

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: P582683

Luminaire Tested: **HCC6S45D010MW-HM64560935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010MW-HM64560935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

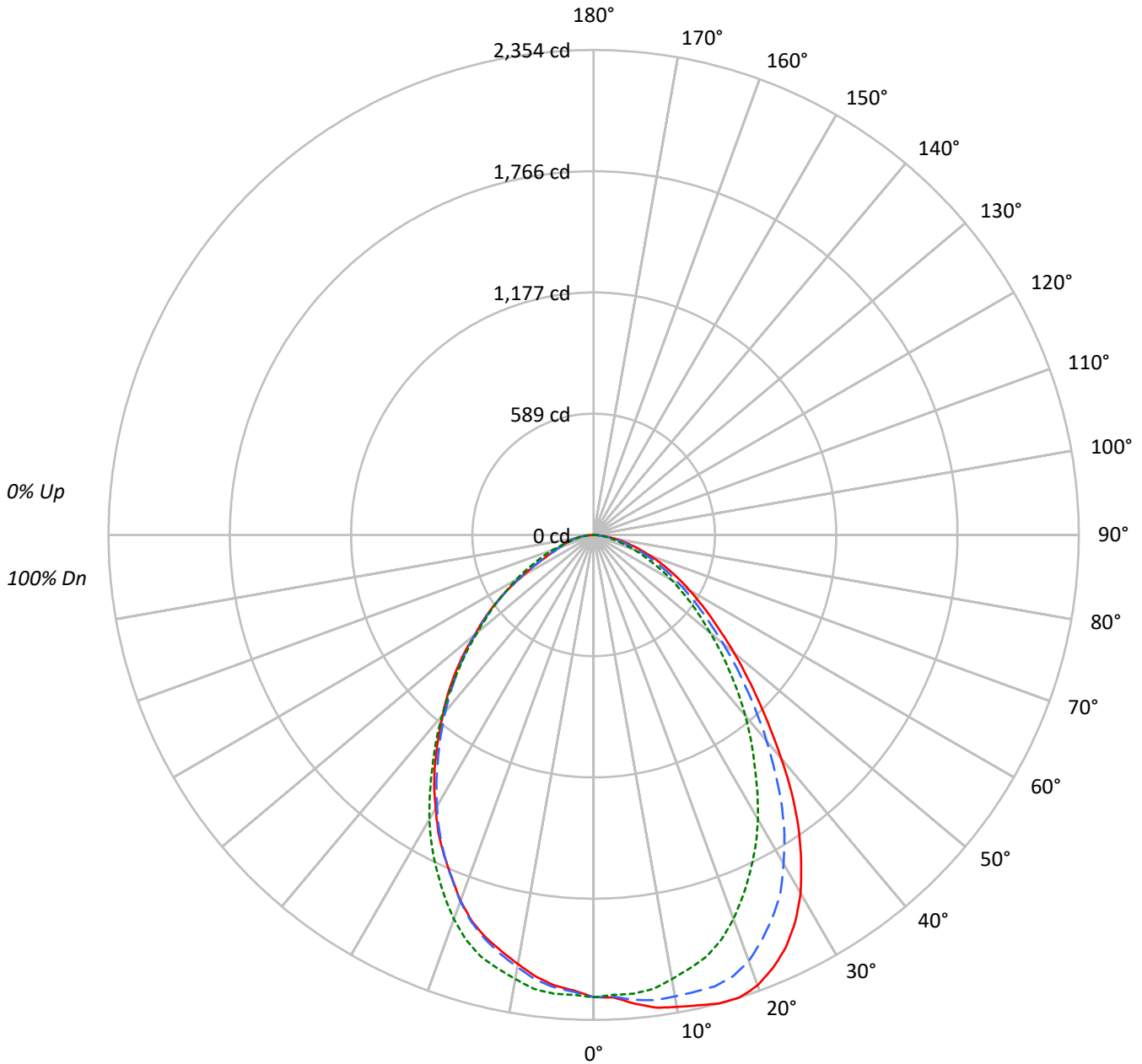
Lumens per Lamp: N/A
Luminaire Lumens: 4394.4 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | 76 | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | 66 | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | 46 | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | 42 | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | 38 | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | 34 | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | 31 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 123011 | 123011 | 123011 |
| 5° | 125677 | 122980 | 120784 |
| 10° | 129523 | 121841 | 117744 |
| 15° | 133616 | 120216 | 114825 |
| 20° | 135742 | 115708 | 110160 |
| 25° | 133502 | 108847 | 103839 |
| 30° | 127102 | 100908 | 97028 |
| 35° | 115917 | 91082 | 89650 |
| 40° | 101354 | 81825 | 81388 |
| 45° | 87218 | 72015 | 73667 |
| 50° | 75818 | 62744 | 64058 |
| 55° | 66215 | 55080 | 55663 |
| 60° | 58811 | 47726 | 43692 |
| 65° | 52496 | 40173 | 33402 |
| 70° | 46194 | 32922 | 28018 |
| 75° | 39608 | 25968 | 26603 |
| 80° | 31917 | 22257 | 26140 |
| 85° | 21197 | 19247 | 23147 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 212.5 | 4.8 |
| 10°-20° | 604.8 | 13.8 |
| 20°-30° | 863.4 | 19.6 |
| 30°-40° | 904.4 | 20.6 |
| 40°-50° | 761.5 | 17.3 |
| 50°-60° | 542.0 | 12.3 |
| 60°-70° | 317.2 | 7.2 |
| 70°-80° | 150.1 | 3.4 |
| 80°-90° | 38.6 | 0.9 |
| 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° | 1680.7 | 38.2 |
| 0°-40° | 2585.1 | 58.8 |
| 0°-60° | 3888.5 | 88.5 |
| 0°-90° | 4394.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4394.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2244 | 2244 | 2244 | 2244 | 2244 | |
| 5° | 2284 | 2265 | 2235 | 2204 | 2195 | 219 |
| 15° | 2354 | 2268 | 2118 | 2032 | 2023 | 665 |
| 25° | 2207 | 2051 | 1800 | 1714 | 1717 | 1010 |
| 35° | 1732 | 1588 | 1361 | 1315 | 1340 | 1076 |
| 45° | 1125 | 1042 | 929 | 932 | 950 | 873 |
| 55° | 693 | 635 | 576 | 576 | 582 | 624 |
| 65° | 405 | 359 | 310 | 260 | 258 | 404 |
| 75° | 187 | 156 | 123 | 120 | 126 | 201 |
| 85° | 34 | 28 | 31 | 37 | 37 | 44 |
| 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° | 2243.9 | 2243.9 | 2243.9 | 2243.9 | 2243.9 | 2243.9 | 2243.9 | 2243.9 | 2243.9 |
| 2.5° | 2247.0 | 2247.0 | 2243.9 | 2240.9 | 2234.8 | 2225.5 | 2219.4 | 2213.3 | 2213.3 |
| 5° | 2283.8 | 2277.6 | 2265.4 | 2250.0 | 2234.8 | 2216.4 | 2204.1 | 2194.9 | 2194.9 |
| 7.5° | 2314.4 | 2302.2 | 2277.6 | 2250.0 | 2222.5 | 2198.0 | 2176.5 | 2164.2 | 2161.1 |
| 10° | 2326.8 | 2311.4 | 2274.6 | 2231.6 | 2188.8 | 2155.0 | 2130.5 | 2115.2 | 2115.2 |
| 12.5° | 2339.0 | 2320.5 | 2271.5 | 2210.3 | 2155.0 | 2109.1 | 2084.5 | 2072.2 | 2069.2 |
| 15° | 2354.3 | 2329.8 | 2268.5 | 2191.9 | 2118.2 | 2066.1 | 2032.5 | 2023.2 | 2023.2 |
| 17.5° | 2354.3 | 2323.6 | 2247.0 | 2152.0 | 2060.0 | 2001.7 | 1971.1 | 1962.0 | 1965.0 |
| 20° | 2326.8 | 2293.0 | 2201.0 | 2084.5 | 1983.4 | 1922.1 | 1891.5 | 1885.2 | 1888.3 |
| 22.5° | 2274.6 | 2234.8 | 2130.5 | 2004.9 | 1894.5 | 1830.1 | 1802.5 | 1802.5 | 1799.5 |
| 25° | 2207.1 | 2164.2 | 2050.9 | 1919.0 | 1799.5 | 1735.1 | 1713.6 | 1716.7 | 1716.7 |
| 27.5° | 2118.2 | 2075.4 | 1962.0 | 1821.0 | 1701.3 | 1636.9 | 1621.7 | 1627.8 | 1630.8 |
| 30° | 2007.9 | 1962.0 | 1842.3 | 1704.4 | 1594.1 | 1529.7 | 1520.4 | 1529.7 | 1532.8 |
| 32.5° | 1873.0 | 1839.3 | 1722.8 | 1581.8 | 1477.6 | 1422.4 | 1419.3 | 1428.5 | 1440.8 |
| 35° | 1732.1 | 1695.2 | 1587.9 | 1459.2 | 1361.0 | 1315.1 | 1315.1 | 1330.4 | 1339.6 |
| 37.5° | 1578.7 | 1541.9 | 1443.8 | 1336.5 | 1253.8 | 1210.9 | 1217.0 | 1232.4 | 1235.4 |
| 40° | 1416.3 | 1388.7 | 1305.9 | 1213.9 | 1143.4 | 1109.7 | 1118.9 | 1134.3 | 1137.3 |
| 42.5° | 1263.0 | 1238.5 | 1171.0 | 1088.3 | 1036.1 | 1011.6 | 1023.9 | 1042.3 | 1048.4 |
| 45° | 1125.0 | 1097.5 | 1042.3 | 971.7 | 928.9 | 916.6 | 931.9 | 944.1 | 950.2 |
| 47.5° | 999.4 | 974.9 | 928.9 | 864.5 | 833.8 | 827.7 | 843.0 | 849.1 | 855.2 |
| 50° | 889.0 | 864.5 | 818.5 | 760.2 | 735.7 | 735.7 | 748.0 | 754.1 | 751.1 |
| 52.5° | 781.7 | 760.2 | 717.3 | 668.3 | 653.0 | 653.0 | 662.2 | 665.2 | 671.3 |
| 55° | 692.8 | 671.3 | 634.6 | 588.6 | 576.3 | 570.2 | 576.3 | 576.3 | 582.4 |
| 57.5° | 610.1 | 591.7 | 557.9 | 514.9 | 499.7 | 493.6 | 490.4 | 487.4 | 493.6 |
| 60° | 536.4 | 521.2 | 484.3 | 447.6 | 435.3 | 419.9 | 407.7 | 395.4 | 398.5 |
| 62.5° | 469.0 | 453.7 | 419.9 | 383.2 | 370.9 | 349.4 | 334.2 | 318.8 | 324.9 |
| 65° | 404.7 | 389.3 | 358.7 | 328.0 | 309.7 | 285.0 | 260.5 | 251.4 | 257.5 |
| 67.5° | 346.4 | 334.2 | 303.5 | 272.8 | 257.5 | 229.9 | 205.4 | 205.4 | 208.4 |
| 70° | 288.2 | 275.9 | 251.4 | 223.8 | 205.4 | 180.9 | 171.6 | 174.8 | 174.8 |
| 72.5° | 236.0 | 226.9 | 202.3 | 177.8 | 159.4 | 144.0 | 144.0 | 147.1 | 150.3 |
| 75° | 187.0 | 180.9 | 156.4 | 134.9 | 122.6 | 113.4 | 119.5 | 122.6 | 125.6 |
| 77.5° | 144.0 | 134.9 | 116.5 | 101.1 | 92.0 | 95.0 | 101.1 | 104.3 | 107.3 |
| 80° | 101.1 | 98.1 | 82.8 | 73.5 | 70.5 | 73.5 | 79.6 | 82.8 | 82.8 |
| 82.5° | 64.4 | 61.3 | 52.1 | 49.0 | 49.0 | 52.1 | 58.3 | 58.3 | 58.3 |
| 85° | 33.7 | 30.6 | 27.6 | 27.6 | 30.6 | 33.7 | 36.8 | 36.8 | 36.8 |
| 87.5° | 12.3 | 9.1 | 12.3 | 12.3 | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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