

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: P581990

Luminaire Tested: **HCC6S25D010MW-HM60525827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S25D010MW-HM60525827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

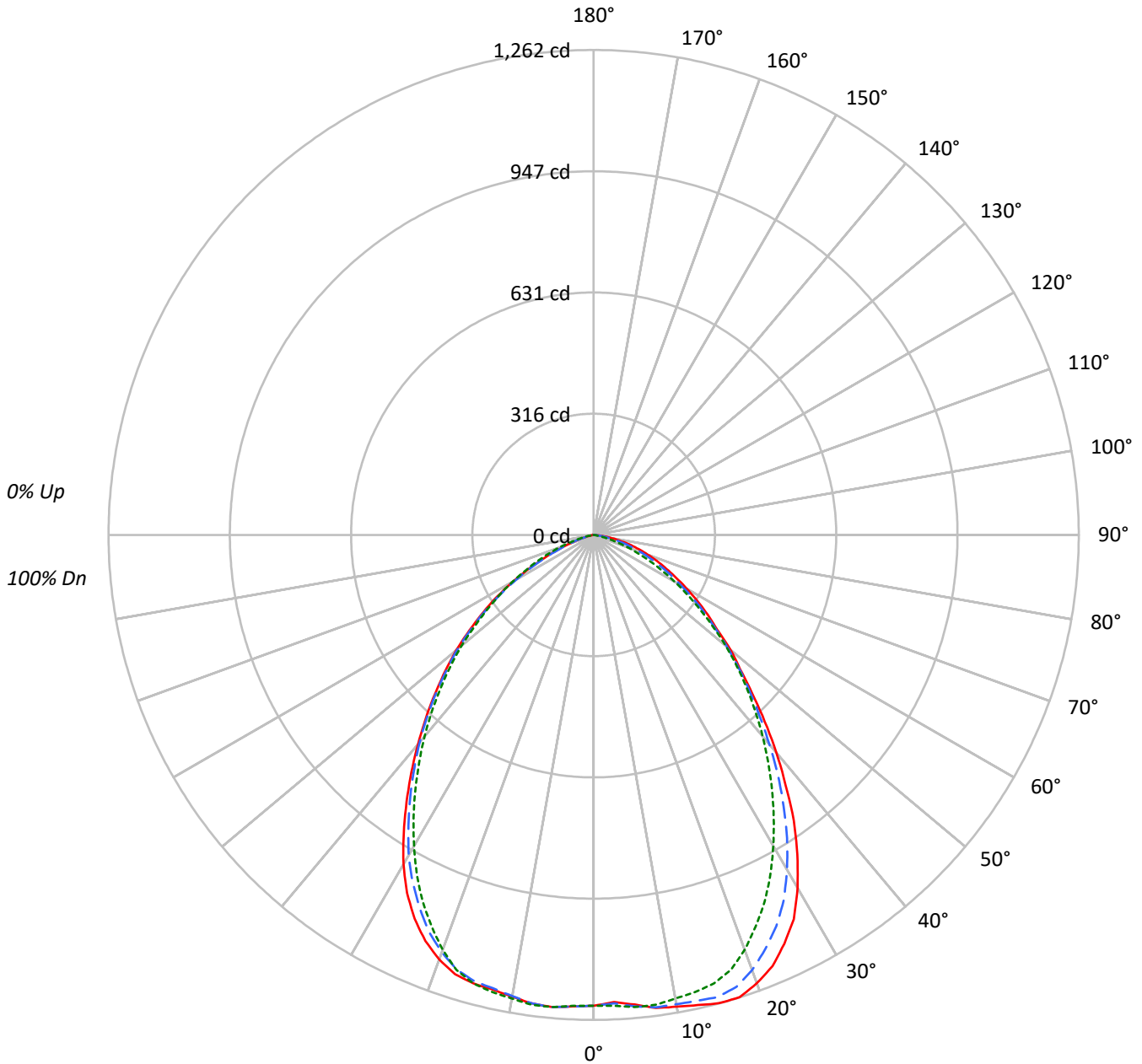
Lumens per Lamp: N/A
Luminaire Lumens: 2473.1 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | | | | |
| 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 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 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° | 67160 | 67160 | 67160 |
| 5° | 67505 | 67868 | 67868 |
| 10° | 69393 | 68196 | 67912 |
| 15° | 71595 | 68582 | 68582 |
| 20° | 72433 | 67007 | 68559 |
| 25° | 70988 | 63657 | 66663 |
| 30° | 67143 | 59155 | 62630 |
| 35° | 60759 | 54101 | 56764 |
| 40° | 52856 | 48942 | 50845 |
| 45° | 45167 | 43625 | 45167 |
| 50° | 39632 | 38225 | 39785 |
| 55° | 34589 | 32200 | 33471 |
| 60° | 30579 | 26752 | 26390 |
| 65° | 27124 | 21092 | 18095 |
| 70° | 23946 | 14906 | 10899 |
| 75° | 20376 | 8430 | 5274 |
| 80° | 15185 | 2620 | 1578 |
| 85° | 8366 | 1006 | 1006 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.5 | 4.8 |
| 10°-20° | 343.8 | 13.9 |
| 20°-30° | 502.1 | 20.3 |
| 30°-40° | 526.6 | 21.3 |
| 40°-50° | 443.6 | 17.9 |
| 50°-60° | 310.8 | 12.6 |
| 60°-70° | 166.6 | 6.7 |
| 70°-80° | 55.9 | 2.3 |
| 80°-90° | 6.1 | 0.2 |
| 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° | 963.4 | 39.0 |
| 0°-40° | 1490.0 | 60.2 |
| 0°-60° | 2244.5 | 90.8 |
| 0°-90° | 2473.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2473.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1225 | 1225 | 1225 | 1225 | 1225 | |
| 5° | 1227 | 1232 | 1233 | 1233 | 1233 | 118 |
| 15° | 1262 | 1245 | 1208 | 1202 | 1208 | 356 |
| 25° | 1174 | 1124 | 1052 | 1071 | 1102 | 538 |
| 35° | 908 | 861 | 808 | 832 | 848 | 564 |
| 45° | 583 | 573 | 563 | 578 | 583 | 454 |
| 55° | 362 | 350 | 337 | 344 | 350 | 326 |
| 65° | 209 | 191 | 163 | 134 | 140 | 209 |
| 75° | 96 | 75 | 40 | 25 | 25 | 102 |
| 85° | 13 | 7 | 2 | 2 | 2 | 18 |
| 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° | 1225.1 | 1225.1 | 1225.1 | 1225.1 | 1225.1 | 1225.1 | 1225.1 | 1225.1 | 1225.1 |
| 2.5° | 1216.7 | 1216.7 | 1220.0 | 1223.3 | 1226.7 | 1226.7 | 1228.3 | 1229.9 | 1228.3 |
| 5° | 1226.7 | 1226.7 | 1231.7 | 1233.3 | 1233.3 | 1231.7 | 1233.3 | 1233.3 | 1233.3 |
| 7.5° | 1241.6 | 1238.3 | 1240.0 | 1236.6 | 1233.3 | 1231.7 | 1229.9 | 1229.9 | 1229.9 |
| 10° | 1246.6 | 1243.2 | 1240.0 | 1233.3 | 1225.1 | 1220.0 | 1218.4 | 1220.0 | 1220.0 |
| 12.5° | 1253.3 | 1249.9 | 1241.6 | 1228.3 | 1218.4 | 1210.0 | 1208.4 | 1211.8 | 1211.8 |
| 15° | 1261.5 | 1258.3 | 1245.0 | 1223.3 | 1208.4 | 1200.1 | 1201.8 | 1205.1 | 1208.4 |
| 17.5° | 1261.5 | 1254.9 | 1233.3 | 1205.1 | 1186.8 | 1178.6 | 1185.2 | 1193.5 | 1198.5 |
| 20° | 1241.6 | 1235.0 | 1205.1 | 1170.2 | 1148.6 | 1143.7 | 1155.3 | 1170.2 | 1175.2 |
| 22.5° | 1215.0 | 1201.8 | 1166.9 | 1125.4 | 1102.1 | 1102.1 | 1118.8 | 1137.1 | 1143.7 |
| 25° | 1173.6 | 1163.5 | 1123.8 | 1075.6 | 1052.4 | 1050.8 | 1070.7 | 1095.5 | 1102.1 |
| 27.5° | 1127.1 | 1113.8 | 1070.7 | 1020.8 | 995.9 | 997.6 | 1019.2 | 1044.1 | 1050.8 |
| 30° | 1060.7 | 1044.1 | 1005.9 | 957.8 | 934.5 | 941.1 | 962.8 | 981.0 | 989.4 |
| 32.5° | 986.0 | 971.1 | 936.2 | 891.4 | 871.5 | 878.1 | 896.4 | 912.9 | 919.6 |
| 35° | 907.9 | 891.4 | 861.4 | 821.7 | 808.4 | 815.1 | 831.6 | 844.9 | 848.2 |
| 37.5° | 820.0 | 808.4 | 786.8 | 755.3 | 745.3 | 753.6 | 766.8 | 775.2 | 778.5 |
| 40° | 738.6 | 728.7 | 710.5 | 687.1 | 683.9 | 690.5 | 703.8 | 708.8 | 710.5 |
| 42.5° | 659.0 | 650.7 | 639.0 | 622.5 | 622.5 | 629.1 | 640.8 | 644.0 | 645.7 |
| 45° | 582.6 | 577.6 | 572.6 | 559.3 | 562.7 | 571.0 | 577.6 | 582.6 | 582.6 |
| 47.5° | 516.2 | 517.9 | 511.2 | 501.3 | 504.6 | 512.9 | 517.9 | 522.9 | 522.9 |
| 50° | 464.7 | 459.9 | 453.2 | 443.2 | 448.2 | 454.8 | 461.5 | 464.7 | 466.5 |
| 52.5° | 405.0 | 403.3 | 398.3 | 386.8 | 390.1 | 393.4 | 400.1 | 405.0 | 406.7 |
| 55° | 361.9 | 356.9 | 350.2 | 336.9 | 336.9 | 340.3 | 343.6 | 347.0 | 350.2 |
| 57.5° | 320.4 | 315.4 | 305.5 | 290.4 | 288.8 | 288.8 | 287.2 | 290.4 | 295.5 |
| 60° | 278.9 | 277.2 | 262.3 | 249.0 | 244.0 | 239.1 | 232.4 | 234.1 | 240.7 |
| 62.5° | 242.3 | 239.1 | 225.8 | 209.1 | 199.2 | 190.8 | 182.6 | 180.9 | 187.6 |
| 65° | 209.1 | 205.9 | 190.8 | 174.3 | 162.6 | 147.7 | 134.4 | 134.4 | 139.5 |
| 67.5° | 179.3 | 172.7 | 159.4 | 141.1 | 126.2 | 107.9 | 94.6 | 98.0 | 99.6 |
| 70° | 149.4 | 144.5 | 129.4 | 111.3 | 93.0 | 74.7 | 66.4 | 68.0 | 68.0 |
| 72.5° | 122.8 | 116.2 | 101.2 | 82.9 | 64.8 | 48.1 | 44.9 | 43.1 | 43.1 |
| 75° | 96.2 | 89.6 | 74.7 | 56.4 | 39.8 | 28.2 | 24.9 | 24.9 | 24.9 |
| 77.5° | 69.7 | 64.8 | 51.5 | 34.8 | 21.6 | 13.3 | 11.7 | 9.9 | 9.9 |
| 80° | 48.1 | 43.1 | 31.6 | 18.3 | 8.3 | 5.0 | 5.0 | 5.0 | 5.0 |
| 82.5° | 28.2 | 23.2 | 14.9 | 8.3 | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 13.3 | 9.9 | 6.6 | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 87.5° | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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