

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: P582207

Luminaire Tested: **HCC6S30D010MW-HM63040927-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582207
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: HCC6S30D010MW-HM63040927-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

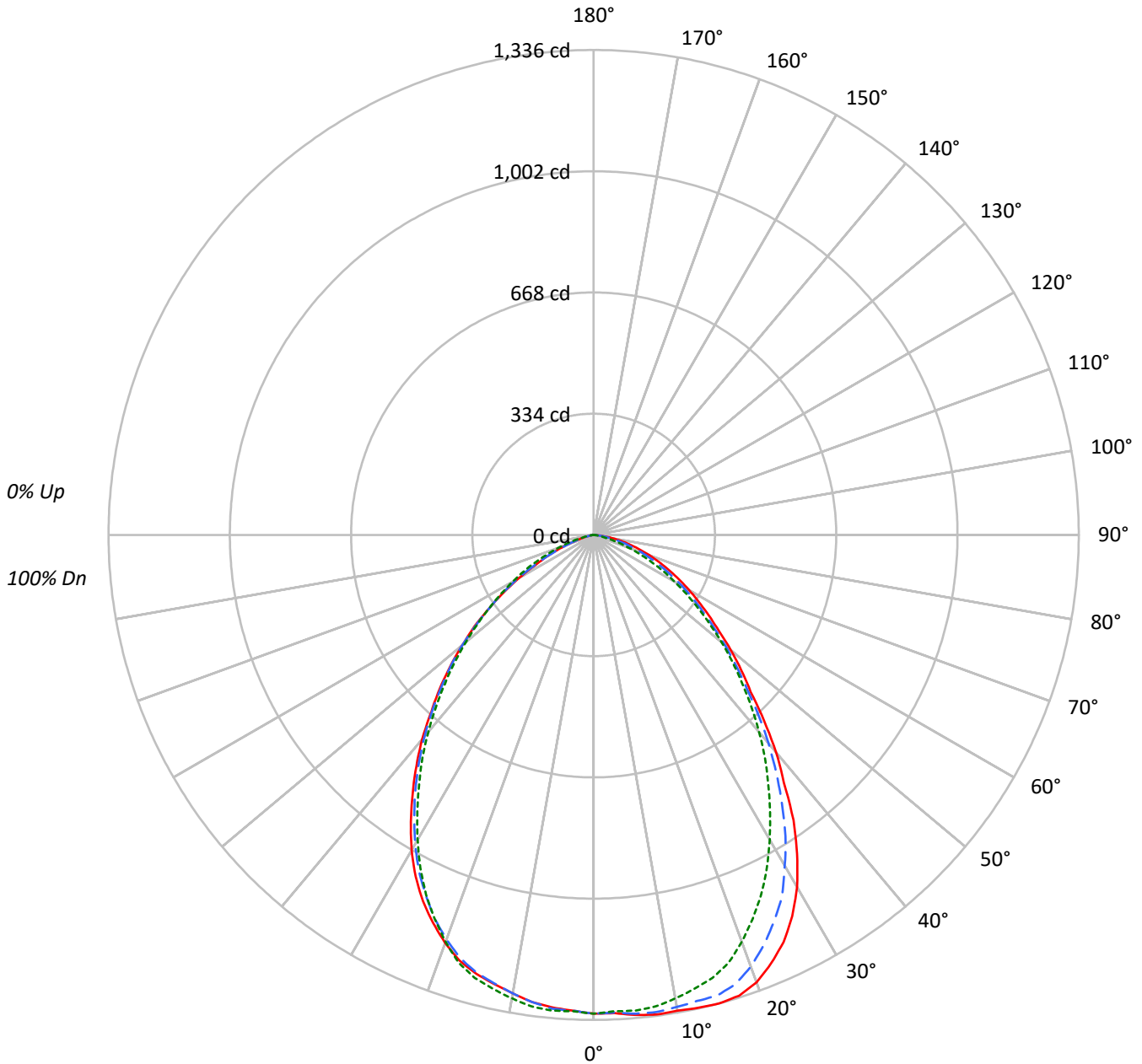
Lumens per Lamp: N/A
Luminaire Lumens: 2584.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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 | 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° | 72297 | 72297 | 72297 |
| 5° | 73046 | 72386 | 71907 |
| 10° | 74091 | 72165 | 71397 |
| 15° | 75829 | 71714 | 71022 |
| 20° | 76534 | 69580 | 69779 |
| 25° | 74859 | 66070 | 67328 |
| 30° | 70897 | 61377 | 63465 |
| 35° | 64199 | 56095 | 58183 |
| 40° | 55912 | 50709 | 52570 |
| 45° | 47439 | 44888 | 46493 |
| 50° | 42011 | 39214 | 40246 |
| 55° | 36997 | 33538 | 33366 |
| 60° | 33166 | 28232 | 25963 |
| 65° | 29601 | 22635 | 18614 |
| 70° | 26030 | 16349 | 11637 |
| 75° | 21965 | 9891 | 6608 |
| 80° | 16921 | 4357 | 2747 |
| 85° | 9812 | 1132 | 1132 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.2 | 4.8 |
| 10°-20° | 359.8 | 13.9 |
| 20°-30° | 520.1 | 20.1 |
| 30°-40° | 547.3 | 21.2 |
| 40°-50° | 460.0 | 17.8 |
| 50°-60° | 322.9 | 12.5 |
| 60°-70° | 177.6 | 6.9 |
| 70°-80° | 63.1 | 2.4 |
| 80°-90° | 8.3 | 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° | 1005.1 | 38.9 |
| 0°-40° | 1552.3 | 60.1 |
| 0°-60° | 2335.2 | 90.4 |
| 0°-90° | 2584.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2584.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1319 | 1319 | 1319 | 1319 | 1319 | |
| 5° | 1327 | 1324 | 1315 | 1310 | 1307 | 127 |
| 15° | 1336 | 1314 | 1264 | 1248 | 1251 | 377 |
| 25° | 1238 | 1175 | 1092 | 1094 | 1113 | 566 |
| 35° | 959 | 904 | 838 | 856 | 869 | 595 |
| 45° | 612 | 595 | 579 | 593 | 600 | 480 |
| 55° | 387 | 366 | 351 | 351 | 349 | 348 |
| 65° | 228 | 204 | 174 | 144 | 144 | 227 |
| 75° | 104 | 83 | 47 | 31 | 31 | 111 |
| 85° | 16 | 9 | 2 | 2 | 2 | 21 |
| 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° | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |
| 2.5° | 1318.8 | 1318.8 | 1317.1 | 1317.1 | 1313.6 | 1313.6 | 1311.9 | 1311.9 | 1311.9 |
| 5° | 1327.4 | 1327.4 | 1324.0 | 1318.8 | 1315.4 | 1310.2 | 1310.2 | 1308.5 | 1306.7 |
| 7.5° | 1332.6 | 1331.0 | 1325.7 | 1318.8 | 1310.2 | 1301.5 | 1298.0 | 1299.8 | 1298.0 |
| 10° | 1331.0 | 1327.4 | 1320.5 | 1306.7 | 1296.4 | 1284.2 | 1282.6 | 1280.8 | 1282.6 |
| 12.5° | 1334.4 | 1329.2 | 1315.4 | 1298.0 | 1280.8 | 1267.0 | 1265.2 | 1265.2 | 1267.0 |
| 15° | 1336.1 | 1331.0 | 1313.6 | 1287.7 | 1263.6 | 1249.6 | 1248.0 | 1249.6 | 1251.4 |
| 17.5° | 1331.0 | 1324.0 | 1298.0 | 1263.6 | 1235.8 | 1222.1 | 1222.1 | 1225.5 | 1229.0 |
| 20° | 1311.9 | 1301.5 | 1265.2 | 1223.7 | 1192.7 | 1182.2 | 1185.7 | 1192.7 | 1196.1 |
| 22.5° | 1277.3 | 1265.2 | 1223.7 | 1177.1 | 1144.3 | 1135.6 | 1144.3 | 1152.9 | 1156.3 |
| 25° | 1237.6 | 1223.7 | 1175.3 | 1126.9 | 1092.3 | 1082.0 | 1094.1 | 1107.9 | 1113.1 |
| 27.5° | 1184.0 | 1168.4 | 1123.5 | 1068.2 | 1033.6 | 1028.5 | 1042.3 | 1057.9 | 1061.3 |
| 30° | 1120.0 | 1102.8 | 1052.6 | 1000.8 | 969.6 | 968.0 | 983.5 | 997.3 | 1002.6 |
| 32.5° | 1042.3 | 1026.7 | 983.5 | 931.6 | 904.0 | 904.0 | 919.6 | 931.6 | 936.8 |
| 35° | 959.3 | 942.0 | 904.0 | 860.7 | 838.2 | 840.0 | 855.6 | 864.3 | 869.4 |
| 37.5° | 860.7 | 855.6 | 826.2 | 789.9 | 774.4 | 777.8 | 789.9 | 796.9 | 802.0 |
| 40° | 781.3 | 767.4 | 748.5 | 719.0 | 708.6 | 712.1 | 724.2 | 731.1 | 734.6 |
| 42.5° | 694.9 | 686.2 | 670.6 | 649.9 | 643.0 | 648.1 | 658.6 | 663.7 | 662.0 |
| 45° | 611.9 | 610.2 | 594.6 | 582.5 | 579.0 | 585.9 | 592.8 | 598.1 | 599.7 |
| 47.5° | 551.3 | 544.4 | 530.7 | 522.0 | 518.5 | 525.4 | 532.3 | 535.8 | 535.8 |
| 50° | 492.6 | 485.7 | 471.9 | 463.2 | 459.8 | 466.7 | 471.9 | 475.4 | 471.9 |
| 52.5° | 433.9 | 427.0 | 414.8 | 404.5 | 402.7 | 406.2 | 407.9 | 409.6 | 413.1 |
| 55° | 387.1 | 380.2 | 366.4 | 354.3 | 350.9 | 352.7 | 350.9 | 350.9 | 349.1 |
| 57.5° | 342.2 | 335.3 | 321.5 | 307.7 | 302.5 | 300.7 | 295.6 | 293.8 | 292.1 |
| 60° | 302.5 | 293.8 | 280.0 | 264.4 | 257.5 | 250.6 | 242.0 | 236.8 | 236.8 |
| 62.5° | 264.4 | 255.8 | 240.3 | 226.4 | 216.0 | 203.9 | 190.1 | 183.2 | 183.2 |
| 65° | 228.2 | 221.3 | 203.9 | 188.5 | 174.5 | 159.0 | 143.5 | 140.1 | 143.5 |
| 67.5° | 193.6 | 186.7 | 169.4 | 153.9 | 136.5 | 117.6 | 103.7 | 103.7 | 107.1 |
| 70° | 162.4 | 155.5 | 140.1 | 121.0 | 102.0 | 83.0 | 72.6 | 72.6 | 72.6 |
| 72.5° | 133.0 | 126.2 | 108.9 | 91.6 | 72.6 | 53.6 | 48.4 | 50.2 | 48.4 |
| 75° | 103.7 | 98.6 | 83.0 | 64.0 | 46.7 | 32.8 | 31.2 | 29.4 | 31.2 |
| 77.5° | 77.8 | 72.6 | 58.7 | 41.5 | 25.9 | 19.0 | 17.2 | 17.2 | 17.2 |
| 80° | 53.6 | 48.4 | 38.0 | 24.3 | 13.8 | 8.7 | 8.7 | 8.7 | 8.7 |
| 82.5° | 32.8 | 27.7 | 20.7 | 12.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 85° | 15.6 | 12.1 | 8.7 | 3.4 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 87.5° | 3.4 | 3.4 | 1.8 | 1.8 | 0.0 | 1.8 | 1.8 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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

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