

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: P593192

Luminaire Tested: **HCC6W25D010MW-HM60525950-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W25D010MW-HM60525950-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

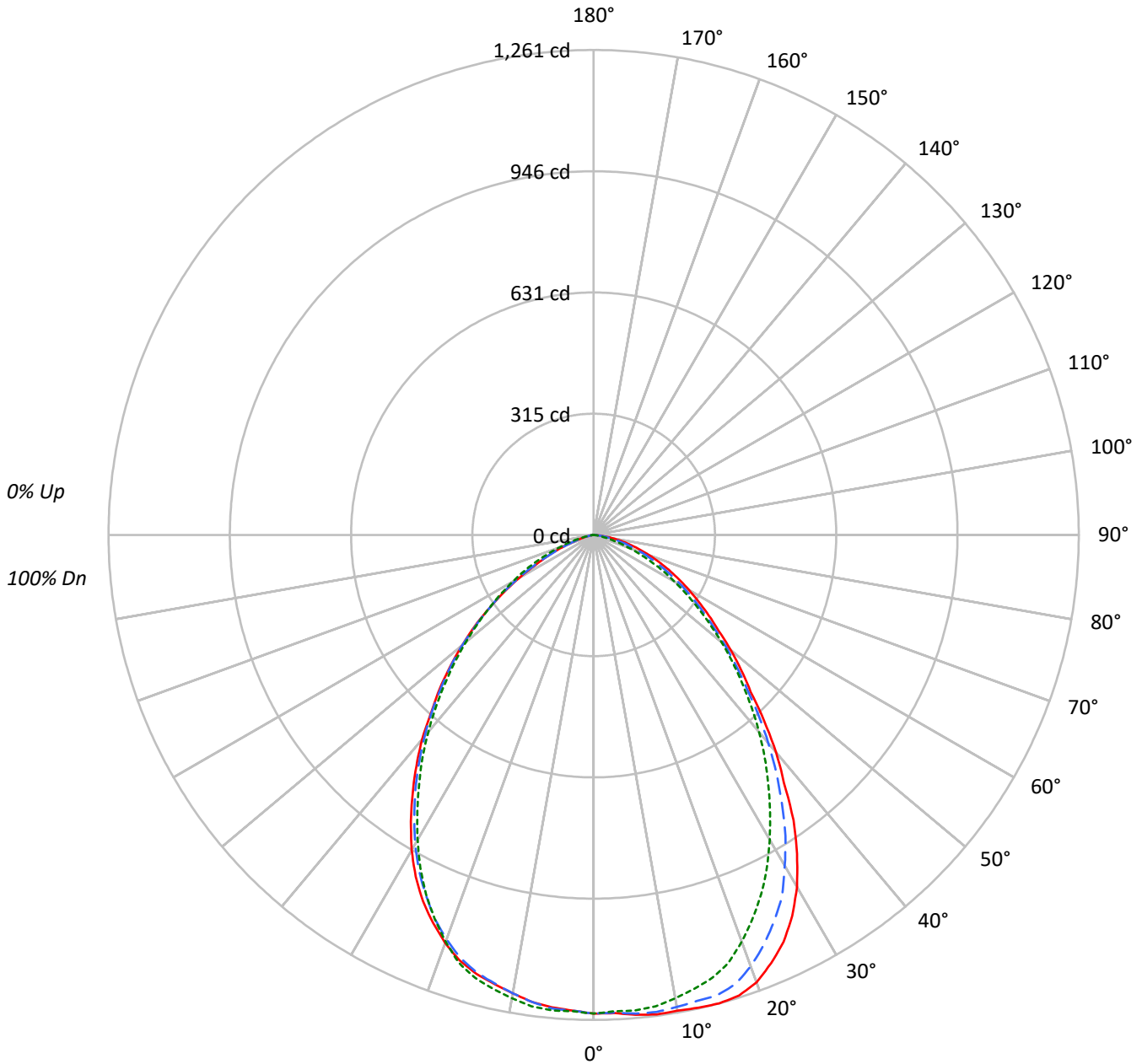
Lumens per Lamp: N/A
Luminaire Lumens: 2438.6 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 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 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 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° | 68224 | 68224 | 68224 |
| 5° | 68930 | 68303 | 67857 |
| 10° | 69911 | 68096 | 67372 |
| 15° | 71555 | 67673 | 67026 |
| 20° | 72223 | 65654 | 65847 |
| 25° | 70637 | 62350 | 63536 |
| 30° | 66903 | 57927 | 59883 |
| 35° | 60585 | 52936 | 54910 |
| 40° | 52763 | 47854 | 49607 |
| 45° | 44764 | 42361 | 43881 |
| 50° | 39649 | 37005 | 37977 |
| 55° | 34923 | 31655 | 31483 |
| 60° | 31291 | 26654 | 24494 |
| 65° | 27928 | 21377 | 17551 |
| 70° | 24587 | 15419 | 10979 |
| 75° | 20736 | 9320 | 6206 |
| 80° | 15974 | 4104 | 2557 |
| 85° | 9246 | 1006 | 1006 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.1 | 4.8 |
| 10°-20° | 339.5 | 13.9 |
| 20°-30° | 490.8 | 20.1 |
| 30°-40° | 516.4 | 21.2 |
| 40°-50° | 434.1 | 17.8 |
| 50°-60° | 304.7 | 12.5 |
| 60°-70° | 167.6 | 6.9 |
| 70°-80° | 59.5 | 2.4 |
| 80°-90° | 7.8 | 0.3 |
| 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° | 948.4 | 38.9 |
| 0°-40° | 1464.8 | 60.1 |
| 0°-60° | 2203.7 | 90.4 |
| 0°-90° | 2438.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2438.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1244 | 1244 | 1244 | 1244 | 1244 | |
| 5° | 1253 | 1249 | 1241 | 1236 | 1233 | 120 |
| 15° | 1261 | 1240 | 1192 | 1178 | 1181 | 356 |
| 25° | 1168 | 1109 | 1031 | 1032 | 1050 | 534 |
| 35° | 905 | 853 | 791 | 807 | 820 | 561 |
| 45° | 577 | 561 | 546 | 560 | 566 | 453 |
| 55° | 365 | 346 | 331 | 331 | 329 | 329 |
| 65° | 215 | 192 | 165 | 135 | 135 | 214 |
| 75° | 98 | 78 | 44 | 29 | 29 | 105 |
| 85° | 15 | 8 | 2 | 2 | 2 | 20 |
| 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° | 1244.5 | 1244.5 | 1244.5 | 1244.5 | 1244.5 | 1244.5 | 1244.5 | 1244.5 | 1244.5 |
| 2.5° | 1244.5 | 1244.5 | 1242.9 | 1242.9 | 1239.6 | 1239.6 | 1238.0 | 1238.0 | 1238.0 |
| 5° | 1252.6 | 1252.6 | 1249.4 | 1244.5 | 1241.2 | 1236.3 | 1236.3 | 1234.7 | 1233.1 |
| 7.5° | 1257.5 | 1255.9 | 1251.0 | 1244.5 | 1236.3 | 1228.2 | 1224.9 | 1226.6 | 1224.9 |
| 10° | 1255.9 | 1252.6 | 1246.1 | 1233.1 | 1223.3 | 1211.9 | 1210.3 | 1208.6 | 1210.3 |
| 12.5° | 1259.1 | 1254.3 | 1241.2 | 1224.9 | 1208.6 | 1195.6 | 1194.0 | 1194.0 | 1195.6 |
| 15° | 1260.8 | 1255.9 | 1239.6 | 1215.2 | 1192.4 | 1179.3 | 1177.6 | 1179.3 | 1181.0 |
| 17.5° | 1255.9 | 1249.4 | 1224.9 | 1192.4 | 1166.2 | 1153.1 | 1153.1 | 1156.4 | 1159.7 |
| 20° | 1238.0 | 1228.2 | 1194.0 | 1154.8 | 1125.4 | 1115.7 | 1118.9 | 1125.4 | 1128.7 |
| 22.5° | 1205.4 | 1194.0 | 1154.8 | 1110.8 | 1079.7 | 1071.6 | 1079.7 | 1088.0 | 1091.2 |
| 25° | 1167.8 | 1154.8 | 1109.2 | 1063.4 | 1030.8 | 1021.1 | 1032.5 | 1045.5 | 1050.4 |
| 27.5° | 1117.3 | 1102.6 | 1060.2 | 1008.0 | 975.3 | 970.4 | 983.5 | 998.3 | 1001.5 |
| 30° | 1056.9 | 1040.6 | 993.4 | 944.4 | 915.1 | 913.4 | 928.1 | 941.1 | 946.0 |
| 32.5° | 983.5 | 968.8 | 928.1 | 879.1 | 853.0 | 853.0 | 867.7 | 879.1 | 884.0 |
| 35° | 905.3 | 888.9 | 853.0 | 812.3 | 791.0 | 792.6 | 807.4 | 815.6 | 820.5 |
| 37.5° | 812.3 | 807.4 | 779.6 | 745.4 | 730.7 | 734.0 | 745.4 | 751.9 | 756.8 |
| 40° | 737.3 | 724.2 | 706.2 | 678.5 | 668.7 | 672.0 | 683.4 | 689.9 | 693.2 |
| 42.5° | 655.7 | 647.6 | 632.9 | 613.3 | 606.7 | 611.6 | 621.5 | 626.4 | 624.7 |
| 45° | 577.4 | 575.8 | 561.1 | 549.7 | 546.4 | 552.9 | 559.5 | 564.4 | 566.0 |
| 47.5° | 520.4 | 513.7 | 500.7 | 492.6 | 489.3 | 495.8 | 502.3 | 505.6 | 505.6 |
| 50° | 464.9 | 458.3 | 445.3 | 437.2 | 433.9 | 440.4 | 445.3 | 448.6 | 445.3 |
| 52.5° | 409.4 | 402.8 | 391.4 | 381.7 | 380.0 | 383.3 | 384.9 | 386.6 | 389.8 |
| 55° | 365.4 | 358.9 | 345.8 | 334.4 | 331.2 | 332.8 | 331.2 | 331.2 | 329.4 |
| 57.5° | 322.9 | 316.4 | 303.4 | 290.3 | 285.4 | 283.8 | 278.9 | 277.3 | 275.7 |
| 60° | 285.4 | 277.3 | 264.3 | 249.6 | 243.1 | 236.6 | 228.3 | 223.4 | 223.4 |
| 62.5° | 249.6 | 241.5 | 226.7 | 213.6 | 203.9 | 192.5 | 179.4 | 172.9 | 172.9 |
| 65° | 215.3 | 208.7 | 192.5 | 177.8 | 164.8 | 150.1 | 135.3 | 132.1 | 135.3 |
| 67.5° | 182.7 | 176.2 | 159.9 | 145.2 | 128.8 | 110.9 | 97.9 | 97.9 | 101.1 |
| 70° | 153.4 | 146.9 | 132.1 | 114.1 | 96.2 | 78.3 | 68.5 | 68.5 | 68.5 |
| 72.5° | 125.6 | 119.0 | 102.7 | 86.5 | 68.5 | 50.6 | 45.6 | 47.4 | 45.6 |
| 75° | 97.9 | 93.0 | 78.3 | 60.4 | 44.0 | 30.9 | 29.3 | 27.7 | 29.3 |
| 77.5° | 73.4 | 68.5 | 55.5 | 39.1 | 24.4 | 17.9 | 16.3 | 16.3 | 16.3 |
| 80° | 50.6 | 45.6 | 35.8 | 22.8 | 13.0 | 8.1 | 8.1 | 8.1 | 8.1 |
| 82.5° | 30.9 | 26.1 | 19.5 | 11.4 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 85° | 14.7 | 11.4 | 8.1 | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 87.5° | 3.3 | 3.3 | 1.6 | 1.6 | 0.0 | 1.6 | 1.6 | 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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