

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: P581918

Luminaire Tested: **HCC6S20D010SL-HM60525927-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S20D010SL-HM60525927-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

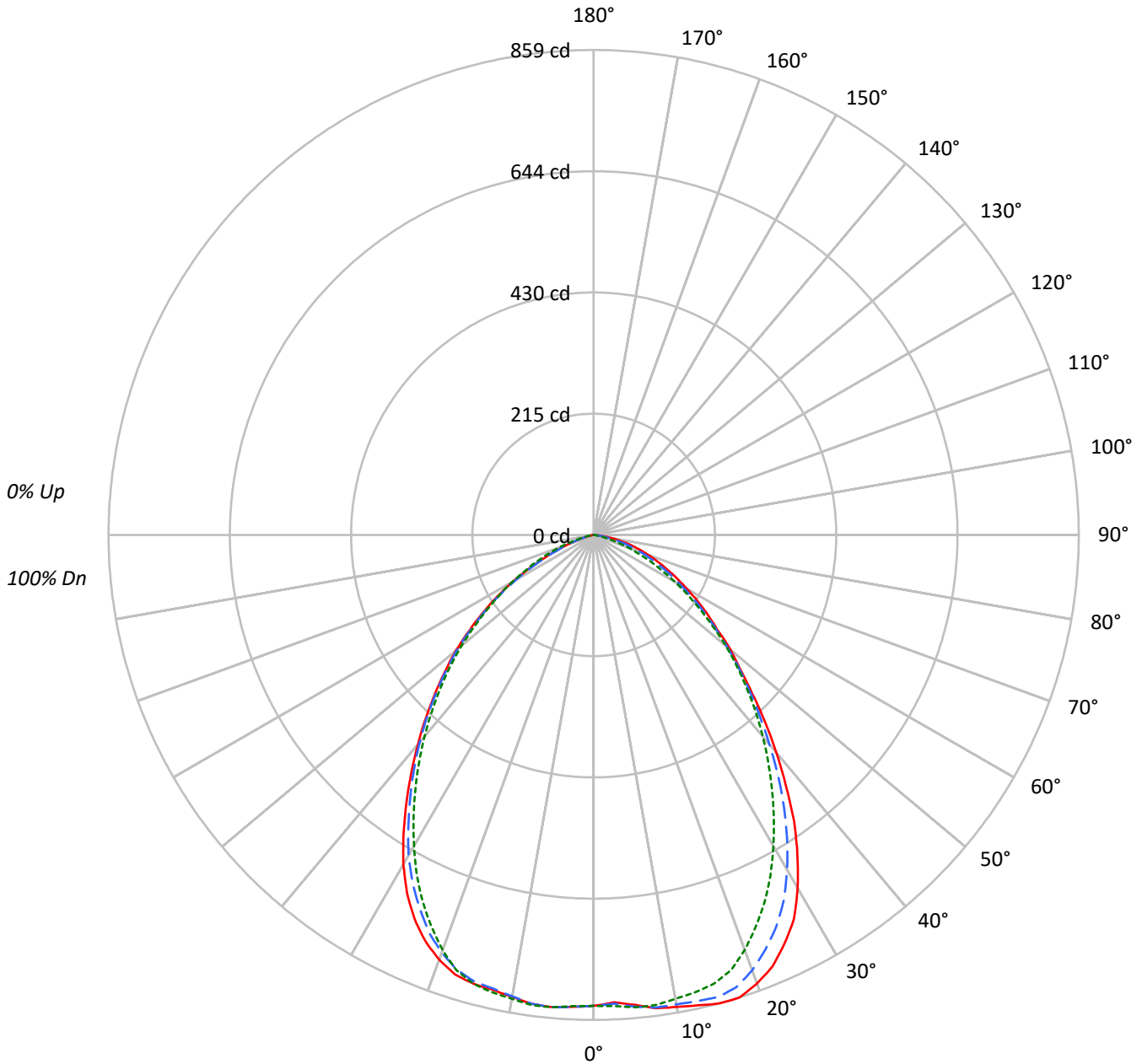
Lumens per Lamp: N/A
Luminaire Lumens: 1684.3 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | | | | |
| 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 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 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° | 45736 | 45736 | 45736 |
| 5° | 45977 | 46219 | 46219 |
| 10° | 47260 | 46442 | 46253 |
| 15° | 48763 | 46709 | 46709 |
| 20° | 49331 | 45638 | 46694 |
| 25° | 48342 | 43351 | 45402 |
| 30° | 45729 | 40285 | 42652 |
| 35° | 41385 | 36841 | 38661 |
| 40° | 36003 | 33334 | 34622 |
| 45° | 30763 | 29709 | 30763 |
| 50° | 27001 | 26029 | 27095 |
| 55° | 23550 | 21925 | 22795 |
| 60° | 20821 | 18222 | 17970 |
| 65° | 18471 | 14372 | 12310 |
| 70° | 16301 | 10146 | 7421 |
| 75° | 13895 | 5740 | 3601 |
| 80° | 10323 | 1799 | 1073 |
| 85° | 5724 | 692 | 692 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.0 | 4.8 |
| 10°-20° | 234.1 | 13.9 |
| 20°-30° | 342.0 | 20.3 |
| 30°-40° | 358.7 | 21.3 |
| 40°-50° | 302.1 | 17.9 |
| 50°-60° | 211.7 | 12.6 |
| 60°-70° | 113.5 | 6.7 |
| 70°-80° | 38.1 | 2.3 |
| 80°-90° | 4.1 | 0.2 |
| 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° | 656.1 | 39.0 |
| 0°-40° | 1014.8 | 60.2 |
| 0°-60° | 1528.6 | 90.8 |
| 0°-90° | 1684.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1684.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 834 | 834 | 834 | 834 | 834 | |
| 5° | 836 | 839 | 840 | 840 | 840 | 80 |
| 15° | 859 | 848 | 823 | 818 | 823 | 242 |
| 25° | 799 | 765 | 717 | 729 | 751 | 366 |
| 35° | 618 | 587 | 550 | 566 | 578 | 384 |
| 45° | 397 | 390 | 383 | 393 | 397 | 309 |
| 55° | 246 | 238 | 229 | 234 | 238 | 222 |
| 65° | 142 | 130 | 111 | 92 | 95 | 142 |
| 75° | 66 | 51 | 27 | 17 | 17 | 70 |
| 85° | 9 | 4 | 1 | 1 | 1 | 12 |
| 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° | 834.3 | 834.3 | 834.3 | 834.3 | 834.3 | 834.3 | 834.3 | 834.3 | 834.3 |
| 2.5° | 828.7 | 828.7 | 830.9 | 833.2 | 835.5 | 835.5 | 836.6 | 837.7 | 836.6 |
| 5° | 835.5 | 835.5 | 838.8 | 839.9 | 839.9 | 838.8 | 839.9 | 839.9 | 839.9 |
| 7.5° | 845.6 | 843.3 | 844.4 | 842.2 | 839.9 | 838.8 | 837.7 | 837.7 | 837.7 |
| 10° | 849.0 | 846.7 | 844.4 | 839.9 | 834.3 | 830.9 | 829.8 | 830.9 | 830.9 |
| 12.5° | 853.5 | 851.2 | 845.6 | 836.6 | 829.8 | 824.1 | 823.0 | 825.3 | 825.3 |
| 15° | 859.2 | 856.9 | 847.8 | 833.2 | 823.0 | 817.3 | 818.5 | 820.7 | 823.0 |
| 17.5° | 859.2 | 854.6 | 839.9 | 820.7 | 808.3 | 802.6 | 807.1 | 812.8 | 816.2 |
| 20° | 845.6 | 841.0 | 820.7 | 797.0 | 782.3 | 778.9 | 786.9 | 797.0 | 800.4 |
| 22.5° | 827.5 | 818.5 | 794.7 | 766.5 | 750.6 | 750.6 | 761.9 | 774.4 | 778.9 |
| 25° | 799.2 | 792.4 | 765.3 | 732.6 | 716.7 | 715.6 | 729.2 | 746.1 | 750.6 |
| 27.5° | 767.6 | 758.5 | 729.2 | 695.2 | 678.3 | 679.5 | 694.1 | 711.1 | 715.6 |
| 30° | 722.4 | 711.1 | 685.1 | 652.3 | 636.4 | 640.9 | 655.7 | 668.1 | 673.8 |
| 32.5° | 671.5 | 661.3 | 637.5 | 607.1 | 593.5 | 598.0 | 610.5 | 621.8 | 626.3 |
| 35° | 618.4 | 607.1 | 586.7 | 559.6 | 550.5 | 555.1 | 566.4 | 575.5 | 577.7 |
| 37.5° | 558.5 | 550.5 | 535.8 | 514.4 | 507.6 | 513.2 | 522.3 | 528.0 | 530.2 |
| 40° | 503.1 | 496.3 | 483.8 | 468.0 | 465.8 | 470.3 | 479.4 | 482.8 | 483.8 |
| 42.5° | 448.8 | 443.1 | 435.2 | 424.0 | 424.0 | 428.5 | 436.3 | 438.6 | 439.7 |
| 45° | 396.8 | 393.4 | 390.0 | 381.0 | 383.2 | 388.8 | 393.4 | 396.8 | 396.8 |
| 47.5° | 351.6 | 352.7 | 348.2 | 341.4 | 343.6 | 349.3 | 352.7 | 356.1 | 356.1 |
| 50° | 316.6 | 313.2 | 308.6 | 301.8 | 305.2 | 309.8 | 314.3 | 316.6 | 317.7 |
| 52.5° | 275.9 | 274.8 | 271.4 | 263.4 | 265.7 | 268.0 | 272.5 | 275.9 | 277.0 |
| 55° | 246.4 | 243.0 | 238.5 | 229.4 | 229.4 | 231.7 | 234.0 | 236.2 | 238.5 |
| 57.5° | 218.2 | 214.8 | 208.0 | 197.8 | 196.7 | 196.7 | 195.6 | 197.8 | 201.2 |
| 60° | 189.9 | 188.8 | 178.6 | 169.6 | 166.2 | 162.8 | 158.3 | 159.4 | 163.9 |
| 62.5° | 165.1 | 162.8 | 153.7 | 142.4 | 135.6 | 130.0 | 124.4 | 123.3 | 127.7 |
| 65° | 142.4 | 140.2 | 130.0 | 118.7 | 110.8 | 100.6 | 91.5 | 91.5 | 94.9 |
| 67.5° | 122.1 | 117.6 | 108.5 | 96.1 | 85.9 | 73.5 | 64.5 | 66.7 | 67.9 |
| 70° | 101.7 | 98.3 | 88.1 | 75.8 | 63.3 | 50.9 | 45.2 | 46.3 | 46.3 |
| 72.5° | 83.6 | 79.1 | 69.0 | 56.5 | 44.1 | 32.7 | 30.5 | 29.3 | 29.3 |
| 75° | 65.6 | 61.1 | 50.9 | 38.4 | 27.1 | 19.3 | 17.0 | 17.0 | 17.0 |
| 77.5° | 47.5 | 44.1 | 35.0 | 23.8 | 14.7 | 9.1 | 7.9 | 6.8 | 6.8 |
| 80° | 32.7 | 29.3 | 21.5 | 12.5 | 5.7 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 19.3 | 15.9 | 10.2 | 5.7 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 9.1 | 6.8 | 4.5 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 87.5° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 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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