

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: P593285

Luminaire Tested: **HCC6W40D010SL-HM63040850-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593285
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: HCC6W40D010SL-HM63040850-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

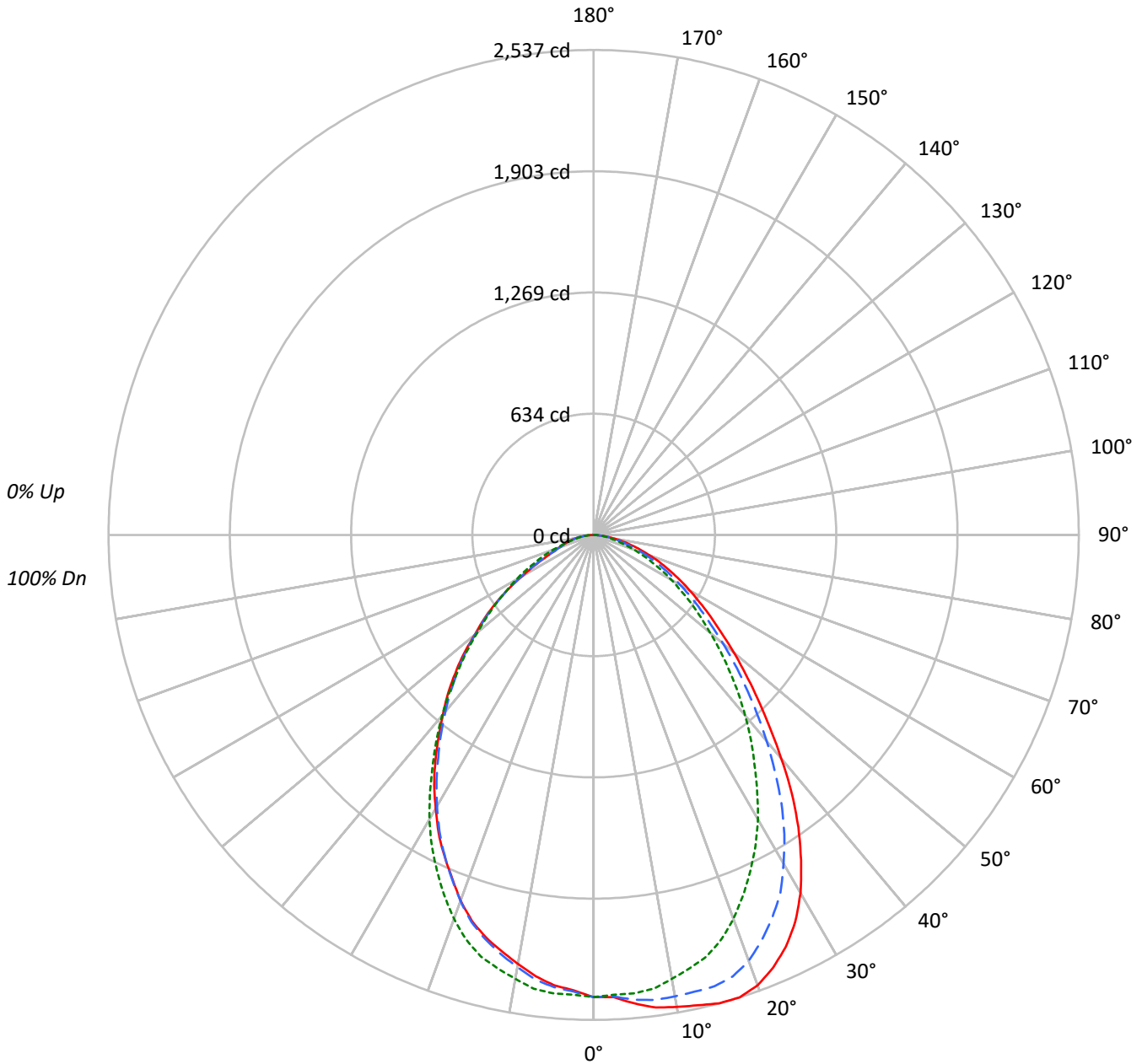
Lumens per Lamp: N/A
Luminaire Lumens: 4734.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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° | 132533 | 132533 | 132533 |
| 5° | 135406 | 132495 | 130128 |
| 10° | 139543 | 131266 | 126851 |
| 15° | 143962 | 129530 | 123712 |
| 20° | 146243 | 124663 | 118695 |
| 25° | 143839 | 117267 | 111871 |
| 30° | 136939 | 108719 | 104535 |
| 35° | 124878 | 98143 | 96583 |
| 40° | 109190 | 88158 | 87693 |
| 45° | 93979 | 77582 | 79373 |
| 50° | 81695 | 67605 | 69013 |
| 55° | 71338 | 59343 | 59984 |
| 60° | 63372 | 51421 | 47069 |
| 65° | 56543 | 43273 | 35983 |
| 70° | 49768 | 35471 | 30165 |
| 75° | 42658 | 28001 | 28700 |
| 80° | 34379 | 23993 | 28160 |
| 85° | 22832 | 20757 | 24908 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 228.9 | 4.8 |
| 10°-20° | 651.6 | 13.8 |
| 20°-30° | 930.2 | 19.6 |
| 30°-40° | 974.4 | 20.6 |
| 40°-50° | 820.4 | 17.3 |
| 50°-60° | 583.9 | 12.3 |
| 60°-70° | 341.8 | 7.2 |
| 70°-80° | 161.7 | 3.4 |
| 80°-90° | 41.6 | 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° | 1810.8 | 38.2 |
| 0°-40° | 2785.2 | 58.8 |
| 0°-60° | 4189.5 | 88.5 |
| 0°-90° | 4734.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4734.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2418 | 2418 | 2418 | 2418 | 2418 | |
| 5° | 2461 | 2441 | 2408 | 2375 | 2365 | 236 |
| 15° | 2537 | 2444 | 2282 | 2190 | 2180 | 716 |
| 25° | 2378 | 2210 | 1939 | 1846 | 1850 | 1088 |
| 35° | 1866 | 1711 | 1466 | 1417 | 1443 | 1159 |
| 45° | 1212 | 1123 | 1001 | 1004 | 1024 | 941 |
| 55° | 746 | 684 | 621 | 621 | 628 | 673 |
| 65° | 436 | 386 | 334 | 281 | 277 | 435 |
| 75° | 201 | 168 | 132 | 129 | 136 | 216 |
| 85° | 36 | 30 | 33 | 40 | 40 | 47 |
| 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° | 2417.6 | 2417.6 | 2417.6 | 2417.6 | 2417.6 | 2417.6 | 2417.6 | 2417.6 | 2417.6 |
| 2.5° | 2420.9 | 2420.9 | 2417.6 | 2414.3 | 2407.7 | 2397.8 | 2391.2 | 2384.6 | 2384.6 |
| 5° | 2460.6 | 2454.0 | 2440.7 | 2424.2 | 2407.7 | 2387.9 | 2374.7 | 2364.7 | 2364.7 |
| 7.5° | 2493.6 | 2480.4 | 2454.0 | 2424.2 | 2394.5 | 2368.1 | 2344.9 | 2331.7 | 2328.4 |
| 10° | 2506.8 | 2490.3 | 2450.7 | 2404.4 | 2358.1 | 2321.8 | 2295.5 | 2278.8 | 2278.8 |
| 12.5° | 2519.9 | 2500.2 | 2447.3 | 2381.3 | 2321.8 | 2272.2 | 2245.9 | 2232.7 | 2229.4 |
| 15° | 2536.6 | 2510.1 | 2444.0 | 2361.4 | 2282.3 | 2226.1 | 2189.7 | 2179.8 | 2179.8 |
| 17.5° | 2536.6 | 2503.5 | 2420.9 | 2318.5 | 2219.5 | 2156.7 | 2123.7 | 2113.7 | 2117.1 |
| 20° | 2506.8 | 2470.5 | 2371.4 | 2245.9 | 2136.9 | 2070.8 | 2037.9 | 2031.1 | 2034.6 |
| 22.5° | 2450.7 | 2407.7 | 2295.5 | 2160.0 | 2041.2 | 1971.8 | 1942.0 | 1942.0 | 1938.7 |
| 25° | 2378.0 | 2331.7 | 2209.6 | 2067.5 | 1938.7 | 1869.4 | 1846.2 | 1849.5 | 1849.5 |
| 27.5° | 2282.3 | 2236.0 | 2113.7 | 1961.9 | 1833.0 | 1763.6 | 1747.1 | 1753.7 | 1757.0 |
| 30° | 2163.3 | 2113.7 | 1985.0 | 1836.3 | 1717.5 | 1648.1 | 1638.2 | 1648.1 | 1651.4 |
| 32.5° | 2017.9 | 1981.7 | 1856.1 | 1704.3 | 1591.9 | 1532.4 | 1529.1 | 1539.1 | 1552.3 |
| 35° | 1866.0 | 1826.4 | 1710.9 | 1572.1 | 1466.5 | 1416.9 | 1416.9 | 1433.4 | 1443.2 |
| 37.5° | 1700.9 | 1661.3 | 1555.6 | 1440.0 | 1350.8 | 1304.6 | 1311.2 | 1327.7 | 1331.0 |
| 40° | 1525.8 | 1496.1 | 1407.0 | 1307.9 | 1231.9 | 1195.5 | 1205.6 | 1222.1 | 1225.4 |
| 42.5° | 1360.7 | 1334.3 | 1261.6 | 1172.5 | 1116.3 | 1089.9 | 1103.1 | 1123.0 | 1129.6 |
| 45° | 1212.2 | 1182.4 | 1123.0 | 1047.0 | 1000.7 | 987.5 | 1004.0 | 1017.2 | 1023.8 |
| 47.5° | 1076.7 | 1050.3 | 1000.7 | 931.3 | 898.4 | 891.8 | 908.3 | 914.9 | 921.5 |
| 50° | 957.9 | 931.3 | 881.9 | 819.1 | 792.7 | 792.7 | 805.9 | 812.5 | 809.2 |
| 52.5° | 842.2 | 819.1 | 772.8 | 720.0 | 703.4 | 703.4 | 713.4 | 716.7 | 723.3 |
| 55° | 746.4 | 723.3 | 683.6 | 634.2 | 620.9 | 614.3 | 620.9 | 620.9 | 627.6 |
| 57.5° | 657.3 | 637.5 | 601.1 | 554.9 | 538.3 | 531.7 | 528.4 | 525.1 | 531.7 |
| 60° | 578.0 | 561.5 | 521.8 | 482.2 | 469.0 | 452.4 | 439.2 | 426.0 | 429.3 |
| 62.5° | 505.3 | 488.8 | 452.4 | 412.8 | 399.7 | 376.6 | 360.0 | 343.5 | 350.1 |
| 65° | 435.9 | 419.4 | 386.5 | 353.4 | 333.6 | 307.2 | 280.7 | 270.8 | 277.4 |
| 67.5° | 373.1 | 360.0 | 327.0 | 294.0 | 277.4 | 247.7 | 221.3 | 221.3 | 224.6 |
| 70° | 310.5 | 297.3 | 270.8 | 241.1 | 221.3 | 194.8 | 184.9 | 188.2 | 188.2 |
| 72.5° | 254.3 | 244.4 | 218.0 | 191.5 | 171.7 | 155.2 | 155.2 | 158.5 | 161.8 |
| 75° | 201.4 | 194.8 | 168.4 | 145.4 | 132.2 | 122.1 | 128.9 | 132.2 | 135.5 |
| 77.5° | 155.2 | 145.4 | 125.6 | 108.9 | 99.1 | 102.4 | 108.9 | 112.2 | 115.5 |
| 80° | 108.9 | 105.7 | 89.2 | 79.3 | 76.0 | 79.3 | 85.9 | 89.2 | 89.2 |
| 82.5° | 69.4 | 66.1 | 56.2 | 52.9 | 52.9 | 56.2 | 62.8 | 62.8 | 62.8 |
| 85° | 36.3 | 33.0 | 29.7 | 29.7 | 33.0 | 36.3 | 39.6 | 39.6 | 39.6 |
| 87.5° | 13.2 | 9.9 | 13.2 | 13.2 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 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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