

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: P581872

Luminaire Tested: **HCC6W20D010MW-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581872
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: HCC6W20D010MW-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

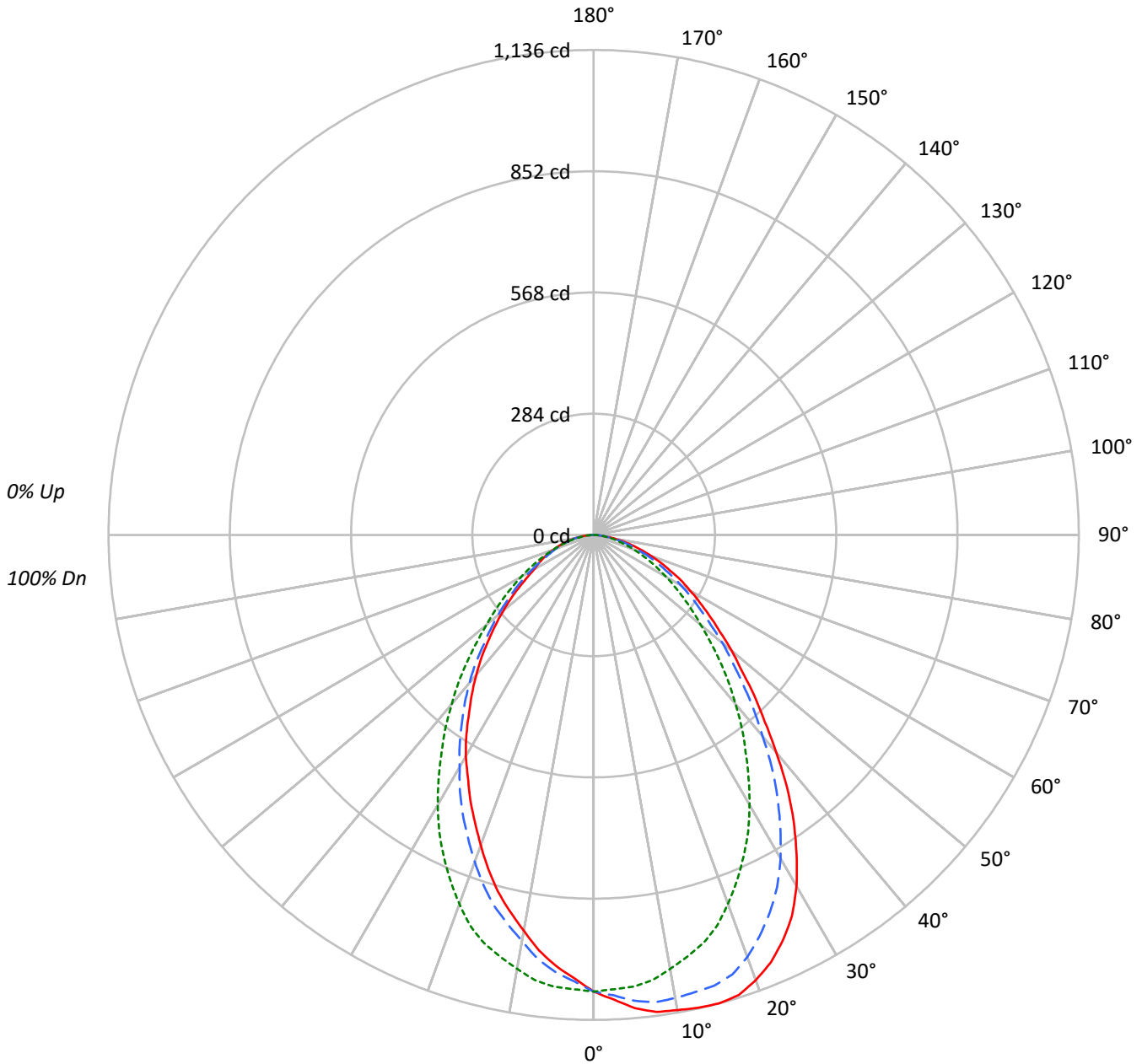
Lumens per Lamp: N/A
Luminaire Lumens: 1992.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 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° | 58636 | 58636 | 58636 |
| 5° | 61231 | 58463 | 55772 |
| 10° | 62908 | 57458 | 52404 |
| 15° | 64461 | 56209 | 49104 |
| 20° | 64750 | 53665 | 45096 |
| 25° | 63391 | 50241 | 41361 |
| 30° | 60142 | 46203 | 37911 |
| 35° | 54623 | 41519 | 34010 |
| 40° | 47596 | 36984 | 30600 |
| 45° | 41183 | 32368 | 26894 |
| 50° | 35973 | 27871 | 23564 |
| 55° | 31779 | 24496 | 20224 |
| 60° | 28572 | 21468 | 17521 |
| 65° | 25593 | 18679 | 16993 |
| 70° | 22840 | 15932 | 15932 |
| 75° | 19825 | 13408 | 14954 |
| 80° | 15911 | 11365 | 13638 |
| 85° | 10819 | 10001 | 11762 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.5 | 5.0 |
| 10°-20° | 279.4 | 14.0 |
| 20°-30° | 389.4 | 19.5 |
| 30°-40° | 401.2 | 20.1 |
| 40°-50° | 332.5 | 16.7 |
| 50°-60° | 239.0 | 12.0 |
| 60°-70° | 152.2 | 7.6 |
| 70°-80° | 78.2 | 3.9 |
| 80°-90° | 19.9 | 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° | 769.4 | 38.6 |
| 0°-40° | 1170.6 | 58.8 |
| 0°-60° | 1742.2 | 87.4 |
| 0°-90° | 1992.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1992.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1070 | 1070 | 1070 | 1070 | 1070 | |
| 5° | 1113 | 1096 | 1062 | 1028 | 1014 | 107 |
| 15° | 1136 | 1093 | 990 | 900 | 865 | 320 |
| 25° | 1048 | 976 | 831 | 724 | 684 | 480 |
| 35° | 816 | 750 | 620 | 538 | 508 | 507 |
| 45° | 531 | 494 | 418 | 364 | 347 | 411 |
| 55° | 332 | 305 | 256 | 227 | 212 | 300 |
| 65° | 197 | 176 | 144 | 125 | 131 | 198 |
| 75° | 94 | 81 | 63 | 66 | 71 | 100 |
| 85° | 17 | 16 | 16 | 17 | 19 | 22 |
| 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° | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1069.6 | 1069.6 |
| 2.5° | 1089.7 | 1085.4 | 1079.6 | 1073.9 | 1065.2 | 1055.2 | 1046.6 | 1043.7 | 1039.3 |
| 5° | 1112.7 | 1107.1 | 1095.5 | 1081.1 | 1062.4 | 1043.7 | 1027.9 | 1017.8 | 1013.5 |
| 7.5° | 1127.1 | 1120.0 | 1104.1 | 1079.6 | 1052.3 | 1024.9 | 1001.9 | 987.5 | 981.7 |
| 10° | 1130.1 | 1122.8 | 1101.3 | 1068.2 | 1032.2 | 994.8 | 965.9 | 948.7 | 941.4 |
| 12.5° | 1134.4 | 1124.3 | 1097.0 | 1058.1 | 1012.0 | 968.8 | 932.8 | 911.3 | 904.0 |
| 15° | 1135.8 | 1124.3 | 1092.6 | 1045.1 | 990.4 | 938.6 | 899.7 | 873.8 | 865.2 |
| 17.5° | 1130.1 | 1117.0 | 1079.6 | 1022.1 | 960.2 | 905.5 | 859.4 | 832.1 | 820.5 |
| 20° | 1109.9 | 1095.5 | 1052.3 | 987.5 | 919.9 | 862.3 | 814.7 | 786.0 | 773.0 |
| 22.5° | 1083.9 | 1065.2 | 1016.3 | 947.2 | 876.7 | 816.2 | 768.7 | 740.0 | 726.9 |
| 25° | 1048.0 | 1030.7 | 976.0 | 902.5 | 830.6 | 767.3 | 724.1 | 693.8 | 683.8 |
| 27.5° | 1006.2 | 986.0 | 930.0 | 856.5 | 783.1 | 719.8 | 678.0 | 650.7 | 637.8 |
| 30° | 950.1 | 931.3 | 875.2 | 801.8 | 729.9 | 670.8 | 627.7 | 604.6 | 598.9 |
| 32.5° | 883.9 | 868.0 | 813.4 | 744.3 | 675.2 | 620.4 | 584.4 | 559.9 | 554.3 |
| 35° | 816.2 | 797.5 | 750.0 | 685.2 | 620.4 | 571.5 | 538.4 | 516.8 | 508.2 |
| 37.5° | 742.8 | 725.6 | 685.2 | 627.7 | 570.0 | 524.0 | 495.2 | 476.5 | 467.8 |
| 40° | 665.1 | 652.2 | 614.7 | 568.7 | 516.8 | 476.5 | 452.1 | 436.2 | 427.6 |
| 42.5° | 593.1 | 580.1 | 554.3 | 511.0 | 467.8 | 431.9 | 410.3 | 395.9 | 388.6 |
| 45° | 531.2 | 519.7 | 493.8 | 456.4 | 417.5 | 387.3 | 364.1 | 354.2 | 346.9 |
| 47.5° | 469.3 | 463.5 | 440.5 | 406.0 | 369.9 | 344.1 | 328.2 | 316.7 | 310.9 |
| 50° | 421.8 | 414.6 | 393.0 | 357.0 | 326.8 | 306.6 | 292.2 | 282.1 | 276.3 |
| 52.5° | 372.9 | 365.6 | 345.5 | 315.3 | 290.8 | 272.0 | 257.6 | 249.0 | 243.3 |
| 55° | 332.5 | 326.8 | 305.2 | 277.8 | 256.3 | 240.4 | 227.4 | 217.4 | 211.6 |
| 57.5° | 295.1 | 289.4 | 269.2 | 243.3 | 224.6 | 210.2 | 198.6 | 190.0 | 182.9 |
| 60° | 260.6 | 256.3 | 236.1 | 211.6 | 195.8 | 181.4 | 171.3 | 164.1 | 159.8 |
| 62.5° | 230.3 | 221.7 | 204.4 | 182.9 | 168.5 | 156.9 | 146.8 | 142.5 | 145.4 |
| 65° | 197.3 | 192.9 | 175.6 | 156.9 | 144.0 | 132.4 | 125.2 | 128.1 | 131.0 |
| 67.5° | 169.8 | 164.1 | 149.7 | 132.4 | 120.9 | 112.3 | 108.0 | 113.8 | 115.1 |
| 70° | 142.5 | 136.8 | 123.8 | 109.4 | 99.4 | 93.6 | 93.6 | 97.9 | 99.4 |
| 72.5° | 116.6 | 112.3 | 100.7 | 89.3 | 82.0 | 77.7 | 80.7 | 83.5 | 85.0 |
| 75° | 93.6 | 89.3 | 80.7 | 70.6 | 63.3 | 63.3 | 66.2 | 69.1 | 70.6 |
| 77.5° | 71.9 | 69.1 | 60.5 | 53.3 | 50.4 | 50.4 | 53.3 | 54.7 | 56.2 |
| 80° | 50.4 | 47.5 | 43.2 | 38.9 | 36.0 | 38.9 | 41.7 | 41.7 | 43.2 |
| 82.5° | 33.1 | 31.7 | 28.8 | 25.9 | 25.9 | 27.3 | 28.8 | 30.3 | 30.3 |
| 85° | 17.2 | 17.2 | 15.9 | 14.4 | 15.9 | 17.2 | 17.2 | 18.7 | 18.7 |
| 87.5° | 5.8 | 5.8 | 5.8 | 5.8 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 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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