

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: P582369

Luminaire Tested: **HCC6S35D010BZ-HM63040930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582369
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-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

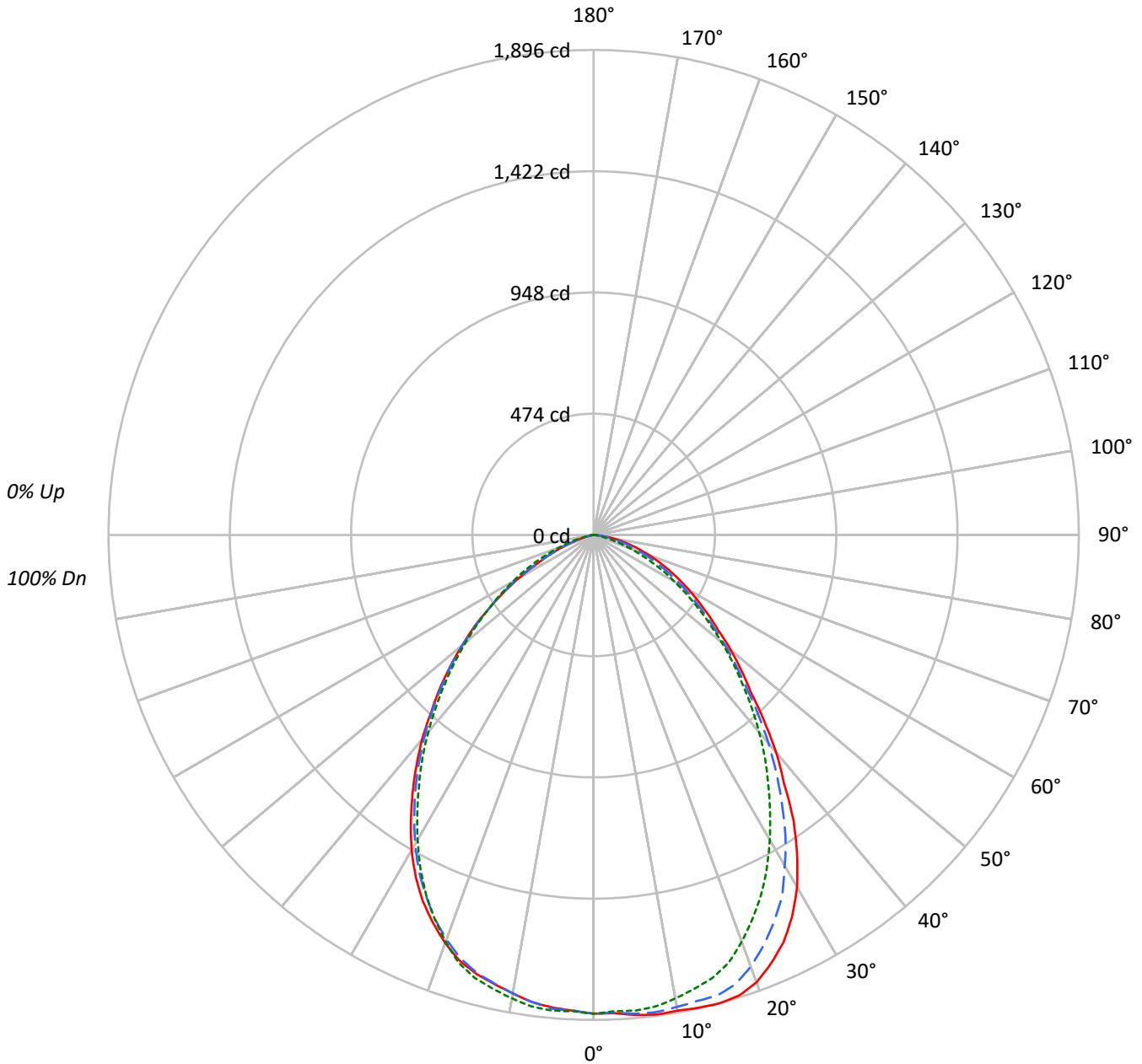
Lumens per Lamp: N/A
Luminaire Lumens: 3667.4 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | | | | | | |
| 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° | 102601 | 102601 | 102601 |
| 5° | 103670 | 102724 | 102052 |
| 10° | 105142 | 102414 | 101317 |
| 15° | 107611 | 101766 | 100789 |
| 20° | 108614 | 98738 | 99024 |
| 25° | 106234 | 93768 | 95558 |
| 30° | 100623 | 87108 | 90058 |
| 35° | 91109 | 79612 | 82576 |
| 40° | 79349 | 71971 | 74604 |
| 45° | 67325 | 63712 | 65991 |
| 50° | 59623 | 55648 | 57107 |
| 55° | 52509 | 47597 | 47358 |
| 60° | 47058 | 40074 | 36850 |
| 65° | 42002 | 32144 | 26410 |
| 70° | 36961 | 23193 | 16509 |
| 75° | 31178 | 14043 | 9341 |
| 80° | 24025 | 6188 | 3883 |
| 85° | 13901 | 1572 | 1572 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 177.7 | 4.8 |
| 10°-20° | 510.6 | 13.9 |
| 20°-30° | 738.1 | 20.1 |
| 30°-40° | 776.6 | 21.2 |
| 40°-50° | 652.9 | 17.8 |
| 50°-60° | 458.2 | 12.5 |
| 60°-70° | 252.1 | 6.9 |
| 70°-80° | 89.5 | 2.4 |
| 80°-90° | 11.7 | 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° | 1426.3 | 38.9 |
| 0°-40° | 2203.0 | 60.1 |
| 0°-60° | 3314.1 | 90.4 |
| 0°-90° | 3667.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3667.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1872 | 1872 | 1872 | 1872 | 1872 | |
| 5° | 1884 | 1879 | 1867 | 1859 | 1854 | 180 |
| 15° | 1896 | 1864 | 1793 | 1771 | 1776 | 535 |
| 25° | 1756 | 1668 | 1550 | 1553 | 1580 | 803 |
| 35° | 1361 | 1283 | 1190 | 1214 | 1234 | 844 |
| 45° | 868 | 844 | 822 | 841 | 851 | 681 |
| 55° | 549 | 520 | 498 | 498 | 496 | 495 |
| 65° | 324 | 289 | 248 | 204 | 204 | 322 |
| 75° | 147 | 118 | 66 | 44 | 44 | 158 |
| 85° | 22 | 12 | 2 | 2 | 2 | 30 |
| 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° | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 | 1871.6 |
| 2.5° | 1871.6 | 1871.6 | 1869.2 | 1869.2 | 1864.3 | 1864.3 | 1861.8 | 1861.8 | 1861.8 |
| 5° | 1883.9 | 1883.9 | 1879.0 | 1871.6 | 1866.7 | 1859.4 | 1859.4 | 1856.9 | 1854.5 |
| 7.5° | 1891.2 | 1888.8 | 1881.4 | 1871.6 | 1859.4 | 1847.1 | 1842.2 | 1844.7 | 1842.2 |
| 10° | 1888.8 | 1883.9 | 1874.1 | 1854.5 | 1839.8 | 1822.5 | 1820.1 | 1817.6 | 1820.1 |
| 12.5° | 1893.7 | 1886.3 | 1866.7 | 1842.2 | 1817.6 | 1798.0 | 1795.5 | 1795.5 | 1798.0 |
| 15° | 1896.1 | 1888.8 | 1864.3 | 1827.5 | 1793.1 | 1773.5 | 1771.0 | 1773.5 | 1775.9 |
| 17.5° | 1888.8 | 1879.0 | 1842.2 | 1793.1 | 1753.9 | 1734.3 | 1734.3 | 1739.2 | 1744.1 |
| 20° | 1861.8 | 1847.1 | 1795.5 | 1736.7 | 1692.5 | 1677.8 | 1682.7 | 1692.5 | 1697.4 |
| 22.5° | 1812.7 | 1795.5 | 1736.7 | 1670.4 | 1623.9 | 1611.6 | 1623.9 | 1636.1 | 1641.0 |
| 25° | 1756.3 | 1736.7 | 1668.0 | 1599.4 | 1550.2 | 1535.5 | 1552.7 | 1572.3 | 1579.8 |
| 27.5° | 1680.2 | 1658.2 | 1594.5 | 1515.9 | 1466.9 | 1459.6 | 1479.2 | 1501.2 | 1506.1 |
| 30° | 1589.6 | 1564.9 | 1493.9 | 1420.2 | 1376.1 | 1373.7 | 1395.7 | 1415.3 | 1422.7 |
| 32.5° | 1479.2 | 1457.1 | 1395.7 | 1322.1 | 1282.9 | 1282.9 | 1304.9 | 1322.1 | 1329.6 |
| 35° | 1361.4 | 1336.9 | 1282.9 | 1221.6 | 1189.6 | 1192.1 | 1214.3 | 1226.5 | 1233.9 |
| 37.5° | 1221.6 | 1214.3 | 1172.5 | 1121.0 | 1099.0 | 1103.9 | 1121.0 | 1130.8 | 1138.2 |
| 40° | 1108.8 | 1089.2 | 1062.1 | 1020.4 | 1005.7 | 1010.6 | 1027.8 | 1037.6 | 1042.5 |
| 42.5° | 986.1 | 973.9 | 951.8 | 922.3 | 912.5 | 919.8 | 934.5 | 941.9 | 939.4 |
| 45° | 868.4 | 865.9 | 843.9 | 826.7 | 821.8 | 831.6 | 841.4 | 848.8 | 851.2 |
| 47.5° | 782.5 | 772.7 | 753.1 | 740.8 | 735.9 | 745.7 | 755.5 | 760.4 | 760.4 |
| 50° | 699.1 | 689.2 | 669.6 | 657.4 | 652.5 | 662.3 | 669.6 | 674.5 | 669.6 |
| 52.5° | 615.7 | 605.9 | 588.8 | 574.0 | 571.6 | 576.5 | 578.9 | 581.4 | 586.3 |
| 55° | 549.4 | 539.6 | 520.0 | 502.9 | 498.0 | 500.4 | 498.0 | 498.0 | 495.5 |
| 57.5° | 485.7 | 475.9 | 456.3 | 436.6 | 429.2 | 426.8 | 419.4 | 417.0 | 414.5 |
| 60° | 429.2 | 417.0 | 397.4 | 375.3 | 365.5 | 355.7 | 343.4 | 336.1 | 336.1 |
| 62.5° | 375.3 | 363.1 | 341.0 | 321.4 | 306.6 | 289.4 | 269.8 | 260.0 | 260.0 |
| 65° | 323.8 | 313.9 | 289.4 | 267.4 | 247.8 | 225.7 | 203.6 | 198.7 | 203.6 |
| 67.5° | 274.7 | 264.9 | 240.4 | 218.3 | 193.8 | 166.8 | 147.2 | 147.2 | 152.1 |
| 70° | 230.6 | 220.8 | 198.7 | 171.7 | 144.7 | 117.8 | 103.0 | 103.0 | 103.0 |
| 72.5° | 188.8 | 179.0 | 154.5 | 130.0 | 103.0 | 76.1 | 68.7 | 71.2 | 68.7 |
| 75° | 147.2 | 139.8 | 117.8 | 90.8 | 66.3 | 46.6 | 44.1 | 41.7 | 44.1 |
| 77.5° | 110.4 | 103.0 | 83.4 | 58.8 | 36.8 | 27.0 | 24.5 | 24.5 | 24.5 |
| 80° | 76.1 | 68.7 | 53.9 | 34.3 | 19.6 | 12.3 | 12.3 | 12.3 | 12.3 |
| 82.5° | 46.6 | 39.2 | 29.4 | 17.2 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| 85° | 22.1 | 17.2 | 12.3 | 4.9 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 4.9 | 4.9 | 2.5 | 2.5 | 0.0 | 2.5 | 2.5 | 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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