

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: P581954

Luminaire Tested: **HCC6W20D010MW-HM60525935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581954
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: HCC6W20D010MW-HM60525935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

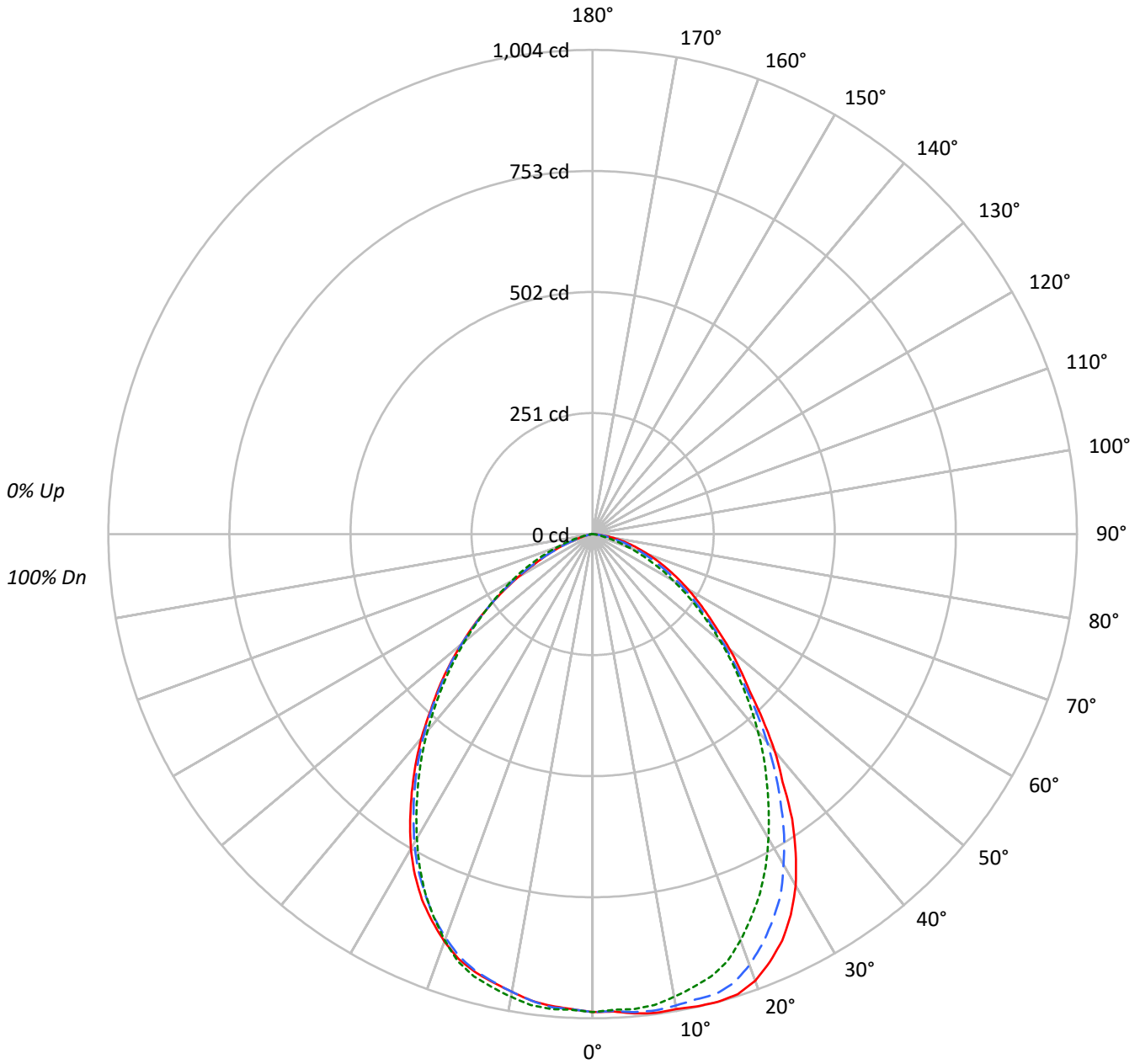
Lumens per Lamp: N/A
Luminaire Lumens: 1942.2 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (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 | | | | | | | | | | |
| 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° | 54332 | 54332 | 54332 |
| 5° | 54903 | 54397 | 54045 |
| 10° | 55683 | 54235 | 53662 |
| 15° | 56992 | 53894 | 53377 |
| 20° | 57516 | 52289 | 52440 |
| 25° | 56259 | 49660 | 50604 |
| 30° | 53287 | 46127 | 47691 |
| 35° | 48245 | 42168 | 43728 |
| 40° | 42014 | 38114 | 39510 |
| 45° | 35655 | 33740 | 34949 |
| 50° | 31581 | 29475 | 30242 |
| 55° | 27813 | 25213 | 25079 |
| 60° | 24921 | 21215 | 19516 |
| 65° | 22233 | 17019 | 13996 |
| 70° | 19571 | 12278 | 8751 |
| 75° | 16521 | 7434 | 4935 |
| 80° | 12691 | 3283 | 2052 |
| 85° | 7359 | 755 | 755 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.1 | 4.8 |
| 10°-20° | 270.4 | 13.9 |
| 20°-30° | 390.9 | 20.1 |
| 30°-40° | 411.3 | 21.2 |
| 40°-50° | 345.8 | 17.8 |
| 50°-60° | 242.7 | 12.5 |
| 60°-70° | 133.5 | 6.9 |
| 70°-80° | 47.4 | 2.4 |
| 80°-90° | 6.2 | 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° | 755.4 | 38.9 |
| 0°-40° | 1166.7 | 60.1 |
| 0°-60° | 1755.1 | 90.4 |
| 0°-90° | 1942.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1942.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 991 | 991 | 991 | 991 | 991 | |
| 5° | 998 | 995 | 988 | 985 | 982 | 95 |
| 15° | 1004 | 987 | 950 | 938 | 940 | 283 |
| 25° | 930 | 883 | 821 | 822 | 837 | 426 |
| 35° | 721 | 680 | 630 | 643 | 653 | 447 |
| 45° | 460 | 447 | 435 | 446 | 451 | 361 |
| 55° | 291 | 275 | 264 | 264 | 262 | 262 |
| 65° | 171 | 153 | 131 | 108 | 108 | 171 |
| 75° | 78 | 62 | 35 | 23 | 23 | 84 |
| 85° | 12 | 6 | 1 | 1 | 1 | 16 |
| 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° | 991.1 | 991.1 | 991.1 | 991.1 | 991.1 | 991.1 | 991.1 | 991.1 | 991.1 |
| 2.5° | 991.1 | 991.1 | 989.9 | 989.9 | 987.3 | 987.3 | 985.9 | 985.9 | 985.9 |
| 5° | 997.7 | 997.7 | 995.1 | 991.1 | 988.5 | 984.7 | 984.7 | 983.4 | 982.1 |
| 7.5° | 1001.6 | 1000.3 | 996.4 | 991.1 | 984.7 | 978.2 | 975.6 | 976.9 | 975.6 |
| 10° | 1000.3 | 997.7 | 992.5 | 982.1 | 974.3 | 965.2 | 964.0 | 962.6 | 964.0 |
| 12.5° | 1002.9 | 999.0 | 988.5 | 975.6 | 962.6 | 952.2 | 950.9 | 950.9 | 952.2 |
| 15° | 1004.2 | 1000.3 | 987.3 | 967.8 | 949.6 | 939.3 | 937.9 | 939.3 | 940.5 |
| 17.5° | 1000.3 | 995.1 | 975.6 | 949.6 | 928.8 | 918.4 | 918.4 | 921.0 | 923.6 |
| 20° | 985.9 | 978.2 | 950.9 | 919.8 | 896.3 | 888.6 | 891.1 | 896.3 | 898.9 |
| 22.5° | 960.0 | 950.9 | 919.8 | 884.6 | 859.9 | 853.5 | 859.9 | 866.5 | 869.1 |
| 25° | 930.1 | 919.8 | 883.4 | 847.0 | 821.0 | 813.3 | 822.3 | 832.6 | 836.6 |
| 27.5° | 889.9 | 878.2 | 844.4 | 802.8 | 776.8 | 772.9 | 783.4 | 795.0 | 797.6 |
| 30° | 841.8 | 828.8 | 791.2 | 752.2 | 728.7 | 727.5 | 739.2 | 749.6 | 753.4 |
| 32.5° | 783.4 | 771.7 | 739.2 | 700.2 | 679.5 | 679.5 | 691.1 | 700.2 | 704.0 |
| 35° | 720.9 | 708.0 | 679.5 | 646.9 | 630.1 | 631.3 | 643.1 | 649.5 | 653.4 |
| 37.5° | 646.9 | 643.1 | 621.0 | 593.7 | 582.0 | 584.6 | 593.7 | 598.9 | 602.8 |
| 40° | 587.1 | 576.8 | 562.5 | 540.4 | 532.6 | 535.2 | 544.3 | 549.5 | 552.1 |
| 42.5° | 522.2 | 515.7 | 504.1 | 488.4 | 483.2 | 487.2 | 494.9 | 498.9 | 497.5 |
| 45° | 459.9 | 458.5 | 446.9 | 437.8 | 435.2 | 440.4 | 445.6 | 449.5 | 450.8 |
| 47.5° | 414.5 | 409.2 | 398.8 | 392.4 | 389.8 | 395.0 | 400.1 | 402.7 | 402.7 |
| 50° | 370.3 | 365.1 | 354.6 | 348.2 | 345.6 | 350.8 | 354.6 | 357.2 | 354.6 |
| 52.5° | 326.1 | 320.9 | 311.8 | 304.0 | 302.7 | 305.2 | 306.6 | 307.8 | 310.4 |
| 55° | 291.0 | 285.7 | 275.4 | 266.3 | 263.8 | 265.0 | 263.8 | 263.8 | 262.4 |
| 57.5° | 257.2 | 252.0 | 241.7 | 231.2 | 227.3 | 226.0 | 222.2 | 220.8 | 219.6 |
| 60° | 227.3 | 220.8 | 210.4 | 198.7 | 193.5 | 188.4 | 181.8 | 178.0 | 178.0 |
| 62.5° | 198.7 | 192.3 | 180.6 | 170.2 | 162.4 | 153.3 | 142.9 | 137.7 | 137.7 |
| 65° | 171.4 | 166.3 | 153.3 | 141.6 | 131.2 | 119.5 | 107.9 | 105.3 | 107.9 |
| 67.5° | 145.5 | 140.3 | 127.3 | 115.6 | 102.6 | 88.4 | 78.0 | 78.0 | 80.6 |
| 70° | 122.1 | 116.9 | 105.3 | 91.0 | 76.6 | 62.3 | 54.6 | 54.6 | 54.6 |
| 72.5° | 100.0 | 94.8 | 81.8 | 68.9 | 54.6 | 40.2 | 36.4 | 37.7 | 36.4 |
| 75° | 78.0 | 74.1 | 62.3 | 48.0 | 35.1 | 24.7 | 23.3 | 22.1 | 23.3 |
| 77.5° | 58.5 | 54.6 | 44.2 | 31.2 | 19.5 | 14.3 | 13.0 | 13.0 | 13.0 |
| 80° | 40.2 | 36.4 | 28.6 | 18.2 | 10.4 | 6.5 | 6.5 | 6.5 | 6.5 |
| 82.5° | 24.7 | 20.7 | 15.6 | 9.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 85° | 11.7 | 9.1 | 6.5 | 2.6 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 87.5° | 2.6 | 2.6 | 1.2 | 1.2 | 0.0 | 1.2 | 1.2 | 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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