

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: P593267

Luminaire Tested: **HCC6S35D010MW-HM63040950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S35D010MW-HM63040950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

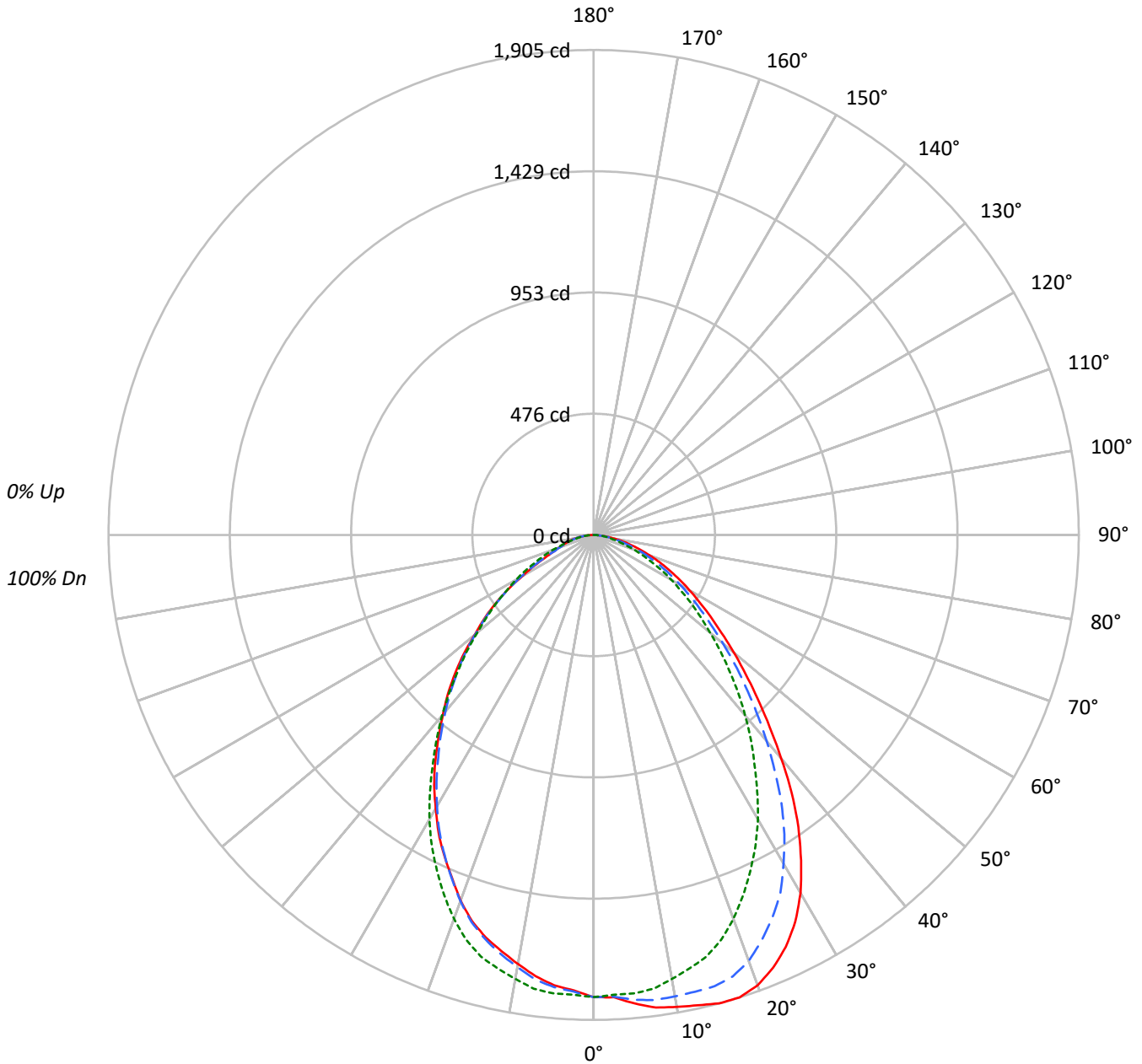
Lumens per Lamp: N/A
Luminaire Lumens: 3555.5 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | 100 | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | 87 | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | 76 | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | 66 | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | 58 | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | 52 | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | 46 | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | 42 | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | 38 | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | 34 | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | 31 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 99526 | 99526 | 99526 |
| 5° | 101678 | 99493 | 97722 |
| 10° | 104791 | 98579 | 95267 |
| 15° | 108105 | 97271 | 92906 |
| 20° | 109822 | 93616 | 89129 |
| 25° | 108012 | 88058 | 84017 |
| 30° | 102839 | 81645 | 78499 |
| 35° | 93779 | 73696 | 72538 |
| 40° | 82004 | 66203 | 65852 |
| 45° | 70573 | 58262 | 59603 |
| 50° | 61337 | 50770 | 51828 |
| 55° | 53570 | 44567 | 45035 |
| 60° | 47584 | 38615 | 35348 |
| 65° | 42456 | 32507 | 27020 |
| 70° | 37378 | 26639 | 22648 |
| 75° | 32026 | 21011 | 21520 |
| 80° | 25824 | 18026 | 21152 |
| 85° | 17171 | 15662 | 18744 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 171.9 | 4.8 |
| 10°-20° | 489.4 | 13.8 |
| 20°-30° | 698.6 | 19.6 |
| 30°-40° | 731.7 | 20.6 |
| 40°-50° | 616.1 | 17.3 |
| 50°-60° | 438.5 | 12.3 |
| 60°-70° | 256.7 | 7.2 |
| 70°-80° | 121.4 | 3.4 |
| 80°-90° | 31.2 | 0.9 |
| 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° | 1359.8 | 38.2 |
| 0°-40° | 2091.5 | 58.8 |
| 0°-60° | 3146.1 | 88.5 |
| 0°-90° | 3555.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3555.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1816 | 1816 | 1816 | 1816 | 1816 | |
| 5° | 1848 | 1833 | 1808 | 1783 | 1776 | 178 |
| 15° | 1905 | 1835 | 1714 | 1644 | 1637 | 538 |
| 25° | 1786 | 1659 | 1456 | 1386 | 1389 | 817 |
| 35° | 1401 | 1285 | 1101 | 1064 | 1084 | 870 |
| 45° | 910 | 843 | 752 | 754 | 769 | 707 |
| 55° | 560 | 513 | 466 | 466 | 471 | 505 |
| 65° | 327 | 290 | 251 | 211 | 208 | 326 |
| 75° | 151 | 126 | 99 | 97 | 102 | 162 |
| 85° | 27 | 22 | 25 | 30 | 30 | 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° | 1815.5 | 1815.5 | 1815.5 | 1815.5 | 1815.5 | 1815.5 | 1815.5 | 1815.5 | 1815.5 |
| 2.5° | 1818.0 | 1818.0 | 1815.5 | 1813.1 | 1808.0 | 1800.7 | 1795.7 | 1790.8 | 1790.8 |
| 5° | 1847.7 | 1842.8 | 1832.9 | 1820.5 | 1808.0 | 1793.2 | 1783.3 | 1775.8 | 1775.8 |
| 7.5° | 1872.6 | 1862.6 | 1842.8 | 1820.5 | 1798.1 | 1778.3 | 1761.0 | 1751.1 | 1748.5 |
| 10° | 1882.5 | 1870.1 | 1840.4 | 1805.6 | 1770.9 | 1743.6 | 1723.8 | 1711.4 | 1711.4 |
| 12.5° | 1892.4 | 1877.5 | 1837.8 | 1788.2 | 1743.6 | 1706.4 | 1686.5 | 1676.6 | 1674.2 |
| 15° | 1904.8 | 1884.9 | 1835.3 | 1773.4 | 1713.9 | 1671.6 | 1644.4 | 1637.0 | 1637.0 |
| 17.5° | 1904.8 | 1880.0 | 1818.0 | 1741.2 | 1666.7 | 1619.6 | 1594.8 | 1587.4 | 1589.8 |
| 20° | 1882.5 | 1855.2 | 1780.8 | 1686.5 | 1604.7 | 1555.1 | 1530.3 | 1525.4 | 1527.8 |
| 22.5° | 1840.4 | 1808.0 | 1723.8 | 1622.0 | 1532.7 | 1480.7 | 1458.4 | 1458.4 | 1455.8 |
| 25° | 1785.7 | 1751.1 | 1659.2 | 1552.6 | 1455.8 | 1403.8 | 1386.4 | 1389.0 | 1389.0 |
| 27.5° | 1713.9 | 1679.1 | 1587.4 | 1473.2 | 1376.5 | 1324.4 | 1312.1 | 1317.0 | 1319.5 |
| 30° | 1624.6 | 1587.4 | 1490.6 | 1379.0 | 1289.8 | 1237.6 | 1230.1 | 1237.6 | 1240.1 |
| 32.5° | 1515.5 | 1488.2 | 1393.9 | 1279.8 | 1195.5 | 1150.8 | 1148.3 | 1155.8 | 1165.7 |
| 35° | 1401.3 | 1371.6 | 1284.8 | 1180.5 | 1101.2 | 1064.1 | 1064.1 | 1076.4 | 1083.9 |
| 37.5° | 1277.3 | 1247.5 | 1168.2 | 1081.3 | 1014.4 | 979.7 | 984.6 | 997.1 | 999.5 |
| 40° | 1145.9 | 1123.6 | 1056.6 | 982.1 | 925.1 | 897.9 | 905.2 | 917.7 | 920.2 |
| 42.5° | 1021.8 | 1002.0 | 947.5 | 880.5 | 838.3 | 818.4 | 828.3 | 843.3 | 848.3 |
| 45° | 910.3 | 888.0 | 843.3 | 786.2 | 751.5 | 741.6 | 754.0 | 763.9 | 768.8 |
| 47.5° | 808.5 | 788.7 | 751.5 | 699.4 | 674.6 | 669.6 | 682.1 | 687.0 | 692.0 |
| 50° | 719.2 | 699.4 | 662.3 | 615.1 | 595.3 | 595.3 | 605.2 | 610.1 | 607.7 |
| 52.5° | 632.5 | 615.1 | 580.3 | 540.7 | 528.3 | 528.3 | 535.8 | 538.2 | 543.1 |
| 55° | 560.5 | 543.1 | 513.4 | 476.3 | 466.3 | 461.3 | 466.3 | 466.3 | 471.2 |
| 57.5° | 493.5 | 478.7 | 451.4 | 416.6 | 404.2 | 399.3 | 396.8 | 394.3 | 399.3 |
| 60° | 434.0 | 421.6 | 391.9 | 362.1 | 352.2 | 339.8 | 329.9 | 320.0 | 322.4 |
| 62.5° | 379.5 | 367.0 | 339.8 | 310.1 | 300.2 | 282.8 | 270.4 | 257.9 | 262.9 |
| 65° | 327.3 | 315.0 | 290.2 | 265.4 | 250.6 | 230.7 | 210.9 | 203.4 | 208.3 |
| 67.5° | 280.3 | 270.4 | 245.5 | 220.8 | 208.3 | 186.0 | 166.2 | 166.2 | 168.6 |
| 70° | 233.2 | 223.2 | 203.4 | 181.0 | 166.2 | 146.3 | 138.9 | 141.3 | 141.3 |
| 72.5° | 190.9 | 183.6 | 163.7 | 143.9 | 129.0 | 116.6 | 116.6 | 119.0 | 121.5 |
| 75° | 151.2 | 146.3 | 126.5 | 109.1 | 99.2 | 91.7 | 96.7 | 99.2 | 101.6 |
| 77.5° | 116.6 | 109.1 | 94.3 | 81.8 | 74.5 | 76.9 | 81.8 | 84.4 | 86.8 |
| 80° | 81.8 | 79.4 | 67.0 | 59.5 | 57.1 | 59.5 | 64.5 | 67.0 | 67.0 |
| 82.5° | 52.0 | 49.6 | 42.1 | 39.7 | 39.7 | 42.1 | 47.1 | 47.1 | 47.1 |
| 85° | 27.3 | 24.9 | 22.3 | 22.3 | 24.9 | 27.3 | 29.8 | 29.8 | 29.8 |
| 87.5° | 9.9 | 7.5 | 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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Scaled Data Report



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

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