

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: P593246

Luminaire Tested: **HCC6S35D010BZ-HM63040850-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593246
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: HCC6S35D010BZ-HM63040850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

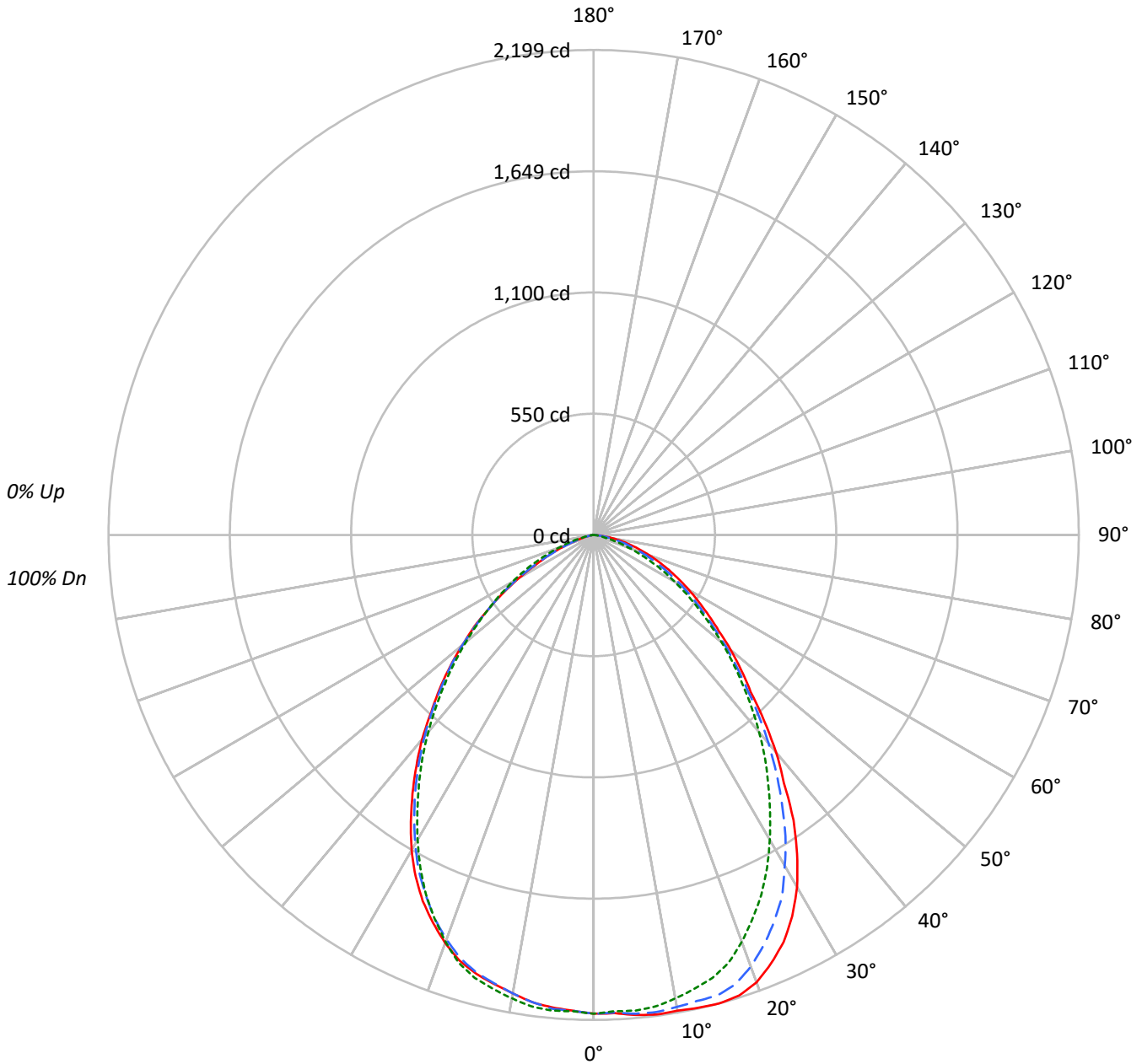
Lumens per Lamp: N/A
Luminaire Lumens: 4253.6 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 119009 | 119009 | 119009 |
| 5° | 120240 | 119145 | 118363 |
| 10° | 121947 | 118785 | 117516 |
| 15° | 124813 | 118031 | 116908 |
| 20° | 125976 | 114524 | 114857 |
| 25° | 123219 | 108762 | 110825 |
| 30° | 116702 | 101035 | 104453 |
| 35° | 105678 | 92347 | 95774 |
| 40° | 92030 | 83478 | 86526 |
| 45° | 78078 | 73891 | 76543 |
| 50° | 69149 | 64544 | 66249 |
| 55° | 60911 | 55195 | 54928 |
| 60° | 54579 | 46488 | 42738 |
| 65° | 48708 | 37267 | 30626 |
| 70° | 42876 | 26896 | 19154 |
| 75° | 36156 | 16267 | 10845 |
| 80° | 27844 | 7198 | 4483 |
| 85° | 16102 | 1761 | 1761 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 206.1 | 4.8 |
| 10°-20° | 592.2 | 13.9 |
| 20°-30° | 856.1 | 20.1 |
| 30°-40° | 900.8 | 21.2 |
| 40°-50° | 757.3 | 17.8 |
| 50°-60° | 531.5 | 12.5 |
| 60°-70° | 292.4 | 6.9 |
| 70°-80° | 103.8 | 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° | 1654.4 | 38.9 |
| 0°-40° | 2555.2 | 60.1 |
| 0°-60° | 3843.9 | 90.4 |
| 0°-90° | 4253.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4253.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2171 | 2171 | 2171 | 2171 | 2171 | |
| 5° | 2185 | 2179 | 2165 | 2157 | 2151 | 209 |
| 15° | 2199 | 2162 | 2080 | 2054 | 2060 | 621 |
| 25° | 2037 | 1935 | 1798 | 1801 | 1832 | 932 |
| 35° | 1579 | 1488 | 1380 | 1408 | 1431 | 979 |
| 45° | 1007 | 979 | 953 | 976 | 987 | 790 |
| 55° | 637 | 603 | 578 | 578 | 575 | 574 |
| 65° | 376 | 336 | 287 | 236 | 236 | 374 |
| 75° | 171 | 136 | 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° | 2170.9 | 2170.9 | 2170.9 | 2170.9 | 2170.9 | 2170.9 | 2170.9 | 2170.9 | 2170.9 |
| 2.5° | 2170.9 | 2170.9 | 2167.9 | 2167.9 | 2162.2 | 2162.2 | 2159.4 | 2159.4 | 2159.4 |
| 5° | 2185.0 | 2185.0 | 2179.4 | 2170.9 | 2165.1 | 2156.6 | 2156.6 | 2153.7 | 2150.9 |
| 7.5° | 2193.6 | 2190.7 | 2182.2 | 2170.9 | 2156.6 | 2142.4 | 2136.7 | 2139.5 | 2136.7 |
| 10° | 2190.7 | 2185.0 | 2173.7 | 2150.9 | 2133.9 | 2113.9 | 2111.1 | 2108.2 | 2111.1 |
| 12.5° | 2196.4 | 2187.9 | 2165.1 | 2136.7 | 2108.2 | 2085.4 | 2082.6 | 2082.6 | 2085.4 |
| 15° | 2199.2 | 2190.7 | 2162.2 | 2119.6 | 2079.7 | 2057.0 | 2054.2 | 2057.0 | 2059.9 |
| 17.5° | 2190.7 | 2179.4 | 2136.7 | 2079.7 | 2034.2 | 2011.4 | 2011.4 | 2017.2 | 2022.9 |
| 20° | 2159.4 | 2142.4 | 2082.6 | 2014.4 | 1963.1 | 1946.1 | 1951.7 | 1963.1 | 1968.8 |
| 22.5° | 2102.5 | 2082.6 | 2014.4 | 1937.5 | 1883.4 | 1869.2 | 1883.4 | 1897.7 | 1903.4 |
| 25° | 2037.1 | 2014.4 | 1934.7 | 1854.9 | 1798.1 | 1781.1 | 1800.9 | 1823.7 | 1832.2 |
| 27.5° | 1948.9 | 1923.3 | 1849.3 | 1758.3 | 1701.4 | 1692.9 | 1715.6 | 1741.2 | 1746.9 |
| 30° | 1843.6 | 1815.2 | 1732.6 | 1647.3 | 1596.1 | 1593.3 | 1618.9 | 1641.6 | 1650.1 |
| 32.5° | 1715.6 | 1689.9 | 1618.9 | 1533.6 | 1487.9 | 1487.9 | 1513.6 | 1533.6 | 1542.1 |
| 35° | 1579.1 | 1550.6 | 1487.9 | 1416.9 | 1379.9 | 1382.7 | 1408.3 | 1422.6 | 1431.1 |
| 37.5° | 1416.9 | 1408.3 | 1359.9 | 1300.2 | 1274.6 | 1280.3 | 1300.2 | 1311.6 | 1320.1 |
| 40° | 1286.0 | 1263.2 | 1231.9 | 1183.6 | 1166.5 | 1172.1 | 1192.1 | 1203.5 | 1209.1 |
| 42.5° | 1143.8 | 1129.5 | 1103.9 | 1069.8 | 1058.4 | 1066.9 | 1084.0 | 1092.5 | 1089.6 |
| 45° | 1007.1 | 1004.3 | 978.8 | 958.8 | 953.1 | 964.5 | 975.8 | 984.4 | 987.3 |
| 47.5° | 907.6 | 896.3 | 873.5 | 859.3 | 853.5 | 864.9 | 876.3 | 882.0 | 882.0 |
| 50° | 810.8 | 799.5 | 776.8 | 762.5 | 756.8 | 768.1 | 776.8 | 782.4 | 776.8 |
| 52.5° | 714.1 | 702.8 | 682.8 | 665.8 | 662.9 | 668.6 | 671.5 | 674.3 | 680.0 |
| 55° | 637.3 | 625.9 | 603.1 | 583.3 | 577.5 | 580.3 | 577.5 | 577.5 | 574.7 |
| 57.5° | 563.3 | 552.0 | 529.2 | 506.5 | 497.8 | 495.0 | 486.5 | 483.7 | 480.8 |
| 60° | 497.8 | 483.7 | 460.8 | 435.3 | 424.0 | 412.5 | 398.3 | 389.8 | 389.8 |
| 62.5° | 435.3 | 421.1 | 395.5 | 372.7 | 355.6 | 335.7 | 313.0 | 301.6 | 301.6 |
| 65° | 375.5 | 364.2 | 335.7 | 310.1 | 287.3 | 261.8 | 236.1 | 230.5 | 236.1 |
| 67.5° | 318.7 | 307.3 | 278.8 | 253.2 | 224.8 | 193.5 | 170.7 | 170.7 | 176.5 |
| 70° | 267.5 | 256.0 | 230.5 | 199.2 | 167.8 | 136.5 | 119.5 | 119.5 | 119.5 |
| 72.5° | 219.0 | 207.7 | 179.3 | 150.8 | 119.5 | 88.2 | 79.7 | 82.5 | 79.7 |
| 75° | 170.7 | 162.2 | 136.5 | 105.3 | 76.8 | 54.0 | 51.2 | 48.3 | 51.2 |
| 77.5° | 128.0 | 119.5 | 96.7 | 68.3 | 42.7 | 31.3 | 28.5 | 28.5 | 28.5 |
| 80° | 88.2 | 79.7 | 62.6 | 39.8 | 22.8 | 14.2 | 14.2 | 14.2 | 14.2 |
| 82.5° | 54.0 | 45.5 | 34.2 | 20.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 85° | 25.6 | 20.0 | 14.2 | 5.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 87.5° | 5.7 | 5.7 | 2.8 | 2.8 | 0.0 | 2.8 | 2.8 | 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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