

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: P582700

Luminaire Tested: **HCC6W45D010SL-HM64560940-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582700
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: HCC6W45D010SL-HM64560940-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

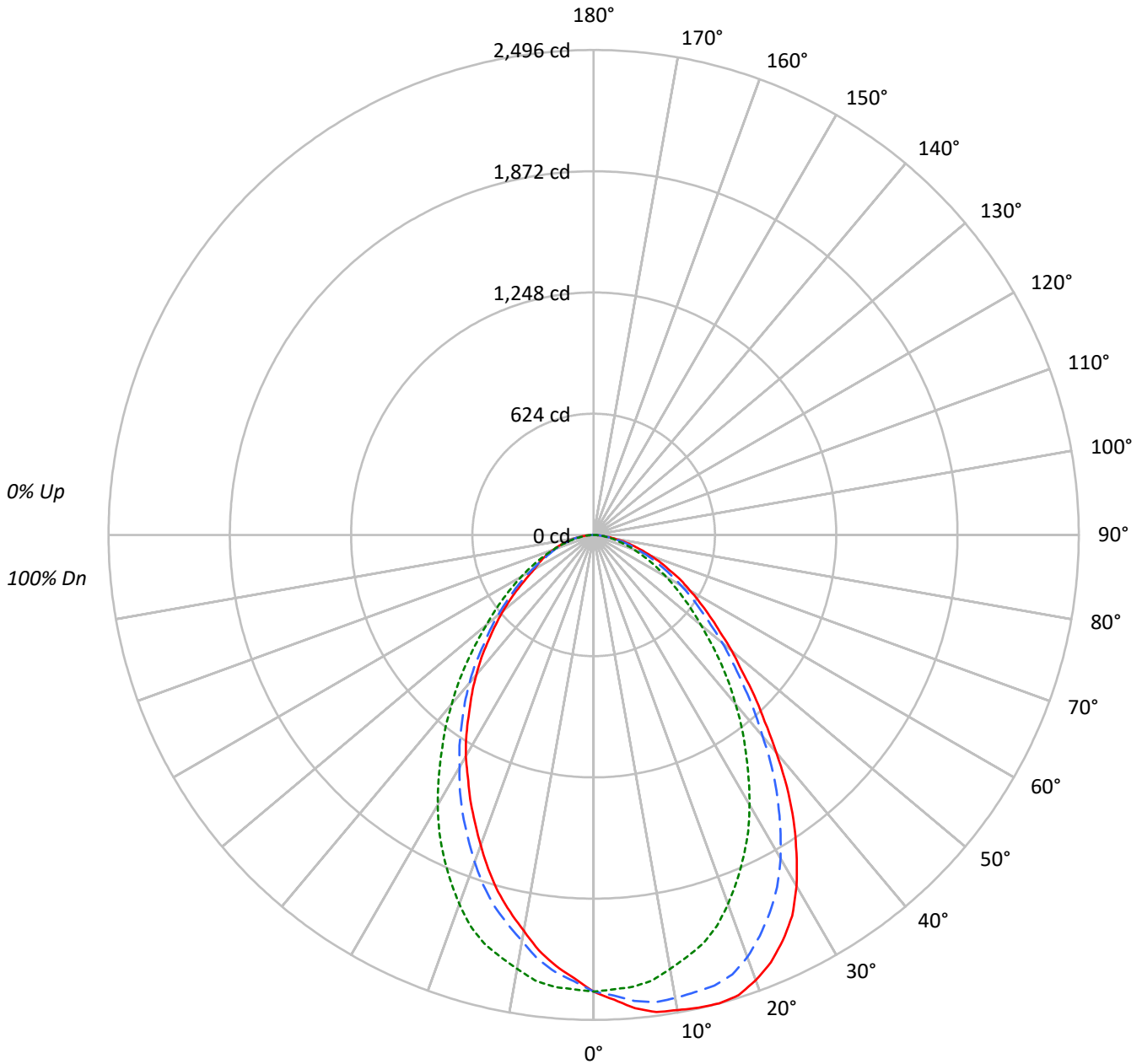
Lumens per Lamp: N/A
Luminaire Lumens: 4378.1 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 128844 | 128844 | 128844 |
| 5° | 134558 | 128467 | 122545 |
| 10° | 138229 | 126256 | 115162 |
| 15° | 141647 | 123519 | 107895 |
| 20° | 142282 | 117919 | 99099 |
| 25° | 139290 | 110402 | 90888 |
| 30° | 132160 | 101522 | 83298 |
| 35° | 120033 | 91243 | 74733 |
| 40° | 104582 | 81267 | 67233 |
| 45° | 90498 | 71124 | 59099 |
| 50° | 79042 | 61243 | 51802 |
| 55° | 69847 | 53809 | 44443 |
| 60° | 62769 | 47178 | 38495 |
| 65° | 56219 | 41042 | 37345 |
| 70° | 50201 | 34990 | 34990 |
| 75° | 43548 | 29484 | 32830 |
| 80° | 34948 | 24972 | 29960 |
| 85° | 23902 | 21889 | 25914 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 220.9 | 5.0 |
| 10°-20° | 614.0 | 14.0 |
| 20°-30° | 855.7 | 19.5 |
| 30°-40° | 881.7 | 20.1 |
| 40°-50° | 730.7 | 16.7 |
| 50°-60° | 525.1 | 12.0 |
| 60°-70° | 334.4 | 7.6 |
| 70°-80° | 171.7 | 3.9 |
| 80°-90° | 43.7 | 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° | 1690.7 | 38.6 |
| 0°-40° | 2572.4 | 58.8 |
| 0°-60° | 3828.3 | 87.4 |
| 0°-90° | 4378.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4378.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2350 | 2350 | 2350 | 2350 | 2350 | |
| 5° | 2445 | 2407 | 2334 | 2259 | 2227 | 234 |
| 15° | 2496 | 2401 | 2176 | 1977 | 1901 | 703 |
| 25° | 2303 | 2145 | 1825 | 1591 | 1503 | 1055 |
| 35° | 1794 | 1648 | 1363 | 1183 | 1117 | 1114 |
| 45° | 1167 | 1085 | 917 | 800 | 762 | 903 |
| 55° | 731 | 671 | 563 | 500 | 465 | 658 |
| 65° | 433 | 386 | 316 | 275 | 288 | 434 |
| 75° | 206 | 177 | 139 | 146 | 155 | 219 |
| 85° | 38 | 35 | 35 | 38 | 41 | 49 |
| 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° | 2350.3 | 2350.3 | 2350.3 | 2350.3 | 2350.3 | 2350.3 | 2350.3 | 2350.3 | 2350.3 |
| 2.5° | 2394.6 | 2385.2 | 2372.5 | 2359.8 | 2340.8 | 2318.7 | 2299.7 | 2293.3 | 2283.9 |
| 5° | 2445.2 | 2432.6 | 2407.2 | 2375.7 | 2334.5 | 2293.3 | 2258.6 | 2236.4 | 2226.9 |
| 7.5° | 2476.9 | 2461.1 | 2426.2 | 2372.5 | 2312.3 | 2252.3 | 2201.6 | 2170.0 | 2157.4 |
| 10° | 2483.2 | 2467.4 | 2419.9 | 2347.2 | 2268.1 | 2185.9 | 2122.5 | 2084.7 | 2068.8 |
| 12.5° | 2492.6 | 2470.6 | 2410.4 | 2325.0 | 2223.8 | 2128.9 | 2049.8 | 2002.3 | 1986.6 |
| 15° | 2495.8 | 2470.6 | 2400.9 | 2296.5 | 2176.4 | 2062.5 | 1977.1 | 1920.1 | 1901.1 |
| 17.5° | 2483.2 | 2454.7 | 2372.5 | 2245.9 | 2109.9 | 1989.8 | 1888.5 | 1828.4 | 1803.0 |
| 20° | 2438.9 | 2407.2 | 2312.3 | 2170.0 | 2021.3 | 1894.9 | 1790.5 | 1727.1 | 1698.7 |
| 22.5° | 2382.0 | 2340.8 | 2233.3 | 2081.5 | 1926.4 | 1793.6 | 1689.2 | 1625.9 | 1597.5 |
| 25° | 2302.8 | 2264.9 | 2144.7 | 1983.4 | 1825.2 | 1686.1 | 1591.2 | 1524.7 | 1502.6 |
| 27.5° | 2211.1 | 2166.9 | 2043.5 | 1882.2 | 1720.8 | 1581.7 | 1489.9 | 1429.8 | 1401.4 |
| 30° | 2087.8 | 2046.7 | 1923.3 | 1762.0 | 1603.8 | 1474.1 | 1379.2 | 1328.5 | 1315.9 |
| 32.5° | 1942.3 | 1907.4 | 1787.3 | 1635.4 | 1483.6 | 1363.4 | 1284.3 | 1230.5 | 1217.9 |
| 35° | 1793.6 | 1752.5 | 1648.1 | 1505.8 | 1363.4 | 1255.8 | 1183.1 | 1135.6 | 1116.7 |
| 37.5° | 1632.2 | 1594.3 | 1505.8 | 1379.2 | 1252.6 | 1151.4 | 1088.2 | 1047.0 | 1028.0 |
| 40° | 1461.4 | 1432.9 | 1350.7 | 1249.5 | 1135.6 | 1047.0 | 993.3 | 958.5 | 939.5 |
| 42.5° | 1303.3 | 1274.8 | 1217.9 | 1122.9 | 1028.0 | 949.0 | 901.6 | 869.9 | 854.1 |
| 45° | 1167.3 | 1141.9 | 1085.0 | 1002.8 | 917.4 | 850.9 | 800.3 | 778.2 | 762.3 |
| 47.5° | 1031.2 | 1018.6 | 968.0 | 892.1 | 813.0 | 756.0 | 721.3 | 695.9 | 683.3 |
| 50° | 926.8 | 911.1 | 863.6 | 784.5 | 718.1 | 673.8 | 642.1 | 620.0 | 607.4 |
| 52.5° | 819.3 | 803.5 | 759.2 | 692.8 | 638.9 | 597.9 | 566.2 | 547.2 | 534.7 |
| 55° | 730.8 | 718.1 | 670.6 | 610.5 | 563.0 | 528.3 | 499.8 | 477.6 | 465.0 |
| 57.5° | 648.4 | 635.8 | 591.5 | 534.7 | 493.5 | 461.8 | 436.6 | 417.6 | 401.8 |
| 60° | 572.5 | 563.0 | 518.8 | 465.0 | 430.3 | 398.6 | 376.4 | 360.6 | 351.1 |
| 62.5° | 506.1 | 487.1 | 449.1 | 401.8 | 370.1 | 344.7 | 322.7 | 313.2 | 319.5 |
| 65° | 433.4 | 423.9 | 385.9 | 344.7 | 316.4 | 291.0 | 275.2 | 281.5 | 287.9 |
| 67.5° | 373.2 | 360.6 | 329.0 | 291.0 | 265.7 | 246.7 | 237.3 | 249.8 | 253.0 |
| 70° | 313.2 | 300.5 | 272.0 | 240.5 | 218.3 | 205.6 | 205.6 | 215.1 | 218.3 |
| 72.5° | 256.2 | 246.7 | 221.5 | 196.1 | 180.3 | 170.8 | 177.1 | 183.5 | 186.6 |
| 75° | 205.6 | 196.1 | 177.1 | 155.0 | 139.2 | 139.2 | 145.6 | 151.8 | 155.0 |
| 77.5° | 158.1 | 151.8 | 132.9 | 117.1 | 110.7 | 110.7 | 117.1 | 120.2 | 123.4 |
| 80° | 110.7 | 104.4 | 94.9 | 85.4 | 79.1 | 85.4 | 91.7 | 91.7 | 94.9 |
| 82.5° | 72.7 | 69.6 | 63.2 | 56.9 | 56.9 | 60.1 | 63.2 | 66.4 | 66.4 |
| 85° | 38.0 | 38.0 | 34.8 | 31.7 | 34.8 | 38.0 | 38.0 | 41.2 | 41.2 |
| 87.5° | 12.7 | 12.7 | 12.7 | 12.7 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 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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