

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: P582603

Luminaire Tested: **HCC6S45D010MW-HM64560835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010MW-HM64560835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

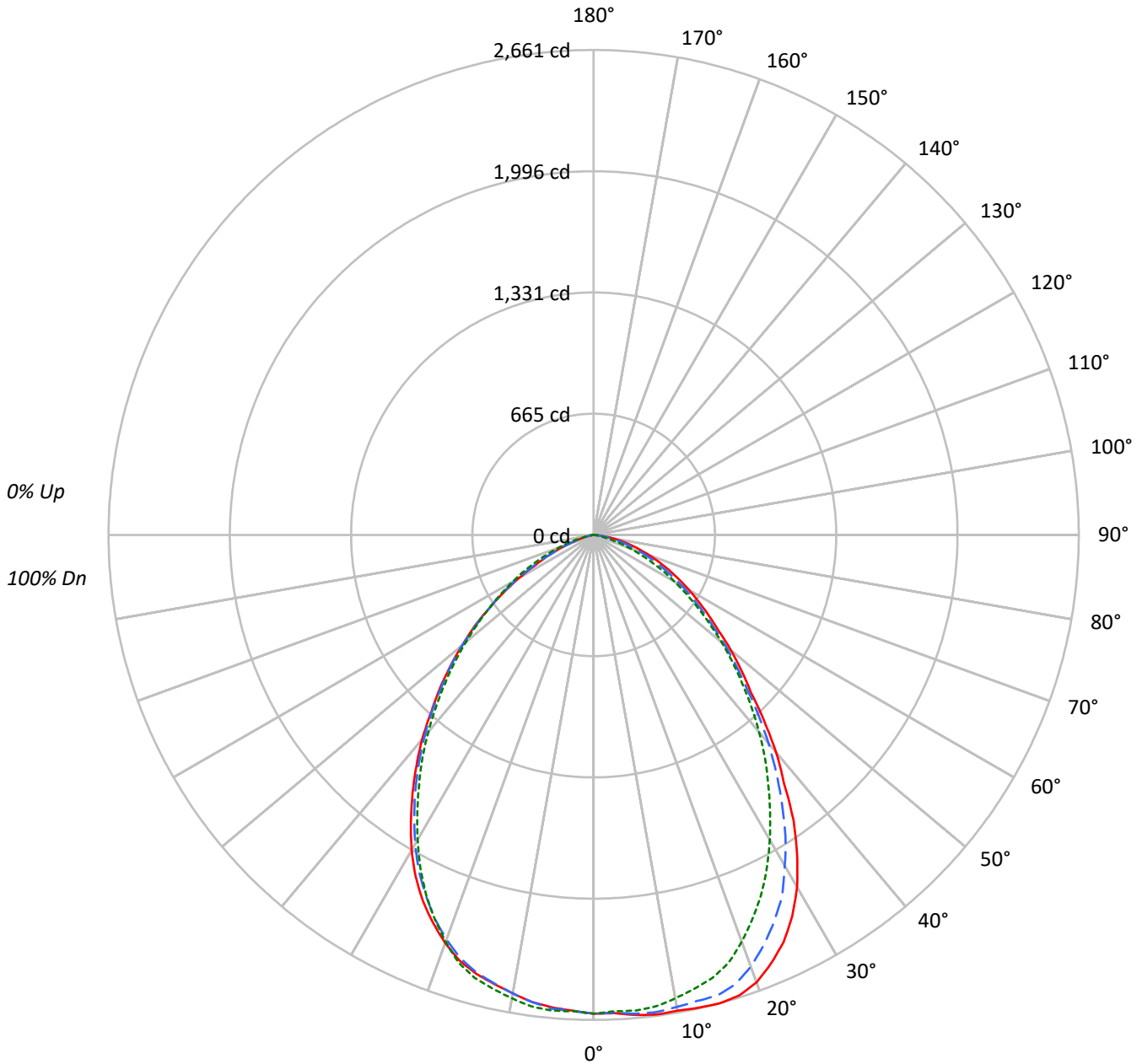
Lumens per Lamp: N/A
Luminaire Lumens: 5147.1 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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 | | | | 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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | 88 |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | 67 |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | 59 |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | 53 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | 38 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 144002 | 144002 | 144002 |
| 5° | 145493 | 144172 | 143225 |
| 10° | 147565 | 143729 | 142193 |
| 15° | 151034 | 142827 | 141459 |
| 20° | 152438 | 138577 | 138985 |
| 25° | 149095 | 131608 | 134107 |
| 30° | 141212 | 122253 | 126399 |
| 35° | 127870 | 111735 | 115891 |
| 40° | 111359 | 101011 | 104703 |
| 45° | 94483 | 89412 | 92614 |
| 50° | 83682 | 78104 | 80151 |
| 55° | 73699 | 66798 | 66473 |
| 60° | 66058 | 56245 | 51717 |
| 65° | 58943 | 45102 | 37060 |
| 70° | 51868 | 32570 | 23177 |
| 75° | 43760 | 19677 | 13111 |
| 80° | 33685 | 8713 | 5430 |
| 85° | 19499 | 2139 | 2139 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 249.3 | 4.8 |
| 10°-20° | 716.6 | 13.9 |
| 20°-30° | 1035.9 | 20.1 |
| 30°-40° | 1090.0 | 21.2 |
| 40°-50° | 916.3 | 17.8 |
| 50°-60° | 643.1 | 12.5 |
| 60°-70° | 353.8 | 6.9 |
| 70°-80° | 125.6 | 2.4 |
| 80°-90° | 16.4 | 0.3 |
| 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° | 2001.9 | 38.9 |
| 0°-40° | 3091.9 | 60.1 |
| 0°-60° | 4651.3 | 90.4 |
| 0°-90° | 5147.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5147.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2627 | 2627 | 2627 | 2627 | 2627 | |
| 5° | 2644 | 2637 | 2620 | 2610 | 2603 | 253 |
| 15° | 2661 | 2616 | 2517 | 2486 | 2492 | 751 |
| 25° | 2465 | 2341 | 2176 | 2179 | 2217 | 1128 |
| 35° | 1911 | 1801 | 1670 | 1704 | 1732 | 1184 |
| 45° | 1219 | 1184 | 1153 | 1181 | 1195 | 956 |
| 55° | 771 | 730 | 699 | 699 | 696 | 694 |
| 65° | 454 | 406 | 348 | 286 | 286 | 452 |
| 75° | 207 | 165 | 93 | 62 | 62 | 222 |
| 85° | 31 | 17 | 3 | 3 | 3 | 43 |
| 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° | 2626.8 | 2626.8 | 2626.8 | 2626.8 | 2626.8 | 2626.8 | 2626.8 | 2626.8 | 2626.8 |
| 2.5° | 2626.8 | 2626.8 | 2623.3 | 2623.3 | 2616.5 | 2616.5 | 2613.0 | 2613.0 | 2613.0 |
| 5° | 2643.9 | 2643.9 | 2637.1 | 2626.8 | 2619.9 | 2609.6 | 2609.6 | 2606.1 | 2602.7 |
| 7.5° | 2654.3 | 2650.9 | 2640.5 | 2626.8 | 2609.6 | 2592.3 | 2585.4 | 2588.9 | 2585.4 |
| 10° | 2650.9 | 2643.9 | 2630.2 | 2602.7 | 2582.0 | 2558.0 | 2554.4 | 2551.0 | 2554.4 |
| 12.5° | 2657.8 | 2647.5 | 2619.9 | 2585.4 | 2551.0 | 2523.5 | 2520.1 | 2520.1 | 2523.5 |
| 15° | 2661.2 | 2650.9 | 2616.5 | 2564.8 | 2516.6 | 2489.1 | 2485.6 | 2489.1 | 2492.5 |
| 17.5° | 2650.9 | 2637.1 | 2585.4 | 2516.6 | 2461.5 | 2434.0 | 2434.0 | 2440.9 | 2447.7 |
| 20° | 2613.0 | 2592.3 | 2520.1 | 2437.4 | 2375.4 | 2354.8 | 2361.7 | 2375.4 | 2382.4 |
| 22.5° | 2544.1 | 2520.1 | 2437.4 | 2344.5 | 2279.0 | 2261.9 | 2279.0 | 2296.3 | 2303.2 |
| 25° | 2464.9 | 2437.4 | 2341.1 | 2244.7 | 2175.8 | 2155.2 | 2179.2 | 2206.8 | 2217.1 |
| 27.5° | 2358.2 | 2327.2 | 2237.7 | 2127.6 | 2058.7 | 2048.4 | 2076.0 | 2106.9 | 2113.9 |
| 30° | 2230.8 | 2196.4 | 2096.6 | 1993.3 | 1931.3 | 1927.9 | 1958.9 | 1986.5 | 1996.8 |
| 32.5° | 2076.0 | 2045.0 | 1958.9 | 1855.6 | 1800.6 | 1800.6 | 1831.5 | 1855.6 | 1865.9 |
| 35° | 1910.7 | 1876.2 | 1800.6 | 1714.5 | 1669.6 | 1673.2 | 1704.1 | 1721.4 | 1731.7 |
| 37.5° | 1714.5 | 1704.1 | 1645.6 | 1573.3 | 1542.4 | 1549.2 | 1573.3 | 1587.1 | 1597.4 |
| 40° | 1556.1 | 1528.5 | 1490.6 | 1432.1 | 1411.5 | 1418.4 | 1442.4 | 1456.3 | 1463.1 |
| 42.5° | 1383.9 | 1366.8 | 1335.8 | 1294.4 | 1280.7 | 1291.0 | 1311.6 | 1322.0 | 1318.6 |
| 45° | 1218.7 | 1215.2 | 1184.3 | 1160.2 | 1153.3 | 1167.0 | 1180.9 | 1191.2 | 1194.6 |
| 47.5° | 1098.2 | 1084.4 | 1056.9 | 1039.7 | 1032.8 | 1046.6 | 1060.4 | 1067.2 | 1067.2 |
| 50° | 981.2 | 967.4 | 939.8 | 922.7 | 915.8 | 929.5 | 939.8 | 946.7 | 939.8 |
| 52.5° | 864.1 | 850.3 | 826.3 | 805.6 | 802.1 | 809.0 | 812.4 | 815.9 | 822.9 |
| 55° | 771.1 | 757.4 | 729.8 | 705.8 | 698.9 | 702.3 | 698.9 | 698.9 | 695.5 |
| 57.5° | 681.6 | 667.9 | 640.3 | 612.8 | 602.5 | 599.1 | 588.7 | 585.2 | 581.8 |
| 60° | 602.5 | 585.2 | 557.8 | 526.7 | 513.0 | 499.2 | 482.0 | 471.7 | 471.7 |
| 62.5° | 526.7 | 509.6 | 478.6 | 451.0 | 430.4 | 406.2 | 378.6 | 364.9 | 364.9 |
| 65° | 454.4 | 440.7 | 406.2 | 375.2 | 347.7 | 316.7 | 285.7 | 278.8 | 285.7 |
| 67.5° | 385.6 | 371.8 | 337.4 | 306.4 | 272.0 | 234.1 | 206.6 | 206.6 | 213.5 |
| 70° | 323.6 | 309.8 | 278.8 | 240.9 | 203.2 | 165.3 | 144.6 | 144.6 | 144.6 |
| 72.5° | 265.1 | 251.4 | 216.9 | 182.5 | 144.6 | 106.7 | 96.4 | 99.8 | 96.4 |
| 75° | 206.6 | 196.2 | 165.3 | 127.4 | 92.9 | 65.5 | 61.9 | 58.5 | 61.9 |
| 77.5° | 155.0 | 144.6 | 117.1 | 82.6 | 51.6 | 37.9 | 34.4 | 34.4 | 34.4 |
| 80° | 106.7 | 96.4 | 75.8 | 48.2 | 27.6 | 17.2 | 17.2 | 17.2 | 17.2 |
| 82.5° | 65.5 | 55.1 | 41.3 | 24.0 | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 |
| 85° | 31.0 | 24.0 | 17.2 | 6.9 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 87.5° | 6.9 | 6.9 | 3.4 | 3.4 | 0.0 | 3.4 | 3.4 | 0.0 | 0.0 |
| 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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