

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: P582466

Luminaire Tested: **HCC6W40D010MB-HM63040835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582466
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: HCC6W40D010MB-HM63040835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

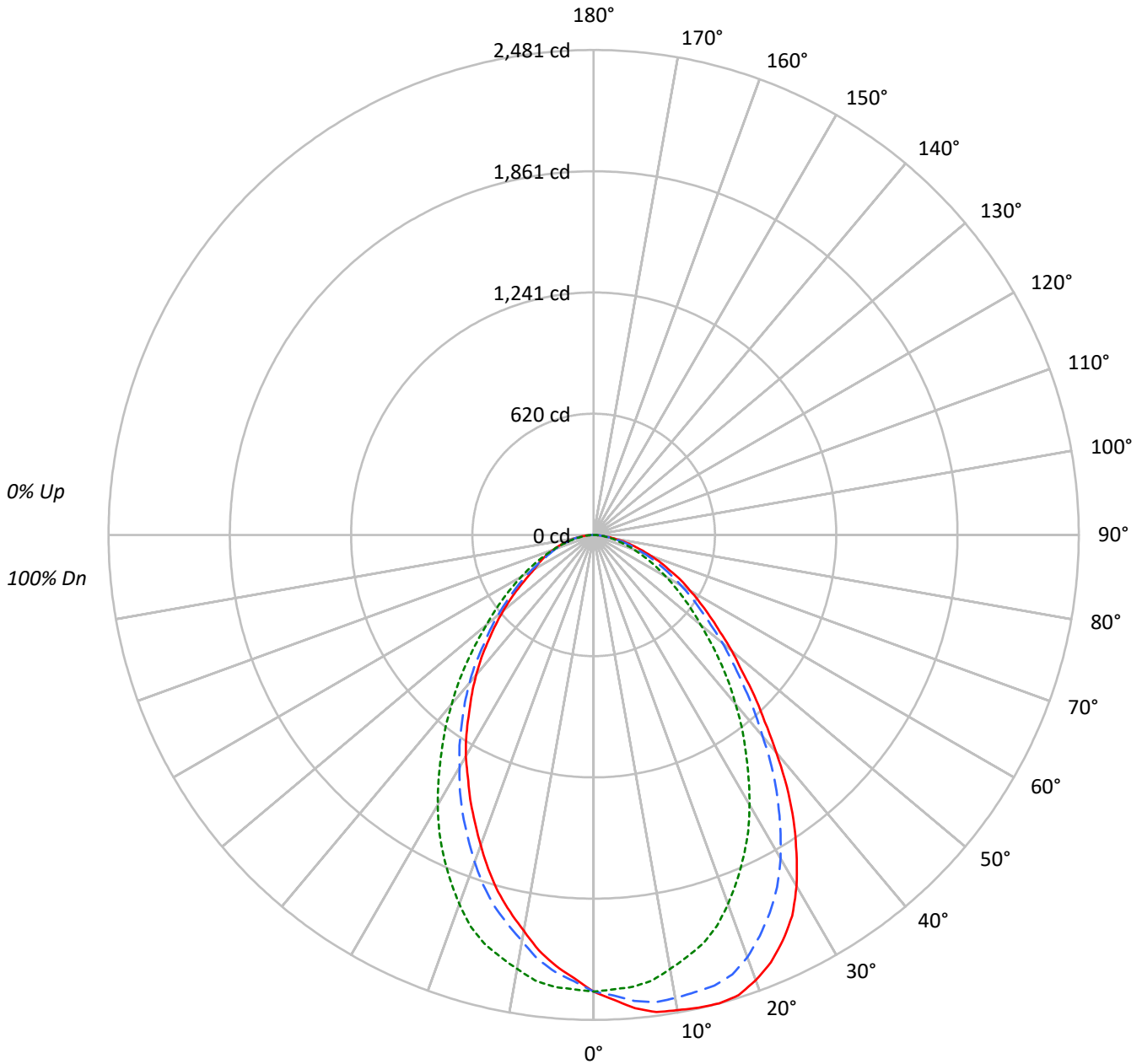
Lumens per Lamp: N/A
Luminaire Lumens: 4351.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | 76 | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | 51 | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 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 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 128071 | 128071 | 128071 |
| 5° | 133760 | 127696 | 121819 |
| 10° | 137406 | 125504 | 114477 |
| 15° | 140801 | 122776 | 107248 |
| 20° | 141430 | 117214 | 98510 |
| 25° | 138462 | 109742 | 90344 |
| 30° | 131368 | 100908 | 82804 |
| 35° | 119317 | 90701 | 74278 |
| 40° | 103959 | 80780 | 66832 |
| 45° | 89955 | 70690 | 58750 |
| 50° | 78573 | 60868 | 51487 |
| 55° | 69426 | 53494 | 44175 |
| 60° | 62396 | 46882 | 38264 |
| 65° | 55881 | 40783 | 37112 |
| 70° | 49896 | 34782 | 34782 |
| 75° | 43294 | 29314 | 32640 |
| 80° | 34727 | 24814 | 29770 |
| 85° | 23713 | 21763 | 25726 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.6 | 5.0 |
| 10°-20° | 610.4 | 14.0 |
| 20°-30° | 850.6 | 19.5 |
| 30°-40° | 876.4 | 20.1 |
| 40°-50° | 726.4 | 16.7 |
| 50°-60° | 522.0 | 12.0 |
| 60°-70° | 332.4 | 7.6 |
| 70°-80° | 170.7 | 3.9 |
| 80°-90° | 43.4 | 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° | 1680.5 | 38.6 |
| 0°-40° | 2557.0 | 58.8 |
| 0°-60° | 3805.4 | 87.4 |
| 0°-90° | 4351.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4351.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2336 | 2336 | 2336 | 2336 | 2336 | |
| 5° | 2431 | 2393 | 2320 | 2245 | 2214 | 233 |
| 15° | 2481 | 2387 | 2163 | 1965 | 1890 | 699 |
| 25° | 2289 | 2132 | 1814 | 1582 | 1494 | 1049 |
| 35° | 1783 | 1638 | 1355 | 1176 | 1110 | 1107 |
| 45° | 1160 | 1078 | 912 | 796 | 758 | 898 |
| 55° | 726 | 667 | 560 | 497 | 462 | 654 |
| 65° | 431 | 384 | 314 | 274 | 286 | 431 |
| 75° | 204 | 176 | 138 | 145 | 154 | 218 |
| 85° | 38 | 35 | 35 | 38 | 41 | 48 |
| 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° | 2336.2 | 2336.2 | 2336.2 | 2336.2 | 2336.2 | 2336.2 | 2336.2 | 2336.2 | 2336.2 |
| 2.5° | 2380.3 | 2370.9 | 2358.2 | 2345.7 | 2326.8 | 2304.8 | 2286.0 | 2279.6 | 2270.3 |
| 5° | 2430.7 | 2418.0 | 2392.9 | 2361.4 | 2320.5 | 2279.6 | 2245.1 | 2223.0 | 2213.7 |
| 7.5° | 2462.0 | 2446.3 | 2411.8 | 2358.2 | 2298.5 | 2238.7 | 2188.5 | 2157.1 | 2144.4 |
| 10° | 2468.4 | 2452.5 | 2405.5 | 2333.2 | 2254.6 | 2172.8 | 2109.9 | 2072.1 | 2056.5 |
| 12.5° | 2477.7 | 2455.7 | 2396.0 | 2311.2 | 2210.5 | 2116.2 | 2037.6 | 1990.4 | 1974.7 |
| 15° | 2480.9 | 2455.7 | 2386.6 | 2282.8 | 2163.3 | 2050.1 | 1965.2 | 1908.6 | 1889.7 |
| 17.5° | 2468.4 | 2440.0 | 2358.2 | 2232.5 | 2097.3 | 1977.8 | 1877.2 | 1817.5 | 1792.3 |
| 20° | 2424.3 | 2392.9 | 2298.5 | 2157.1 | 2009.2 | 1883.5 | 1779.7 | 1716.8 | 1688.6 |
| 22.5° | 2367.7 | 2326.8 | 2219.9 | 2069.0 | 1914.9 | 1782.9 | 1679.1 | 1616.2 | 1587.9 |
| 25° | 2289.1 | 2251.4 | 2131.9 | 1971.5 | 1814.3 | 1675.9 | 1581.6 | 1515.5 | 1493.6 |
| 27.5° | 2198.0 | 2153.9 | 2031.3 | 1870.9 | 1710.5 | 1572.2 | 1481.0 | 1421.2 | 1393.0 |
| 30° | 2075.3 | 2034.4 | 1911.8 | 1751.4 | 1594.1 | 1465.3 | 1371.0 | 1320.6 | 1308.1 |
| 32.5° | 1930.6 | 1896.1 | 1776.6 | 1625.7 | 1474.8 | 1355.3 | 1276.7 | 1223.1 | 1210.6 |
| 35° | 1782.9 | 1742.0 | 1638.2 | 1496.7 | 1355.3 | 1248.3 | 1176.0 | 1128.8 | 1109.9 |
| 37.5° | 1622.5 | 1584.8 | 1496.7 | 1371.0 | 1245.1 | 1144.5 | 1081.7 | 1040.8 | 1022.0 |
| 40° | 1452.7 | 1424.4 | 1342.6 | 1242.0 | 1128.8 | 1040.8 | 987.3 | 952.7 | 933.9 |
| 42.5° | 1295.5 | 1267.2 | 1210.6 | 1116.3 | 1022.0 | 943.3 | 896.1 | 864.7 | 849.0 |
| 45° | 1160.3 | 1135.1 | 1078.5 | 996.8 | 911.8 | 845.9 | 795.5 | 773.5 | 757.8 |
| 47.5° | 1025.1 | 1012.5 | 962.2 | 886.8 | 808.2 | 751.6 | 716.9 | 691.8 | 679.2 |
| 50° | 921.3 | 905.6 | 858.4 | 779.8 | 713.7 | 669.8 | 638.3 | 616.2 | 603.7 |
| 52.5° | 814.4 | 798.7 | 754.6 | 688.6 | 635.1 | 594.3 | 562.8 | 544.0 | 531.4 |
| 55° | 726.4 | 713.7 | 666.6 | 606.9 | 559.7 | 525.1 | 496.9 | 474.8 | 462.2 |
| 57.5° | 644.6 | 632.1 | 588.0 | 531.4 | 490.5 | 459.1 | 434.0 | 415.1 | 399.4 |
| 60° | 569.1 | 559.7 | 515.7 | 462.2 | 427.6 | 396.2 | 374.2 | 358.5 | 349.0 |
| 62.5° | 503.1 | 484.2 | 446.5 | 399.4 | 367.9 | 342.7 | 320.8 | 311.3 | 317.6 |
| 65° | 430.8 | 421.3 | 383.6 | 342.7 | 314.4 | 289.3 | 273.6 | 279.9 | 286.1 |
| 67.5° | 371.0 | 358.5 | 327.0 | 289.3 | 264.1 | 245.2 | 235.8 | 248.4 | 251.5 |
| 70° | 311.3 | 298.8 | 270.4 | 239.0 | 217.0 | 204.4 | 204.4 | 213.8 | 217.0 |
| 72.5° | 254.7 | 245.2 | 220.1 | 194.9 | 179.3 | 169.8 | 176.1 | 182.4 | 185.6 |
| 75° | 204.4 | 194.9 | 176.1 | 154.1 | 138.4 | 138.4 | 144.7 | 150.9 | 154.1 |
| 77.5° | 157.2 | 150.9 | 132.0 | 116.3 | 110.0 | 110.0 | 116.3 | 119.5 | 122.7 |
| 80° | 110.0 | 103.8 | 94.3 | 84.9 | 78.6 | 84.9 | 91.1 | 91.1 | 94.3 |
| 82.5° | 72.3 | 69.1 | 62.9 | 56.6 | 56.6 | 59.8 | 62.9 | 66.1 | 66.1 |
| 85° | 37.7 | 37.7 | 34.6 | 31.4 | 34.6 | 37.7 | 37.7 | 40.9 | 40.9 |
| 87.5° | 12.5 | 12.5 | 12.5 | 12.5 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 |
| 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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