

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: P582629

Luminaire Tested: **HCC6S45D010MW-HM64560840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582629
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: HCC6S45D010MW-HM64560840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

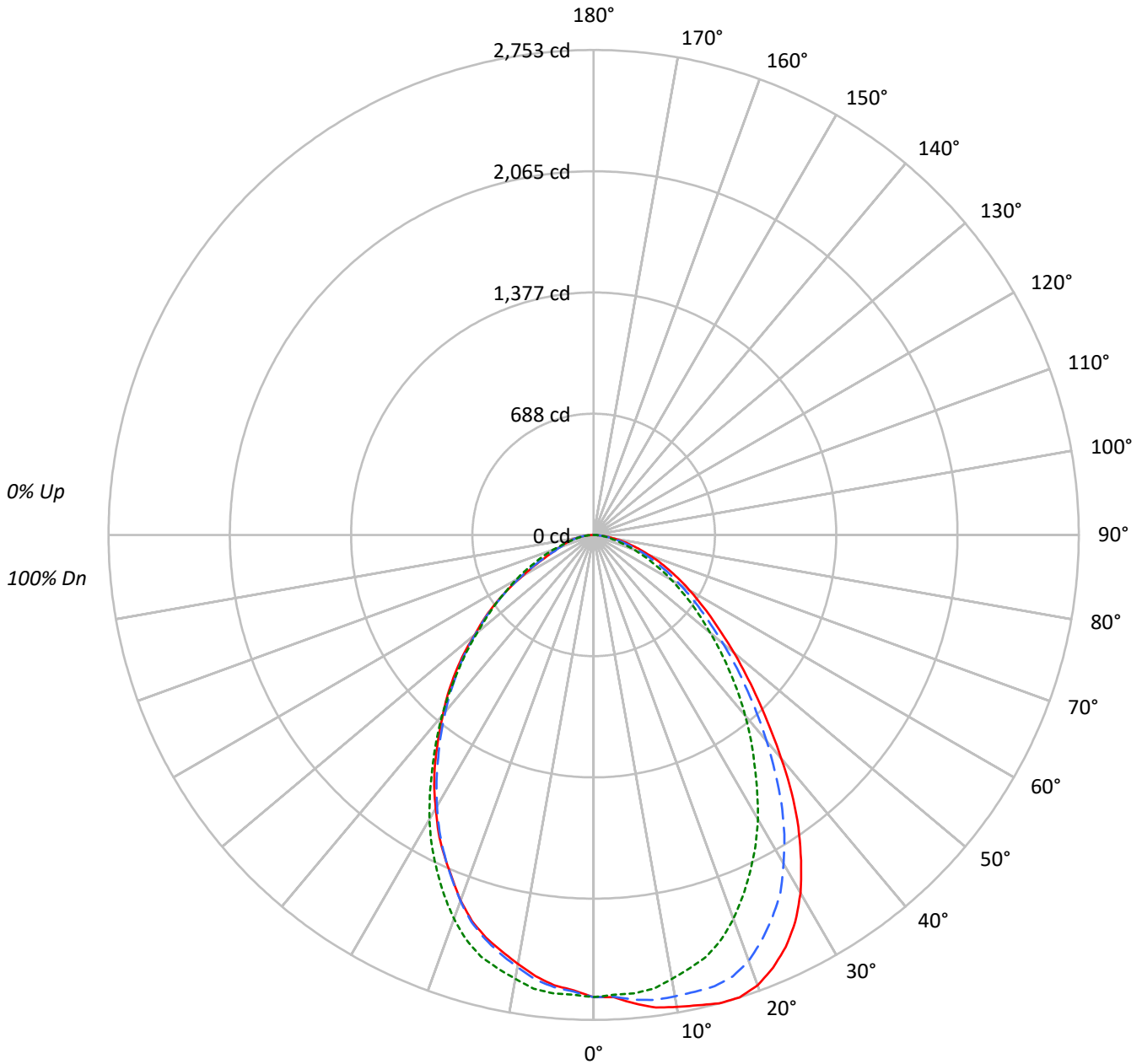
Lumens per Lamp: N/A
Luminaire Lumens: 5137.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): 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 | 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° | 143821 | 143821 | 143821 |
| 5° | 146934 | 143776 | 141217 |
| 10° | 151428 | 142449 | 137662 |
| 15° | 156221 | 140557 | 134252 |
| 20° | 158698 | 135281 | 128794 |
| 25° | 156088 | 127253 | 121398 |
| 30° | 148599 | 117974 | 113435 |
| 35° | 135513 | 106495 | 104815 |
| 40° | 118493 | 95672 | 95157 |
| 45° | 101972 | 84195 | 86141 |
| 50° | 88645 | 73362 | 74889 |
| 55° | 77417 | 64399 | 65078 |
| 60° | 68766 | 55807 | 51081 |
| 65° | 61368 | 46957 | 39057 |
| 70° | 53999 | 38484 | 32746 |
| 75° | 46301 | 30352 | 31136 |
| 80° | 37315 | 26045 | 30559 |
| 85° | 24782 | 22581 | 27047 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 248.4 | 4.8 |
| 10°-20° | 707.1 | 13.8 |
| 20°-30° | 1009.5 | 19.6 |
| 30°-40° | 1057.4 | 20.6 |
| 40°-50° | 890.3 | 17.3 |
| 50°-60° | 633.6 | 12.3 |
| 60°-70° | 370.9 | 7.2 |
| 70°-80° | 175.5 | 3.4 |
| 80°-90° | 45.2 | 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° | 1965.0 | 38.2 |
| 0°-40° | 3022.4 | 58.8 |
| 0°-60° | 4546.3 | 88.5 |
| 0°-90° | 5137.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5137.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2624 | 2624 | 2624 | 2624 | 2624 | |
| 5° | 2670 | 2649 | 2613 | 2577 | 2566 | 257 |
| 15° | 2753 | 2652 | 2477 | 2376 | 2366 | 777 |
| 25° | 2580 | 2398 | 2104 | 2004 | 2007 | 1181 |
| 35° | 2025 | 1856 | 1591 | 1538 | 1566 | 1258 |
| 45° | 1315 | 1218 | 1086 | 1090 | 1111 | 1021 |
| 55° | 810 | 742 | 674 | 674 | 681 | 730 |
| 65° | 473 | 419 | 362 | 305 | 301 | 472 |
| 75° | 219 | 183 | 143 | 140 | 147 | 235 |
| 85° | 39 | 32 | 36 | 43 | 43 | 51 |
| 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° | 2623.5 | 2623.5 | 2623.5 | 2623.5 | 2623.5 | 2623.5 | 2623.5 | 2623.5 | 2623.5 |
| 2.5° | 2627.1 | 2627.1 | 2623.5 | 2619.9 | 2612.7 | 2601.9 | 2594.8 | 2587.6 | 2587.6 |
| 5° | 2670.1 | 2662.9 | 2648.6 | 2630.7 | 2612.7 | 2591.3 | 2577.0 | 2566.2 | 2566.2 |
| 7.5° | 2706.0 | 2691.6 | 2662.9 | 2630.7 | 2598.4 | 2569.7 | 2544.7 | 2530.3 | 2526.8 |
| 10° | 2720.3 | 2702.4 | 2659.3 | 2609.2 | 2559.0 | 2519.6 | 2490.9 | 2473.0 | 2473.0 |
| 12.5° | 2734.6 | 2713.1 | 2655.8 | 2584.1 | 2519.6 | 2465.8 | 2437.1 | 2422.8 | 2419.2 |
| 15° | 2752.6 | 2723.8 | 2652.2 | 2562.5 | 2476.6 | 2415.7 | 2376.3 | 2365.5 | 2365.5 |
| 17.5° | 2752.6 | 2716.7 | 2627.1 | 2516.0 | 2408.5 | 2340.4 | 2304.5 | 2293.8 | 2297.3 |
| 20° | 2720.3 | 2680.9 | 2573.3 | 2437.1 | 2318.9 | 2247.2 | 2211.3 | 2204.2 | 2207.7 |
| 22.5° | 2659.3 | 2612.7 | 2490.9 | 2344.0 | 2215.0 | 2139.7 | 2107.4 | 2107.4 | 2103.8 |
| 25° | 2580.5 | 2530.3 | 2397.7 | 2243.6 | 2103.8 | 2028.6 | 2003.5 | 2007.0 | 2007.0 |
| 27.5° | 2476.6 | 2426.4 | 2293.8 | 2128.9 | 1989.2 | 1913.9 | 1895.9 | 1903.1 | 1906.7 |
| 30° | 2347.5 | 2293.8 | 2154.0 | 1992.7 | 1863.7 | 1788.5 | 1777.7 | 1788.5 | 1792.0 |
| 32.5° | 2189.9 | 2150.5 | 2014.3 | 1849.4 | 1727.5 | 1663.0 | 1659.4 | 1670.1 | 1684.5 |
| 35° | 2024.9 | 1982.0 | 1856.5 | 1706.0 | 1591.3 | 1537.6 | 1537.6 | 1555.5 | 1566.2 |
| 37.5° | 1845.8 | 1802.8 | 1688.1 | 1562.7 | 1465.9 | 1415.7 | 1422.8 | 1440.8 | 1444.3 |
| 40° | 1655.8 | 1623.5 | 1526.8 | 1419.3 | 1336.9 | 1297.5 | 1308.1 | 1326.1 | 1329.7 |
| 42.5° | 1476.6 | 1448.0 | 1369.1 | 1272.4 | 1211.4 | 1182.7 | 1197.0 | 1218.5 | 1225.8 |
| 45° | 1315.3 | 1283.0 | 1218.5 | 1136.2 | 1086.0 | 1071.7 | 1089.6 | 1103.9 | 1111.1 |
| 47.5° | 1168.4 | 1139.7 | 1086.0 | 1010.7 | 974.9 | 967.7 | 985.6 | 992.8 | 1000.0 |
| 50° | 1039.4 | 1010.7 | 956.9 | 888.8 | 860.2 | 860.2 | 874.5 | 881.6 | 878.1 |
| 52.5° | 913.9 | 888.8 | 838.7 | 781.3 | 763.4 | 763.4 | 774.2 | 777.7 | 784.9 |
| 55° | 810.0 | 784.9 | 741.9 | 688.1 | 673.8 | 666.6 | 673.8 | 673.8 | 680.9 |
| 57.5° | 713.2 | 691.7 | 652.3 | 602.1 | 584.2 | 577.0 | 573.5 | 569.8 | 577.0 |
| 60° | 627.2 | 609.3 | 566.3 | 523.3 | 509.0 | 491.0 | 476.7 | 462.4 | 465.9 |
| 62.5° | 548.4 | 530.4 | 491.0 | 448.0 | 433.7 | 408.6 | 390.6 | 372.8 | 379.9 |
| 65° | 473.1 | 455.1 | 419.3 | 383.5 | 362.0 | 333.4 | 304.6 | 293.8 | 301.1 |
| 67.5° | 405.0 | 390.6 | 354.8 | 318.9 | 301.1 | 268.9 | 240.1 | 240.1 | 243.7 |
| 70° | 336.9 | 322.6 | 293.8 | 261.6 | 240.1 | 211.5 | 200.7 | 204.3 | 204.3 |
| 72.5° | 276.0 | 265.2 | 236.6 | 207.9 | 186.4 | 168.4 | 168.4 | 172.1 | 175.6 |
| 75° | 218.6 | 211.5 | 182.8 | 157.7 | 143.3 | 132.7 | 139.8 | 143.3 | 147.0 |
| 77.5° | 168.4 | 157.7 | 136.2 | 118.2 | 107.6 | 111.1 | 118.2 | 121.9 | 125.4 |
| 80° | 118.2 | 114.7 | 96.8 | 86.0 | 82.5 | 86.0 | 93.1 | 96.8 | 96.8 |
| 82.5° | 75.3 | 71.7 | 60.9 | 57.4 | 57.4 | 60.9 | 68.2 | 68.2 | 68.2 |
| 85° | 39.4 | 35.9 | 32.3 | 32.3 | 35.9 | 39.4 | 43.0 | 43.0 | 43.0 |
| 87.5° | 14.3 | 10.8 | 14.3 | 14.3 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 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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