

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: P582213

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S30D010SL-HM63040927-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

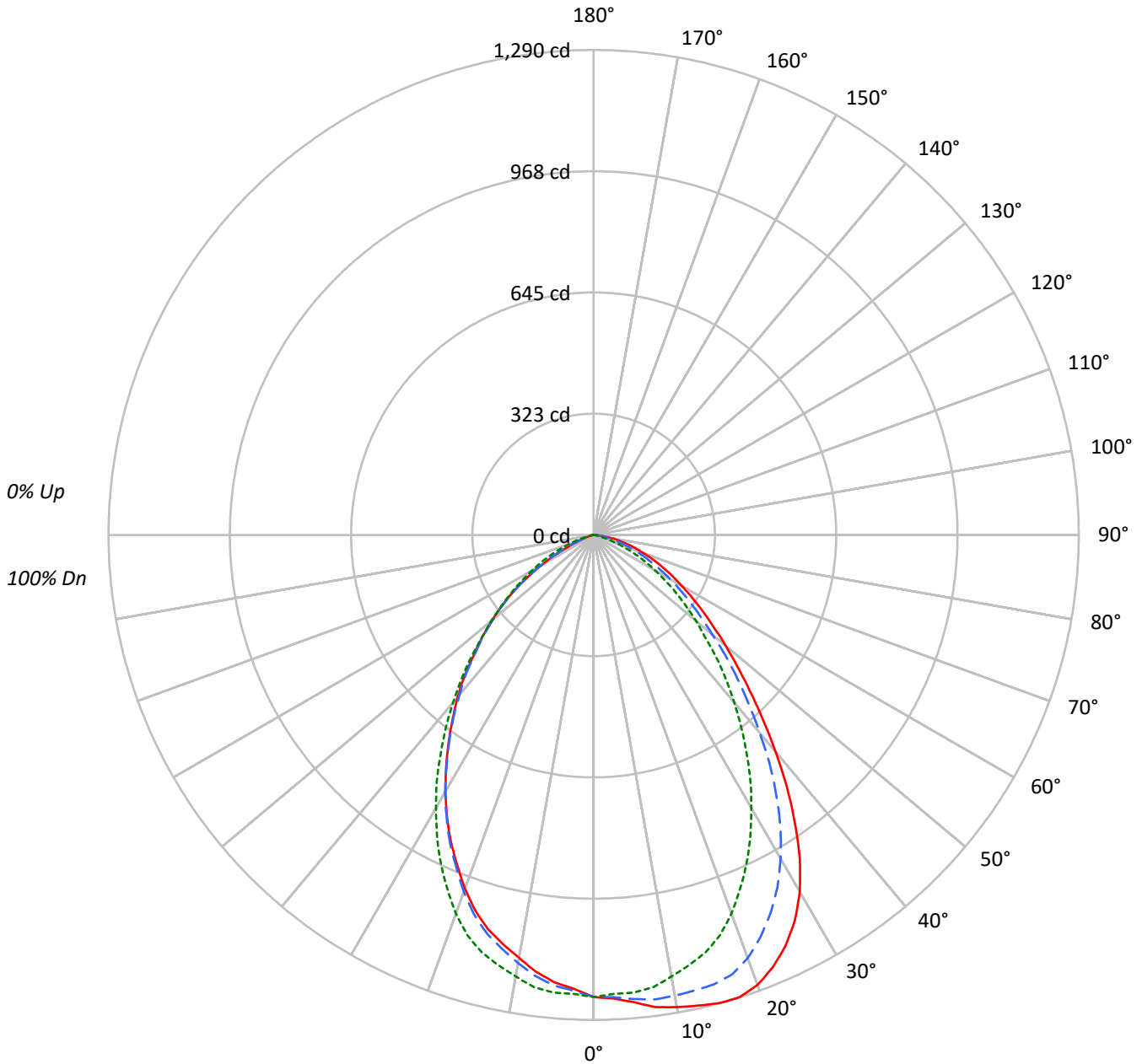
Lumens per Lamp: N/A
Luminaire Lumens: 2190.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 67374 | 67374 | 67374 |
| 5° | 68677 | 67252 | 65727 |
| 10° | 71013 | 66393 | 63598 |
| 15° | 73184 | 65239 | 61612 |
| 20° | 74317 | 62515 | 58385 |
| 25° | 72978 | 58231 | 54372 |
| 30° | 69371 | 53071 | 49894 |
| 35° | 62352 | 47422 | 44999 |
| 40° | 53808 | 41564 | 40204 |
| 45° | 45563 | 35787 | 34841 |
| 50° | 39061 | 30216 | 29927 |
| 55° | 33863 | 25442 | 24458 |
| 60° | 29570 | 20667 | 17433 |
| 65° | 26008 | 15916 | 9638 |
| 70° | 22456 | 10515 | 4712 |
| 75° | 19042 | 5147 | 1843 |
| 80° | 14743 | 2178 | 1073 |
| 85° | 8680 | 1132 | 1132 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.0 | 5.3 |
| 10°-20° | 328.0 | 15.0 |
| 20°-30° | 461.8 | 21.1 |
| 30°-40° | 471.9 | 21.5 |
| 40°-50° | 380.5 | 17.4 |
| 50°-60° | 255.2 | 11.7 |
| 60°-70° | 129.1 | 5.9 |
| 70°-80° | 41.3 | 1.9 |
| 80°-90° | 6.4 | 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° | 905.8 | 41.4 |
| 0°-40° | 1377.7 | 62.9 |
| 0°-60° | 2013.3 | 91.9 |
| 0°-90° | 2190.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2190.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1229 | 1229 | 1229 | 1229 | 1229 | |
| 5° | 1248 | 1239 | 1222 | 1203 | 1194 | 120 |
| 15° | 1290 | 1238 | 1150 | 1098 | 1086 | 364 |
| 25° | 1206 | 1112 | 963 | 904 | 899 | 552 |
| 35° | 932 | 847 | 709 | 669 | 672 | 580 |
| 45° | 588 | 541 | 462 | 446 | 449 | 457 |
| 55° | 354 | 315 | 266 | 254 | 256 | 319 |
| 65° | 200 | 166 | 123 | 81 | 74 | 200 |
| 75° | 90 | 64 | 24 | 9 | 9 | 97 |
| 85° | 14 | 7 | 2 | 2 | 2 | 19 |
| 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° | 1229.0 | 1229.0 | 1229.0 | 1229.0 | 1229.0 | 1229.0 | 1229.0 | 1229.0 | 1229.0 |
| 2.5° | 1234.2 | 1232.4 | 1230.7 | 1227.3 | 1222.1 | 1216.8 | 1213.4 | 1209.9 | 1208.3 |
| 5° | 1248.0 | 1244.5 | 1239.3 | 1232.4 | 1222.1 | 1209.9 | 1203.0 | 1196.1 | 1194.4 |
| 7.5° | 1267.0 | 1260.1 | 1246.3 | 1230.7 | 1213.4 | 1196.1 | 1184.0 | 1177.1 | 1172.0 |
| 10° | 1275.7 | 1263.6 | 1244.5 | 1218.6 | 1192.7 | 1172.0 | 1156.4 | 1146.0 | 1142.5 |
| 12.5° | 1282.6 | 1268.8 | 1241.1 | 1206.5 | 1172.0 | 1144.3 | 1127.1 | 1118.4 | 1114.9 |
| 15° | 1289.5 | 1275.7 | 1237.6 | 1192.7 | 1149.5 | 1116.6 | 1097.6 | 1089.0 | 1085.6 |
| 17.5° | 1289.5 | 1270.4 | 1225.5 | 1168.4 | 1116.6 | 1076.9 | 1057.9 | 1049.2 | 1047.5 |
| 20° | 1273.9 | 1253.2 | 1197.9 | 1130.5 | 1071.6 | 1026.7 | 1009.5 | 1004.2 | 1000.8 |
| 22.5° | 1244.5 | 1220.4 | 1158.1 | 1082.1 | 1018.1 | 974.9 | 955.8 | 952.4 | 948.9 |
| 25° | 1206.5 | 1182.3 | 1111.5 | 1030.1 | 962.7 | 919.6 | 904.0 | 900.5 | 898.9 |
| 27.5° | 1158.1 | 1132.2 | 1057.9 | 974.9 | 902.3 | 860.8 | 846.9 | 846.9 | 845.3 |
| 30° | 1095.9 | 1066.5 | 993.9 | 910.9 | 838.4 | 800.3 | 790.0 | 790.0 | 788.2 |
| 32.5° | 1019.8 | 990.4 | 924.8 | 845.3 | 776.1 | 736.3 | 727.7 | 731.1 | 729.5 |
| 35° | 931.7 | 907.4 | 846.9 | 769.2 | 708.6 | 672.4 | 668.9 | 672.4 | 672.4 |
| 37.5° | 843.5 | 821.0 | 769.2 | 701.7 | 644.8 | 611.9 | 611.9 | 617.1 | 615.3 |
| 40° | 751.9 | 734.6 | 686.2 | 627.4 | 580.8 | 558.4 | 554.9 | 560.0 | 561.8 |
| 42.5° | 665.5 | 651.7 | 610.2 | 561.8 | 520.3 | 497.8 | 502.9 | 506.5 | 508.2 |
| 45° | 587.7 | 573.8 | 541.0 | 490.9 | 461.6 | 446.0 | 446.0 | 451.1 | 449.4 |
| 47.5° | 518.5 | 508.2 | 475.4 | 427.0 | 401.0 | 394.2 | 397.6 | 401.0 | 401.0 |
| 50° | 458.0 | 442.5 | 411.4 | 373.3 | 354.3 | 345.8 | 349.2 | 350.9 | 350.9 |
| 52.5° | 401.0 | 390.7 | 359.6 | 325.0 | 307.7 | 302.5 | 302.5 | 304.3 | 304.3 |
| 55° | 354.3 | 342.2 | 314.6 | 280.0 | 266.2 | 259.3 | 254.1 | 252.3 | 255.9 |
| 57.5° | 309.4 | 299.0 | 273.1 | 240.3 | 224.7 | 217.8 | 207.5 | 203.9 | 207.5 |
| 60° | 269.7 | 261.0 | 235.1 | 203.9 | 188.5 | 174.5 | 162.5 | 155.5 | 159.0 |
| 62.5° | 235.1 | 224.7 | 198.8 | 172.9 | 155.5 | 140.1 | 121.0 | 110.6 | 115.8 |
| 65° | 200.5 | 191.9 | 166.0 | 140.1 | 122.7 | 103.7 | 81.2 | 74.3 | 74.3 |
| 67.5° | 169.4 | 160.8 | 136.5 | 114.0 | 93.3 | 70.9 | 50.2 | 48.4 | 50.2 |
| 70° | 140.1 | 131.4 | 110.6 | 88.1 | 65.6 | 43.2 | 29.4 | 29.4 | 29.4 |
| 72.5° | 115.8 | 105.5 | 86.4 | 64.0 | 41.5 | 22.5 | 15.6 | 17.2 | 17.2 |
| 75° | 89.9 | 81.2 | 64.0 | 43.2 | 24.3 | 10.3 | 8.7 | 8.7 | 8.7 |
| 77.5° | 67.4 | 60.5 | 44.9 | 27.7 | 12.1 | 3.4 | 3.4 | 3.4 | 3.4 |
| 80° | 46.7 | 39.7 | 29.4 | 17.2 | 6.9 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 27.7 | 24.3 | 17.2 | 8.7 | 3.4 | 1.8 | 1.8 | 1.8 | 1.8 |
| 85° | 13.8 | 12.1 | 6.9 | 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



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Scaled Data Report



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

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