

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: P593264

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593264
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: HCC6W35D010BZ-HM63040950-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

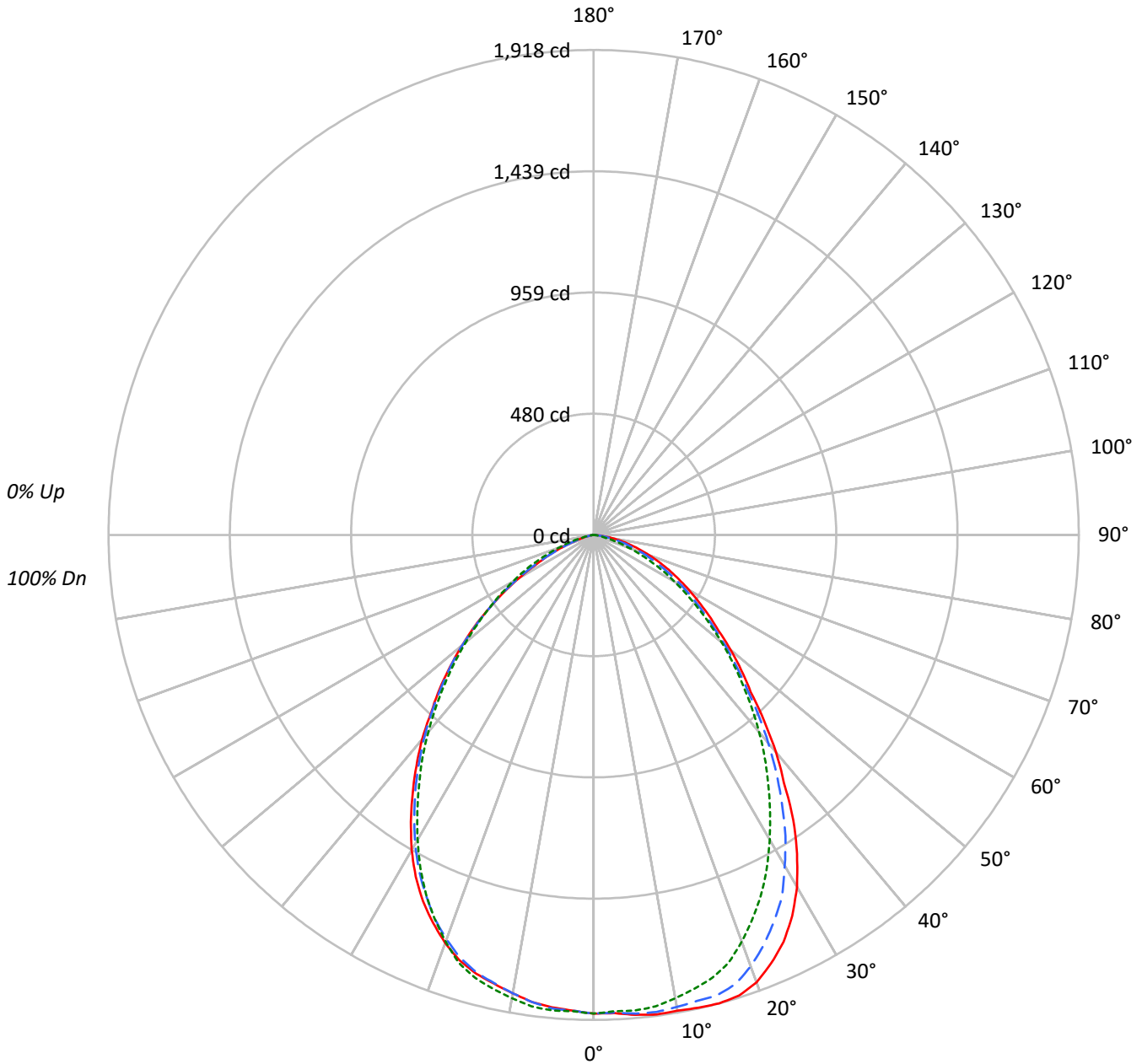
Lumens per Lamp: N/A
Luminaire Lumens: 3709.3 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | 59 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 103775 | 103775 | 103775 |
| 5° | 104853 | 103896 | 103213 |
| 10° | 106344 | 103583 | 102475 |
| 15° | 108843 | 102929 | 101942 |
| 20° | 109857 | 99870 | 100161 |
| 25° | 107450 | 94844 | 96641 |
| 30° | 101769 | 88108 | 91084 |
| 35° | 92146 | 80529 | 83520 |
| 40° | 80250 | 72794 | 75456 |
| 45° | 68092 | 64433 | 66743 |
| 50° | 60305 | 56280 | 57764 |
| 55° | 53112 | 48142 | 47893 |
| 60° | 47595 | 40534 | 37267 |
| 65° | 42482 | 32507 | 26721 |
| 70° | 37378 | 23449 | 16702 |
| 75° | 31538 | 14191 | 9468 |
| 80° | 24277 | 6251 | 3915 |
| 85° | 14026 | 1572 | 1572 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.7 | 4.8 |
| 10°-20° | 516.4 | 13.9 |
| 20°-30° | 746.5 | 20.1 |
| 30°-40° | 785.5 | 21.2 |
| 40°-50° | 660.3 | 17.8 |
| 50°-60° | 463.5 | 12.5 |
| 60°-70° | 254.9 | 6.9 |
| 70°-80° | 90.5 | 2.4 |
| 80°-90° | 11.9 | 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° | 1442.6 | 38.9 |
| 0°-40° | 2228.2 | 60.1 |
| 0°-60° | 3352.0 | 90.4 |
| 0°-90° | 3709.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3709.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1893 | 1893 | 1893 | 1893 | 1893 | |
| 5° | 1905 | 1900 | 1888 | 1881 | 1876 | 182 |
| 15° | 1918 | 1886 | 1814 | 1791 | 1796 | 541 |
| 25° | 1776 | 1687 | 1568 | 1570 | 1598 | 813 |
| 35° | 1377 | 1298 | 1203 | 1228 | 1248 | 853 |
| 45° | 878 | 853 | 831 | 851 | 861 | 689 |
| 55° | 556 | 526 | 504 | 504 | 501 | 500 |
| 65° | 328 | 293 | 251 | 206 | 206 | 326 |
| 75° | 149 | 119 | 67 | 45 | 45 | 160 |
| 85° | 22 | 12 | 2 | 2 | 2 | 31 |
| 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° | 1893.0 | 1893.0 | 1893.0 | 1893.0 | 1893.0 | 1893.0 | 1893.0 | 1893.0 | 1893.0 |
| 2.5° | 1893.0 | 1893.0 | 1890.5 | 1890.5 | 1885.5 | 1885.5 | 1883.1 | 1883.1 | 1883.1 |
| 5° | 1905.4 | 1905.4 | 1900.5 | 1893.0 | 1888.0 | 1880.6 | 1880.6 | 1878.1 | 1875.6 |
| 7.5° | 1912.8 | 1910.4 | 1902.9 | 1893.0 | 1880.6 | 1868.1 | 1863.2 | 1865.7 | 1863.2 |
| 10° | 1910.4 | 1905.4 | 1895.4 | 1875.6 | 1860.8 | 1843.4 | 1840.9 | 1838.4 | 1840.9 |
| 12.5° | 1915.3 | 1907.9 | 1888.0 | 1863.2 | 1838.4 | 1818.5 | 1816.1 | 1816.1 | 1818.5 |
| 15° | 1917.8 | 1910.4 | 1885.5 | 1848.3 | 1813.6 | 1793.8 | 1791.2 | 1793.8 | 1796.2 |
| 17.5° | 1910.4 | 1900.5 | 1863.2 | 1813.6 | 1774.0 | 1754.0 | 1754.0 | 1759.0 | 1763.9 |
| 20° | 1883.1 | 1868.1 | 1816.1 | 1756.6 | 1711.9 | 1696.9 | 1702.0 | 1711.9 | 1716.9 |
| 22.5° | 1833.5 | 1816.1 | 1756.6 | 1689.6 | 1642.4 | 1629.9 | 1642.4 | 1654.8 | 1659.8 |
| 25° | 1776.4 | 1756.6 | 1687.0 | 1617.6 | 1568.0 | 1553.0 | 1570.4 | 1590.3 | 1597.7 |
| 27.5° | 1699.5 | 1677.1 | 1612.7 | 1533.2 | 1483.6 | 1476.1 | 1496.0 | 1518.4 | 1523.3 |
| 30° | 1607.7 | 1582.9 | 1510.9 | 1436.5 | 1391.9 | 1389.3 | 1411.7 | 1431.6 | 1438.9 |
| 32.5° | 1496.0 | 1473.7 | 1411.7 | 1337.3 | 1297.6 | 1297.6 | 1319.9 | 1337.3 | 1344.7 |
| 35° | 1376.9 | 1352.1 | 1297.6 | 1235.5 | 1203.3 | 1205.7 | 1228.0 | 1240.5 | 1248.0 |
| 37.5° | 1235.5 | 1228.0 | 1185.9 | 1133.9 | 1111.5 | 1116.5 | 1133.9 | 1143.8 | 1151.1 |
| 40° | 1121.4 | 1101.5 | 1074.2 | 1032.1 | 1017.2 | 1022.2 | 1039.6 | 1049.5 | 1054.4 |
| 42.5° | 997.3 | 984.9 | 962.7 | 932.9 | 923.0 | 930.3 | 945.3 | 952.7 | 950.2 |
| 45° | 878.3 | 875.8 | 853.4 | 836.0 | 831.1 | 841.1 | 851.0 | 858.4 | 860.9 |
| 47.5° | 791.5 | 781.5 | 761.7 | 749.2 | 744.3 | 754.2 | 764.2 | 769.1 | 769.1 |
| 50° | 707.1 | 697.2 | 677.3 | 665.0 | 659.9 | 669.9 | 677.3 | 682.2 | 677.3 |
| 52.5° | 622.7 | 612.8 | 595.4 | 580.6 | 578.0 | 583.0 | 585.5 | 587.9 | 593.0 |
| 55° | 555.7 | 545.8 | 526.0 | 508.6 | 503.7 | 506.1 | 503.7 | 503.7 | 501.1 |
| 57.5° | 491.2 | 481.3 | 461.4 | 441.6 | 434.1 | 431.7 | 424.2 | 421.8 | 419.3 |
| 60° | 434.1 | 421.8 | 401.9 | 379.6 | 369.7 | 359.8 | 347.3 | 339.9 | 339.9 |
| 62.5° | 379.6 | 367.1 | 344.8 | 325.0 | 310.1 | 292.8 | 273.0 | 263.0 | 263.0 |
| 65° | 327.5 | 317.5 | 292.8 | 270.4 | 250.6 | 228.3 | 206.0 | 201.0 | 206.0 |
| 67.5° | 277.9 | 267.9 | 243.1 | 220.8 | 195.9 | 168.7 | 148.9 | 148.9 | 153.8 |
| 70° | 233.2 | 223.2 | 201.0 | 173.6 | 146.3 | 119.0 | 104.2 | 104.2 | 104.2 |
| 72.5° | 191.0 | 181.1 | 156.3 | 131.5 | 104.2 | 76.9 | 69.4 | 72.0 | 69.4 |
| 75° | 148.9 | 141.4 | 119.0 | 91.8 | 67.0 | 47.1 | 44.7 | 42.1 | 44.7 |
| 77.5° | 111.7 | 104.2 | 84.4 | 59.5 | 37.2 | 27.3 | 24.9 | 24.9 | 24.9 |
| 80° | 76.9 | 69.4 | 54.6 | 34.8 | 19.8 | 12.4 | 12.4 | 12.4 | 12.4 |
| 82.5° | 47.1 | 39.7 | 29.8 | 17.4 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 85° | 22.3 | 17.4 | 12.4 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 5.0 | 5.0 | 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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Scaled Data Report



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

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