

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: P593316

Luminaire Tested: **HCC6W45D010SL-HM64560850-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W45D010SL-HM64560850-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

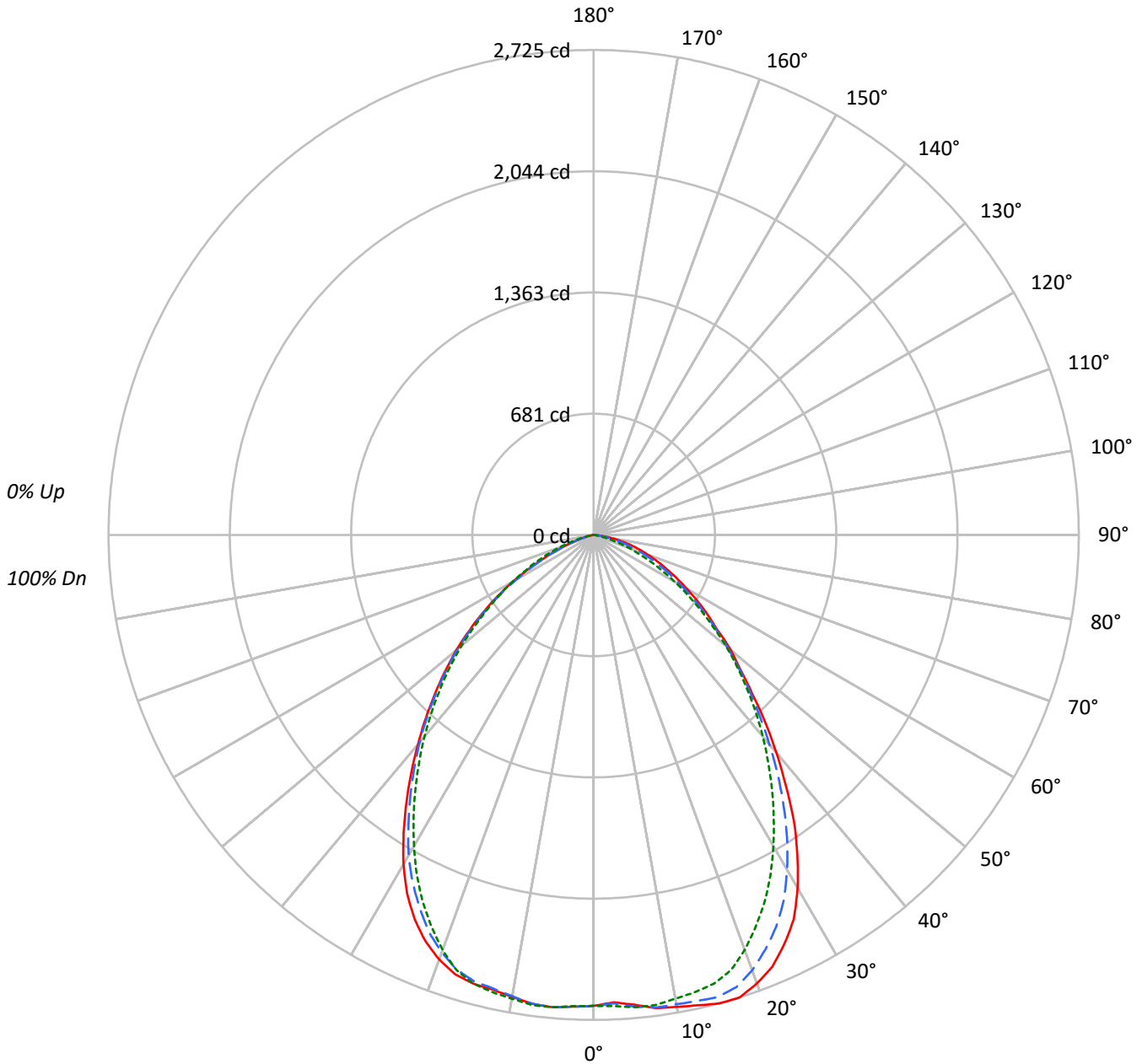
Lumens per Lamp: N/A
Luminaire Lumens: 5342.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 145060 | 145060 | 145060 |
| 5° | 145812 | 146599 | 146599 |
| 10° | 149891 | 147297 | 146702 |
| 15° | 154655 | 148145 | 148145 |
| 20° | 156458 | 144743 | 148092 |
| 25° | 153335 | 137500 | 144002 |
| 30° | 145029 | 127779 | 135274 |
| 35° | 131256 | 116854 | 122616 |
| 40° | 114178 | 105720 | 109820 |
| 45° | 97568 | 94235 | 97568 |
| 50° | 85626 | 82564 | 85925 |
| 55° | 74712 | 69560 | 72313 |
| 60° | 66036 | 57780 | 57002 |
| 65° | 58593 | 45582 | 39070 |
| 70° | 51723 | 32185 | 23562 |
| 75° | 44056 | 18237 | 11395 |
| 80° | 32801 | 5651 | 3410 |
| 85° | 18052 | 2264 | 2264 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 253.8 | 4.8 |
| 10°-20° | 742.6 | 13.9 |
| 20°-30° | 1084.6 | 20.3 |
| 30°-40° | 1137.5 | 21.3 |
| 40°-50° | 958.3 | 17.9 |
| 50°-60° | 671.4 | 12.6 |
| 60°-70° | 360.0 | 6.7 |
| 70°-80° | 120.7 | 2.3 |
| 80°-90° | 13.2 | 0.2 |
| 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° | 2081.1 | 39.0 |
| 0°-40° | 3218.6 | 60.2 |
| 0°-60° | 4848.3 | 90.8 |
| 0°-90° | 5342.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5342.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2646 | 2646 | 2646 | 2646 | 2646 | |
| 5° | 2650 | 2660 | 2664 | 2664 | 2664 | 255 |
| 15° | 2725 | 2689 | 2610 | 2596 | 2610 | 769 |
| 25° | 2535 | 2427 | 2273 | 2313 | 2381 | 1161 |
| 35° | 1961 | 1861 | 1746 | 1796 | 1832 | 1217 |
| 45° | 1258 | 1237 | 1216 | 1248 | 1258 | 980 |
| 55° | 782 | 757 | 728 | 742 | 757 | 704 |
| 65° | 452 | 412 | 351 | 290 | 301 | 451 |
| 75° | 208 | 161 | 86 | 54 | 54 | 221 |
| 85° | 29 | 14 | 4 | 4 | 4 | 39 |
| 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° | 2646.1 | 2646.1 | 2646.1 | 2646.1 | 2646.1 | 2646.1 | 2646.1 | 2646.1 | 2646.1 |
| 2.5° | 2628.2 | 2628.2 | 2635.4 | 2642.5 | 2649.7 | 2649.7 | 2653.3 | 2656.8 | 2653.3 |
| 5° | 2649.7 | 2649.7 | 2660.5 | 2664.0 | 2664.0 | 2660.5 | 2664.0 | 2664.0 | 2664.0 |
| 7.5° | 2681.9 | 2674.8 | 2678.3 | 2671.2 | 2664.0 | 2660.5 | 2656.8 | 2656.8 | 2656.8 |
| 10° | 2692.7 | 2685.6 | 2678.3 | 2664.0 | 2646.1 | 2635.4 | 2631.7 | 2635.4 | 2635.4 |
| 12.5° | 2707.0 | 2699.9 | 2681.9 | 2653.3 | 2631.7 | 2613.8 | 2610.3 | 2617.4 | 2617.4 |
| 15° | 2725.0 | 2717.8 | 2689.1 | 2642.5 | 2610.3 | 2592.3 | 2595.8 | 2603.1 | 2610.3 |
| 17.5° | 2725.0 | 2710.7 | 2664.0 | 2603.1 | 2563.6 | 2545.8 | 2560.1 | 2578.0 | 2588.7 |
| 20° | 2681.9 | 2667.6 | 2603.1 | 2527.8 | 2481.1 | 2470.5 | 2495.6 | 2527.8 | 2538.5 |
| 22.5° | 2624.6 | 2595.8 | 2520.7 | 2430.9 | 2380.7 | 2380.7 | 2416.6 | 2456.0 | 2470.5 |
| 25° | 2535.0 | 2513.4 | 2427.4 | 2323.4 | 2273.2 | 2269.6 | 2312.7 | 2366.4 | 2380.7 |
| 27.5° | 2434.6 | 2405.8 | 2312.7 | 2205.1 | 2151.3 | 2154.9 | 2201.5 | 2255.3 | 2269.6 |
| 30° | 2291.1 | 2255.3 | 2172.9 | 2068.8 | 2018.6 | 2032.9 | 2079.6 | 2119.0 | 2137.0 |
| 32.5° | 2129.8 | 2097.6 | 2022.3 | 1925.4 | 1882.4 | 1896.7 | 1936.2 | 1972.0 | 1986.4 |
| 35° | 1961.3 | 1925.4 | 1860.8 | 1774.9 | 1746.1 | 1760.4 | 1796.3 | 1825.1 | 1832.2 |
| 37.5° | 1771.2 | 1746.1 | 1699.6 | 1631.4 | 1609.9 | 1627.8 | 1656.5 | 1674.5 | 1681.6 |
| 40° | 1595.5 | 1574.0 | 1534.6 | 1484.4 | 1477.3 | 1491.6 | 1520.2 | 1531.0 | 1534.6 |
| 42.5° | 1423.4 | 1405.5 | 1380.4 | 1344.6 | 1344.6 | 1358.9 | 1384.0 | 1391.2 | 1394.8 |
| 45° | 1258.5 | 1247.7 | 1237.0 | 1208.3 | 1215.5 | 1233.4 | 1247.7 | 1258.5 | 1258.5 |
| 47.5° | 1115.1 | 1118.7 | 1104.4 | 1082.8 | 1090.0 | 1107.9 | 1118.7 | 1129.5 | 1129.5 |
| 50° | 1004.0 | 993.2 | 978.9 | 957.3 | 968.1 | 982.4 | 996.8 | 1004.0 | 1007.5 |
| 52.5° | 874.8 | 871.3 | 860.5 | 835.4 | 842.6 | 849.7 | 864.1 | 874.8 | 878.5 |
| 55° | 781.7 | 770.9 | 756.6 | 727.8 | 727.8 | 735.0 | 742.2 | 749.3 | 756.6 |
| 57.5° | 692.0 | 681.3 | 659.7 | 627.4 | 623.9 | 623.9 | 620.3 | 627.4 | 638.2 |
| 60° | 602.3 | 598.8 | 566.6 | 537.8 | 527.0 | 516.4 | 501.9 | 505.6 | 519.9 |
| 62.5° | 523.5 | 516.4 | 487.6 | 451.7 | 430.3 | 412.3 | 394.4 | 390.8 | 405.2 |
| 65° | 451.7 | 444.6 | 412.3 | 376.5 | 351.4 | 319.1 | 290.4 | 290.4 | 301.2 |
| 67.5° | 387.2 | 372.9 | 344.2 | 304.7 | 272.5 | 233.1 | 204.3 | 211.5 | 215.1 |
| 70° | 322.7 | 311.9 | 279.6 | 240.2 | 200.8 | 161.4 | 143.5 | 147.0 | 147.0 |
| 72.5° | 265.3 | 251.0 | 218.8 | 179.2 | 139.8 | 103.9 | 96.8 | 93.3 | 93.3 |
| 75° | 208.0 | 193.7 | 161.4 | 121.9 | 86.1 | 61.0 | 53.8 | 53.8 | 53.8 |
| 77.5° | 150.6 | 139.8 | 111.2 | 75.3 | 46.6 | 28.7 | 25.1 | 21.5 | 21.5 |
| 80° | 103.9 | 93.3 | 68.2 | 39.4 | 17.9 | 10.8 | 10.8 | 10.8 | 10.8 |
| 82.5° | 61.0 | 50.2 | 32.3 | 17.9 | 7.2 | 3.6 | 3.6 | 3.6 | 3.6 |
| 85° | 28.7 | 21.5 | 14.3 | 7.2 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 87.5° | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 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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