

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: P582106

Luminaire Tested: **HCC6W25D010MB-HM60525935-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W25D010MB-HM60525935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

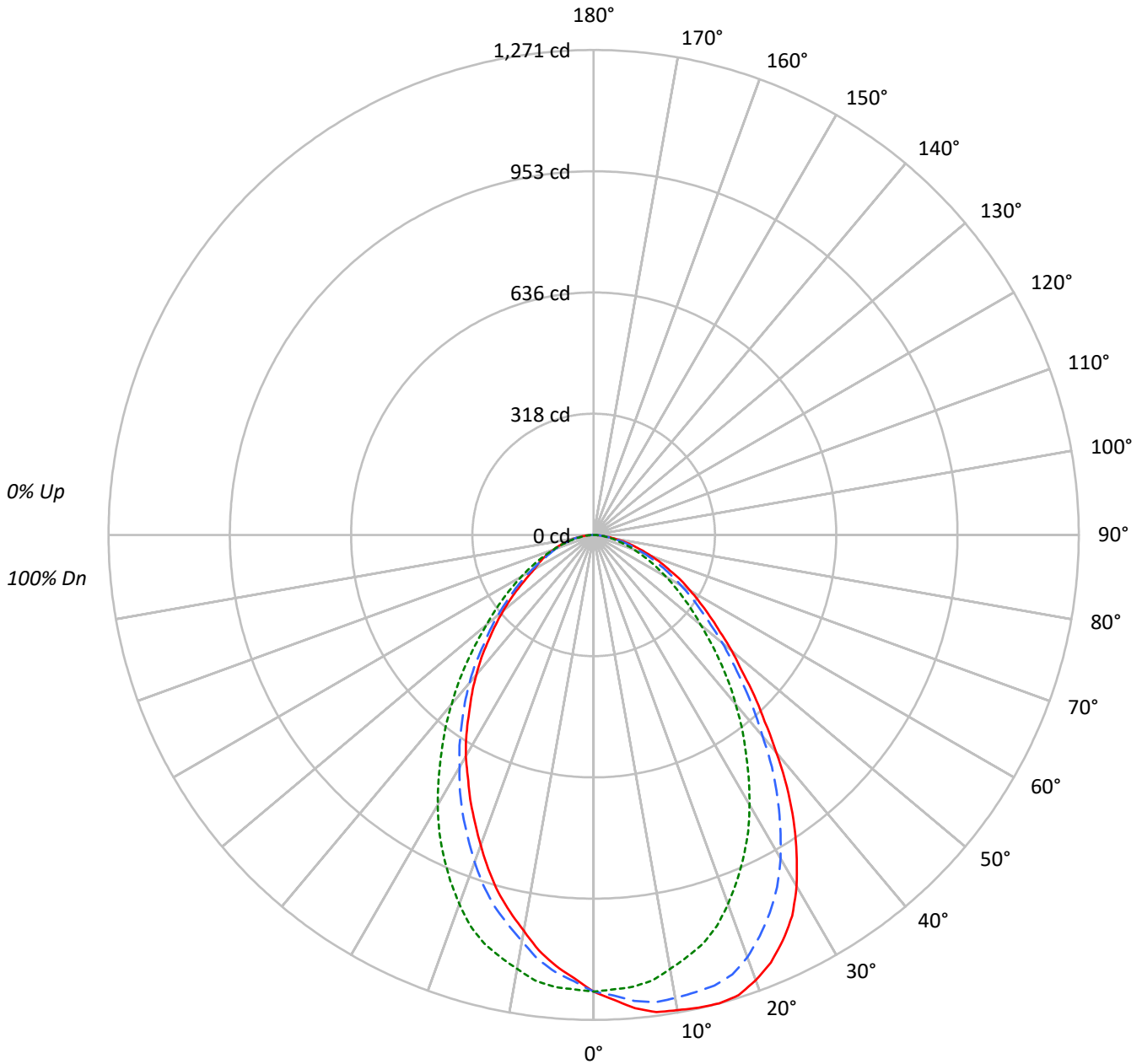
Lumens per Lamp: N/A
Luminaire Lumens: 2229.6 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): 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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 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 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 65614 | 65614 | 65614 |
| 5° | 68523 | 65419 | 62409 |
| 10° | 70389 | 64294 | 58644 |
| 15° | 72134 | 62900 | 54949 |
| 20° | 72456 | 60048 | 50469 |
| 25° | 70940 | 56223 | 46285 |
| 30° | 67301 | 51698 | 42418 |
| 35° | 61128 | 46465 | 38052 |
| 40° | 53264 | 41392 | 34236 |
| 45° | 46082 | 36213 | 30096 |
| 50° | 40255 | 31180 | 26370 |
| 55° | 35564 | 27402 | 22632 |
| 60° | 31971 | 24011 | 19604 |
| 65° | 28628 | 20897 | 19016 |
| 70° | 25565 | 17807 | 17807 |
| 75° | 22198 | 15017 | 16712 |
| 80° | 17805 | 12691 | 15280 |
| 85° | 12140 | 11133 | 13146 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.5 | 5.0 |
| 10°-20° | 312.7 | 14.0 |
| 20°-30° | 435.8 | 19.5 |
| 30°-40° | 449.0 | 20.1 |
| 40°-50° | 372.1 | 16.7 |
| 50°-60° | 267.4 | 12.0 |
| 60°-70° | 170.3 | 7.6 |
| 70°-80° | 87.5 | 3.9 |
| 80°-90° | 22.2 | 1.0 |
| 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° | 861.0 | 38.6 |
| 0°-40° | 1310.0 | 58.8 |
| 0°-60° | 1949.6 | 87.4 |
| 0°-90° | 2229.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2229.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1197 | 1197 | 1197 | 1197 | 1197 | |
| 5° | 1245 | 1226 | 1189 | 1150 | 1134 | 119 |
| 15° | 1271 | 1223 | 1108 | 1007 | 968 | 358 |
| 25° | 1173 | 1092 | 930 | 810 | 765 | 537 |
| 35° | 913 | 839 | 694 | 602 | 569 | 567 |
| 45° | 594 | 553 | 467 | 408 | 388 | 460 |
| 55° | 372 | 342 | 287 | 254 | 237 | 335 |
| 65° | 221 | 197 | 161 | 140 | 147 | 221 |
| 75° | 105 | 90 | 71 | 74 | 79 | 112 |
| 85° | 19 | 18 | 18 | 19 | 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° | 1196.9 | 1196.9 | 1196.9 | 1196.9 | 1196.9 | 1196.9 | 1196.9 | 1196.9 | 1196.9 |
| 2.5° | 1219.4 | 1214.7 | 1208.1 | 1201.8 | 1192.1 | 1180.8 | 1171.2 | 1167.9 | 1163.0 |
| 5° | 1245.2 | 1238.8 | 1225.9 | 1209.8 | 1188.8 | 1167.9 | 1150.3 | 1139.0 | 1134.1 |
| 7.5° | 1261.4 | 1253.3 | 1235.6 | 1208.1 | 1177.6 | 1147.0 | 1121.2 | 1105.1 | 1098.6 |
| 10° | 1264.5 | 1256.5 | 1232.3 | 1195.4 | 1155.0 | 1113.2 | 1081.0 | 1061.7 | 1053.5 |
| 12.5° | 1269.4 | 1258.1 | 1227.6 | 1184.1 | 1132.5 | 1084.1 | 1043.9 | 1019.7 | 1011.7 |
| 15° | 1271.0 | 1258.1 | 1222.7 | 1169.6 | 1108.3 | 1050.4 | 1006.8 | 977.8 | 968.2 |
| 17.5° | 1264.5 | 1250.1 | 1208.1 | 1143.7 | 1074.4 | 1013.3 | 961.7 | 931.1 | 918.2 |
| 20° | 1242.0 | 1225.9 | 1177.6 | 1105.1 | 1029.3 | 964.9 | 911.8 | 879.6 | 865.1 |
| 22.5° | 1213.0 | 1192.1 | 1137.3 | 1060.0 | 981.1 | 913.4 | 860.2 | 828.0 | 813.6 |
| 25° | 1172.8 | 1153.4 | 1092.2 | 1010.0 | 929.5 | 858.7 | 810.3 | 776.5 | 765.2 |
| 27.5° | 1126.1 | 1103.5 | 1040.6 | 958.5 | 876.3 | 805.4 | 758.7 | 728.1 | 713.6 |
| 30° | 1063.2 | 1042.2 | 979.5 | 897.3 | 816.7 | 750.7 | 702.3 | 676.6 | 670.1 |
| 32.5° | 989.1 | 971.5 | 910.2 | 832.9 | 755.6 | 694.3 | 654.1 | 626.6 | 620.2 |
| 35° | 913.4 | 892.5 | 839.3 | 766.8 | 694.3 | 639.5 | 602.4 | 578.4 | 568.6 |
| 37.5° | 831.2 | 811.9 | 766.8 | 702.3 | 637.9 | 586.4 | 554.2 | 533.3 | 523.5 |
| 40° | 744.3 | 729.7 | 687.9 | 636.3 | 578.4 | 533.3 | 505.8 | 488.2 | 478.4 |
| 42.5° | 663.7 | 649.2 | 620.2 | 571.9 | 523.5 | 483.3 | 459.1 | 443.1 | 434.9 |
| 45° | 594.4 | 581.5 | 552.6 | 510.7 | 467.1 | 433.3 | 407.6 | 396.3 | 388.2 |
| 47.5° | 525.1 | 518.7 | 492.9 | 454.3 | 414.0 | 385.0 | 367.3 | 354.3 | 348.0 |
| 50° | 472.0 | 464.0 | 439.8 | 399.5 | 365.6 | 343.1 | 327.0 | 315.8 | 309.2 |
| 52.5° | 417.2 | 409.2 | 386.7 | 352.8 | 325.4 | 304.5 | 288.3 | 278.7 | 272.3 |
| 55° | 372.1 | 365.6 | 341.6 | 310.9 | 286.7 | 269.0 | 254.5 | 243.2 | 236.8 |
| 57.5° | 330.3 | 323.8 | 301.2 | 272.3 | 251.4 | 235.2 | 222.3 | 212.6 | 204.6 |
| 60° | 291.6 | 286.7 | 264.1 | 236.8 | 219.0 | 203.0 | 191.7 | 183.7 | 178.8 |
| 62.5° | 257.7 | 248.1 | 228.8 | 204.6 | 188.5 | 175.5 | 164.3 | 159.5 | 162.8 |
| 65° | 220.7 | 215.9 | 196.6 | 175.5 | 161.1 | 148.2 | 140.2 | 143.3 | 146.6 |
| 67.5° | 190.1 | 183.7 | 167.5 | 148.2 | 135.3 | 125.7 | 120.8 | 127.3 | 128.9 |
| 70° | 159.5 | 153.0 | 138.6 | 122.4 | 111.1 | 104.8 | 104.8 | 109.5 | 111.1 |
| 72.5° | 130.4 | 125.7 | 112.8 | 99.9 | 91.8 | 87.0 | 90.2 | 93.5 | 95.1 |
| 75° | 104.8 | 99.9 | 90.2 | 78.9 | 70.9 | 70.9 | 74.1 | 77.3 | 78.9 |
| 77.5° | 80.6 | 77.3 | 67.7 | 59.6 | 56.4 | 56.4 | 59.6 | 61.3 | 62.8 |
| 80° | 56.4 | 53.1 | 48.4 | 43.5 | 40.2 | 43.5 | 46.7 | 46.7 | 48.4 |
| 82.5° | 37.1 | 35.5 | 32.2 | 28.9 | 28.9 | 30.6 | 32.2 | 33.8 | 33.8 |
| 85° | 19.3 | 19.3 | 17.7 | 16.2 | 17.7 | 19.3 | 19.3 | 20.9 | 20.9 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.4 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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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