

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: P582592

Luminaire Tested: **HCC6S45D010MB-HM64560830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582592
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: HCC6S45D010MB-HM64560830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

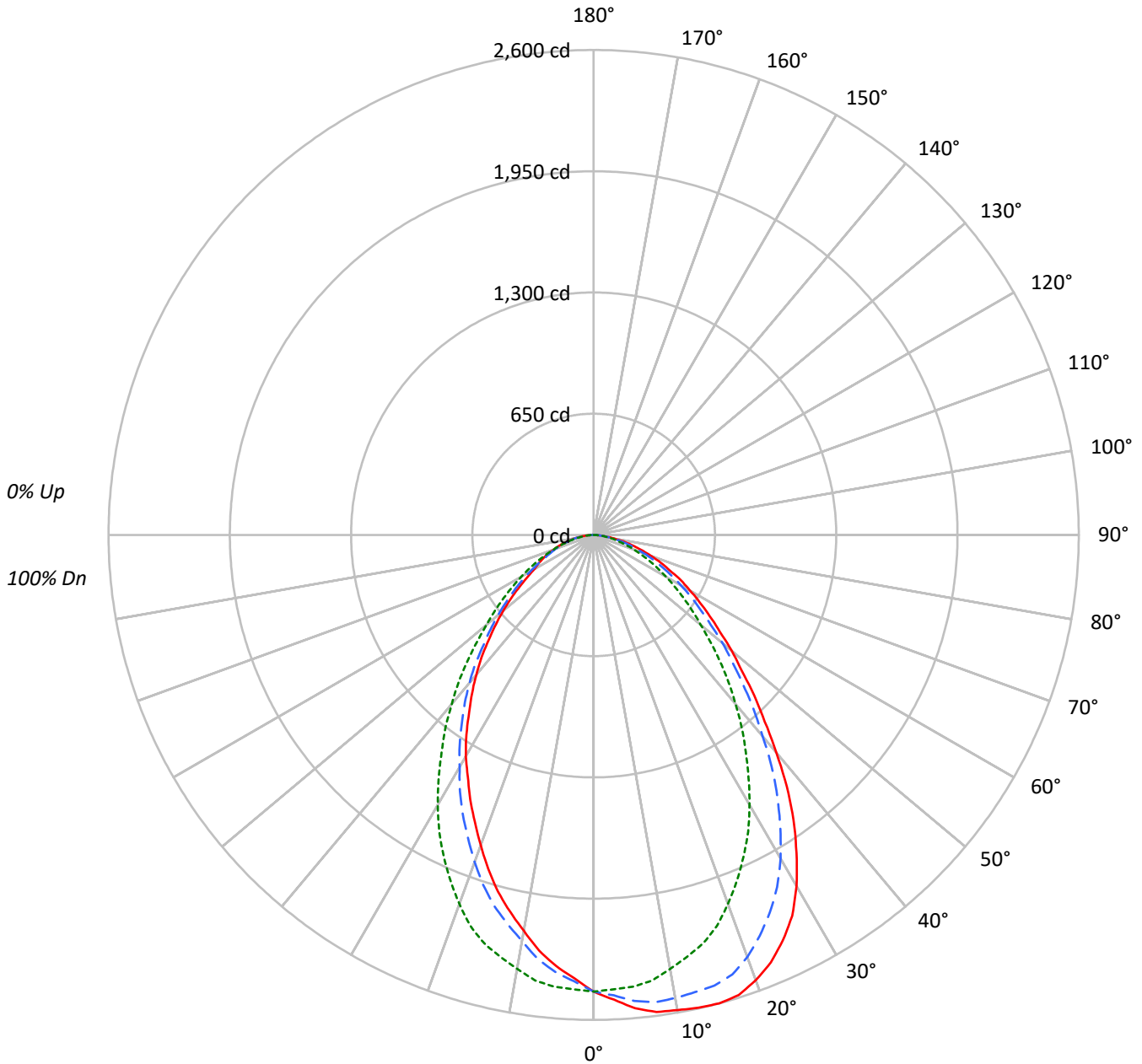
Lumens per Lamp: N/A
Luminaire Lumens: 4560.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (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 | 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° | 134211 | 134211 | 134211 |
| 5° | 140155 | 133810 | 127647 |
| 10° | 143980 | 131505 | 119954 |
| 15° | 147543 | 128656 | 112390 |
| 20° | 148203 | 122826 | 103224 |
| 25° | 145091 | 114999 | 94669 |
| 30° | 137654 | 105744 | 86767 |
| 35° | 125026 | 95044 | 77838 |
| 40° | 108933 | 84651 | 70031 |
| 45° | 94258 | 74077 | 61565 |
| 50° | 82334 | 63785 | 53951 |
| 55° | 72752 | 56055 | 46287 |
| 60° | 65389 | 49130 | 40095 |
| 65° | 58554 | 42741 | 38889 |
| 70° | 52284 | 36432 | 36432 |
| 75° | 45369 | 30712 | 34186 |
| 80° | 36400 | 25982 | 31222 |
| 85° | 24845 | 22769 | 26921 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 230.1 | 5.0 |
| 10°-20° | 639.6 | 14.0 |
| 20°-30° | 891.3 | 19.5 |
| 30°-40° | 918.4 | 20.1 |
| 40°-50° | 761.1 | 16.7 |
| 50°-60° | 547.0 | 12.0 |
| 60°-70° | 348.3 | 7.6 |
| 70°-80° | 178.9 | 3.9 |
| 80°-90° | 45.5 | 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° | 1761.0 | 38.6 |
| 0°-40° | 2679.4 | 58.8 |
| 0°-60° | 3987.5 | 87.4 |
| 0°-90° | 4560.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4560.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2448 | 2448 | 2448 | 2448 | 2448 | |
| 5° | 2547 | 2507 | 2432 | 2353 | 2320 | 244 |
| 15° | 2600 | 2501 | 2267 | 2059 | 1980 | 733 |
| 25° | 2399 | 2234 | 1901 | 1657 | 1565 | 1099 |
| 35° | 1868 | 1717 | 1420 | 1232 | 1163 | 1160 |
| 45° | 1216 | 1130 | 956 | 834 | 794 | 941 |
| 55° | 761 | 698 | 586 | 521 | 484 | 686 |
| 65° | 451 | 402 | 330 | 287 | 300 | 452 |
| 75° | 214 | 184 | 145 | 152 | 161 | 228 |
| 85° | 40 | 36 | 36 | 40 | 43 | 51 |
| 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° | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 | 2448.2 |
| 2.5° | 2494.3 | 2484.4 | 2471.2 | 2458.0 | 2438.2 | 2415.2 | 2395.4 | 2388.8 | 2379.0 |
| 5° | 2546.9 | 2533.8 | 2507.4 | 2474.4 | 2431.6 | 2388.8 | 2352.6 | 2329.5 | 2319.6 |
| 7.5° | 2579.9 | 2563.5 | 2527.2 | 2471.2 | 2408.5 | 2346.0 | 2293.2 | 2260.3 | 2247.1 |
| 10° | 2586.5 | 2570.0 | 2520.5 | 2444.8 | 2362.4 | 2276.8 | 2210.9 | 2171.3 | 2154.9 |
| 12.5° | 2596.4 | 2573.3 | 2510.7 | 2421.8 | 2316.3 | 2217.4 | 2135.1 | 2085.7 | 2069.2 |
| 15° | 2599.7 | 2573.3 | 2500.8 | 2392.1 | 2266.9 | 2148.2 | 2059.3 | 2000.0 | 1980.3 |
| 17.5° | 2586.5 | 2556.8 | 2471.2 | 2339.4 | 2197.7 | 2072.5 | 1967.0 | 1904.5 | 1878.1 |
| 20° | 2540.4 | 2507.4 | 2408.5 | 2260.3 | 2105.4 | 1973.7 | 1865.0 | 1799.0 | 1769.4 |
| 22.5° | 2481.0 | 2438.2 | 2326.2 | 2168.1 | 2006.7 | 1868.2 | 1759.5 | 1693.6 | 1663.9 |
| 25° | 2398.7 | 2359.1 | 2234.0 | 2065.9 | 1901.2 | 1756.2 | 1657.3 | 1588.1 | 1565.1 |
| 27.5° | 2303.2 | 2257.0 | 2128.5 | 1960.4 | 1792.5 | 1647.5 | 1551.9 | 1489.2 | 1459.7 |
| 30° | 2174.6 | 2131.8 | 2003.2 | 1835.3 | 1670.5 | 1535.5 | 1436.6 | 1383.9 | 1370.7 |
| 32.5° | 2023.1 | 1986.8 | 1861.7 | 1703.4 | 1545.3 | 1420.2 | 1337.7 | 1281.7 | 1268.5 |
| 35° | 1868.2 | 1825.4 | 1716.7 | 1568.4 | 1420.2 | 1308.1 | 1232.2 | 1182.9 | 1163.1 |
| 37.5° | 1700.1 | 1660.6 | 1568.4 | 1436.6 | 1304.7 | 1199.4 | 1133.5 | 1090.7 | 1070.8 |
| 40° | 1522.2 | 1492.6 | 1406.9 | 1301.4 | 1182.9 | 1090.7 | 1034.6 | 998.3 | 978.6 |
| 42.5° | 1357.5 | 1327.8 | 1268.5 | 1169.7 | 1070.8 | 988.5 | 939.1 | 906.1 | 889.6 |
| 45° | 1215.8 | 1189.4 | 1130.2 | 1044.4 | 955.5 | 886.3 | 833.7 | 810.5 | 794.1 |
| 47.5° | 1074.1 | 1061.0 | 1008.2 | 929.1 | 846.8 | 787.4 | 751.2 | 724.9 | 711.7 |
| 50° | 965.4 | 949.0 | 899.5 | 817.1 | 747.9 | 701.8 | 668.8 | 645.9 | 632.6 |
| 52.5° | 853.4 | 836.9 | 790.7 | 721.6 | 665.6 | 622.7 | 589.8 | 570.0 | 556.8 |
| 55° | 761.2 | 747.9 | 698.5 | 635.9 | 586.5 | 550.3 | 520.6 | 497.6 | 484.3 |
| 57.5° | 675.4 | 662.3 | 616.2 | 556.8 | 514.0 | 481.0 | 454.7 | 434.9 | 418.4 |
| 60° | 596.4 | 586.5 | 540.4 | 484.3 | 448.1 | 415.1 | 392.1 | 375.6 | 365.7 |
| 62.5° | 527.1 | 507.4 | 467.9 | 418.4 | 385.4 | 359.2 | 336.1 | 326.2 | 332.8 |
| 65° | 451.4 | 441.5 | 402.0 | 359.2 | 329.5 | 303.1 | 286.7 | 293.2 | 299.8 |
| 67.5° | 388.8 | 375.6 | 342.6 | 303.1 | 276.8 | 257.0 | 247.2 | 260.3 | 263.6 |
| 70° | 326.2 | 313.1 | 283.4 | 250.4 | 227.3 | 214.2 | 214.2 | 224.0 | 227.3 |
| 72.5° | 266.9 | 257.0 | 230.6 | 204.3 | 187.8 | 177.9 | 184.5 | 191.1 | 194.4 |
| 75° | 214.2 | 204.3 | 184.5 | 161.4 | 145.0 | 145.0 | 151.6 | 158.1 | 161.4 |
| 77.5° | 164.7 | 158.1 | 138.4 | 121.9 | 115.3 | 115.3 | 121.9 | 125.2 | 128.4 |
| 80° | 115.3 | 108.7 | 98.9 | 88.9 | 82.3 | 88.9 | 95.6 | 95.6 | 98.9 |
| 82.5° | 75.8 | 72.5 | 65.9 | 59.4 | 59.4 | 62.6 | 65.9 | 69.2 | 69.2 |
| 85° | 39.5 | 39.5 | 36.2 | 33.0 | 36.2 | 39.5 | 39.5 | 42.8 | 42.8 |
| 87.5° | 13.1 | 13.1 | 13.1 | 13.1 | 16.4 | 16.4 | 16.4 | 16.4 | 16.4 |
| 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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