

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: P581907

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S20D010MW-HM60525840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

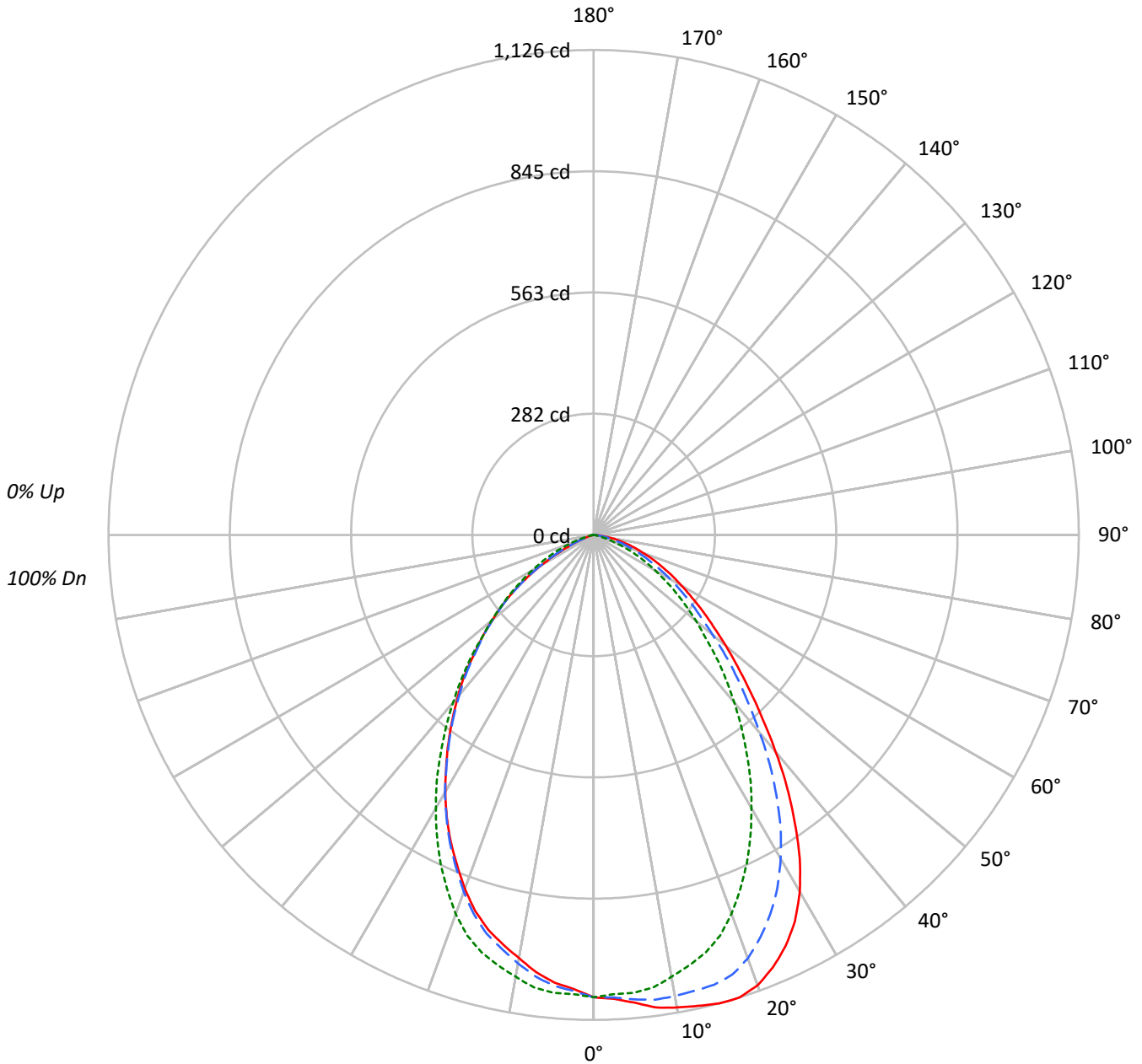
Lumens per Lamp: N/A
Luminaire Lumens: 1912.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | 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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 58844 | 58844 | 58844 |
| 5° | 59988 | 58739 | 57412 |
| 10° | 62023 | 57993 | 55549 |
| 15° | 63922 | 56981 | 53808 |
| 20° | 64913 | 54611 | 50994 |
| 25° | 63742 | 50864 | 47489 |
| 30° | 60592 | 46355 | 43576 |
| 35° | 54455 | 41425 | 39304 |
| 40° | 47002 | 36297 | 35116 |
| 45° | 39803 | 31251 | 30437 |
| 50° | 34123 | 26396 | 26140 |
| 55° | 29581 | 22221 | 21352 |
| 60° | 25831 | 18036 | 15229 |
| 65° | 22726 | 13906 | 8419 |
| 70° | 19603 | 9184 | 4119 |
| 75° | 16627 | 4490 | 1610 |
| 80° | 12880 | 1894 | 979 |
| 85° | 7611 | 943 | 943 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.3 | 5.3 |
| 10°-20° | 286.5 | 15.0 |
| 20°-30° | 403.4 | 21.1 |
| 30°-40° | 412.2 | 21.5 |
| 40°-50° | 332.3 | 17.4 |
| 50°-60° | 222.9 | 11.7 |
| 60°-70° | 112.8 | 5.9 |
| 70°-80° | 36.1 | 1.9 |
| 80°-90° | 5.6 | 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° | 791.2 | 41.4 |
| 0°-40° | 1203.3 | 62.9 |
| 0°-60° | 1758.5 | 91.9 |
| 0°-90° | 1912.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1912.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1073 | 1073 | 1073 | 1073 | 1073 | |
| 5° | 1090 | 1082 | 1067 | 1051 | 1043 | 105 |
| 15° | 1126 | 1081 | 1004 | 959 | 948 | 318 |
| 25° | 1054 | 971 | 841 | 790 | 785 | 482 |
| 35° | 814 | 740 | 619 | 584 | 587 | 506 |
| 45° | 513 | 473 | 403 | 390 | 393 | 399 |
| 55° | 310 | 275 | 232 | 222 | 223 | 278 |
| 65° | 175 | 145 | 107 | 71 | 65 | 175 |
| 75° | 78 | 56 | 21 | 8 | 8 | 84 |
| 85° | 12 | 6 | 2 | 2 | 2 | 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° | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 |
| 2.5° | 1077.9 | 1076.5 | 1075.0 | 1071.9 | 1067.4 | 1062.9 | 1059.8 | 1056.9 | 1055.3 |
| 5° | 1090.1 | 1087.0 | 1082.5 | 1076.5 | 1067.4 | 1056.9 | 1050.9 | 1044.7 | 1043.3 |
| 7.5° | 1106.7 | 1100.6 | 1088.6 | 1075.0 | 1059.8 | 1044.7 | 1034.2 | 1028.2 | 1023.7 |
| 10° | 1114.2 | 1103.7 | 1087.0 | 1064.3 | 1041.8 | 1023.7 | 1010.1 | 1001.0 | 997.9 |
| 12.5° | 1120.2 | 1108.2 | 1084.1 | 1053.8 | 1023.7 | 999.4 | 984.4 | 976.9 | 973.8 |
| 15° | 1126.3 | 1114.2 | 1081.0 | 1041.8 | 1004.0 | 975.3 | 958.7 | 951.2 | 948.1 |
| 17.5° | 1126.3 | 1109.7 | 1070.5 | 1020.6 | 975.3 | 940.6 | 924.0 | 916.5 | 914.9 |
| 20° | 1112.7 | 1094.6 | 1046.3 | 987.4 | 936.1 | 896.8 | 881.7 | 877.2 | 874.1 |
| 22.5° | 1087.0 | 1065.9 | 1011.5 | 945.1 | 889.3 | 851.6 | 834.9 | 831.8 | 828.9 |
| 25° | 1053.8 | 1032.7 | 970.8 | 899.8 | 840.9 | 803.2 | 789.6 | 786.6 | 785.1 |
| 27.5° | 1011.5 | 988.9 | 924.0 | 851.6 | 788.1 | 751.9 | 739.7 | 739.7 | 738.3 |
| 30° | 957.2 | 931.6 | 868.1 | 795.7 | 732.3 | 699.1 | 690.0 | 690.0 | 688.4 |
| 32.5° | 890.8 | 865.0 | 807.7 | 738.3 | 677.9 | 643.2 | 635.6 | 638.7 | 637.1 |
| 35° | 813.7 | 792.6 | 739.7 | 671.9 | 619.0 | 587.3 | 584.3 | 587.3 | 587.3 |
| 37.5° | 736.8 | 717.2 | 671.9 | 613.0 | 563.1 | 534.4 | 534.4 | 539.0 | 537.5 |
| 40° | 656.8 | 641.6 | 599.4 | 548.0 | 507.2 | 487.6 | 484.6 | 489.1 | 490.7 |
| 42.5° | 581.2 | 569.2 | 533.0 | 490.7 | 454.4 | 434.8 | 439.4 | 442.3 | 443.9 |
| 45° | 513.4 | 501.2 | 472.6 | 428.7 | 403.1 | 389.5 | 389.5 | 394.1 | 392.6 |
| 47.5° | 453.0 | 443.9 | 415.2 | 372.9 | 350.3 | 344.2 | 347.3 | 350.3 | 350.3 |
| 50° | 400.1 | 386.5 | 359.3 | 326.1 | 309.5 | 301.9 | 305.0 | 306.5 | 306.5 |
| 52.5° | 350.3 | 341.3 | 314.1 | 283.8 | 268.7 | 264.2 | 264.2 | 265.7 | 265.7 |
| 55° | 309.5 | 298.9 | 274.8 | 244.6 | 232.5 | 226.5 | 222.0 | 220.5 | 223.4 |
| 57.5° | 270.2 | 261.2 | 238.5 | 209.8 | 196.2 | 190.2 | 181.2 | 178.1 | 181.2 |
| 60° | 235.6 | 228.0 | 205.3 | 178.1 | 164.5 | 152.5 | 142.0 | 135.8 | 138.9 |
| 62.5° | 205.3 | 196.2 | 173.6 | 151.0 | 135.8 | 122.3 | 105.7 | 96.6 | 101.2 |
| 65° | 175.2 | 167.6 | 144.9 | 122.3 | 107.2 | 90.6 | 70.9 | 64.9 | 64.9 |
| 67.5° | 148.0 | 140.4 | 119.3 | 99.6 | 81.6 | 61.9 | 43.7 | 42.3 | 43.7 |
| 70° | 122.3 | 114.8 | 96.6 | 77.0 | 57.3 | 37.7 | 25.7 | 25.7 | 25.7 |
| 72.5° | 101.2 | 92.1 | 75.5 | 55.9 | 36.3 | 19.6 | 13.6 | 15.1 | 15.1 |
| 75° | 78.5 | 70.9 | 55.9 | 37.7 | 21.2 | 9.1 | 7.6 | 7.6 | 7.6 |
| 77.5° | 58.9 | 52.8 | 39.2 | 24.1 | 10.5 | 3.1 | 3.1 | 3.1 | 3.1 |
| 80° | 40.8 | 34.7 | 25.7 | 15.1 | 6.0 | 3.1 | 3.1 | 3.1 | 3.1 |
| 82.5° | 24.1 | 21.2 | 15.1 | 7.6 | 3.1 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 12.1 | 10.5 | 6.0 | 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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Scaled Data Report



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

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