

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: P582105

Luminaire Tested: **HCC6S25D010MB-HM60525935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582105
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: HCC6S25D010MB-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

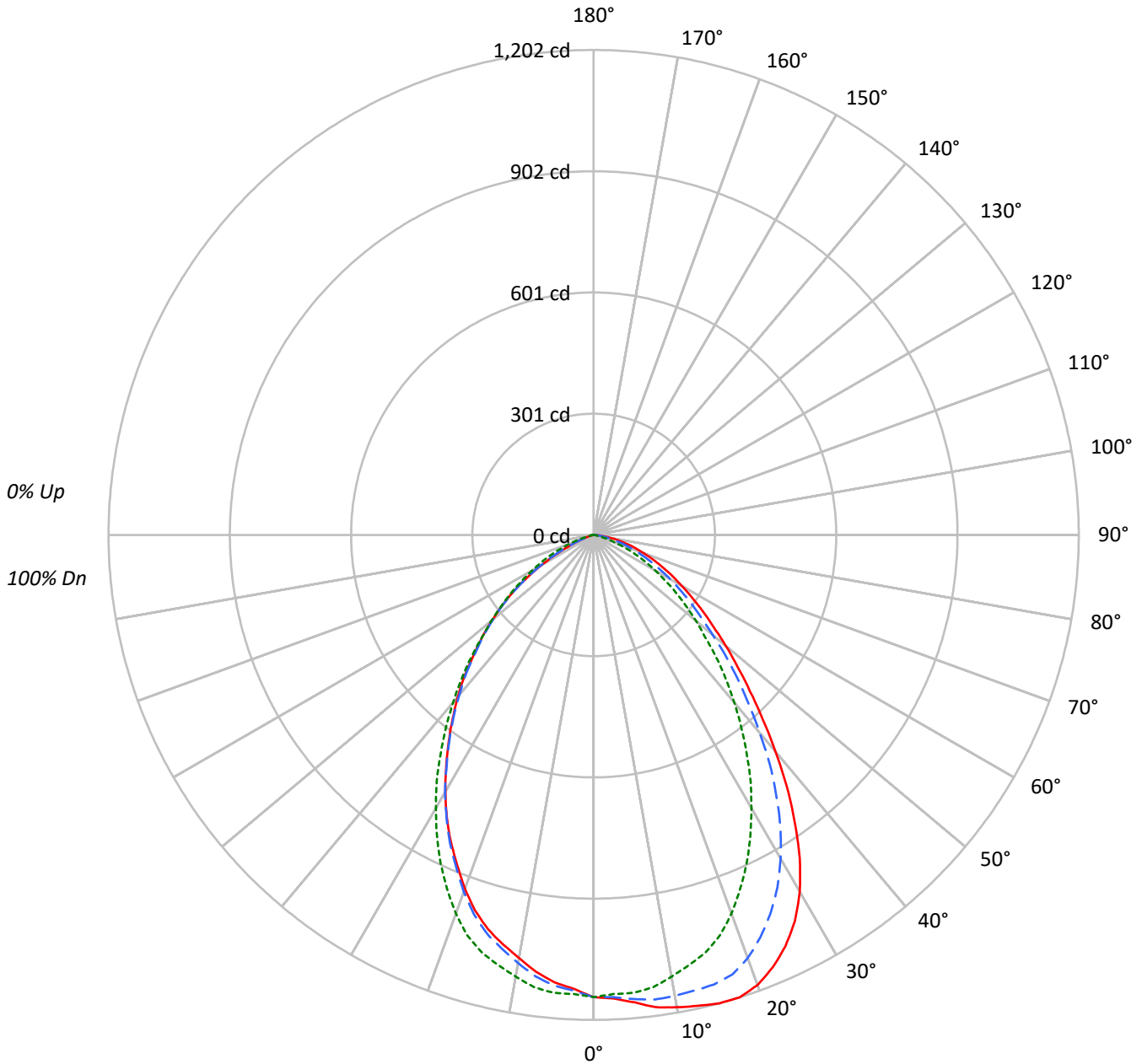
Lumens per Lamp: N/A
Luminaire Lumens: 2041.2 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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° | 62791 | 62791 | 62791 |
| 5° | 64010 | 62679 | 61259 |
| 10° | 66176 | 61873 | 59273 |
| 15° | 68207 | 60801 | 57418 |
| 20° | 69259 | 58268 | 54412 |
| 25° | 68012 | 54275 | 50676 |
| 30° | 64649 | 49463 | 46501 |
| 35° | 58109 | 44203 | 41934 |
| 40° | 50151 | 38737 | 37463 |
| 45° | 42462 | 33352 | 32476 |
| 50° | 36408 | 28170 | 27888 |
| 55° | 31569 | 23712 | 22785 |
| 60° | 27564 | 19242 | 16249 |
| 65° | 24231 | 14839 | 8989 |
| 70° | 20901 | 9825 | 4392 |
| 75° | 17750 | 4787 | 1694 |
| 80° | 13733 | 2020 | 1042 |
| 85° | 8114 | 1006 | 1006 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.1 | 5.3 |
| 10°-20° | 305.7 | 15.0 |
| 20°-30° | 430.4 | 21.1 |
| 30°-40° | 439.8 | 21.5 |
| 40°-50° | 354.6 | 17.4 |
| 50°-60° | 237.8 | 11.7 |
| 60°-70° | 120.4 | 5.9 |
| 70°-80° | 38.5 | 1.9 |
| 80°-90° | 5.9 | 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° | 844.2 | 41.4 |
| 0°-40° | 1284.0 | 62.9 |
| 0°-60° | 1876.4 | 91.9 |
| 0°-90° | 2041.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2041.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1145 | 1145 | 1145 | 1145 | 1145 | |
| 5° | 1163 | 1155 | 1139 | 1121 | 1113 | 112 |
| 15° | 1202 | 1153 | 1071 | 1023 | 1012 | 339 |
| 25° | 1124 | 1036 | 897 | 842 | 838 | 515 |
| 35° | 868 | 789 | 660 | 624 | 627 | 540 |
| 45° | 548 | 504 | 430 | 416 | 419 | 426 |
| 55° | 330 | 293 | 248 | 237 | 238 | 297 |
| 65° | 187 | 155 | 114 | 76 | 69 | 187 |
| 75° | 84 | 60 | 23 | 8 | 8 | 90 |
| 85° | 13 | 6 | 2 | 2 | 2 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P582105

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1145.4 | 1145.4 | 1145.4 | 1145.4 | 1145.4 | 1145.4 | 1145.4 | 1145.4 | 1145.4 |
| 2.5° | 1150.3 | 1148.6 | 1147.0 | 1143.7 | 1139.0 | 1134.1 | 1130.8 | 1127.7 | 1126.1 |
| 5° | 1163.2 | 1159.9 | 1155.0 | 1148.6 | 1139.0 | 1127.7 | 1121.2 | 1114.8 | 1113.2 |
| 7.5° | 1180.8 | 1174.4 | 1161.5 | 1147.0 | 1130.8 | 1114.8 | 1103.5 | 1097.0 | 1092.2 |
| 10° | 1188.8 | 1177.6 | 1159.9 | 1135.7 | 1111.5 | 1092.2 | 1077.7 | 1068.1 | 1064.8 |
| 12.5° | 1195.4 | 1182.5 | 1156.6 | 1124.4 | 1092.2 | 1066.4 | 1050.4 | 1042.2 | 1039.1 |
| 15° | 1201.8 | 1188.8 | 1153.4 | 1111.5 | 1071.3 | 1040.6 | 1022.9 | 1014.9 | 1011.7 |
| 17.5° | 1201.8 | 1184.1 | 1142.1 | 1089.0 | 1040.6 | 1003.7 | 985.9 | 977.8 | 976.2 |
| 20° | 1187.2 | 1167.9 | 1116.4 | 1053.5 | 998.8 | 956.9 | 940.8 | 936.0 | 932.7 |
| 22.5° | 1159.9 | 1137.3 | 1079.3 | 1008.4 | 948.9 | 908.6 | 890.9 | 887.6 | 884.4 |
| 25° | 1124.4 | 1101.9 | 1035.9 | 960.2 | 897.3 | 857.1 | 842.5 | 839.3 | 837.8 |
| 27.5° | 1079.3 | 1055.2 | 985.9 | 908.6 | 840.9 | 802.3 | 789.4 | 789.4 | 787.8 |
| 30° | 1021.3 | 994.0 | 926.3 | 849.0 | 781.4 | 745.9 | 736.3 | 736.3 | 734.6 |
| 32.5° | 950.4 | 923.1 | 861.8 | 787.8 | 723.4 | 686.3 | 678.2 | 681.4 | 679.9 |
| 35° | 868.3 | 845.8 | 789.4 | 716.8 | 660.5 | 626.6 | 623.5 | 626.6 | 626.6 |
| 37.5° | 786.1 | 765.2 | 716.8 | 654.1 | 600.9 | 570.2 | 570.2 | 575.1 | 573.5 |
| 40° | 700.8 | 684.6 | 639.5 | 584.8 | 541.3 | 520.4 | 517.1 | 522.0 | 523.5 |
| 42.5° | 620.2 | 607.3 | 568.6 | 523.5 | 484.9 | 464.0 | 468.7 | 472.0 | 473.6 |
| 45° | 547.7 | 534.8 | 504.2 | 457.5 | 430.2 | 415.6 | 415.6 | 420.5 | 418.9 |
| 47.5° | 483.3 | 473.6 | 443.1 | 398.0 | 373.8 | 367.3 | 370.5 | 373.8 | 373.8 |
| 50° | 426.9 | 412.4 | 383.4 | 348.0 | 330.3 | 322.1 | 325.4 | 327.0 | 327.0 |
| 52.5° | 373.8 | 364.1 | 335.1 | 302.9 | 286.8 | 281.9 | 281.9 | 283.6 | 283.6 |
| 55° | 330.3 | 319.0 | 293.2 | 261.0 | 248.1 | 241.7 | 236.8 | 235.2 | 238.4 |
| 57.5° | 288.3 | 278.7 | 254.5 | 223.9 | 209.4 | 203.0 | 193.3 | 190.1 | 193.3 |
| 60° | 251.4 | 243.2 | 219.1 | 190.1 | 175.5 | 162.8 | 151.5 | 145.0 | 148.2 |
| 62.5° | 219.1 | 209.4 | 185.3 | 161.1 | 145.0 | 130.4 | 112.8 | 103.1 | 107.9 |
| 65° | 186.8 | 178.8 | 154.6 | 130.4 | 114.4 | 96.6 | 75.7 | 69.3 | 69.3 |
| 67.5° | 157.9 | 149.9 | 127.3 | 106.4 | 87.0 | 66.0 | 46.7 | 45.1 | 46.7 |
| 70° | 130.4 | 122.4 | 103.1 | 82.2 | 61.3 | 40.2 | 27.4 | 27.4 | 27.4 |
| 72.5° | 107.9 | 98.2 | 80.6 | 59.6 | 38.7 | 20.9 | 14.5 | 16.2 | 16.2 |
| 75° | 83.8 | 75.7 | 59.6 | 40.2 | 22.6 | 9.6 | 8.0 | 8.0 | 8.0 |
| 77.5° | 62.8 | 56.4 | 41.9 | 25.8 | 11.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 80° | 43.5 | 37.1 | 27.4 | 16.2 | 6.4 | 3.3 | 3.3 | 3.3 | 3.3 |
| 82.5° | 25.8 | 22.6 | 16.2 | 8.0 | 3.3 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 12.9 | 11.3 | 6.4 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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