

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: P582215

Luminaire Tested: **HCC6S30D010SL-HM63040927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582215
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: HCC6S30D010SL-HM63040927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

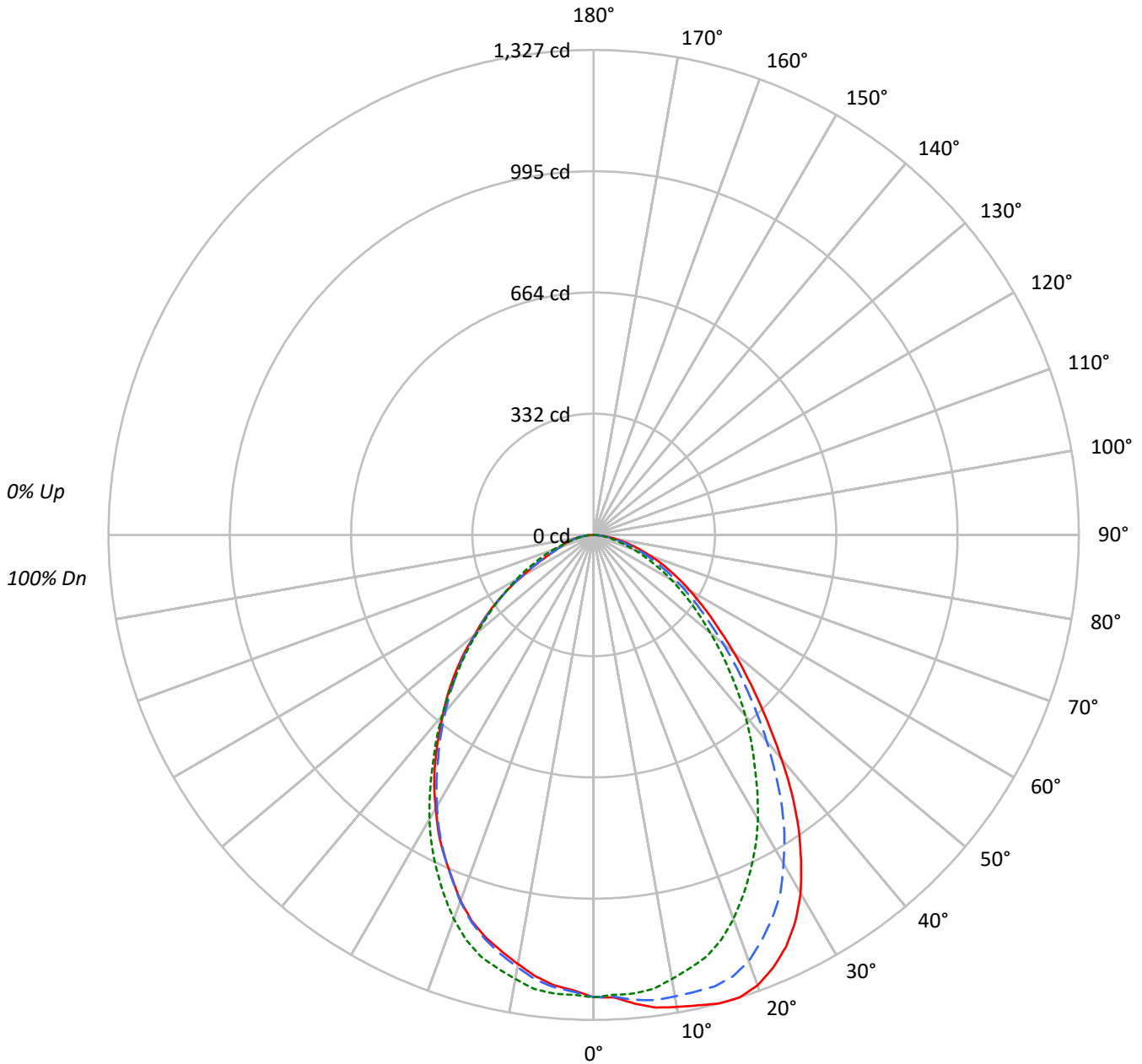
Lumens per Lamp: N/A
Luminaire Lumens: 2477.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 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 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 69342 | 69342 | 69342 |
| 5° | 70840 | 69315 | 68083 |
| 10° | 73006 | 68675 | 66370 |
| 15° | 75313 | 67764 | 64728 |
| 20° | 76511 | 65222 | 62095 |
| 25° | 75252 | 61352 | 58528 |
| 30° | 71644 | 56876 | 54686 |
| 35° | 65337 | 51337 | 50534 |
| 40° | 57128 | 46129 | 45879 |
| 45° | 49160 | 40586 | 41524 |
| 50° | 42728 | 35368 | 36101 |
| 55° | 37322 | 31043 | 31378 |
| 60° | 33155 | 26906 | 24625 |
| 65° | 29588 | 22635 | 18835 |
| 70° | 26030 | 18561 | 15772 |
| 75° | 22303 | 14636 | 15017 |
| 80° | 18026 | 12533 | 14711 |
| 85° | 11951 | 10819 | 13020 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.8 | 4.8 |
| 10°-20° | 340.9 | 13.8 |
| 20°-30° | 486.7 | 19.6 |
| 30°-40° | 509.8 | 20.6 |
| 40°-50° | 429.2 | 17.3 |
| 50°-60° | 305.5 | 12.3 |
| 60°-70° | 178.8 | 7.2 |
| 70°-80° | 84.6 | 3.4 |
| 80°-90° | 21.8 | 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° | 947.4 | 38.2 |
| 0°-40° | 1457.1 | 58.8 |
| 0°-60° | 2191.8 | 88.5 |
| 0°-90° | 2477.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2477.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1265 | 1265 | 1265 | 1265 | 1265 | |
| 5° | 1287 | 1277 | 1260 | 1242 | 1237 | 124 |
| 15° | 1327 | 1279 | 1194 | 1146 | 1140 | 375 |
| 25° | 1244 | 1156 | 1014 | 966 | 968 | 569 |
| 35° | 976 | 895 | 767 | 741 | 755 | 606 |
| 45° | 634 | 588 | 524 | 525 | 536 | 492 |
| 55° | 390 | 358 | 325 | 325 | 328 | 352 |
| 65° | 228 | 202 | 174 | 147 | 145 | 227 |
| 75° | 105 | 88 | 69 | 67 | 71 | 113 |
| 85° | 19 | 16 | 17 | 21 | 21 | 25 |
| 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° | 1264.9 | 1264.9 | 1264.9 | 1264.9 | 1264.9 | 1264.9 | 1264.9 | 1264.9 | 1264.9 |
| 2.5° | 1266.5 | 1266.5 | 1264.9 | 1263.1 | 1259.6 | 1254.5 | 1251.1 | 1247.6 | 1247.6 |
| 5° | 1287.3 | 1283.9 | 1277.0 | 1268.3 | 1259.6 | 1249.3 | 1242.4 | 1237.2 | 1237.2 |
| 7.5° | 1304.6 | 1297.7 | 1283.9 | 1268.3 | 1252.7 | 1238.9 | 1226.8 | 1219.9 | 1218.1 |
| 10° | 1311.5 | 1302.9 | 1282.1 | 1258.0 | 1233.7 | 1214.7 | 1200.9 | 1192.3 | 1192.3 |
| 12.5° | 1318.4 | 1308.0 | 1280.4 | 1245.8 | 1214.7 | 1188.8 | 1175.0 | 1168.1 | 1166.4 |
| 15° | 1327.0 | 1313.3 | 1278.7 | 1235.5 | 1194.0 | 1164.6 | 1145.6 | 1140.5 | 1140.5 |
| 17.5° | 1327.0 | 1309.8 | 1266.5 | 1213.0 | 1161.2 | 1128.4 | 1111.0 | 1105.9 | 1107.6 |
| 20° | 1311.5 | 1292.4 | 1240.6 | 1175.0 | 1118.0 | 1083.4 | 1066.2 | 1062.7 | 1064.4 |
| 22.5° | 1282.1 | 1259.6 | 1200.9 | 1130.0 | 1067.8 | 1031.6 | 1016.0 | 1016.0 | 1014.3 |
| 25° | 1244.1 | 1219.9 | 1155.9 | 1081.6 | 1014.3 | 978.0 | 965.9 | 967.6 | 967.6 |
| 27.5° | 1194.0 | 1169.9 | 1105.9 | 1026.3 | 959.0 | 922.7 | 914.1 | 917.6 | 919.2 |
| 30° | 1131.8 | 1105.9 | 1038.5 | 960.7 | 898.5 | 862.3 | 857.0 | 862.3 | 863.9 |
| 32.5° | 1055.7 | 1036.8 | 971.1 | 891.6 | 832.9 | 801.7 | 800.1 | 805.2 | 812.1 |
| 35° | 976.3 | 955.6 | 895.1 | 822.6 | 767.1 | 741.2 | 741.2 | 749.9 | 755.1 |
| 37.5° | 889.8 | 869.2 | 813.9 | 753.4 | 706.7 | 682.5 | 685.9 | 694.6 | 696.4 |
| 40° | 798.3 | 782.7 | 736.1 | 684.3 | 644.6 | 625.5 | 630.6 | 639.3 | 641.1 |
| 42.5° | 711.9 | 698.1 | 660.0 | 613.4 | 584.0 | 570.2 | 577.1 | 587.5 | 590.9 |
| 45° | 634.1 | 618.6 | 587.5 | 547.8 | 523.5 | 516.6 | 525.3 | 532.2 | 535.6 |
| 47.5° | 563.3 | 549.4 | 523.5 | 487.3 | 470.0 | 466.6 | 475.1 | 478.7 | 482.1 |
| 50° | 501.0 | 487.3 | 461.3 | 428.5 | 414.7 | 414.7 | 421.6 | 425.1 | 423.3 |
| 52.5° | 440.6 | 428.5 | 404.4 | 376.7 | 368.0 | 368.0 | 373.2 | 375.0 | 378.5 |
| 55° | 390.5 | 378.5 | 357.7 | 331.7 | 324.8 | 321.4 | 324.8 | 324.8 | 328.3 |
| 57.5° | 343.9 | 333.5 | 314.5 | 290.2 | 281.7 | 278.2 | 276.4 | 274.8 | 278.2 |
| 60° | 302.4 | 293.8 | 273.0 | 252.3 | 245.4 | 236.7 | 229.8 | 222.9 | 224.6 |
| 62.5° | 264.3 | 255.8 | 236.7 | 216.0 | 209.0 | 197.0 | 188.3 | 179.7 | 183.1 |
| 65° | 228.1 | 219.5 | 202.1 | 184.9 | 174.5 | 160.8 | 146.8 | 141.7 | 145.2 |
| 67.5° | 195.2 | 188.3 | 171.1 | 153.7 | 145.2 | 129.6 | 115.8 | 115.8 | 117.5 |
| 70° | 162.4 | 155.5 | 141.7 | 126.2 | 115.8 | 101.9 | 96.8 | 98.4 | 98.4 |
| 72.5° | 133.0 | 127.8 | 114.0 | 100.2 | 89.9 | 81.2 | 81.2 | 83.0 | 84.7 |
| 75° | 105.3 | 101.9 | 88.1 | 76.0 | 69.1 | 64.0 | 67.4 | 69.1 | 70.9 |
| 77.5° | 81.2 | 76.0 | 65.6 | 57.1 | 51.8 | 53.6 | 57.1 | 58.7 | 60.5 |
| 80° | 57.1 | 55.3 | 46.6 | 41.5 | 39.7 | 41.5 | 44.9 | 46.6 | 46.6 |
| 82.5° | 36.3 | 34.6 | 29.4 | 27.7 | 27.7 | 29.4 | 32.8 | 32.8 | 32.8 |
| 85° | 19.0 | 17.2 | 15.6 | 15.6 | 17.2 | 19.0 | 20.7 | 20.7 | 20.7 |
| 87.5° | 6.9 | 5.2 | 6.9 | 6.9 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Peachtree City, GA 30269

Scaled Data Report



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

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