

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: P582071

Luminaire Tested: **HCC6S25D010MB-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582071
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: HCC6S25D010MB-HM60525927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

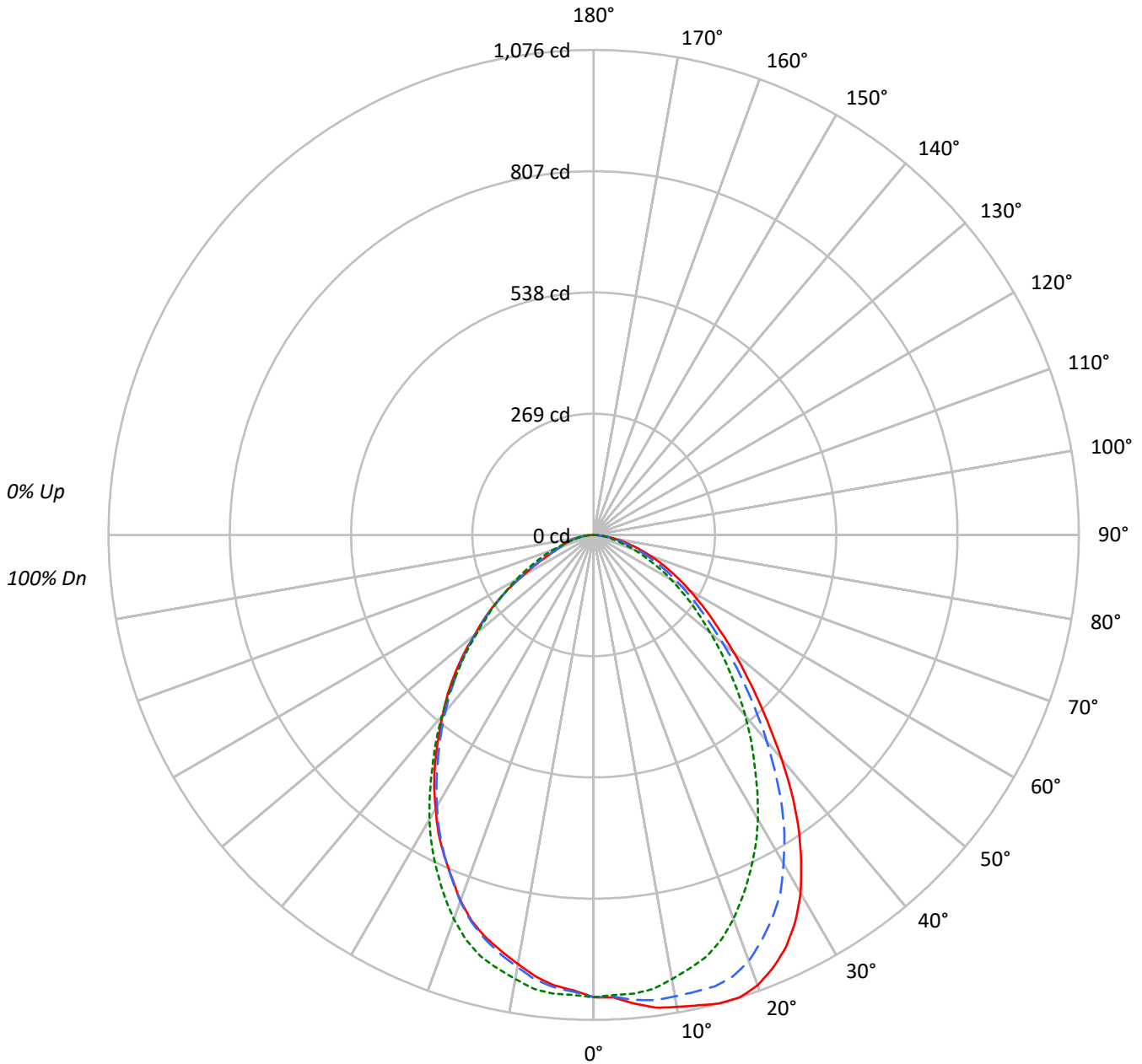
Lumens per Lamp: N/A
Luminaire Lumens: 2008.7 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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 | 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° | 56229 | 56229 | 56229 |
| 5° | 57451 | 56218 | 55211 |
| 10° | 59201 | 55694 | 53818 |
| 15° | 61079 | 54955 | 52486 |
| 20° | 62043 | 52895 | 50358 |
| 25° | 61026 | 49757 | 47470 |
| 30° | 58098 | 46121 | 44355 |
| 35° | 52990 | 41633 | 40977 |
| 40° | 46330 | 37399 | 37205 |
| 45° | 39865 | 32918 | 33678 |
| 50° | 34651 | 28681 | 29278 |
| 55° | 30259 | 25175 | 25452 |
| 60° | 26884 | 21818 | 19976 |
| 65° | 23984 | 18368 | 15268 |
| 70° | 21109 | 15035 | 12791 |
| 75° | 18110 | 11861 | 12179 |
| 80° | 14585 | 10165 | 11933 |
| 85° | 9686 | 8806 | 10567 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.1 | 4.8 |
| 10°-20° | 276.5 | 13.8 |
| 20°-30° | 394.7 | 19.6 |
| 30°-40° | 413.4 | 20.6 |
| 40°-50° | 348.1 | 17.3 |
| 50°-60° | 247.7 | 12.3 |
| 60°-70° | 145.0 | 7.2 |
| 70°-80° | 68.6 | 3.4 |
| 80°-90° | 17.7 | 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° | 768.3 | 38.2 |
| 0°-40° | 1181.7 | 58.8 |
| 0°-60° | 1777.5 | 88.5 |
| 0°-90° | 2008.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2008.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1026 | 1026 | 1026 | 1026 | 1026 | |
| 5° | 1044 | 1036 | 1022 | 1008 | 1003 | 100 |
| 15° | 1076 | 1037 | 968 | 929 | 925 | 304 |
| 25° | 1009 | 938 | 823 | 783 | 785 | 462 |
| 35° | 792 | 726 | 622 | 601 | 612 | 492 |
| 45° | 514 | 476 | 425 | 426 | 434 | 399 |
| 55° | 317 | 290 | 263 | 263 | 266 | 285 |
| 65° | 185 | 164 | 142 | 119 | 118 | 184 |
| 75° | 86 | 71 | 56 | 55 | 58 | 92 |
| 85° | 15 | 13 | 14 | 17 | 17 | 20 |
| 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° | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 | 1025.7 |
| 2.5° | 1027.1 | 1027.1 | 1025.7 | 1024.3 | 1021.6 | 1017.3 | 1014.6 | 1011.7 | 1011.7 |
| 5° | 1044.0 | 1041.1 | 1035.5 | 1028.6 | 1021.6 | 1013.2 | 1007.5 | 1003.3 | 1003.3 |
| 7.5° | 1057.9 | 1052.4 | 1041.1 | 1028.6 | 1015.9 | 1004.7 | 994.9 | 989.2 | 987.9 |
| 10° | 1063.5 | 1056.5 | 1039.7 | 1020.1 | 1000.5 | 985.1 | 973.8 | 966.8 | 966.8 |
| 12.5° | 1069.2 | 1060.8 | 1038.4 | 1010.3 | 985.1 | 964.1 | 952.9 | 947.3 | 945.9 |
| 15° | 1076.2 | 1064.9 | 1037.0 | 1001.9 | 968.3 | 944.5 | 929.1 | 924.8 | 924.8 |
| 17.5° | 1076.2 | 1062.2 | 1027.1 | 983.7 | 941.6 | 915.1 | 901.0 | 896.8 | 898.3 |
| 20° | 1063.5 | 1048.1 | 1006.2 | 952.9 | 906.7 | 878.6 | 864.6 | 861.8 | 863.2 |
| 22.5° | 1039.7 | 1021.6 | 973.8 | 916.4 | 865.9 | 836.5 | 824.0 | 824.0 | 822.6 |
| 25° | 1008.9 | 989.2 | 937.5 | 877.2 | 822.6 | 793.1 | 783.3 | 784.8 | 784.8 |
| 27.5° | 968.3 | 948.6 | 896.8 | 832.4 | 777.7 | 748.3 | 741.3 | 744.0 | 745.5 |
| 30° | 917.8 | 896.8 | 842.1 | 779.1 | 728.6 | 699.2 | 695.0 | 699.2 | 700.7 |
| 32.5° | 856.2 | 840.8 | 787.5 | 723.1 | 675.4 | 650.2 | 648.8 | 652.9 | 658.6 |
| 35° | 791.8 | 774.9 | 725.9 | 667.0 | 622.1 | 601.2 | 601.2 | 608.2 | 612.3 |
| 37.5° | 721.6 | 704.8 | 660.0 | 611.0 | 573.1 | 553.5 | 556.3 | 563.3 | 564.7 |
| 40° | 647.4 | 634.8 | 596.9 | 555.0 | 522.6 | 507.2 | 511.5 | 518.5 | 519.9 |
| 42.5° | 577.4 | 566.1 | 535.3 | 497.4 | 473.6 | 462.4 | 468.0 | 476.4 | 479.3 |
| 45° | 514.2 | 501.7 | 476.4 | 444.2 | 424.6 | 419.0 | 426.0 | 431.5 | 434.4 |
| 47.5° | 456.8 | 445.6 | 424.6 | 395.2 | 381.2 | 378.3 | 385.3 | 388.2 | 390.9 |
| 50° | 406.3 | 395.2 | 374.1 | 347.5 | 336.3 | 336.3 | 341.9 | 344.7 | 343.3 |
| 52.5° | 357.4 | 347.5 | 327.9 | 305.5 | 298.5 | 298.5 | 302.7 | 304.1 | 306.9 |
| 55° | 316.6 | 306.9 | 290.1 | 269.0 | 263.4 | 260.6 | 263.4 | 263.4 | 266.3 |
| 57.5° | 278.8 | 270.4 | 255.0 | 235.4 | 228.4 | 225.7 | 224.2 | 222.8 | 225.7 |
| 60° | 245.2 | 238.2 | 221.4 | 204.6 | 199.0 | 192.0 | 186.3 | 180.8 | 182.2 |
| 62.5° | 214.4 | 207.4 | 192.0 | 175.2 | 169.5 | 159.8 | 152.7 | 145.7 | 148.5 |
| 65° | 184.9 | 177.9 | 163.9 | 150.0 | 141.6 | 130.3 | 119.2 | 114.9 | 117.7 |
| 67.5° | 158.4 | 152.7 | 138.7 | 124.7 | 117.7 | 105.1 | 93.8 | 93.8 | 95.2 |
| 70° | 131.7 | 126.1 | 114.9 | 102.2 | 93.8 | 82.7 | 78.4 | 79.8 | 79.8 |
| 72.5° | 107.9 | 103.7 | 92.5 | 81.3 | 72.9 | 65.9 | 65.9 | 67.3 | 68.7 |
| 75° | 85.5 | 82.7 | 71.4 | 61.6 | 56.0 | 51.9 | 54.6 | 56.0 | 57.5 |
| 77.5° | 65.9 | 61.6 | 53.3 | 46.2 | 42.0 | 43.5 | 46.2 | 47.6 | 49.0 |
| 80° | 46.2 | 44.9 | 37.8 | 33.6 | 32.2 | 33.6 | 36.5 | 37.8 | 37.8 |
| 82.5° | 29.4 | 28.1 | 23.8 | 22.4 | 22.4 | 23.8 | 26.6 | 26.6 | 26.6 |
| 85° | 15.4 | 14.0 | 12.7 | 12.7 | 14.0 | 15.4 | 16.8 | 16.8 | 16.8 |
| 87.5° | 5.6 | 4.3 | 5.6 | 5.6 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 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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