

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: P582287

Luminaire Tested: **HCC6W35D010MW-HM63040827-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582287
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: HCC6W35D010MW-HM63040827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

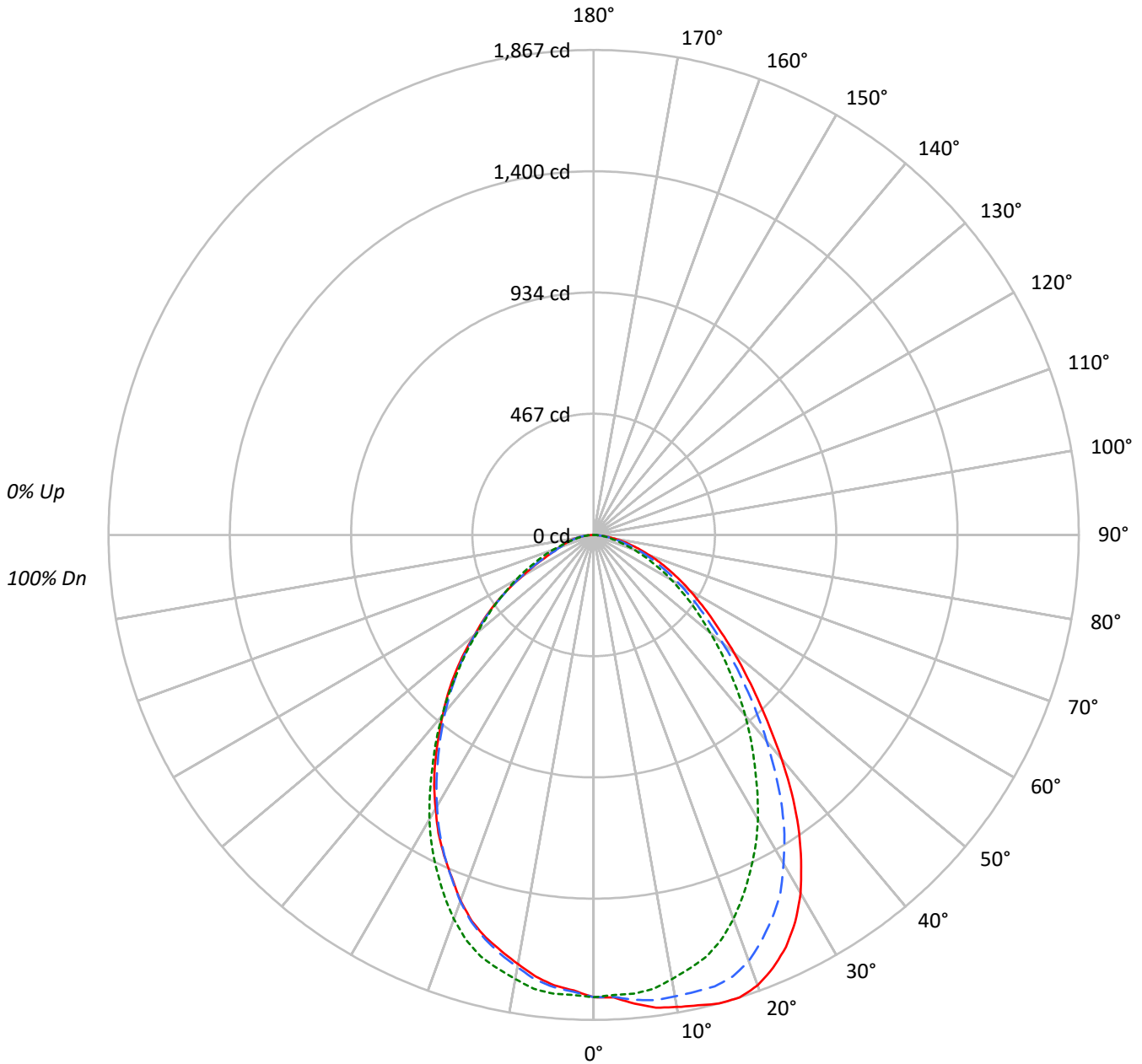
Lumens per Lamp: N/A
Luminaire Lumens: 3485.5 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 97569 | 97569 | 97569 |
| 5° | 99681 | 97545 | 95801 |
| 10° | 102731 | 96636 | 93391 |
| 15° | 105977 | 95352 | 91073 |
| 20° | 107664 | 91772 | 87373 |
| 25° | 105889 | 86328 | 82366 |
| 30° | 100813 | 80031 | 76961 |
| 35° | 91939 | 72250 | 71112 |
| 40° | 80393 | 64900 | 64557 |
| 45° | 69178 | 57114 | 58440 |
| 50° | 60134 | 49764 | 50813 |
| 55° | 52519 | 43688 | 44156 |
| 60° | 46652 | 37859 | 34657 |
| 65° | 41626 | 31845 | 26488 |
| 70° | 36625 | 26110 | 22215 |
| 75° | 31411 | 20588 | 21117 |
| 80° | 25350 | 17647 | 20741 |
| 85° | 16794 | 15284 | 18367 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.5 | 4.8 |
| 10°-20° | 479.7 | 13.8 |
| 20°-30° | 684.8 | 19.6 |
| 30°-40° | 717.3 | 20.6 |
| 40°-50° | 604.0 | 17.3 |
| 50°-60° | 429.9 | 12.3 |
| 60°-70° | 251.6 | 7.2 |
| 70°-80° | 119.1 | 3.4 |
| 80°-90° | 30.6 | 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° | 1333.1 | 38.2 |
| 0°-40° | 2050.4 | 58.8 |
| 0°-60° | 3084.2 | 88.5 |
| 0°-90° | 3485.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3485.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1780 | 1780 | 1780 | 1780 | 1780 | |
| 5° | 1811 | 1797 | 1773 | 1748 | 1741 | 174 |
| 15° | 1867 | 1799 | 1680 | 1612 | 1605 | 527 |
| 25° | 1751 | 1627 | 1427 | 1359 | 1362 | 801 |
| 35° | 1374 | 1260 | 1080 | 1043 | 1063 | 853 |
| 45° | 892 | 827 | 737 | 739 | 754 | 693 |
| 55° | 550 | 503 | 457 | 457 | 462 | 495 |
| 65° | 321 | 284 | 246 | 207 | 204 | 320 |
| 75° | 148 | 124 | 97 | 95 | 100 | 159 |
| 85° | 27 | 22 | 24 | 29 | 29 | 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° | 1779.8 | 1779.8 | 1779.8 | 1779.8 | 1779.8 | 1779.8 | 1779.8 | 1779.8 | 1779.8 |
| 2.5° | 1782.2 | 1782.2 | 1779.8 | 1777.3 | 1772.6 | 1765.2 | 1760.4 | 1755.5 | 1755.5 |
| 5° | 1811.4 | 1806.5 | 1796.8 | 1784.7 | 1772.6 | 1758.0 | 1748.2 | 1740.9 | 1740.9 |
| 7.5° | 1835.7 | 1826.0 | 1806.5 | 1784.7 | 1762.8 | 1743.4 | 1726.3 | 1716.7 | 1714.2 |
| 10° | 1845.5 | 1833.4 | 1804.2 | 1770.1 | 1736.0 | 1709.3 | 1689.8 | 1677.7 | 1677.7 |
| 12.5° | 1855.2 | 1840.6 | 1801.7 | 1753.1 | 1709.3 | 1672.8 | 1653.4 | 1643.6 | 1641.3 |
| 15° | 1867.3 | 1847.9 | 1799.3 | 1738.5 | 1680.1 | 1638.8 | 1612.1 | 1604.7 | 1604.7 |
| 17.5° | 1867.3 | 1843.0 | 1782.2 | 1706.9 | 1633.9 | 1587.7 | 1563.4 | 1556.1 | 1558.5 |
| 20° | 1845.5 | 1818.8 | 1745.8 | 1653.4 | 1573.1 | 1524.6 | 1500.2 | 1495.4 | 1497.7 |
| 22.5° | 1804.2 | 1772.6 | 1689.8 | 1590.2 | 1502.6 | 1451.6 | 1429.7 | 1429.7 | 1427.2 |
| 25° | 1750.6 | 1716.7 | 1626.7 | 1522.1 | 1427.2 | 1376.2 | 1359.2 | 1361.7 | 1361.7 |
| 27.5° | 1680.1 | 1646.1 | 1556.1 | 1444.3 | 1349.4 | 1298.4 | 1286.3 | 1291.1 | 1293.5 |
| 30° | 1592.6 | 1556.1 | 1461.3 | 1351.9 | 1264.3 | 1213.3 | 1206.0 | 1213.3 | 1215.8 |
| 32.5° | 1485.6 | 1458.9 | 1366.4 | 1254.6 | 1171.9 | 1128.1 | 1125.8 | 1133.0 | 1142.7 |
| 35° | 1373.8 | 1344.6 | 1259.5 | 1157.3 | 1079.6 | 1043.1 | 1043.1 | 1055.2 | 1062.6 |
| 37.5° | 1252.2 | 1223.0 | 1145.2 | 1060.1 | 994.5 | 960.4 | 965.2 | 977.5 | 979.9 |
| 40° | 1123.4 | 1101.4 | 1035.8 | 962.9 | 906.9 | 880.2 | 887.5 | 899.6 | 902.1 |
| 42.5° | 1001.8 | 982.3 | 928.8 | 863.1 | 821.8 | 802.4 | 812.1 | 826.7 | 831.6 |
| 45° | 892.3 | 870.5 | 826.7 | 770.8 | 736.7 | 727.0 | 739.2 | 748.9 | 753.8 |
| 47.5° | 792.6 | 773.3 | 736.7 | 685.6 | 661.3 | 656.4 | 668.7 | 673.5 | 678.4 |
| 50° | 705.1 | 685.6 | 649.2 | 603.0 | 583.5 | 583.5 | 593.3 | 598.1 | 595.8 |
| 52.5° | 620.0 | 603.0 | 568.9 | 530.1 | 517.9 | 517.9 | 525.2 | 527.6 | 532.5 |
| 55° | 549.5 | 532.5 | 503.3 | 466.8 | 457.1 | 452.2 | 457.1 | 457.1 | 462.0 |
| 57.5° | 483.8 | 469.3 | 442.5 | 408.4 | 396.3 | 391.4 | 389.1 | 386.6 | 391.4 |
| 60° | 425.5 | 413.4 | 384.2 | 355.0 | 345.3 | 333.1 | 323.4 | 313.7 | 316.1 |
| 62.5° | 372.0 | 359.9 | 333.1 | 303.9 | 294.2 | 277.2 | 265.0 | 252.9 | 257.8 |
| 65° | 320.9 | 308.8 | 284.5 | 260.1 | 245.5 | 226.2 | 206.7 | 199.3 | 204.2 |
| 67.5° | 274.7 | 265.0 | 240.8 | 216.4 | 204.2 | 182.4 | 162.9 | 162.9 | 165.4 |
| 70° | 228.5 | 218.8 | 199.3 | 177.5 | 162.9 | 143.4 | 136.2 | 138.6 | 138.6 |
| 72.5° | 187.2 | 180.0 | 160.5 | 141.0 | 126.4 | 114.2 | 114.2 | 116.7 | 119.2 |
| 75° | 148.3 | 143.4 | 124.1 | 107.0 | 97.2 | 90.0 | 94.9 | 97.2 | 99.7 |
| 77.5° | 114.2 | 107.0 | 92.4 | 80.3 | 72.9 | 75.4 | 80.3 | 82.6 | 85.1 |
| 80° | 80.3 | 77.8 | 65.7 | 58.4 | 55.9 | 58.4 | 63.3 | 65.7 | 65.7 |
| 82.5° | 51.1 | 48.7 | 41.3 | 38.9 | 38.9 | 41.3 | 46.2 | 46.2 | 46.2 |
| 85° | 26.7 | 24.3 | 21.9 | 21.9 | 24.3 | 26.7 | 29.2 | 29.2 | 29.2 |
| 87.5° | 9.7 | 7.4 | 9.7 | 9.7 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| 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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