

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: P581944

Luminaire Tested: **HCC6W20D010SL-HM60525930-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W20D010SL-HM60525930-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

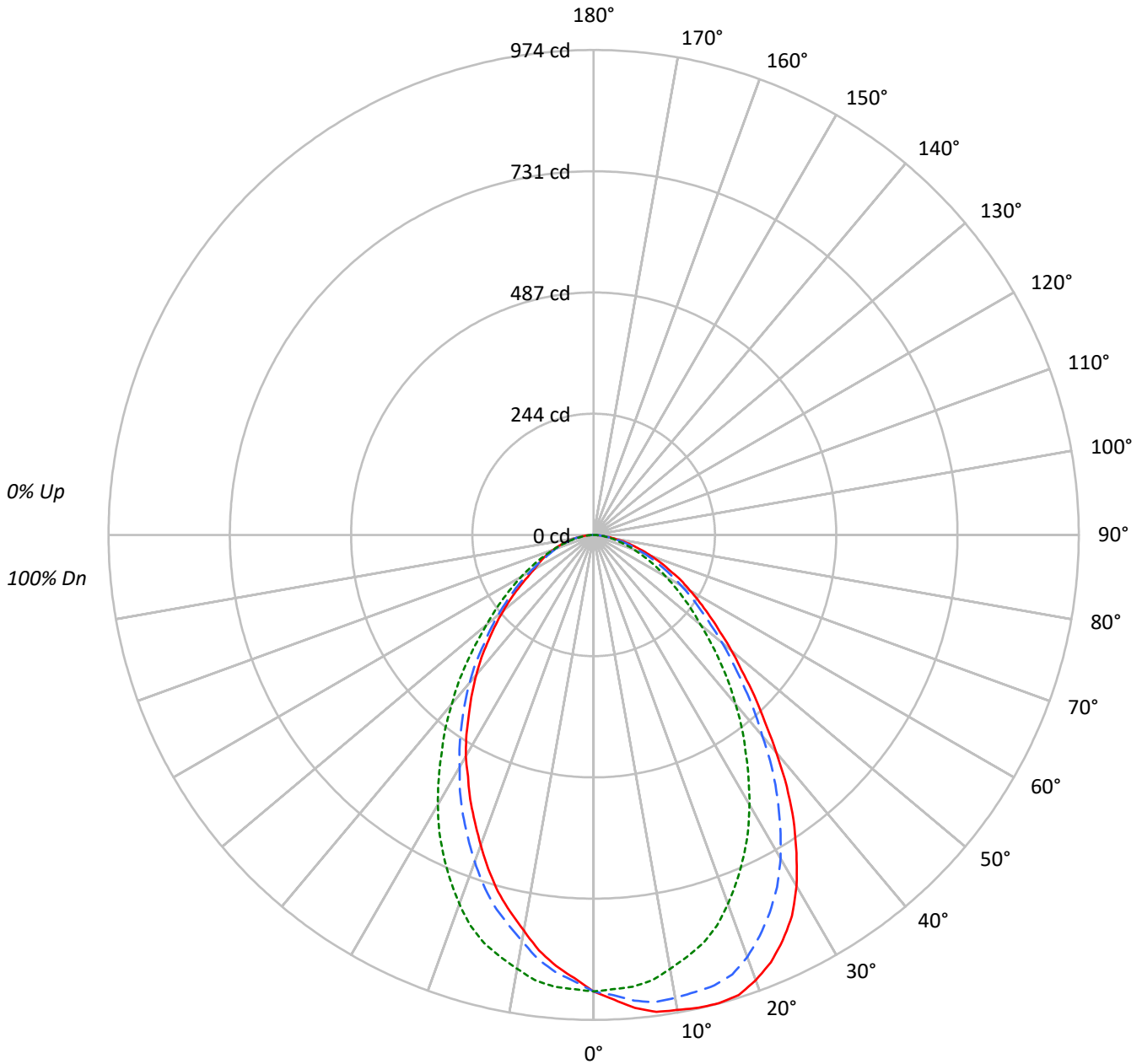
Lumens per Lamp: N/A
Luminaire Lumens: 1707.9 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 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 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 50259 | 50259 | 50259 |
| 5° | 52493 | 50115 | 47810 |
| 10° | 53924 | 49253 | 44922 |
| 15° | 55256 | 48184 | 42094 |
| 20° | 55503 | 46006 | 38661 |
| 25° | 54342 | 43067 | 35452 |
| 30° | 51552 | 39601 | 32499 |
| 35° | 46826 | 35590 | 29152 |
| 40° | 40798 | 31702 | 26228 |
| 45° | 35306 | 27747 | 23057 |
| 50° | 30831 | 23888 | 20204 |
| 55° | 27249 | 20998 | 17337 |
| 60° | 24483 | 18398 | 15021 |
| 65° | 21922 | 16007 | 14567 |
| 70° | 19571 | 13656 | 13656 |
| 75° | 16987 | 11501 | 12814 |
| 80° | 13638 | 9723 | 11681 |
| 85° | 9309 | 8554 | 10127 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.2 | 5.0 |
| 10°-20° | 239.5 | 14.0 |
| 20°-30° | 333.8 | 19.5 |
| 30°-40° | 344.0 | 20.1 |
| 40°-50° | 285.1 | 16.7 |
| 50°-60° | 204.9 | 12.0 |
| 60°-70° | 130.5 | 7.6 |
| 70°-80° | 67.0 | 3.9 |
| 80°-90° | 17.0 | 1.0 |
| 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° | 659.5 | 38.6 |
| 0°-40° | 1003.5 | 58.8 |
| 0°-60° | 1493.4 | 87.4 |
| 0°-90° | 1707.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1707.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 917 | 917 | 917 | 917 | 917 | |
| 5° | 954 | 939 | 911 | 881 | 869 | 91 |
| 15° | 974 | 937 | 849 | 771 | 742 | 274 |
| 25° | 898 | 837 | 712 | 621 | 586 | 412 |
| 35° | 700 | 643 | 532 | 462 | 436 | 435 |
| 45° | 455 | 423 | 358 | 312 | 297 | 352 |
| 55° | 285 | 262 | 220 | 195 | 181 | 257 |
| 65° | 169 | 151 | 123 | 107 | 112 | 169 |
| 75° | 80 | 69 | 54 | 57 | 60 | 86 |
| 85° | 15 | 14 | 14 | 15 | 16 | 19 |
| 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° | 916.8 | 916.8 | 916.8 | 916.8 | 916.8 | 916.8 | 916.8 | 916.8 | 916.8 |
| 2.5° | 934.2 | 930.4 | 925.5 | 920.6 | 913.2 | 904.5 | 897.1 | 894.6 | 891.0 |
| 5° | 953.9 | 949.0 | 939.0 | 926.8 | 910.7 | 894.6 | 881.1 | 872.4 | 868.8 |
| 7.5° | 966.2 | 960.1 | 946.5 | 925.5 | 902.1 | 878.6 | 858.9 | 846.6 | 841.6 |
| 10° | 968.7 | 962.5 | 944.0 | 915.7 | 884.8 | 852.7 | 828.0 | 813.3 | 807.0 |
| 12.5° | 972.5 | 963.7 | 940.3 | 907.0 | 867.5 | 830.5 | 799.7 | 781.1 | 775.0 |
| 15° | 973.6 | 963.7 | 936.7 | 895.9 | 849.0 | 804.5 | 771.2 | 749.0 | 741.7 |
| 17.5° | 968.7 | 957.6 | 925.5 | 876.1 | 823.1 | 776.2 | 736.7 | 713.2 | 703.4 |
| 20° | 951.4 | 939.0 | 902.1 | 846.6 | 788.6 | 739.2 | 698.5 | 673.8 | 662.7 |
| 22.5° | 929.2 | 913.2 | 871.2 | 812.0 | 751.5 | 699.7 | 659.0 | 634.3 | 623.2 |
| 25° | 898.4 | 883.5 | 836.6 | 773.7 | 712.0 | 657.7 | 620.7 | 594.8 | 586.1 |
| 27.5° | 862.6 | 845.3 | 797.2 | 734.2 | 671.3 | 617.0 | 581.2 | 557.8 | 546.7 |
| 30° | 814.4 | 798.4 | 750.3 | 687.4 | 625.6 | 575.0 | 538.1 | 518.2 | 513.4 |
| 32.5° | 757.6 | 744.2 | 697.2 | 638.0 | 578.7 | 531.8 | 501.0 | 480.1 | 475.1 |
| 35° | 699.7 | 683.7 | 642.9 | 587.3 | 531.8 | 489.9 | 461.5 | 443.0 | 435.6 |
| 37.5° | 636.7 | 621.9 | 587.3 | 538.1 | 488.7 | 449.2 | 424.5 | 408.4 | 401.1 |
| 40° | 570.1 | 559.0 | 527.0 | 487.4 | 443.0 | 408.4 | 387.5 | 373.9 | 366.5 |
| 42.5° | 508.4 | 497.3 | 475.1 | 438.0 | 401.1 | 370.2 | 351.7 | 339.3 | 333.2 |
| 45° | 455.4 | 445.5 | 423.3 | 391.2 | 357.9 | 332.0 | 312.3 | 303.5 | 297.4 |
| 47.5° | 402.3 | 397.3 | 377.6 | 347.9 | 317.1 | 294.9 | 281.3 | 271.5 | 266.6 |
| 50° | 361.5 | 355.4 | 336.8 | 306.0 | 280.1 | 262.9 | 250.5 | 241.9 | 236.9 |
| 52.5° | 319.6 | 313.4 | 296.2 | 270.2 | 249.3 | 233.3 | 220.9 | 213.5 | 208.6 |
| 55° | 285.1 | 280.1 | 261.6 | 238.2 | 219.7 | 206.1 | 195.0 | 186.4 | 181.4 |
| 57.5° | 253.0 | 248.0 | 230.8 | 208.6 | 192.5 | 180.1 | 170.3 | 162.9 | 156.7 |
| 60° | 223.3 | 219.7 | 202.4 | 181.4 | 167.8 | 155.4 | 146.8 | 140.7 | 137.0 |
| 62.5° | 197.5 | 190.0 | 175.3 | 156.7 | 144.3 | 134.5 | 125.9 | 122.1 | 124.6 |
| 65° | 169.0 | 165.3 | 150.6 | 134.5 | 123.4 | 113.5 | 107.4 | 109.8 | 112.3 |
| 67.5° | 145.6 | 140.7 | 128.4 | 113.5 | 103.7 | 96.3 | 92.6 | 97.4 | 98.7 |
| 70° | 122.1 | 117.3 | 106.2 | 93.8 | 85.2 | 80.2 | 80.2 | 84.0 | 85.2 |
| 72.5° | 99.9 | 96.3 | 86.3 | 76.5 | 70.4 | 66.6 | 69.1 | 71.6 | 72.9 |
| 75° | 80.2 | 76.5 | 69.1 | 60.5 | 54.3 | 54.3 | 56.8 | 59.3 | 60.5 |
| 77.5° | 61.7 | 59.3 | 51.8 | 45.7 | 43.2 | 43.2 | 45.7 | 46.9 | 48.2 |
| 80° | 43.2 | 40.7 | 37.0 | 33.3 | 30.8 | 33.3 | 35.8 | 35.8 | 37.0 |
| 82.5° | 28.4 | 27.2 | 24.7 | 22.2 | 22.2 | 23.5 | 24.7 | 25.9 | 25.9 |
| 85° | 14.8 | 14.8 | 13.6 | 12.3 | 13.6 | 14.8 | 14.8 | 16.1 | 16.1 |
| 87.5° | 5.0 | 5.0 | 5.0 | 5.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 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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