

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: P582161

Luminaire Tested: **HCC6W30D010MW-HM63040830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582161
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: HCC6W30D010MW-HM63040830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

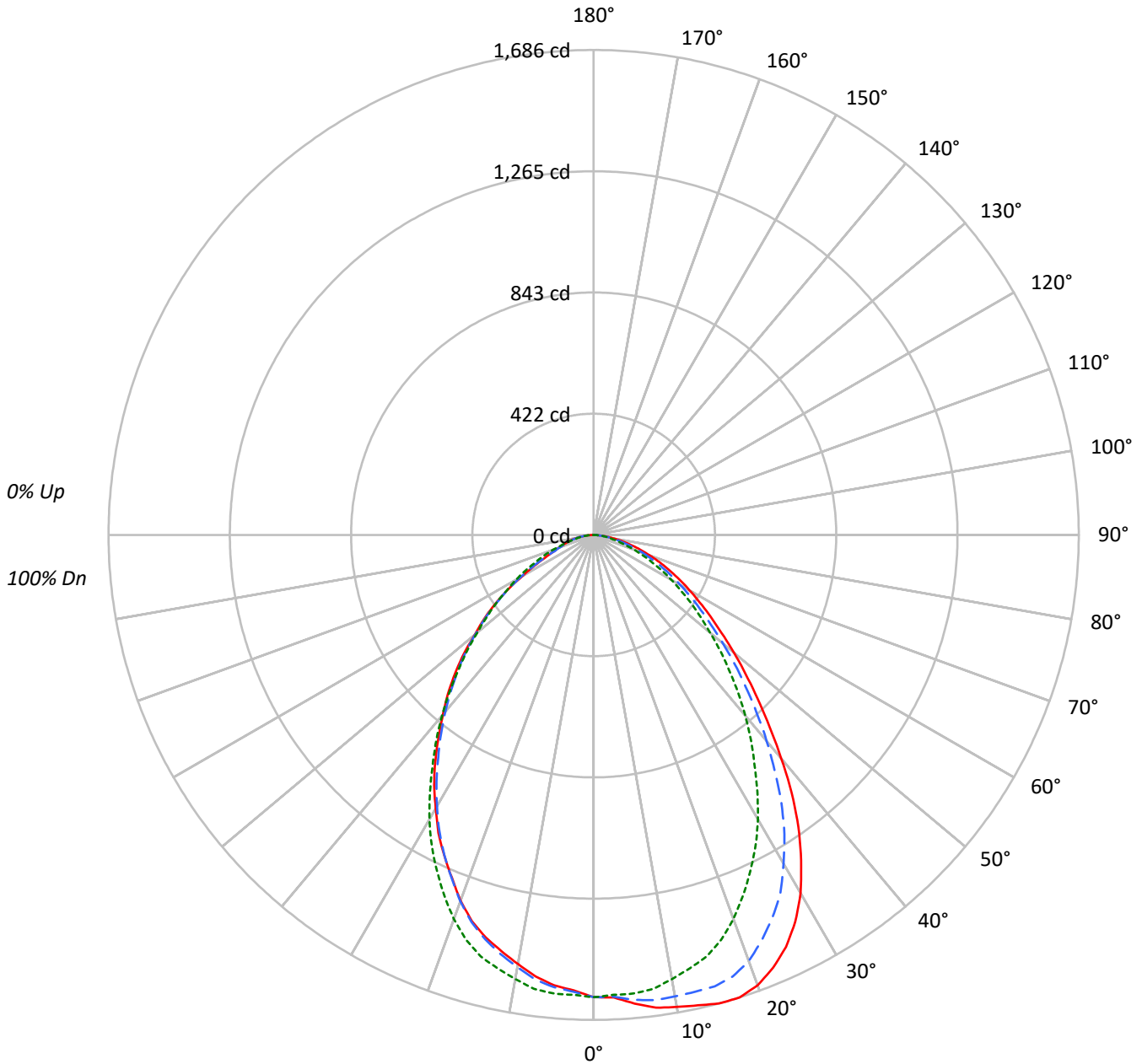
Lumens per Lamp: N/A
Luminaire Lumens: 3147.2 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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 | | | | | | | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 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 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 88101 | 88101 | 88101 |
| 5° | 90006 | 88075 | 86506 |
| 10° | 92762 | 87262 | 84328 |
| 15° | 95693 | 86096 | 82237 |
| 20° | 97215 | 82870 | 78897 |
| 25° | 95618 | 77956 | 74363 |
| 30° | 91027 | 72271 | 69485 |
| 35° | 83018 | 65230 | 64206 |
| 40° | 72586 | 58603 | 58288 |
| 45° | 62472 | 51571 | 52765 |
| 50° | 54301 | 44945 | 45875 |
| 55° | 47425 | 39444 | 39865 |
| 60° | 42124 | 34186 | 31291 |
| 65° | 37592 | 28758 | 23920 |
| 70° | 33083 | 23578 | 20051 |
| 75° | 28361 | 18618 | 19063 |
| 80° | 22856 | 15943 | 18721 |
| 85° | 15159 | 13838 | 16605 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.2 | 4.8 |
| 10°-20° | 433.2 | 13.8 |
| 20°-30° | 618.4 | 19.6 |
| 30°-40° | 647.7 | 20.6 |
| 40°-50° | 545.3 | 17.3 |
| 50°-60° | 388.1 | 12.3 |
| 60°-70° | 227.2 | 7.2 |
| 70°-80° | 107.5 | 3.4 |
| 80°-90° | 27.6 | 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° | 1203.7 | 38.2 |
| 0°-40° | 1851.4 | 58.8 |
| 0°-60° | 2784.9 | 88.5 |
| 0°-90° | 3147.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3147.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1607 | 1607 | 1607 | 1607 | 1607 | |
| 5° | 1636 | 1622 | 1600 | 1578 | 1572 | 157 |
| 15° | 1686 | 1625 | 1517 | 1456 | 1449 | 476 |
| 25° | 1581 | 1469 | 1289 | 1227 | 1229 | 724 |
| 35° | 1240 | 1137 | 975 | 942 | 959 | 770 |
| 45° | 806 | 746 | 665 | 667 | 681 | 626 |
| 55° | 496 | 454 | 413 | 413 | 417 | 447 |
| 65° | 290 | 257 | 222 | 187 | 184 | 289 |
| 75° | 134 | 112 | 88 | 86 | 90 | 144 |
| 85° | 24 | 20 | 22 | 26 | 26 | 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° | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 | 1607.1 |
| 2.5° | 1609.3 | 1609.3 | 1607.1 | 1604.9 | 1600.5 | 1593.9 | 1589.5 | 1585.1 | 1585.1 |
| 5° | 1635.6 | 1631.2 | 1622.4 | 1611.5 | 1600.5 | 1587.3 | 1578.5 | 1572.0 | 1572.0 |
| 7.5° | 1657.6 | 1648.8 | 1631.2 | 1611.5 | 1591.7 | 1574.1 | 1558.8 | 1550.0 | 1547.8 |
| 10° | 1666.4 | 1655.3 | 1629.0 | 1598.3 | 1567.6 | 1543.4 | 1525.8 | 1514.9 | 1514.9 |
| 12.5° | 1675.2 | 1662.0 | 1626.8 | 1582.9 | 1543.4 | 1510.5 | 1492.9 | 1484.1 | 1482.0 |
| 15° | 1686.1 | 1668.5 | 1624.6 | 1569.7 | 1517.0 | 1479.7 | 1455.6 | 1449.0 | 1449.0 |
| 17.5° | 1686.1 | 1664.1 | 1609.3 | 1541.2 | 1475.3 | 1433.6 | 1411.7 | 1405.0 | 1407.3 |
| 20° | 1666.4 | 1642.2 | 1576.4 | 1492.9 | 1420.5 | 1376.5 | 1354.6 | 1350.2 | 1352.4 |
| 22.5° | 1629.0 | 1600.5 | 1525.8 | 1435.8 | 1356.8 | 1310.6 | 1290.9 | 1290.9 | 1288.8 |
| 25° | 1580.8 | 1550.0 | 1468.8 | 1374.4 | 1288.8 | 1242.6 | 1227.3 | 1229.4 | 1229.4 |
| 27.5° | 1517.0 | 1486.4 | 1405.0 | 1304.1 | 1218.5 | 1172.4 | 1161.4 | 1165.8 | 1168.0 |
| 30° | 1438.0 | 1405.0 | 1319.4 | 1220.6 | 1141.7 | 1095.5 | 1088.9 | 1095.5 | 1097.7 |
| 32.5° | 1341.4 | 1317.3 | 1233.8 | 1132.9 | 1058.2 | 1018.7 | 1016.5 | 1023.1 | 1031.8 |
| 35° | 1240.5 | 1214.1 | 1137.3 | 1045.0 | 974.7 | 941.8 | 941.8 | 952.9 | 959.4 |
| 37.5° | 1130.6 | 1104.3 | 1034.1 | 957.3 | 897.9 | 867.3 | 871.5 | 882.6 | 884.7 |
| 40° | 1014.3 | 994.5 | 935.3 | 869.4 | 818.9 | 794.7 | 801.4 | 812.3 | 814.5 |
| 42.5° | 904.5 | 887.0 | 838.7 | 779.4 | 742.1 | 724.5 | 733.3 | 746.5 | 750.9 |
| 45° | 805.8 | 785.9 | 746.5 | 695.9 | 665.2 | 656.4 | 667.4 | 676.2 | 680.6 |
| 47.5° | 715.7 | 698.2 | 665.2 | 619.1 | 597.1 | 592.7 | 603.8 | 608.2 | 612.6 |
| 50° | 636.7 | 619.1 | 586.2 | 544.4 | 527.0 | 527.0 | 535.6 | 540.0 | 537.9 |
| 52.5° | 559.8 | 544.4 | 513.8 | 478.6 | 467.6 | 467.6 | 474.2 | 476.4 | 480.8 |
| 55° | 496.2 | 480.8 | 454.4 | 421.5 | 412.7 | 408.3 | 412.7 | 412.7 | 417.1 |
| 57.5° | 436.8 | 423.8 | 399.6 | 368.8 | 357.9 | 353.5 | 351.2 | 349.1 | 353.5 |
| 60° | 384.2 | 373.2 | 346.8 | 320.6 | 311.8 | 300.8 | 292.0 | 283.2 | 285.4 |
| 62.5° | 335.9 | 325.0 | 300.8 | 274.4 | 265.6 | 250.3 | 239.3 | 228.3 | 232.7 |
| 65° | 289.8 | 278.8 | 256.8 | 234.9 | 221.7 | 204.2 | 186.6 | 180.0 | 184.4 |
| 67.5° | 248.1 | 239.3 | 217.3 | 195.4 | 184.4 | 164.7 | 147.1 | 147.1 | 149.3 |
| 70° | 206.4 | 197.6 | 180.0 | 160.3 | 147.1 | 129.5 | 122.9 | 125.1 | 125.1 |
| 72.5° | 169.1 | 162.4 | 144.9 | 127.3 | 114.1 | 103.2 | 103.2 | 105.3 | 107.6 |
| 75° | 133.9 | 129.5 | 112.0 | 96.5 | 87.9 | 81.2 | 85.6 | 87.9 | 90.0 |
| 77.5° | 103.2 | 96.5 | 83.5 | 72.4 | 65.9 | 68.0 | 72.4 | 74.7 | 76.8 |
| 80° | 72.4 | 70.3 | 59.3 | 52.7 | 50.5 | 52.7 | 57.1 | 59.3 | 59.3 |
| 82.5° | 46.1 | 43.9 | 37.3 | 35.1 | 35.1 | 37.3 | 41.7 | 41.7 | 41.7 |
| 85° | 24.1 | 22.0 | 19.7 | 19.7 | 22.0 | 24.1 | 26.4 | 26.4 | 26.4 |
| 87.5° | 8.8 | 6.5 | 8.8 | 8.8 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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