

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: P581927

Luminaire Tested: **HCC6W20D010SL-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581927
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-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

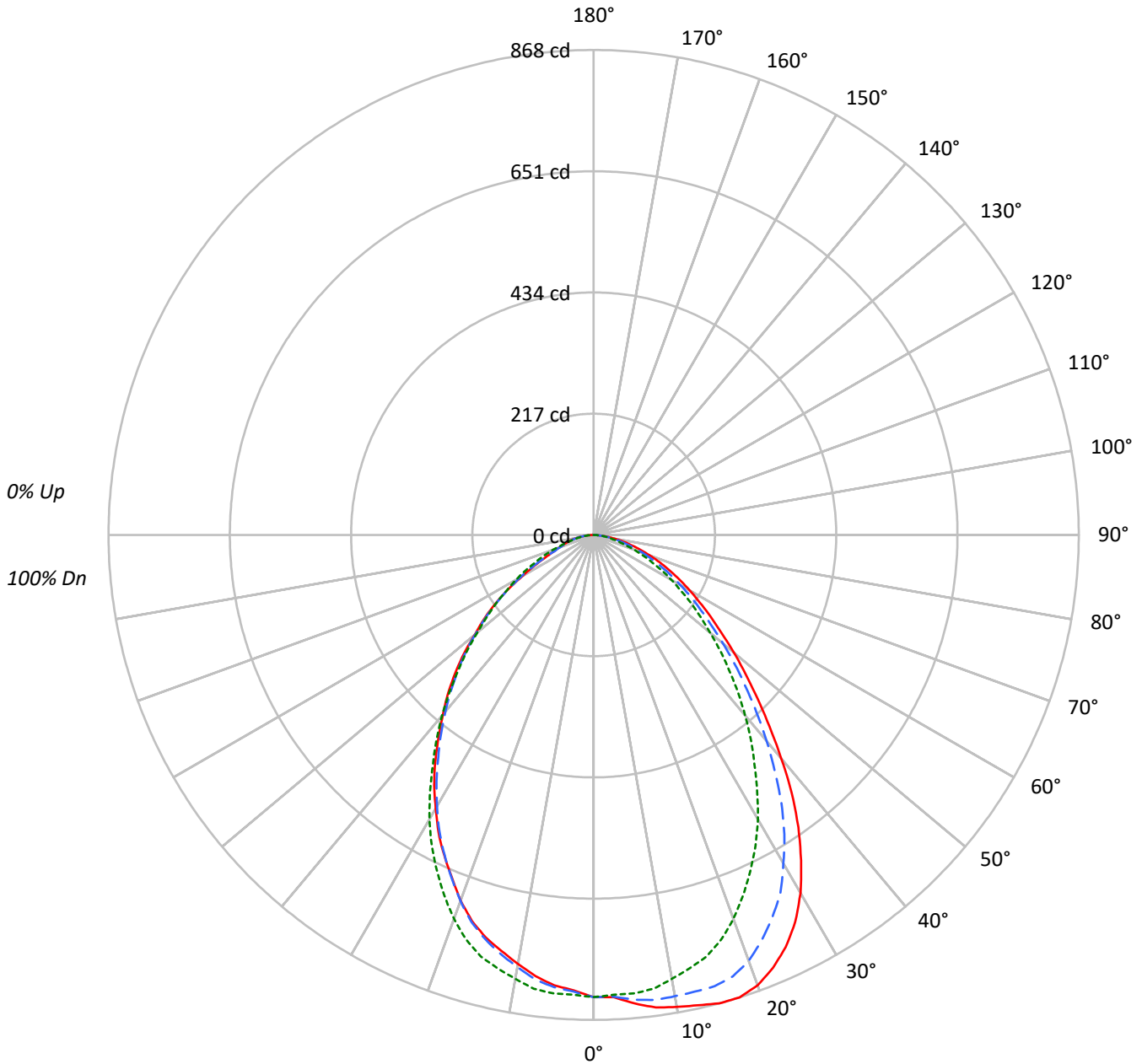
Lumens per Lamp: N/A
Luminaire Lumens: 1619.9 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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° | 45347 | 45347 | 45347 |
| 5° | 46324 | 45333 | 44524 |
| 10° | 47745 | 44911 | 43403 |
| 15° | 49257 | 44319 | 42333 |
| 20° | 50037 | 42651 | 40609 |
| 25° | 49213 | 40127 | 38276 |
| 30° | 46855 | 37196 | 35765 |
| 35° | 42724 | 33575 | 33047 |
| 40° | 37363 | 30164 | 29999 |
| 45° | 32151 | 26545 | 27158 |
| 50° | 27948 | 23129 | 23615 |
| 55° | 24410 | 20300 | 20520 |
| 60° | 21676 | 17586 | 16117 |
| 65° | 19354 | 14801 | 12310 |
| 70° | 17038 | 12133 | 10322 |
| 75° | 14594 | 9574 | 9807 |
| 80° | 11775 | 8177 | 9629 |
| 85° | 7862 | 7108 | 8554 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.3 | 4.8 |
| 10°-20° | 223.0 | 13.8 |
| 20°-30° | 318.3 | 19.6 |
| 30°-40° | 333.4 | 20.6 |
| 40°-50° | 280.7 | 17.3 |
| 50°-60° | 199.8 | 12.3 |
| 60°-70° | 116.9 | 7.2 |
| 70°-80° | 55.3 | 3.4 |
| 80°-90° | 14.2 | 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° | 619.5 | 38.2 |
| 0°-40° | 952.9 | 58.8 |
| 0°-60° | 1433.4 | 88.5 |
| 0°-90° | 1619.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1619.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 827 | 827 | 827 | 827 | 827 | |
| 5° | 842 | 835 | 824 | 812 | 809 | 81 |
| 15° | 868 | 836 | 781 | 749 | 746 | 245 |
| 25° | 814 | 756 | 663 | 632 | 633 | 372 |
| 35° | 638 | 585 | 502 | 485 | 494 | 397 |
| 45° | 415 | 384 | 342 | 344 | 350 | 322 |
| 55° | 255 | 234 | 212 | 212 | 215 | 230 |
| 65° | 149 | 132 | 114 | 96 | 95 | 149 |
| 75° | 69 | 58 | 45 | 44 | 46 | 74 |
| 85° | 12 | 10 | 11 | 14 | 14 | 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° | 827.2 | 827.2 | 827.2 | 827.2 | 827.2 | 827.2 | 827.2 | 827.2 | 827.2 |
| 2.5° | 828.3 | 828.3 | 827.2 | 826.1 | 823.8 | 820.4 | 818.1 | 815.9 | 815.9 |
| 5° | 841.8 | 839.6 | 835.1 | 829.5 | 823.8 | 817.0 | 812.5 | 809.1 | 809.1 |
| 7.5° | 853.1 | 848.6 | 839.6 | 829.5 | 819.3 | 810.2 | 802.3 | 797.7 | 796.6 |
| 10° | 857.7 | 852.0 | 838.4 | 822.7 | 806.8 | 794.3 | 785.4 | 779.7 | 779.7 |
| 12.5° | 862.2 | 855.4 | 837.3 | 814.7 | 794.3 | 777.5 | 768.4 | 763.9 | 762.7 |
| 15° | 867.9 | 858.8 | 836.3 | 807.9 | 780.9 | 761.6 | 749.3 | 745.9 | 745.9 |
| 17.5° | 867.9 | 856.5 | 828.3 | 793.3 | 759.3 | 737.9 | 726.6 | 723.2 | 724.3 |
| 20° | 857.7 | 845.2 | 811.3 | 768.4 | 731.1 | 708.5 | 697.2 | 695.0 | 696.1 |
| 22.5° | 838.4 | 823.8 | 785.4 | 739.1 | 698.4 | 674.6 | 664.5 | 664.5 | 663.4 |
| 25° | 813.6 | 797.7 | 755.9 | 707.4 | 663.4 | 639.6 | 631.6 | 632.8 | 632.8 |
| 27.5° | 780.9 | 765.0 | 723.2 | 671.2 | 627.1 | 603.4 | 597.8 | 600.0 | 601.2 |
| 30° | 740.2 | 723.2 | 679.1 | 628.2 | 587.6 | 563.9 | 560.5 | 563.9 | 565.0 |
| 32.5° | 690.5 | 678.0 | 635.0 | 583.0 | 544.6 | 524.4 | 523.2 | 526.6 | 531.2 |
| 35° | 638.4 | 624.8 | 585.3 | 537.8 | 501.7 | 484.8 | 484.8 | 490.5 | 493.8 |
| 37.5° | 581.9 | 568.4 | 532.3 | 492.7 | 462.2 | 446.4 | 448.7 | 454.2 | 455.4 |
| 40° | 522.1 | 511.9 | 481.4 | 447.5 | 421.5 | 409.0 | 412.4 | 418.1 | 419.2 |
| 42.5° | 465.5 | 456.5 | 431.7 | 401.2 | 381.9 | 372.9 | 377.4 | 384.2 | 386.5 |
| 45° | 414.7 | 404.6 | 384.2 | 358.3 | 342.4 | 337.9 | 343.5 | 348.1 | 350.3 |
| 47.5° | 368.3 | 359.4 | 342.4 | 318.7 | 307.4 | 305.1 | 310.8 | 313.0 | 315.3 |
| 50° | 327.7 | 318.7 | 301.7 | 280.2 | 271.2 | 271.2 | 275.8 | 278.0 | 276.9 |
| 52.5° | 288.1 | 280.2 | 264.4 | 246.3 | 240.6 | 240.6 | 244.0 | 245.2 | 247.4 |
| 55° | 255.4 | 247.4 | 234.0 | 217.0 | 212.4 | 210.2 | 212.4 | 212.4 | 214.7 |
| 57.5° | 224.9 | 218.1 | 205.6 | 189.9 | 184.2 | 182.0 | 180.8 | 179.7 | 182.0 |
| 60° | 197.7 | 192.2 | 178.6 | 165.0 | 160.4 | 154.8 | 150.2 | 145.8 | 147.0 |
| 62.5° | 172.9 | 167.2 | 154.8 | 141.3 | 136.8 | 128.8 | 123.2 | 117.5 | 119.8 |
| 65° | 149.2 | 143.6 | 132.2 | 120.9 | 114.1 | 105.1 | 96.1 | 92.7 | 94.9 |
| 67.5° | 127.7 | 123.2 | 111.8 | 100.6 | 94.9 | 84.7 | 75.7 | 75.7 | 76.8 |
| 70° | 106.3 | 101.7 | 92.7 | 82.5 | 75.7 | 66.6 | 63.3 | 64.4 | 64.4 |
| 72.5° | 87.0 | 83.6 | 74.6 | 65.5 | 58.8 | 53.1 | 53.1 | 54.3 | 55.4 |
| 75° | 68.9 | 66.6 | 57.7 | 49.7 | 45.2 | 41.8 | 44.1 | 45.2 | 46.3 |
| 77.5° | 53.1 | 49.7 | 42.9 | 37.3 | 33.9 | 35.0 | 37.3 | 38.4 | 39.5 |
| 80° | 37.3 | 36.1 | 30.5 | 27.1 | 25.9 | 27.1 | 29.3 | 30.5 | 30.5 |
| 82.5° | 23.7 | 22.5 | 19.3 | 18.1 | 18.1 | 19.3 | 21.4 | 21.4 | 21.4 |
| 85° | 12.5 | 11.3 | 10.2 | 10.2 | 11.3 | 12.5 | 13.6 | 13.6 | 13.6 |
| 87.5° | 4.5 | 3.4 | 4.5 | 4.5 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 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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