

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: P582315

Luminaire Tested: **HCC6S35D010MB-HM63040835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582315
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: HCC6S35D010MB-HM63040835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

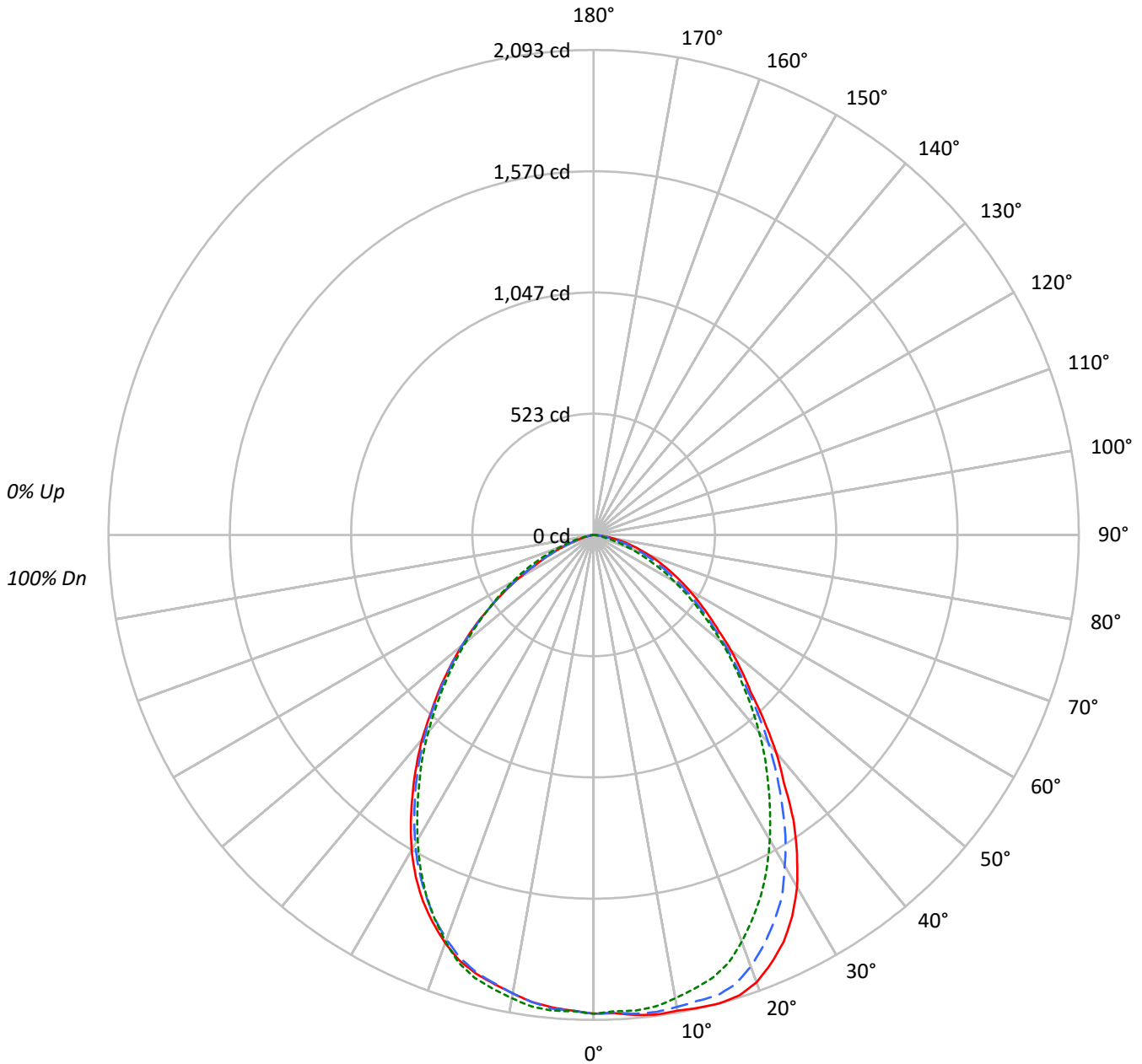
Lumens per Lamp: N/A
Luminaire Lumens: 4048.3 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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° | 113264 | 113264 | 113264 |
| 5° | 114440 | 113394 | 112646 |
| 10° | 116063 | 113046 | 111838 |
| 15° | 118792 | 112333 | 111261 |
| 20° | 119897 | 108999 | 109309 |
| 25° | 117267 | 103512 | 105478 |
| 30° | 111068 | 96160 | 99414 |
| 35° | 100579 | 87883 | 91149 |
| 40° | 87586 | 79449 | 82354 |
| 45° | 74318 | 70325 | 72845 |
| 50° | 65814 | 61431 | 63043 |
| 55° | 57967 | 52538 | 52280 |
| 60° | 51948 | 44229 | 40677 |
| 65° | 46373 | 35464 | 29160 |
| 70° | 40792 | 25613 | 18240 |
| 75° | 34398 | 15483 | 10336 |
| 80° | 26487 | 6851 | 4262 |
| 85° | 15347 | 1698 | 1698 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 196.1 | 4.8 |
| 10°-20° | 563.6 | 13.9 |
| 20°-30° | 814.8 | 20.1 |
| 30°-40° | 857.3 | 21.2 |
| 40°-50° | 720.7 | 17.8 |
| 50°-60° | 505.8 | 12.5 |
| 60°-70° | 278.3 | 6.9 |
| 70°-80° | 98.8 | 2.4 |
| 80°-90° | 12.9 | 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° | 1574.5 | 38.9 |
| 0°-40° | 2431.8 | 60.1 |
| 0°-60° | 3658.3 | 90.4 |
| 0°-90° | 4048.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4048.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2066 | 2066 | 2066 | 2066 | 2066 | |
| 5° | 2080 | 2074 | 2061 | 2052 | 2047 | 199 |
| 15° | 2093 | 2058 | 1979 | 1955 | 1960 | 591 |
| 25° | 1939 | 1841 | 1711 | 1714 | 1744 | 887 |
| 35° | 1503 | 1416 | 1313 | 1340 | 1362 | 931 |
| 45° | 959 | 932 | 907 | 929 | 940 | 752 |
| 55° | 606 | 574 | 550 | 550 | 547 | 546 |
| 65° | 358 | 320 | 273 | 225 | 225 | 356 |
| 75° | 162 | 130 | 73 | 49 | 49 | 174 |
| 85° | 24 | 14 | 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° | 2066.1 | 2066.1 | 2066.1 | 2066.1 | 2066.1 | 2066.1 | 2066.1 | 2066.1 | 2066.1 |
| 2.5° | 2066.1 | 2066.1 | 2063.3 | 2063.3 | 2057.9 | 2057.9 | 2055.2 | 2055.2 | 2055.2 |
| 5° | 2079.6 | 2079.6 | 2074.1 | 2066.1 | 2060.6 | 2052.5 | 2052.5 | 2049.7 | 2047.0 |
| 7.5° | 2087.6 | 2085.0 | 2076.8 | 2066.1 | 2052.5 | 2039.0 | 2033.5 | 2036.2 | 2033.5 |
| 10° | 2085.0 | 2079.6 | 2068.7 | 2047.0 | 2030.8 | 2011.9 | 2009.1 | 2006.4 | 2009.1 |
| 12.5° | 2090.3 | 2082.3 | 2060.6 | 2033.5 | 2006.4 | 1984.8 | 1982.0 | 1982.0 | 1984.8 |
| 15° | 2093.1 | 2085.0 | 2057.9 | 2017.3 | 1979.3 | 1957.8 | 1955.0 | 1957.8 | 1960.4 |
| 17.5° | 2085.0 | 2074.1 | 2033.5 | 1979.3 | 1936.1 | 1914.3 | 1914.3 | 1919.8 | 1925.2 |
| 20° | 2055.2 | 2039.0 | 1982.0 | 1917.1 | 1868.4 | 1852.1 | 1857.5 | 1868.4 | 1873.7 |
| 22.5° | 2001.1 | 1982.0 | 1917.1 | 1844.0 | 1792.5 | 1779.0 | 1792.5 | 1806.0 | 1811.5 |
| 25° | 1938.7 | 1917.1 | 1841.3 | 1765.4 | 1711.3 | 1695.1 | 1714.0 | 1735.7 | 1743.8 |
| 27.5° | 1854.8 | 1830.4 | 1760.1 | 1673.4 | 1619.2 | 1611.2 | 1632.7 | 1657.1 | 1662.5 |
| 30° | 1754.6 | 1727.5 | 1649.0 | 1567.7 | 1519.1 | 1516.4 | 1540.7 | 1562.4 | 1570.5 |
| 32.5° | 1632.7 | 1608.4 | 1540.7 | 1459.5 | 1416.2 | 1416.2 | 1440.5 | 1459.5 | 1467.6 |
| 35° | 1502.9 | 1475.7 | 1416.2 | 1348.5 | 1313.2 | 1316.0 | 1340.3 | 1353.8 | 1362.0 |
| 37.5° | 1348.5 | 1340.3 | 1294.3 | 1237.5 | 1213.1 | 1218.5 | 1237.5 | 1248.2 | 1256.4 |
| 40° | 1223.9 | 1202.2 | 1172.5 | 1126.4 | 1110.2 | 1115.7 | 1134.6 | 1145.4 | 1150.8 |
| 42.5° | 1088.5 | 1074.9 | 1050.7 | 1018.1 | 1007.2 | 1015.4 | 1031.6 | 1039.8 | 1037.1 |
| 45° | 958.6 | 955.9 | 931.5 | 912.5 | 907.1 | 918.0 | 928.8 | 936.9 | 939.6 |
| 47.5° | 863.8 | 853.0 | 831.3 | 817.7 | 812.3 | 823.2 | 833.9 | 839.4 | 839.4 |
| 50° | 771.7 | 760.9 | 739.2 | 725.6 | 720.3 | 731.1 | 739.2 | 744.7 | 739.2 |
| 52.5° | 679.7 | 668.8 | 649.9 | 633.6 | 630.9 | 636.4 | 639.0 | 641.7 | 647.1 |
| 55° | 606.5 | 595.8 | 574.0 | 555.1 | 549.7 | 552.3 | 549.7 | 549.7 | 547.0 |
| 57.5° | 536.1 | 525.3 | 503.7 | 482.0 | 473.8 | 471.1 | 463.1 | 460.3 | 457.6 |
| 60° | 473.8 | 460.3 | 438.7 | 414.3 | 403.4 | 392.6 | 379.0 | 371.0 | 371.0 |
| 62.5° | 414.3 | 400.7 | 376.4 | 354.8 | 338.4 | 319.5 | 297.8 | 287.0 | 287.0 |
| 65° | 357.5 | 346.6 | 319.5 | 295.1 | 273.4 | 249.2 | 224.8 | 219.3 | 224.8 |
| 67.5° | 303.3 | 292.5 | 265.4 | 241.0 | 213.9 | 184.2 | 162.4 | 162.4 | 167.9 |
| 70° | 254.5 | 243.7 | 219.3 | 189.5 | 159.8 | 130.0 | 113.8 | 113.8 | 113.8 |
| 72.5° | 208.5 | 197.7 | 170.6 | 143.5 | 113.8 | 83.9 | 75.9 | 78.5 | 75.9 |
| 75° | 162.4 | 154.4 | 130.0 | 100.2 | 73.1 | 51.5 | 48.8 | 46.0 | 48.8 |
| 77.5° | 121.8 | 113.8 | 92.1 | 65.0 | 40.6 | 29.8 | 27.1 | 27.1 | 27.1 |
| 80° | 83.9 | 75.9 | 59.5 | 37.9 | 21.7 | 13.5 | 13.5 | 13.5 | 13.5 |
| 82.5° | 51.5 | 43.3 | 32.4 | 18.9 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| 85° | 24.4 | 18.9 | 13.5 | 5.4 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 87.5° | 5.4 | 5.4 | 2.7 | 2.7 | 0.0 | 2.7 | 2.7 | 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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