

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: P581873

Luminaire Tested: **HCC6W20D010SL-HM60525830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W20D010SL-HM60525830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

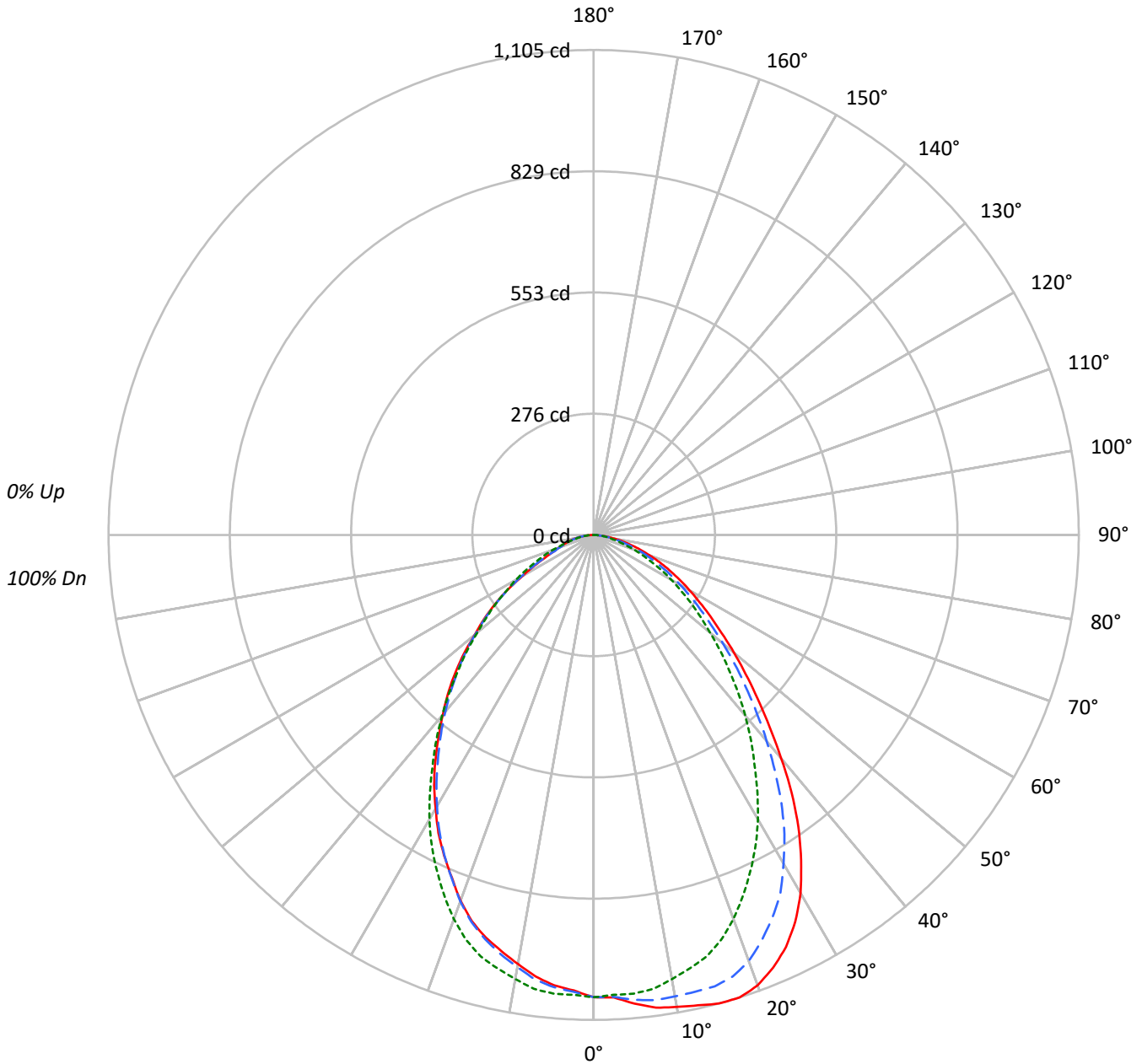
Lumens per Lamp: N/A
Luminaire Lumens: 2062.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | 100 | | | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | 87 | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | 76 | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | 66 | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | 58 | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | 52 | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | 46 | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | 42 | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | 38 | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | 34 | | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | 31 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 57748 | 57748 | 57748 |
| 5° | 58992 | 57726 | 56702 |
| 10° | 60798 | 57197 | 55276 |
| 15° | 62725 | 56436 | 53905 |
| 20° | 63717 | 54319 | 51717 |
| 25° | 62671 | 51100 | 48747 |
| 30° | 59661 | 47368 | 45551 |
| 35° | 54408 | 42757 | 42081 |
| 40° | 47575 | 38415 | 38207 |
| 45° | 40942 | 33802 | 34585 |
| 50° | 35589 | 29449 | 30072 |
| 55° | 31081 | 25863 | 26130 |
| 60° | 27618 | 22410 | 20514 |
| 65° | 24646 | 18861 | 15683 |
| 70° | 21686 | 15451 | 13143 |
| 75° | 18597 | 12200 | 12497 |
| 80° | 14996 | 10450 | 12281 |
| 85° | 10001 | 9057 | 10819 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.7 | 4.8 |
| 10°-20° | 283.9 | 13.8 |
| 20°-30° | 405.3 | 19.6 |
| 30°-40° | 424.6 | 20.6 |
| 40°-50° | 357.4 | 17.3 |
| 50°-60° | 254.4 | 12.3 |
| 60°-70° | 148.9 | 7.2 |
| 70°-80° | 70.5 | 3.4 |
| 80°-90° | 18.1 | 0.9 |
| 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° | 789.0 | 38.2 |
| 0°-40° | 1213.5 | 58.8 |
| 0°-60° | 1825.4 | 88.5 |
| 0°-90° | 2062.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2062.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1053 | 1053 | 1053 | 1053 | 1053 | |
| 5° | 1072 | 1063 | 1049 | 1035 | 1030 | 103 |
| 15° | 1105 | 1065 | 994 | 954 | 950 | 312 |
| 25° | 1036 | 963 | 845 | 804 | 806 | 474 |
| 35° | 813 | 745 | 639 | 617 | 629 | 505 |
| 45° | 528 | 489 | 436 | 438 | 446 | 410 |
| 55° | 325 | 298 | 271 | 271 | 273 | 293 |
| 65° | 190 | 168 | 145 | 122 | 121 | 189 |
| 75° | 88 | 73 | 58 | 56 | 59 | 94 |
| 85° | 16 | 13 | 14 | 17 | 17 | 21 |
| 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° | 1053.4 | 1053.4 | 1053.4 | 1053.4 | 1053.4 | 1053.4 | 1053.4 | 1053.4 | 1053.4 |
| 2.5° | 1054.8 | 1054.8 | 1053.4 | 1052.0 | 1049.0 | 1044.7 | 1041.9 | 1039.0 | 1039.0 |
| 5° | 1072.0 | 1069.2 | 1063.4 | 1056.3 | 1049.0 | 1040.4 | 1034.7 | 1030.4 | 1030.4 |
| 7.5° | 1086.4 | 1080.8 | 1069.2 | 1056.3 | 1043.3 | 1031.8 | 1021.7 | 1016.0 | 1014.5 |
| 10° | 1092.2 | 1085.1 | 1067.7 | 1047.7 | 1027.5 | 1011.7 | 1000.1 | 993.0 | 993.0 |
| 12.5° | 1098.0 | 1089.4 | 1066.4 | 1037.6 | 1011.7 | 990.1 | 978.6 | 972.8 | 971.3 |
| 15° | 1105.2 | 1093.7 | 1064.9 | 1028.9 | 994.4 | 970.0 | 954.1 | 949.8 | 949.8 |
| 17.5° | 1105.2 | 1090.9 | 1054.8 | 1010.2 | 967.0 | 939.7 | 925.3 | 921.0 | 922.5 |
| 20° | 1092.2 | 1076.5 | 1033.3 | 978.6 | 931.1 | 902.3 | 887.9 | 885.0 | 886.5 |
| 22.5° | 1067.7 | 1049.0 | 1000.1 | 941.2 | 889.3 | 859.2 | 846.1 | 846.1 | 844.8 |
| 25° | 1036.1 | 1016.0 | 962.7 | 900.8 | 844.8 | 814.5 | 804.4 | 805.9 | 805.9 |
| 27.5° | 994.4 | 974.3 | 921.0 | 854.8 | 798.7 | 768.4 | 761.3 | 764.1 | 765.6 |
| 30° | 942.5 | 921.0 | 864.8 | 800.1 | 748.3 | 718.1 | 713.8 | 718.1 | 719.6 |
| 32.5° | 879.2 | 863.5 | 808.7 | 742.6 | 693.6 | 667.7 | 666.3 | 670.6 | 676.4 |
| 35° | 813.0 | 795.8 | 745.4 | 685.0 | 638.9 | 617.4 | 617.4 | 624.5 | 628.8 |
| 37.5° | 741.1 | 723.9 | 677.8 | 627.5 | 588.6 | 568.4 | 571.3 | 578.5 | 580.0 |
| 40° | 664.8 | 651.9 | 613.1 | 569.9 | 536.8 | 521.0 | 525.3 | 532.4 | 533.9 |
| 42.5° | 592.9 | 581.3 | 549.7 | 510.9 | 486.4 | 474.8 | 480.6 | 489.2 | 492.2 |
| 45° | 528.1 | 515.2 | 489.2 | 456.1 | 436.0 | 430.3 | 437.5 | 443.2 | 446.1 |
| 47.5° | 469.2 | 457.6 | 436.0 | 405.8 | 391.5 | 388.5 | 395.8 | 398.6 | 401.5 |
| 50° | 417.3 | 405.8 | 384.2 | 356.9 | 345.3 | 345.3 | 351.1 | 354.1 | 352.6 |
| 52.5° | 367.0 | 356.9 | 336.7 | 313.7 | 306.5 | 306.5 | 310.8 | 312.3 | 315.2 |
| 55° | 325.2 | 315.2 | 297.9 | 276.3 | 270.6 | 267.6 | 270.6 | 270.6 | 273.4 |
| 57.5° | 286.4 | 277.7 | 261.9 | 241.8 | 234.5 | 231.7 | 230.2 | 228.9 | 231.7 |
| 60° | 251.9 | 244.6 | 227.4 | 210.1 | 204.4 | 197.1 | 191.4 | 185.6 | 187.1 |
| 62.5° | 220.1 | 213.0 | 197.1 | 179.9 | 174.1 | 164.1 | 156.8 | 149.7 | 152.5 |
| 65° | 190.0 | 182.8 | 168.4 | 154.0 | 145.4 | 133.8 | 122.4 | 118.1 | 120.9 |
| 67.5° | 162.6 | 156.8 | 142.4 | 128.0 | 120.9 | 108.0 | 96.4 | 96.4 | 97.9 |
| 70° | 135.3 | 129.5 | 118.1 | 105.0 | 96.4 | 84.9 | 80.6 | 82.0 | 82.0 |
| 72.5° | 110.8 | 106.5 | 94.9 | 83.5 | 74.8 | 67.6 | 67.6 | 69.1 | 70.5 |
| 75° | 87.8 | 84.9 | 73.4 | 63.3 | 57.6 | 53.3 | 56.1 | 57.6 | 59.0 |
| 77.5° | 67.6 | 63.3 | 54.7 | 47.5 | 43.2 | 44.6 | 47.5 | 48.9 | 50.4 |
| 80° | 47.5 | 46.0 | 38.9 | 34.6 | 33.1 | 34.6 | 37.4 | 38.9 | 38.9 |
| 82.5° | 30.3 | 28.8 | 24.5 | 23.0 | 23.0 | 24.5 | 27.3 | 27.3 | 27.3 |
| 85° | 15.9 | 14.4 | 12.9 | 12.9 | 14.4 | 15.9 | 17.2 | 17.2 | 17.2 |
| 87.5° | 5.8 | 4.3 | 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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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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