

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: P581901

Luminaire Tested: **HCC6S20D010MW-HM60525840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S20D010MW-HM60525840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

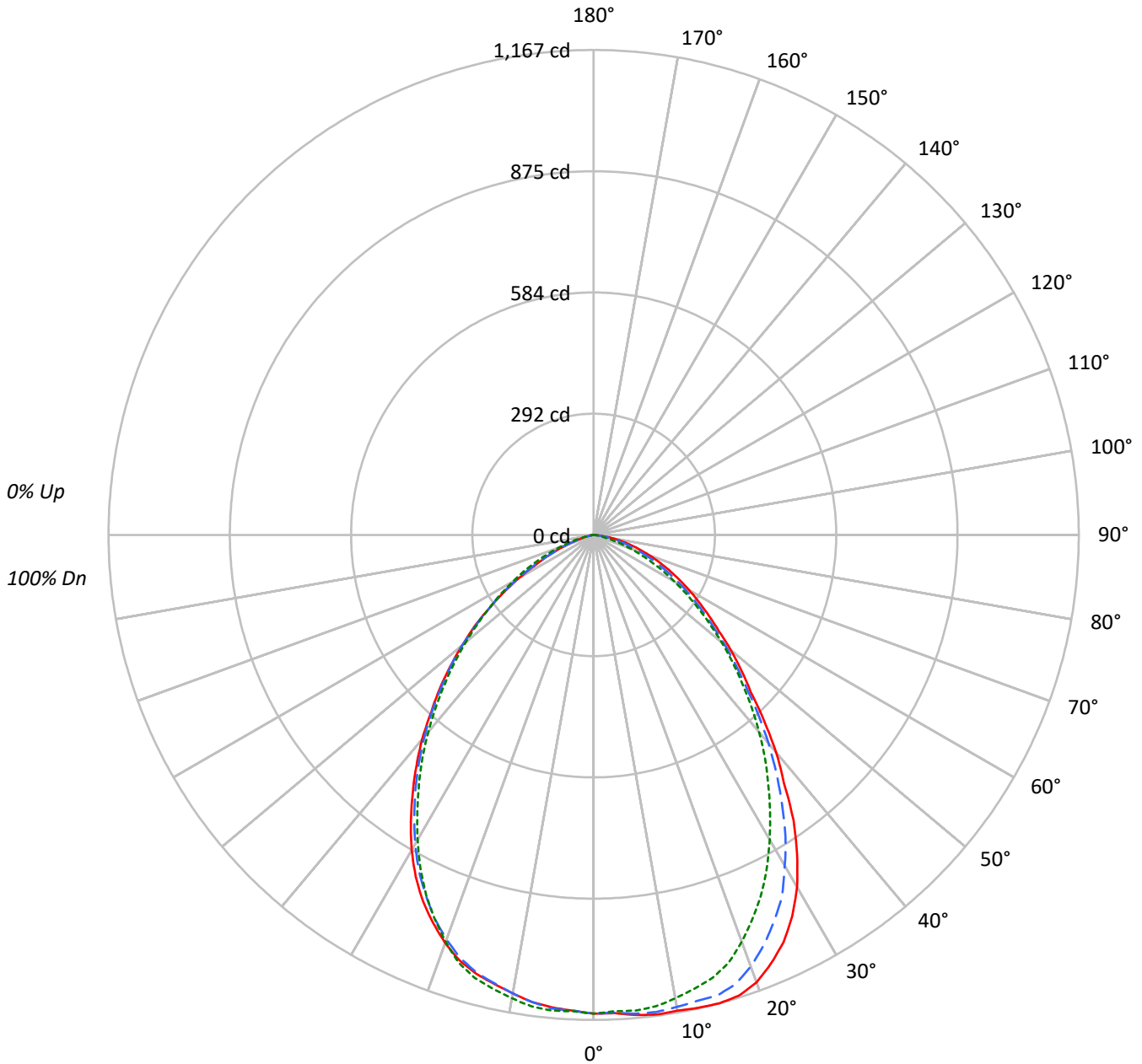
Lumens per Lamp: N/A
Luminaire Lumens: 2257.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | 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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 63147 | 63147 | 63147 |
| 5° | 63807 | 63223 | 62811 |
| 10° | 64712 | 63030 | 62357 |
| 15° | 66232 | 62639 | 62032 |
| 20° | 66850 | 60771 | 60946 |
| 25° | 65387 | 57711 | 58806 |
| 30° | 61927 | 53610 | 55426 |
| 35° | 56075 | 49008 | 50815 |
| 40° | 48834 | 44297 | 45915 |
| 45° | 41431 | 39213 | 40617 |
| 50° | 36698 | 34242 | 35154 |
| 55° | 32324 | 29294 | 29151 |
| 60° | 28967 | 24658 | 22685 |
| 65° | 25852 | 19782 | 16253 |
| 70° | 22760 | 14281 | 10162 |
| 75° | 19169 | 8642 | 5761 |
| 80° | 14775 | 3820 | 2399 |
| 85° | 8554 | 943 | 943 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.3 | 4.8 |
| 10°-20° | 314.3 | 13.9 |
| 20°-30° | 454.3 | 20.1 |
| 30°-40° | 478.0 | 21.2 |
| 40°-50° | 401.8 | 17.8 |
| 50°-60° | 282.0 | 12.5 |
| 60°-70° | 155.1 | 6.9 |
| 70°-80° | 55.1 | 2.4 |
| 80°-90° | 7.2 | 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° | 877.9 | 38.9 |
| 0°-40° | 1355.9 | 60.1 |
| 0°-60° | 2039.7 | 90.4 |
| 0°-90° | 2257.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2257.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1152 | 1152 | 1152 | 1152 | 1152 | |
| 5° | 1160 | 1156 | 1149 | 1144 | 1141 | 111 |
| 15° | 1167 | 1147 | 1104 | 1090 | 1093 | 329 |
| 25° | 1081 | 1027 | 954 | 956 | 972 | 495 |
| 35° | 838 | 790 | 732 | 747 | 759 | 519 |
| 45° | 534 | 519 | 506 | 518 | 524 | 419 |
| 55° | 338 | 320 | 306 | 306 | 305 | 304 |
| 65° | 199 | 178 | 152 | 125 | 125 | 198 |
| 75° | 90 | 72 | 41 | 27 | 27 | 97 |
| 85° | 14 | 8 | 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° | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 |
| 2.5° | 1151.9 | 1151.9 | 1150.4 | 1150.4 | 1147.4 | 1147.4 | 1145.9 | 1145.9 | 1145.9 |
| 5° | 1159.5 | 1159.5 | 1156.5 | 1151.9 | 1148.9 | 1144.3 | 1144.3 | 1142.9 | 1141.4 |
| 7.5° | 1164.0 | 1162.5 | 1157.9 | 1151.9 | 1144.3 | 1136.9 | 1133.8 | 1135.3 | 1133.8 |
| 10° | 1162.5 | 1159.5 | 1153.4 | 1141.4 | 1132.3 | 1121.7 | 1120.2 | 1118.7 | 1120.2 |
| 12.5° | 1165.5 | 1161.0 | 1148.9 | 1133.8 | 1118.7 | 1106.6 | 1105.1 | 1105.1 | 1106.6 |
| 15° | 1167.0 | 1162.5 | 1147.4 | 1124.7 | 1103.7 | 1091.5 | 1090.1 | 1091.5 | 1093.0 |
| 17.5° | 1162.5 | 1156.5 | 1133.8 | 1103.7 | 1079.4 | 1067.4 | 1067.4 | 1070.3 | 1073.4 |
| 20° | 1145.9 | 1136.9 | 1105.1 | 1068.9 | 1041.7 | 1032.6 | 1035.7 | 1041.7 | 1044.7 |
| 22.5° | 1115.7 | 1105.1 | 1068.9 | 1028.1 | 999.4 | 991.9 | 999.4 | 1007.0 | 1010.0 |
| 25° | 1081.0 | 1068.9 | 1026.6 | 984.4 | 954.1 | 945.0 | 955.7 | 967.7 | 972.2 |
| 27.5° | 1034.2 | 1020.6 | 981.3 | 933.0 | 902.8 | 898.2 | 910.4 | 924.0 | 927.0 |
| 30° | 978.3 | 963.2 | 919.4 | 874.1 | 846.9 | 845.4 | 859.0 | 871.2 | 875.6 |
| 32.5° | 910.4 | 896.8 | 859.0 | 813.7 | 789.6 | 789.6 | 803.2 | 813.7 | 818.3 |
| 35° | 837.9 | 822.8 | 789.6 | 751.9 | 732.3 | 733.7 | 747.3 | 754.8 | 759.3 |
| 37.5° | 751.9 | 747.3 | 721.6 | 690.0 | 676.4 | 679.3 | 690.0 | 696.0 | 700.5 |
| 40° | 682.4 | 670.3 | 653.7 | 628.0 | 619.0 | 622.0 | 632.6 | 638.6 | 641.6 |
| 42.5° | 606.9 | 599.4 | 585.8 | 567.6 | 561.6 | 566.2 | 575.2 | 579.8 | 578.2 |
| 45° | 534.4 | 533.0 | 519.4 | 508.8 | 505.8 | 511.8 | 517.8 | 522.3 | 523.9 |
| 47.5° | 481.6 | 475.5 | 463.5 | 455.9 | 452.9 | 459.0 | 465.0 | 468.0 | 468.0 |
| 50° | 430.3 | 424.2 | 412.2 | 404.6 | 401.5 | 407.7 | 412.2 | 415.1 | 412.2 |
| 52.5° | 379.0 | 372.9 | 362.3 | 353.3 | 351.8 | 354.7 | 356.3 | 357.8 | 360.9 |
| 55° | 338.2 | 332.1 | 320.1 | 309.5 | 306.5 | 307.9 | 306.5 | 306.5 | 305.0 |
| 57.5° | 298.9 | 292.9 | 280.8 | 268.7 | 264.2 | 262.7 | 258.2 | 256.6 | 255.2 |
| 60° | 264.2 | 256.6 | 244.6 | 231.0 | 224.9 | 218.9 | 211.3 | 206.9 | 206.9 |
| 62.5° | 231.0 | 223.4 | 209.8 | 197.8 | 188.8 | 178.1 | 166.1 | 160.0 | 160.0 |
| 65° | 199.3 | 193.3 | 178.1 | 164.5 | 152.5 | 138.9 | 125.3 | 122.3 | 125.3 |
| 67.5° | 169.0 | 163.0 | 148.0 | 134.4 | 119.3 | 102.6 | 90.5 | 90.5 | 93.6 |
| 70° | 142.0 | 135.8 | 122.3 | 105.7 | 89.1 | 72.5 | 63.4 | 63.4 | 63.4 |
| 72.5° | 116.2 | 110.2 | 95.1 | 80.0 | 63.4 | 46.8 | 42.3 | 43.7 | 42.3 |
| 75° | 90.5 | 86.1 | 72.5 | 55.9 | 40.8 | 28.7 | 27.2 | 25.7 | 27.2 |
| 77.5° | 68.0 | 63.4 | 51.3 | 36.3 | 22.7 | 16.7 | 15.1 | 15.1 | 15.1 |
| 80° | 46.8 | 42.3 | 33.2 | 21.2 | 12.1 | 7.6 | 7.6 | 7.6 | 7.6 |
| 82.5° | 28.7 | 24.1 | 18.1 | 10.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 85° | 13.6 | 10.5 | 7.6 | 3.1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 87.5° | 3.1 | 3.1 | 1.5 | 1.5 | 0.0 | 1.5 | 1.5 | 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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