

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: P593266

Luminaire Tested: **HCC6W35D010BZ-HM63040950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W35D010BZ-HM63040950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

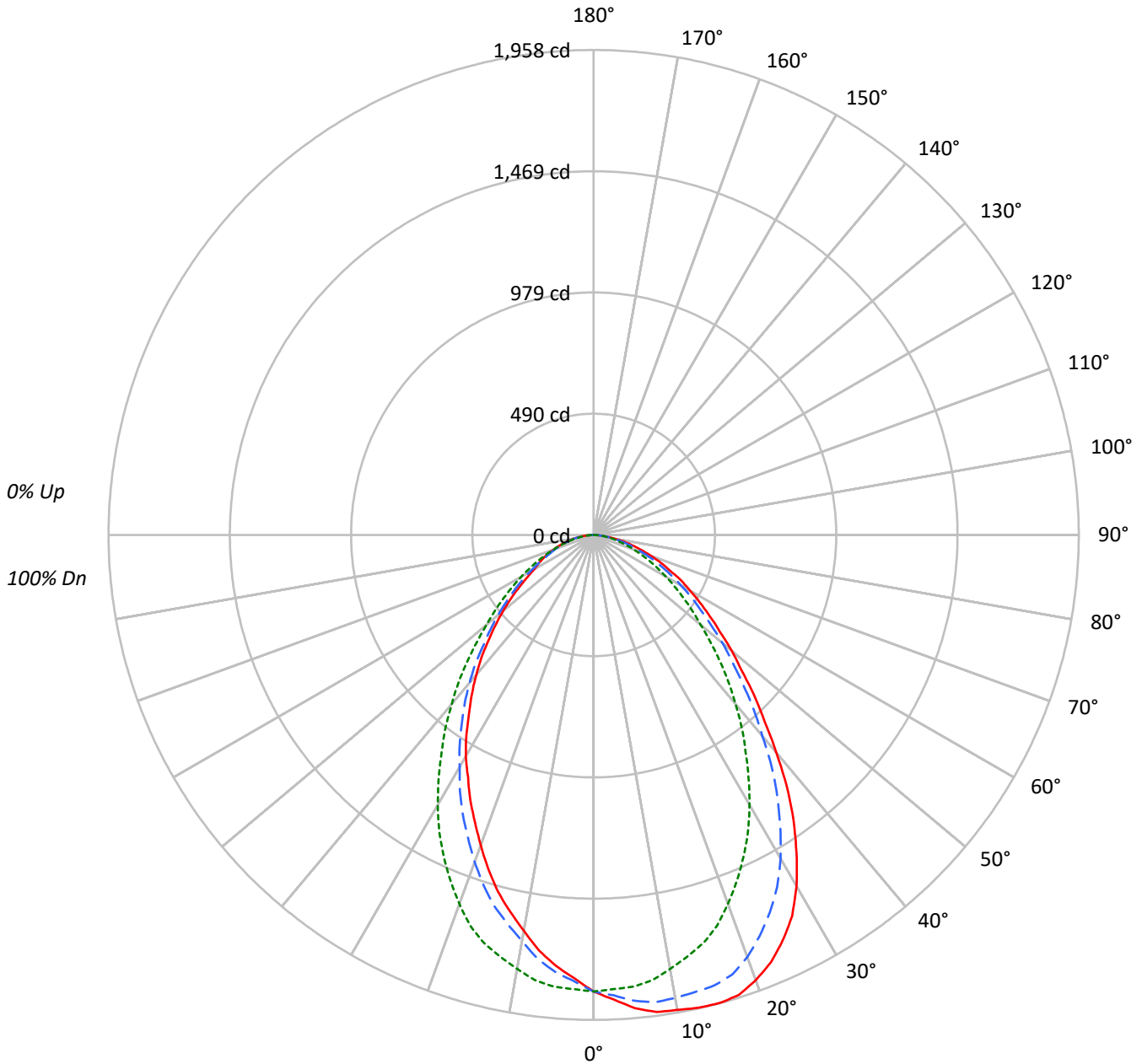
Lumens per Lamp: N/A
Luminaire Lumens: 3433.9 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 101055 | 101055 | 101055 |
| 5° | 105536 | 100759 | 96115 |
| 10° | 108415 | 99024 | 90323 |
| 15° | 111096 | 96879 | 84626 |
| 20° | 111590 | 92490 | 77730 |
| 25° | 109252 | 86594 | 71290 |
| 30° | 103655 | 79626 | 65333 |
| 35° | 94141 | 71561 | 58611 |
| 40° | 82025 | 63741 | 52727 |
| 45° | 70976 | 55781 | 46361 |
| 50° | 61994 | 48033 | 40630 |
| 55° | 54775 | 42206 | 34857 |
| 60° | 49239 | 36993 | 30195 |
| 65° | 44090 | 32182 | 29290 |
| 70° | 39382 | 27441 | 27441 |
| 75° | 34165 | 23108 | 25756 |
| 80° | 27402 | 19605 | 23519 |
| 85° | 18744 | 17171 | 20254 |

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 173.2 | 5.0 |
| 10°-20° | 481.6 | 14.0 |
| 20°-30° | 671.2 | 19.5 |
| 30°-40° | 691.5 | 20.1 |
| 40°-50° | 573.1 | 16.7 |
| 50°-60° | 411.9 | 12.0 |
| 60°-70° | 262.3 | 7.6 |
| 70°-80° | 134.7 | 3.9 |
| 80°-90° | 34.3 | 1.0 |
| 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° | 1326.0 | 38.6 |
| 0°-40° | 2017.6 | 58.8 |
| 0°-60° | 3002.6 | 87.4 |
| 0°-90° | 3433.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3433.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1843 | 1843 | 1843 | 1843 | 1843 | |
| 5° | 1918 | 1888 | 1831 | 1772 | 1747 | 184 |
| 15° | 1958 | 1883 | 1707 | 1551 | 1491 | 552 |
| 25° | 1806 | 1682 | 1432 | 1248 | 1179 | 828 |
| 35° | 1407 | 1293 | 1069 | 928 | 876 | 874 |
| 45° | 916 | 851 | 720 | 628 | 598 | 709 |
| 55° | 573 | 526 | 442 | 392 | 365 | 516 |
| 65° | 340 | 303 | 248 | 216 | 226 | 340 |
| 75° | 161 | 139 | 109 | 114 | 122 | 172 |
| 85° | 30 | 27 | 27 | 30 | 32 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593266

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1843.4 | 1843.4 | 1843.4 | 1843.4 | 1843.4 | 1843.4 | 1843.4 | 1843.4 | 1843.4 |
| 2.5° | 1878.2 | 1870.7 | 1860.8 | 1850.9 | 1835.9 | 1818.7 | 1803.7 | 1798.8 | 1791.3 |
| 5° | 1917.8 | 1907.9 | 1888.1 | 1863.2 | 1831.0 | 1798.8 | 1771.5 | 1754.1 | 1746.6 |
| 7.5° | 1942.7 | 1930.2 | 1902.9 | 1860.8 | 1813.6 | 1766.5 | 1726.8 | 1702.0 | 1692.0 |
| 10° | 1947.6 | 1935.2 | 1898.0 | 1840.9 | 1778.9 | 1714.4 | 1664.7 | 1635.0 | 1622.6 |
| 12.5° | 1955.1 | 1937.7 | 1890.5 | 1823.6 | 1744.2 | 1669.7 | 1607.7 | 1570.5 | 1558.1 |
| 15° | 1957.5 | 1937.7 | 1883.1 | 1801.3 | 1707.0 | 1617.7 | 1550.7 | 1506.0 | 1491.1 |
| 17.5° | 1947.6 | 1925.3 | 1860.8 | 1761.6 | 1654.8 | 1560.6 | 1481.2 | 1434.0 | 1414.2 |
| 20° | 1912.8 | 1888.1 | 1813.6 | 1702.0 | 1585.4 | 1486.2 | 1404.3 | 1354.7 | 1332.4 |
| 22.5° | 1868.3 | 1835.9 | 1751.7 | 1632.5 | 1510.9 | 1406.7 | 1324.9 | 1275.3 | 1252.9 |
| 25° | 1806.2 | 1776.4 | 1682.1 | 1555.6 | 1431.6 | 1322.4 | 1248.0 | 1195.8 | 1178.6 |
| 27.5° | 1734.3 | 1699.5 | 1602.8 | 1476.3 | 1349.6 | 1240.5 | 1168.5 | 1121.5 | 1099.1 |
| 30° | 1637.5 | 1605.2 | 1508.5 | 1382.0 | 1257.9 | 1156.1 | 1081.7 | 1042.0 | 1032.1 |
| 32.5° | 1523.4 | 1496.1 | 1401.8 | 1282.6 | 1163.6 | 1069.3 | 1007.4 | 965.1 | 955.2 |
| 35° | 1406.7 | 1374.5 | 1292.6 | 1181.0 | 1069.3 | 984.9 | 927.9 | 890.7 | 875.8 |
| 37.5° | 1280.2 | 1250.4 | 1181.0 | 1081.7 | 982.5 | 903.1 | 853.4 | 821.2 | 806.4 |
| 40° | 1146.2 | 1123.9 | 1059.4 | 980.0 | 890.7 | 821.2 | 779.1 | 751.8 | 736.8 |
| 42.5° | 1022.2 | 999.9 | 955.2 | 880.7 | 806.4 | 744.3 | 707.1 | 682.3 | 669.9 |
| 45° | 915.5 | 895.7 | 851.0 | 786.4 | 719.5 | 667.4 | 627.7 | 610.3 | 598.0 |
| 47.5° | 808.8 | 798.9 | 759.3 | 699.6 | 637.6 | 593.0 | 565.6 | 545.8 | 535.9 |
| 50° | 726.9 | 714.6 | 677.3 | 615.2 | 563.2 | 528.4 | 503.7 | 486.3 | 476.4 |
| 52.5° | 642.6 | 630.2 | 595.4 | 543.4 | 501.2 | 468.9 | 444.2 | 429.2 | 419.3 |
| 55° | 573.1 | 563.2 | 526.0 | 478.8 | 441.6 | 414.3 | 392.0 | 374.6 | 364.7 |
| 57.5° | 508.6 | 498.7 | 464.0 | 419.3 | 387.1 | 362.2 | 342.4 | 327.5 | 315.1 |
| 60° | 449.1 | 441.6 | 406.9 | 364.7 | 337.4 | 312.6 | 295.3 | 282.9 | 275.4 |
| 62.5° | 397.0 | 382.1 | 352.3 | 315.1 | 290.2 | 270.4 | 253.1 | 245.7 | 250.6 |
| 65° | 339.9 | 332.5 | 302.7 | 270.4 | 248.1 | 228.3 | 215.9 | 220.8 | 225.8 |
| 67.5° | 292.8 | 282.9 | 258.0 | 228.3 | 208.4 | 193.5 | 186.1 | 196.1 | 198.5 |
| 70° | 245.7 | 235.7 | 213.3 | 188.6 | 171.2 | 161.3 | 161.3 | 168.7 | 171.2 |
| 72.5° | 201.0 | 193.5 | 173.6 | 153.8 | 141.4 | 134.0 | 139.0 | 143.9 | 146.3 |
| 75° | 161.3 | 153.8 | 139.0 | 121.6 | 109.1 | 109.1 | 114.1 | 119.0 | 121.6 |
| 77.5° | 124.1 | 119.0 | 104.2 | 91.8 | 86.8 | 86.8 | 91.8 | 94.3 | 96.7 |
| 80° | 86.8 | 81.9 | 74.5 | 67.0 | 62.1 | 67.0 | 72.0 | 72.0 | 74.5 |
| 82.5° | 57.1 | 54.6 | 49.6 | 44.7 | 44.7 | 47.1 | 49.6 | 52.0 | 52.0 |
| 85° | 29.8 | 29.8 | 27.3 | 24.9 | 27.3 | 29.8 | 29.8 | 32.2 | 32.2 |
| 87.5° | 9.9 | 9.9 | 9.9 | 9.9 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

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