

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: P581945

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581945
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: HCC6W20D010SL-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

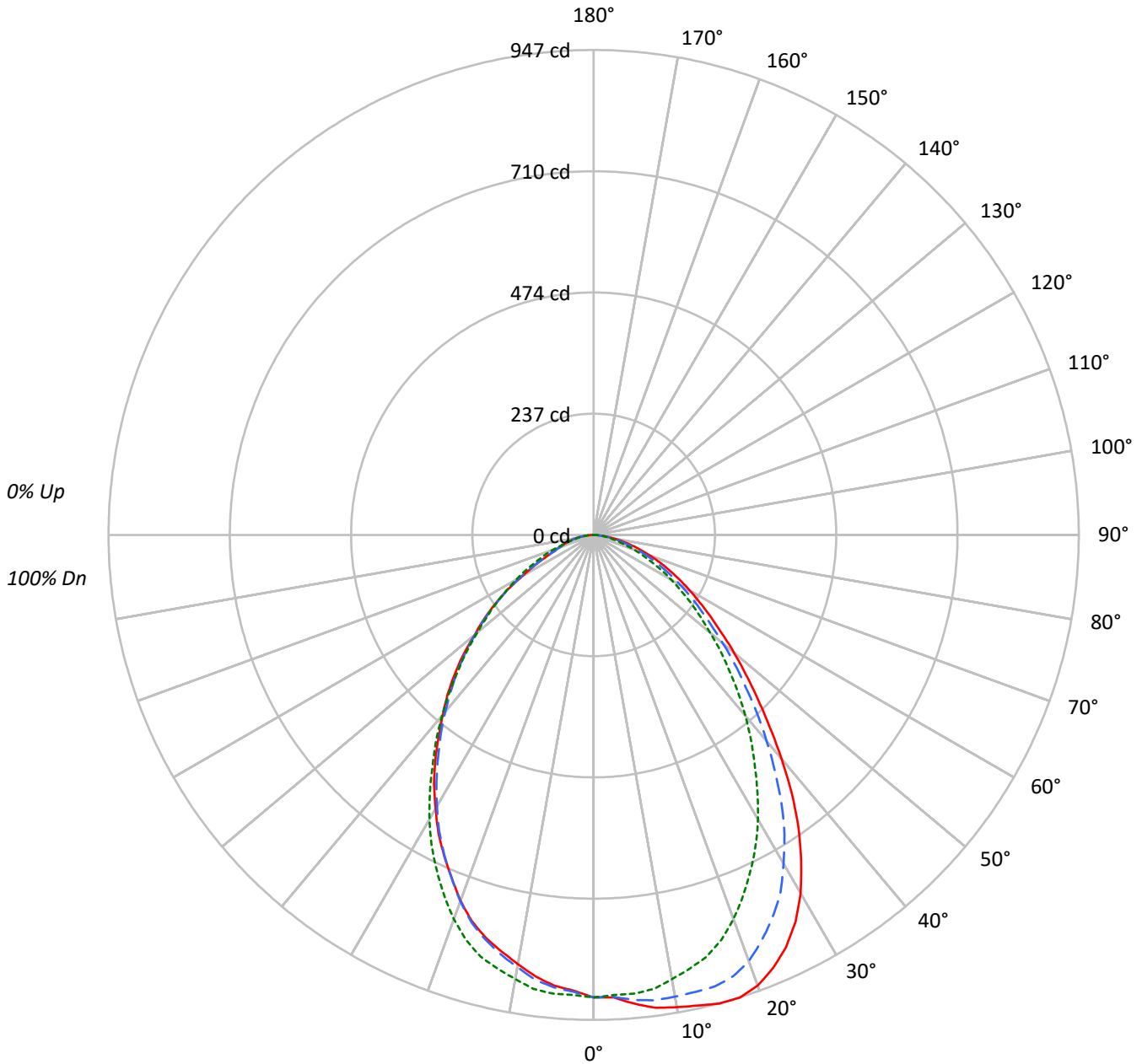
Lumens per Lamp: N/A
Luminaire Lumens: 1768.4 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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° | 49503 | 49503 | 49503 |
| 5° | 50572 | 49488 | 48608 |
| 10° | 52120 | 49030 | 47383 |
| 15° | 53769 | 48383 | 46209 |
| 20° | 54622 | 46560 | 44331 |
| 25° | 53725 | 43799 | 41785 |
| 30° | 51153 | 40608 | 39044 |
| 35° | 46645 | 36654 | 36078 |
| 40° | 40784 | 32926 | 32747 |
| 45° | 35097 | 28980 | 29646 |
| 50° | 30506 | 25253 | 25782 |
| 55° | 26647 | 22164 | 22403 |
| 60° | 23660 | 19209 | 17575 |
| 65° | 21118 | 16163 | 13452 |
| 70° | 18577 | 13239 | 11284 |
| 75° | 15928 | 10463 | 10696 |
| 80° | 12849 | 8934 | 10513 |
| 85° | 8554 | 7737 | 9309 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.5 | 4.8 |
| 10°-20° | 243.4 | 13.8 |
| 20°-30° | 347.4 | 19.6 |
| 30°-40° | 363.9 | 20.6 |
| 40°-50° | 306.4 | 17.3 |
| 50°-60° | 218.1 | 12.3 |
| 60°-70° | 127.7 | 7.2 |
| 70°-80° | 60.4 | 3.4 |
| 80°-90° | 15.5 | 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° | 676.3 | 38.2 |
| 0°-40° | 1040.3 | 58.8 |
| 0°-60° | 1564.8 | 88.5 |
| 0°-90° | 1768.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1768.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 903 | 903 | 903 | 903 | 903 | |
| 5° | 919 | 912 | 899 | 887 | 883 | 88 |
| 15° | 947 | 913 | 852 | 818 | 814 | 267 |
| 25° | 888 | 825 | 724 | 690 | 691 | 407 |
| 35° | 697 | 639 | 548 | 529 | 539 | 433 |
| 45° | 453 | 419 | 374 | 375 | 382 | 351 |
| 55° | 279 | 255 | 232 | 232 | 234 | 251 |
| 65° | 163 | 144 | 125 | 105 | 104 | 162 |
| 75° | 75 | 63 | 49 | 48 | 50 | 81 |
| 85° | 14 | 11 | 12 | 15 | 15 | 18 |
| 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° | 903.0 | 903.0 | 903.0 | 903.0 | 903.0 | 903.0 | 903.0 | 903.0 | 903.0 |
| 2.5° | 904.2 | 904.2 | 903.0 | 901.8 | 899.3 | 895.6 | 893.1 | 890.7 | 890.7 |
| 5° | 919.0 | 916.6 | 911.6 | 905.5 | 899.3 | 891.9 | 886.9 | 883.3 | 883.3 |
| 7.5° | 931.3 | 926.5 | 916.6 | 905.5 | 894.4 | 884.5 | 875.8 | 870.9 | 869.7 |
| 10° | 936.3 | 930.1 | 915.4 | 898.0 | 880.8 | 867.2 | 857.3 | 851.2 | 851.2 |
| 12.5° | 941.2 | 933.8 | 914.1 | 889.4 | 867.2 | 848.7 | 838.9 | 833.9 | 832.6 |
| 15° | 947.4 | 937.6 | 912.9 | 882.0 | 852.5 | 831.4 | 817.9 | 814.2 | 814.2 |
| 17.5° | 947.4 | 935.1 | 904.2 | 866.0 | 829.0 | 805.6 | 793.2 | 789.5 | 790.7 |
| 20° | 936.3 | 922.7 | 885.8 | 838.9 | 798.1 | 773.5 | 761.1 | 758.7 | 759.9 |
| 22.5° | 915.4 | 899.3 | 857.3 | 806.8 | 762.4 | 736.4 | 725.3 | 725.3 | 724.1 |
| 25° | 888.2 | 870.9 | 825.3 | 772.3 | 724.1 | 698.3 | 689.5 | 690.8 | 690.8 |
| 27.5° | 852.5 | 835.1 | 789.5 | 732.7 | 684.7 | 658.7 | 652.6 | 655.0 | 656.2 |
| 30° | 808.1 | 789.5 | 741.4 | 685.9 | 641.5 | 615.6 | 611.8 | 615.6 | 616.8 |
| 32.5° | 753.8 | 740.2 | 693.3 | 636.5 | 594.6 | 572.4 | 571.1 | 574.9 | 579.8 |
| 35° | 697.0 | 682.2 | 639.0 | 587.2 | 547.7 | 529.2 | 529.2 | 535.3 | 539.1 |
| 37.5° | 635.3 | 620.5 | 581.0 | 537.8 | 504.5 | 487.3 | 489.8 | 495.9 | 497.2 |
| 40° | 569.9 | 558.8 | 525.5 | 488.5 | 460.1 | 446.5 | 450.3 | 456.5 | 457.6 |
| 42.5° | 508.3 | 498.4 | 471.2 | 437.9 | 416.9 | 407.1 | 412.1 | 419.4 | 421.9 |
| 45° | 452.7 | 441.6 | 419.4 | 391.0 | 373.8 | 368.8 | 375.0 | 379.9 | 382.4 |
| 47.5° | 402.1 | 392.2 | 373.8 | 347.8 | 335.6 | 333.1 | 339.2 | 341.7 | 344.2 |
| 50° | 357.7 | 347.8 | 329.4 | 305.9 | 296.1 | 296.1 | 301.0 | 303.4 | 302.3 |
| 52.5° | 314.5 | 305.9 | 288.7 | 269.0 | 262.7 | 262.7 | 266.5 | 267.7 | 270.1 |
| 55° | 278.8 | 270.1 | 255.4 | 236.8 | 231.9 | 229.4 | 231.9 | 231.9 | 234.4 |
| 57.5° | 245.5 | 238.0 | 224.6 | 207.2 | 201.1 | 198.6 | 197.4 | 196.1 | 198.6 |
| 60° | 215.8 | 209.7 | 194.9 | 180.1 | 175.2 | 169.0 | 164.1 | 159.2 | 160.3 |
| 62.5° | 188.8 | 182.5 | 169.0 | 154.2 | 149.2 | 140.6 | 134.5 | 128.3 | 130.7 |
| 65° | 162.8 | 156.7 | 144.3 | 132.0 | 124.6 | 114.8 | 104.8 | 101.2 | 103.7 |
| 67.5° | 139.4 | 134.5 | 122.1 | 109.8 | 103.7 | 92.6 | 82.6 | 82.6 | 83.8 |
| 70° | 115.9 | 111.0 | 101.2 | 90.1 | 82.6 | 72.7 | 69.1 | 70.4 | 70.4 |
| 72.5° | 94.9 | 91.3 | 81.5 | 71.5 | 64.1 | 58.0 | 58.0 | 59.3 | 60.5 |
| 75° | 75.2 | 72.7 | 62.9 | 54.3 | 49.4 | 45.7 | 48.2 | 49.4 | 50.5 |
| 77.5° | 58.0 | 54.3 | 46.9 | 40.7 | 37.0 | 38.3 | 40.7 | 41.9 | 43.2 |
| 80° | 40.7 | 39.4 | 33.3 | 29.6 | 28.3 | 29.6 | 32.1 | 33.3 | 33.3 |
| 82.5° | 25.9 | 24.7 | 21.0 | 19.7 | 19.7 | 21.0 | 23.5 | 23.5 | 23.5 |
| 85° | 13.6 | 12.3 | 11.1 | 11.1 | 12.3 | 13.6 | 14.8 | 14.8 | 14.8 |
| 87.5° | 5.0 | 3.7 | 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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