 | 1552.3 | 1489.7 | 1418.6 | 1381.5 | 1384.3 | 1410.0 | 1424.3 | 1432.7 |
| 37.5° | 1418.6 | 1410.0 | 1361.6 | 1301.7 | 1276.1 | 1281.8 | 1301.7 | 1313.1 | 1321.6 |
| 40° | 1287.5 | 1264.7 | 1233.4 | 1185.0 | 1167.8 | 1173.5 | 1193.4 | 1204.9 | 1210.6 |
| 42.5° | 1145.0 | 1130.8 | 1105.2 | 1071.0 | 1059.6 | 1068.1 | 1085.3 | 1093.8 | 1090.9 |
| 45° | 1008.4 | 1005.5 | 979.9 | 960.0 | 954.2 | 965.6 | 977.0 | 985.6 | 988.5 |
| 47.5° | 908.7 | 897.3 | 874.5 | 860.3 | 854.6 | 865.9 | 877.3 | 883.1 | 883.1 |
| 50° | 811.8 | 800.4 | 777.7 | 763.4 | 757.6 | 769.1 | 777.7 | 783.4 | 777.7 |
| 52.5° | 714.9 | 703.6 | 683.6 | 666.5 | 663.7 | 669.4 | 672.3 | 675.1 | 680.7 |
| 55° | 638.0 | 626.7 | 603.8 | 583.9 | 578.2 | 581.0 | 578.2 | 578.2 | 575.3 |
| 57.5° | 564.0 | 552.7 | 529.8 | 507.0 | 498.5 | 495.7 | 487.1 | 484.2 | 481.4 |
| 60° | 498.5 | 484.2 | 461.4 | 435.8 | 424.5 | 413.0 | 398.7 | 390.3 | 390.3 |
| 62.5° | 435.8 | 421.6 | 396.0 | 373.1 | 356.0 | 336.1 | 313.3 | 301.9 | 301.9 |
| 65° | 376.0 | 364.6 | 336.1 | 310.5 | 287.7 | 262.1 | 236.4 | 230.7 | 236.4 |
| 67.5° | 319.1 | 307.6 | 279.1 | 253.5 | 225.0 | 193.6 | 170.9 | 170.9 | 176.6 |
| 70° | 267.8 | 256.4 | 230.7 | 199.4 | 168.0 | 136.8 | 119.6 | 119.6 | 119.6 |
| 72.5° | 219.3 | 207.9 | 179.5 | 151.0 | 119.6 | 88.2 | 79.8 | 82.6 | 79.8 |
| 75° | 170.9 | 162.4 | 136.8 | 105.4 | 76.9 | 54.1 | 51.3 | 48.4 | 51.3 |
| 77.5° | 128.2 | 119.6 | 96.8 | 68.3 | 42.7 | 31.4 | 28.5 | 28.5 | 28.5 |
| 80° | 88.2 | 79.8 | 62.7 | 39.8 | 22.8 | 14.2 | 14.2 | 14.2 | 14.2 |
| 82.5° | 54.1 | 45.6 | 34.2 | 19.9 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| 85° | 25.6 | 19.9 | 14.2 | 5.7 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 87.5° | 5.7 | 5.7 | 2.9 | 2.9 | 0.0 | 2.9 | 2.9 | 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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