

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: P581765

Luminaire Tested: **HCC6S15D010MB-HM60525840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581765
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: HCC6S15D010MB-HM60525840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

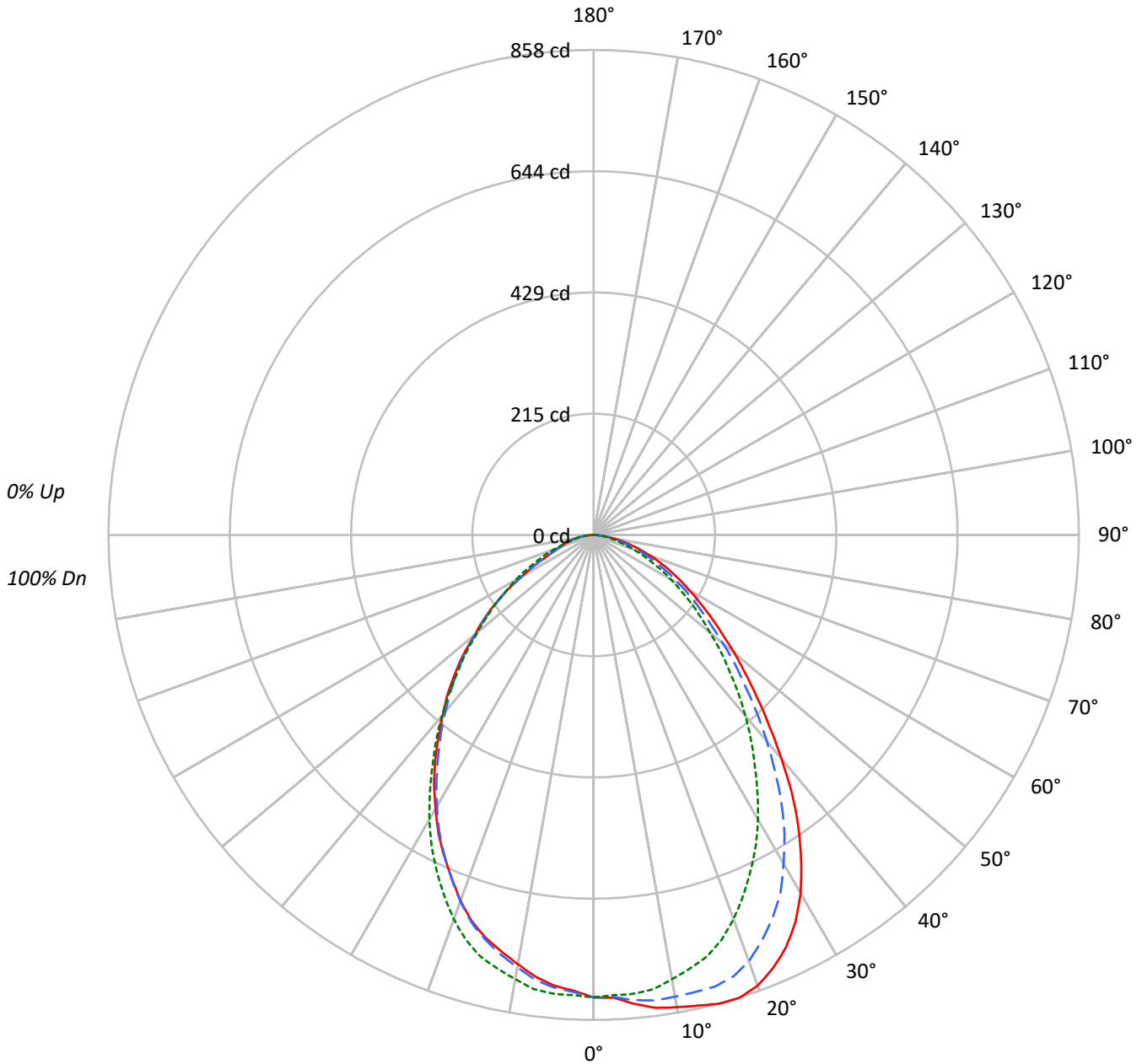
Lumens per Lamp: N/A
Luminaire Lumens: 1602.6 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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 | | | | | | | | | | |
| 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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 44859 | 44859 | 44859 |
| 5° | 45834 | 44844 | 44046 |
| 10° | 47232 | 44432 | 42935 |
| 15° | 48723 | 43842 | 41879 |
| 20° | 49500 | 42196 | 40172 |
| 25° | 48686 | 39698 | 37871 |
| 30° | 46349 | 36797 | 35385 |
| 35° | 42269 | 33214 | 32692 |
| 40° | 36955 | 29842 | 29677 |
| 45° | 31810 | 26259 | 26863 |
| 50° | 27649 | 22882 | 23360 |
| 55° | 24152 | 20090 | 20300 |
| 60° | 21457 | 17411 | 15931 |
| 65° | 19146 | 14645 | 12180 |
| 70° | 16846 | 12005 | 10210 |
| 75° | 14445 | 9468 | 9722 |
| 80° | 11649 | 8145 | 9534 |
| 85° | 7737 | 6982 | 8428 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.5 | 4.8 |
| 10°-20° | 220.6 | 13.8 |
| 20°-30° | 314.9 | 19.6 |
| 30°-40° | 329.8 | 20.6 |
| 40°-50° | 277.7 | 17.3 |
| 50°-60° | 197.6 | 12.3 |
| 60°-70° | 115.7 | 7.2 |
| 70°-80° | 54.7 | 3.4 |
| 80°-90° | 14.1 | 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° | 612.9 | 38.2 |
| 0°-40° | 942.7 | 58.8 |
| 0°-60° | 1418.1 | 88.5 |
| 0°-90° | 1602.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1602.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 818 | 818 | 818 | 818 | 818 | |
| 5° | 833 | 826 | 815 | 804 | 800 | 80 |
| 15° | 858 | 827 | 772 | 741 | 738 | 242 |
| 25° | 805 | 748 | 656 | 625 | 626 | 368 |
| 35° | 632 | 579 | 496 | 480 | 488 | 392 |
| 45° | 410 | 380 | 339 | 340 | 346 | 319 |
| 55° | 253 | 231 | 210 | 210 | 212 | 228 |
| 65° | 148 | 131 | 113 | 95 | 94 | 147 |
| 75° | 68 | 57 | 45 | 44 | 46 | 73 |
| 85° | 12 | 10 | 11 | 13 | 13 | 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° | 818.3 | 818.3 | 818.3 | 818.3 | 818.3 | 818.3 | 818.3 | 818.3 | 818.3 |
| 2.5° | 819.5 | 819.5 | 818.3 | 817.2 | 814.9 | 811.6 | 809.4 | 807.1 | 807.1 |
| 5° | 832.9 | 830.6 | 826.2 | 820.6 | 814.9 | 808.2 | 803.8 | 800.4 | 800.4 |
| 7.5° | 844.0 | 839.6 | 830.6 | 820.6 | 810.5 | 801.5 | 793.7 | 789.3 | 788.1 |
| 10° | 848.5 | 843.0 | 829.5 | 813.8 | 798.2 | 785.9 | 776.9 | 771.3 | 771.3 |
| 12.5° | 853.0 | 846.3 | 828.4 | 806.1 | 785.9 | 769.2 | 760.2 | 755.7 | 754.5 |
| 15° | 858.5 | 849.7 | 827.3 | 799.3 | 772.5 | 753.5 | 741.2 | 737.9 | 737.9 |
| 17.5° | 858.5 | 847.4 | 819.5 | 784.7 | 751.3 | 730.0 | 718.8 | 715.5 | 716.6 |
| 20° | 848.5 | 836.2 | 802.7 | 760.2 | 723.3 | 701.0 | 689.7 | 687.5 | 688.6 |
| 22.5° | 829.5 | 814.9 | 776.9 | 731.2 | 690.9 | 667.4 | 657.4 | 657.4 | 656.3 |
| 25° | 804.9 | 789.3 | 747.9 | 699.8 | 656.3 | 632.8 | 624.9 | 626.1 | 626.1 |
| 27.5° | 772.5 | 756.8 | 715.5 | 664.1 | 620.5 | 597.0 | 591.3 | 593.6 | 594.7 |
| 30° | 732.2 | 715.5 | 671.9 | 621.5 | 581.3 | 557.9 | 554.4 | 557.9 | 559.0 |
| 32.5° | 683.0 | 670.8 | 628.2 | 576.8 | 538.8 | 518.7 | 517.6 | 521.0 | 525.4 |
| 35° | 631.6 | 618.2 | 579.1 | 532.1 | 496.3 | 479.5 | 479.5 | 485.2 | 488.5 |
| 37.5° | 575.8 | 562.3 | 526.5 | 487.4 | 457.2 | 441.6 | 443.8 | 449.5 | 450.5 |
| 40° | 516.4 | 506.4 | 476.2 | 442.6 | 417.0 | 404.7 | 408.0 | 413.6 | 414.7 |
| 42.5° | 460.6 | 451.6 | 427.1 | 396.9 | 377.8 | 368.9 | 373.4 | 380.1 | 382.4 |
| 45° | 410.3 | 400.2 | 380.1 | 354.3 | 338.7 | 334.3 | 339.8 | 344.4 | 346.5 |
| 47.5° | 364.4 | 355.5 | 338.7 | 315.3 | 304.1 | 301.8 | 307.5 | 309.6 | 311.9 |
| 50° | 324.2 | 315.3 | 298.5 | 277.3 | 268.3 | 268.3 | 272.7 | 275.0 | 273.9 |
| 52.5° | 285.1 | 277.3 | 261.6 | 243.7 | 238.1 | 238.1 | 241.5 | 242.5 | 244.8 |
| 55° | 252.7 | 244.8 | 231.4 | 214.6 | 210.2 | 207.9 | 210.2 | 210.2 | 212.4 |
| 57.5° | 222.5 | 215.8 | 203.5 | 187.8 | 182.2 | 180.0 | 178.9 | 177.7 | 180.0 |
| 60° | 195.7 | 190.0 | 176.6 | 163.2 | 158.8 | 153.1 | 148.7 | 144.3 | 145.3 |
| 62.5° | 171.0 | 165.5 | 153.1 | 139.7 | 135.3 | 127.5 | 121.9 | 116.2 | 118.5 |
| 65° | 147.6 | 142.0 | 130.8 | 119.6 | 112.9 | 104.0 | 95.0 | 91.7 | 93.9 |
| 67.5° | 126.3 | 121.9 | 110.7 | 99.5 | 93.9 | 83.9 | 74.9 | 74.9 | 76.0 |
| 70° | 105.1 | 100.6 | 91.7 | 81.6 | 74.9 | 65.9 | 62.7 | 63.7 | 63.7 |
| 72.5° | 86.0 | 82.7 | 73.8 | 64.8 | 58.1 | 52.6 | 52.6 | 53.7 | 54.8 |
| 75° | 68.2 | 65.9 | 57.0 | 49.1 | 44.7 | 41.3 | 43.6 | 44.7 | 45.9 |
| 77.5° | 52.6 | 49.1 | 42.4 | 36.9 | 33.5 | 34.6 | 36.9 | 38.0 | 39.2 |
| 80° | 36.9 | 35.8 | 30.2 | 26.8 | 25.8 | 26.8 | 29.1 | 30.2 | 30.2 |
| 82.5° | 23.5 | 22.4 | 19.0 | 17.9 | 17.9 | 19.0 | 21.2 | 21.2 | 21.2 |
| 85° | 12.3 | 11.1 | 10.1 | 10.1 | 11.1 | 12.3 | 13.4 | 13.4 | 13.4 |
| 87.5° | 4.4 | 3.4 | 4.4 | 4.4 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 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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