

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: P581937

Luminaire Tested: **HCC6S20D010MW-HM60525930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581937
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: HCC6S20D010MW-HM60525930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

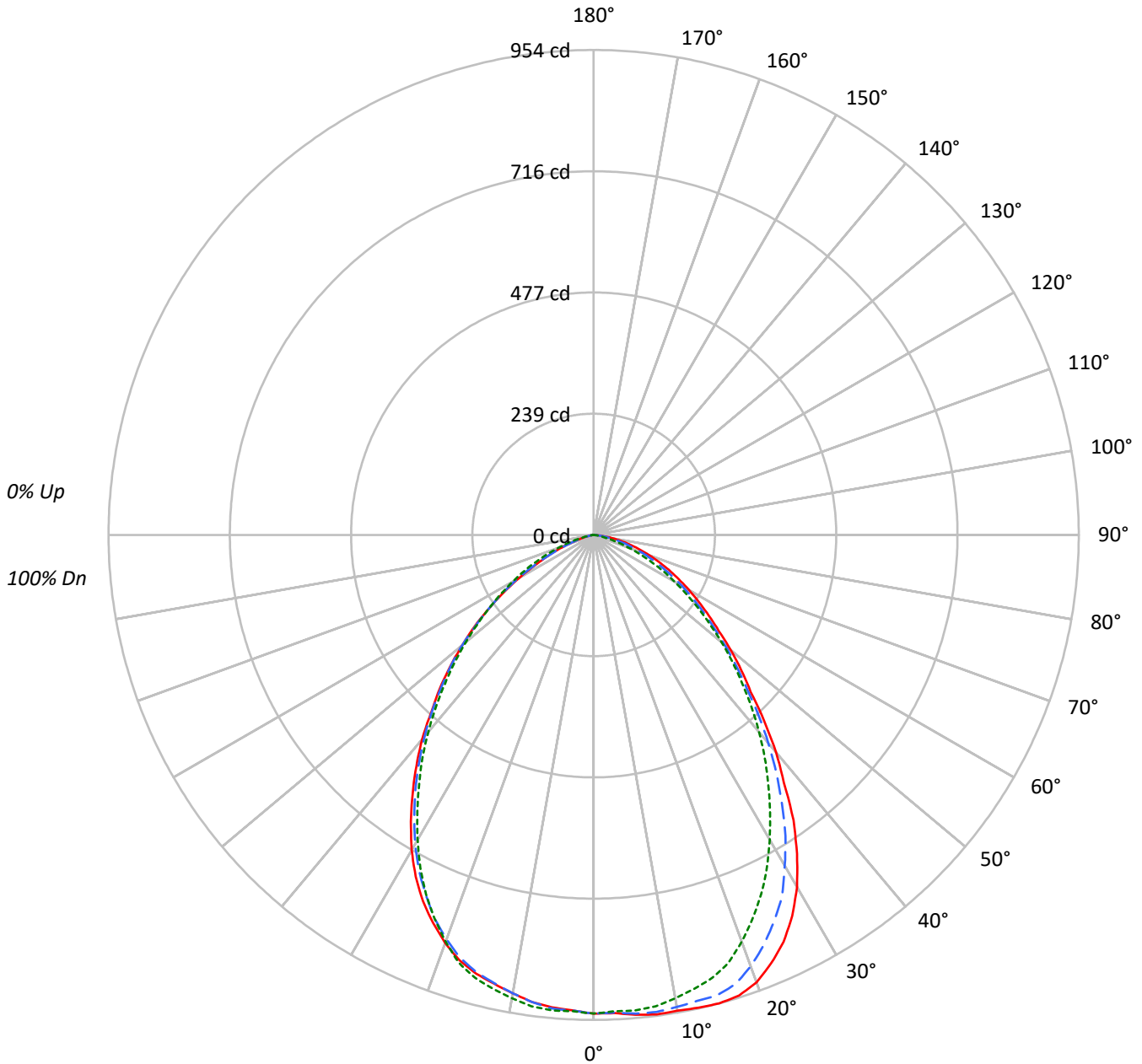
Lumens per Lamp: N/A
Luminaire Lumens: 1844.8 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (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 | 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° | 51613 | 51613 | 51613 |
| 5° | 52146 | 51673 | 51337 |
| 10° | 52888 | 51513 | 50968 |
| 15° | 54138 | 51198 | 50704 |
| 20° | 54634 | 49669 | 49815 |
| 25° | 53441 | 47168 | 48069 |
| 30° | 50622 | 43823 | 45304 |
| 35° | 45836 | 40053 | 41539 |
| 40° | 39918 | 36204 | 37535 |
| 45° | 33872 | 32050 | 33197 |
| 50° | 29995 | 27991 | 28724 |
| 55° | 26427 | 23942 | 23827 |
| 60° | 23671 | 20163 | 18529 |
| 65° | 21131 | 16163 | 13283 |
| 70° | 18593 | 11685 | 8303 |
| 75° | 15674 | 7053 | 4702 |
| 80° | 12091 | 3125 | 1926 |
| 85° | 6982 | 755 | 755 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.4 | 4.8 |
| 10°-20° | 256.9 | 13.9 |
| 20°-30° | 371.3 | 20.1 |
| 30°-40° | 390.7 | 21.2 |
| 40°-50° | 328.4 | 17.8 |
| 50°-60° | 230.5 | 12.5 |
| 60°-70° | 126.8 | 6.9 |
| 70°-80° | 45.0 | 2.4 |
| 80°-90° | 5.9 | 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° | 717.5 | 38.9 |
| 0°-40° | 1108.2 | 60.1 |
| 0°-60° | 1667.2 | 90.4 |
| 0°-90° | 1844.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1844.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 942 | 942 | 942 | 942 | 942 | |
| 5° | 948 | 945 | 939 | 935 | 933 | 91 |
| 15° | 954 | 938 | 902 | 891 | 893 | 269 |
| 25° | 884 | 839 | 780 | 781 | 795 | 404 |
| 35° | 685 | 645 | 598 | 611 | 621 | 424 |
| 45° | 437 | 424 | 413 | 423 | 428 | 343 |
| 55° | 276 | 262 | 250 | 250 | 249 | 249 |
| 65° | 163 | 146 | 125 | 102 | 102 | 162 |
| 75° | 74 | 59 | 33 | 22 | 22 | 80 |
| 85° | 11 | 6 | 1 | 1 | 1 | 15 |
| 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° | 941.5 | 941.5 | 941.5 | 941.5 | 941.5 | 941.5 | 941.5 | 941.5 | 941.5 |
| 2.5° | 941.5 | 941.5 | 940.3 | 940.3 | 937.8 | 937.8 | 936.5 | 936.5 | 936.5 |
| 5° | 947.6 | 947.6 | 945.3 | 941.5 | 939.0 | 935.4 | 935.4 | 934.2 | 932.9 |
| 7.5° | 951.4 | 950.1 | 946.5 | 941.5 | 935.4 | 929.2 | 926.7 | 927.9 | 926.7 |
| 10° | 950.1 | 947.6 | 942.8 | 932.9 | 925.4 | 916.8 | 915.6 | 914.3 | 915.6 |
| 12.5° | 952.6 | 948.9 | 939.0 | 926.7 | 914.3 | 904.5 | 903.2 | 903.2 | 904.5 |
| 15° | 953.9 | 950.1 | 937.8 | 919.3 | 902.1 | 892.1 | 890.9 | 892.1 | 893.4 |
| 17.5° | 950.1 | 945.3 | 926.7 | 902.1 | 882.3 | 872.4 | 872.4 | 874.9 | 877.4 |
| 20° | 936.5 | 929.2 | 903.2 | 873.7 | 851.4 | 844.1 | 846.5 | 851.4 | 853.9 |
| 22.5° | 912.0 | 903.2 | 873.7 | 840.3 | 816.9 | 810.8 | 816.9 | 823.0 | 825.5 |
| 25° | 883.5 | 873.7 | 839.1 | 804.5 | 779.8 | 772.5 | 781.1 | 790.9 | 794.7 |
| 27.5° | 845.3 | 834.1 | 802.1 | 762.6 | 737.9 | 734.2 | 744.0 | 755.1 | 757.6 |
| 30° | 799.7 | 787.3 | 751.5 | 714.5 | 692.3 | 691.0 | 702.1 | 712.0 | 715.7 |
| 32.5° | 744.0 | 732.9 | 702.1 | 665.1 | 645.4 | 645.4 | 656.5 | 665.1 | 668.8 |
| 35° | 684.9 | 672.5 | 645.4 | 614.5 | 598.5 | 599.7 | 610.8 | 617.0 | 620.7 |
| 37.5° | 614.5 | 610.8 | 589.8 | 563.9 | 552.8 | 555.3 | 563.9 | 568.9 | 572.6 |
| 40° | 557.8 | 547.9 | 534.3 | 513.4 | 505.9 | 508.4 | 517.0 | 522.0 | 524.5 |
| 42.5° | 496.0 | 489.9 | 478.8 | 464.0 | 459.1 | 462.7 | 470.2 | 473.8 | 472.6 |
| 45° | 436.9 | 435.6 | 424.5 | 415.8 | 413.4 | 418.3 | 423.3 | 426.9 | 428.2 |
| 47.5° | 393.6 | 388.7 | 378.9 | 372.6 | 370.2 | 375.1 | 380.1 | 382.5 | 382.5 |
| 50° | 351.7 | 346.7 | 336.8 | 330.7 | 328.2 | 333.2 | 336.8 | 339.3 | 336.8 |
| 52.5° | 309.8 | 304.8 | 296.2 | 288.8 | 287.6 | 289.9 | 291.2 | 292.4 | 294.9 |
| 55° | 276.5 | 271.5 | 261.6 | 253.0 | 250.5 | 251.8 | 250.5 | 250.5 | 249.3 |
| 57.5° | 244.3 | 239.4 | 229.5 | 219.7 | 215.9 | 214.7 | 211.0 | 209.8 | 208.6 |
| 60° | 215.9 | 209.8 | 199.9 | 188.8 | 183.9 | 178.9 | 172.8 | 169.0 | 169.0 |
| 62.5° | 188.8 | 182.6 | 171.5 | 161.7 | 154.2 | 145.6 | 135.7 | 130.7 | 130.7 |
| 65° | 162.9 | 157.9 | 145.6 | 134.5 | 124.6 | 113.5 | 102.4 | 99.9 | 102.4 |
| 67.5° | 138.2 | 133.2 | 120.9 | 109.8 | 97.4 | 84.0 | 74.0 | 74.0 | 76.5 |
| 70° | 116.0 | 111.0 | 99.9 | 86.3 | 72.9 | 59.3 | 51.8 | 51.8 | 51.8 |
| 72.5° | 95.1 | 90.1 | 77.7 | 65.4 | 51.8 | 38.3 | 34.6 | 35.8 | 34.6 |
| 75° | 74.0 | 70.4 | 59.3 | 45.7 | 33.3 | 23.5 | 22.2 | 21.0 | 22.2 |
| 77.5° | 55.5 | 51.8 | 41.9 | 29.6 | 18.5 | 13.6 | 12.3 | 12.3 | 12.3 |
| 80° | 38.3 | 34.6 | 27.2 | 17.2 | 9.9 | 6.1 | 6.1 | 6.1 | 6.1 |
| 82.5° | 23.5 | 19.7 | 14.8 | 8.6 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 85° | 11.1 | 8.6 | 6.1 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 87.5° | 2.5 | 2.5 | 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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Scaled Data Report



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

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