

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: P582773

Luminaire Tested: **HCC6S50D010MB-HM64560840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582773
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: HCC6S50D010MB-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

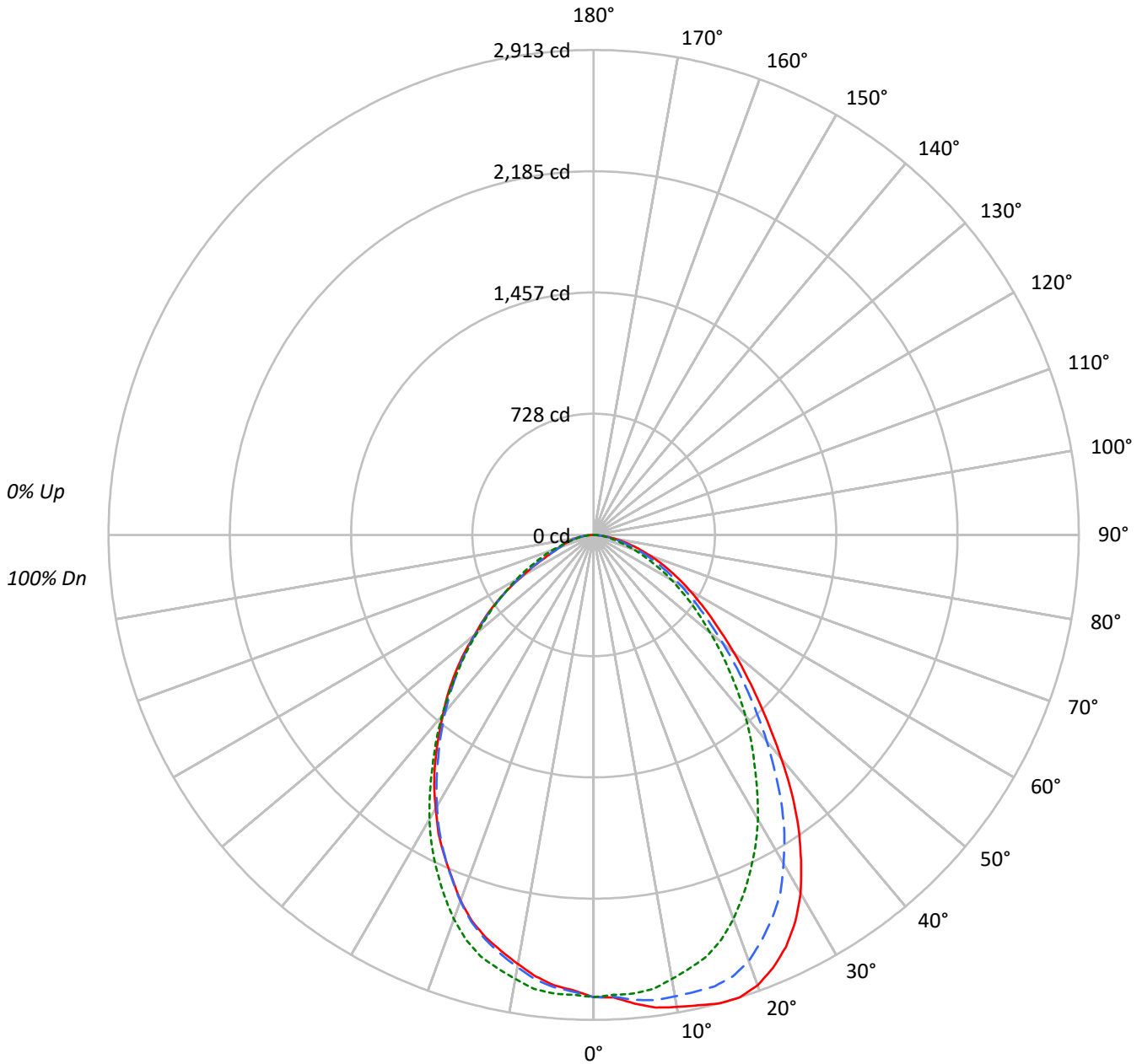
Lumens per Lamp: N/A
Luminaire Lumens: 5437.3 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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 | | | | | | | | | | |
| 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° | 152208 | 152208 | 152208 |
| 5° | 155503 | 152162 | 149449 |
| 10° | 160256 | 150754 | 145689 |
| 15° | 165330 | 148752 | 142078 |
| 20° | 167950 | 143168 | 136308 |
| 25° | 165185 | 134675 | 128475 |
| 30° | 157271 | 124855 | 120044 |
| 35° | 143416 | 112705 | 110925 |
| 40° | 125406 | 101247 | 100703 |
| 45° | 107918 | 89095 | 91157 |
| 50° | 93814 | 77635 | 79255 |
| 55° | 81928 | 68155 | 68872 |
| 60° | 72768 | 59063 | 54064 |
| 65° | 64936 | 49694 | 41327 |
| 70° | 57141 | 40744 | 34653 |
| 75° | 49013 | 32153 | 32936 |
| 80° | 39525 | 27560 | 32327 |
| 85° | 26229 | 23839 | 28619 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 262.9 | 4.8 |
| 10°-20° | 748.4 | 13.8 |
| 20°-30° | 1068.3 | 19.6 |
| 30°-40° | 1119.0 | 20.6 |
| 40°-50° | 942.2 | 17.3 |
| 50°-60° | 670.6 | 12.3 |
| 60°-70° | 392.5 | 7.2 |
| 70°-80° | 185.7 | 3.4 |
| 80°-90° | 47.8 | 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° | 2079.5 | 38.2 |
| 0°-40° | 3198.6 | 58.8 |
| 0°-60° | 4811.3 | 88.5 |
| 0°-90° | 5437.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5437.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2776 | 2776 | 2776 | 2776 | 2776 | |
| 5° | 2826 | 2803 | 2765 | 2727 | 2716 | 272 |
| 15° | 2913 | 2807 | 2621 | 2515 | 2503 | 822 |
| 25° | 2731 | 2538 | 2226 | 2120 | 2124 | 1250 |
| 35° | 2143 | 1965 | 1684 | 1627 | 1658 | 1331 |
| 45° | 1392 | 1290 | 1149 | 1153 | 1176 | 1081 |
| 55° | 857 | 785 | 713 | 713 | 721 | 773 |
| 65° | 501 | 444 | 383 | 322 | 319 | 499 |
| 75° | 231 | 193 | 152 | 148 | 156 | 248 |
| 85° | 42 | 34 | 38 | 46 | 46 | 54 |
| 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° | 2776.5 | 2776.5 | 2776.5 | 2776.5 | 2776.5 | 2776.5 | 2776.5 | 2776.5 | 2776.5 |
| 2.5° | 2780.3 | 2780.3 | 2776.5 | 2772.6 | 2765.1 | 2753.7 | 2746.2 | 2738.5 | 2738.5 |
| 5° | 2825.8 | 2818.2 | 2803.0 | 2784.1 | 2765.1 | 2742.3 | 2727.2 | 2715.8 | 2715.8 |
| 7.5° | 2863.7 | 2848.6 | 2818.2 | 2784.1 | 2750.0 | 2719.6 | 2693.0 | 2677.9 | 2674.0 |
| 10° | 2878.9 | 2859.9 | 2814.4 | 2761.3 | 2708.2 | 2666.5 | 2636.1 | 2617.2 | 2617.2 |
| 12.5° | 2894.0 | 2871.2 | 2810.7 | 2734.7 | 2666.5 | 2609.5 | 2579.2 | 2564.1 | 2560.3 |
| 15° | 2913.1 | 2882.7 | 2806.8 | 2712.0 | 2621.0 | 2556.5 | 2514.7 | 2503.4 | 2503.4 |
| 17.5° | 2913.1 | 2875.1 | 2780.3 | 2662.7 | 2549.0 | 2476.8 | 2438.9 | 2427.5 | 2431.3 |
| 20° | 2878.9 | 2837.1 | 2723.4 | 2579.2 | 2454.1 | 2378.2 | 2340.3 | 2332.7 | 2336.5 |
| 22.5° | 2814.4 | 2765.1 | 2636.1 | 2480.6 | 2344.0 | 2264.4 | 2230.3 | 2230.3 | 2226.5 |
| 25° | 2730.9 | 2677.9 | 2537.5 | 2374.4 | 2226.5 | 2146.8 | 2120.2 | 2124.0 | 2124.0 |
| 27.5° | 2621.0 | 2567.8 | 2427.5 | 2253.0 | 2105.1 | 2025.4 | 2006.5 | 2014.1 | 2017.9 |
| 30° | 2484.5 | 2427.5 | 2279.6 | 2108.9 | 1972.4 | 1892.7 | 1881.3 | 1892.7 | 1896.4 |
| 32.5° | 2317.5 | 2275.8 | 2131.7 | 1957.2 | 1828.2 | 1759.9 | 1756.1 | 1767.5 | 1782.7 |
| 35° | 2143.0 | 2097.6 | 1964.8 | 1805.5 | 1684.1 | 1627.2 | 1627.2 | 1646.2 | 1657.5 |
| 37.5° | 1953.4 | 1907.9 | 1786.5 | 1653.8 | 1551.4 | 1498.2 | 1505.8 | 1524.8 | 1528.6 |
| 40° | 1752.4 | 1718.2 | 1615.8 | 1502.0 | 1414.8 | 1373.0 | 1384.5 | 1403.4 | 1407.2 |
| 42.5° | 1562.7 | 1532.3 | 1449.0 | 1346.5 | 1282.1 | 1251.7 | 1266.9 | 1289.7 | 1297.2 |
| 45° | 1392.0 | 1357.9 | 1289.7 | 1202.4 | 1149.2 | 1134.1 | 1153.1 | 1168.2 | 1175.8 |
| 47.5° | 1236.5 | 1206.2 | 1149.2 | 1069.6 | 1031.7 | 1024.2 | 1043.1 | 1050.6 | 1058.3 |
| 50° | 1100.0 | 1069.6 | 1012.7 | 940.7 | 910.3 | 910.3 | 925.5 | 933.1 | 929.3 |
| 52.5° | 967.2 | 940.7 | 887.5 | 826.8 | 807.9 | 807.9 | 819.3 | 823.0 | 830.7 |
| 55° | 857.2 | 830.7 | 785.1 | 728.2 | 713.1 | 705.5 | 713.1 | 713.1 | 720.6 |
| 57.5° | 754.8 | 732.1 | 690.3 | 637.3 | 618.3 | 610.7 | 606.9 | 603.1 | 610.7 |
| 60° | 663.7 | 644.8 | 599.2 | 553.8 | 538.7 | 519.6 | 504.5 | 489.3 | 493.1 |
| 62.5° | 580.3 | 561.3 | 519.6 | 474.2 | 458.9 | 432.4 | 413.5 | 394.5 | 402.0 |
| 65° | 500.6 | 481.7 | 443.8 | 405.9 | 383.1 | 352.8 | 322.4 | 311.1 | 318.6 |
| 67.5° | 428.6 | 413.5 | 375.6 | 337.5 | 318.6 | 284.5 | 254.2 | 254.2 | 257.9 |
| 70° | 356.5 | 341.4 | 311.1 | 276.9 | 254.2 | 223.8 | 212.5 | 216.2 | 216.2 |
| 72.5° | 292.1 | 280.7 | 250.4 | 220.0 | 197.2 | 178.2 | 178.2 | 182.1 | 185.9 |
| 75° | 231.4 | 223.8 | 193.4 | 166.9 | 151.8 | 140.3 | 148.0 | 151.8 | 155.5 |
| 77.5° | 178.2 | 166.9 | 144.1 | 125.2 | 113.8 | 117.6 | 125.2 | 129.0 | 132.7 |
| 80° | 125.2 | 121.4 | 102.4 | 91.1 | 87.3 | 91.1 | 98.6 | 102.4 | 102.4 |
| 82.5° | 79.6 | 75.8 | 64.5 | 60.7 | 60.7 | 64.5 | 72.0 | 72.0 | 72.0 |
| 85° | 41.7 | 37.9 | 34.1 | 34.1 | 37.9 | 41.7 | 45.5 | 45.5 | 45.5 |
| 87.5° | 15.1 | 11.3 | 15.1 | 15.1 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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