

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: P593104

Luminaire Tested: **HCC6W15D010SL-HM60525850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593104
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: HCC6W15D010SL-HM60525850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

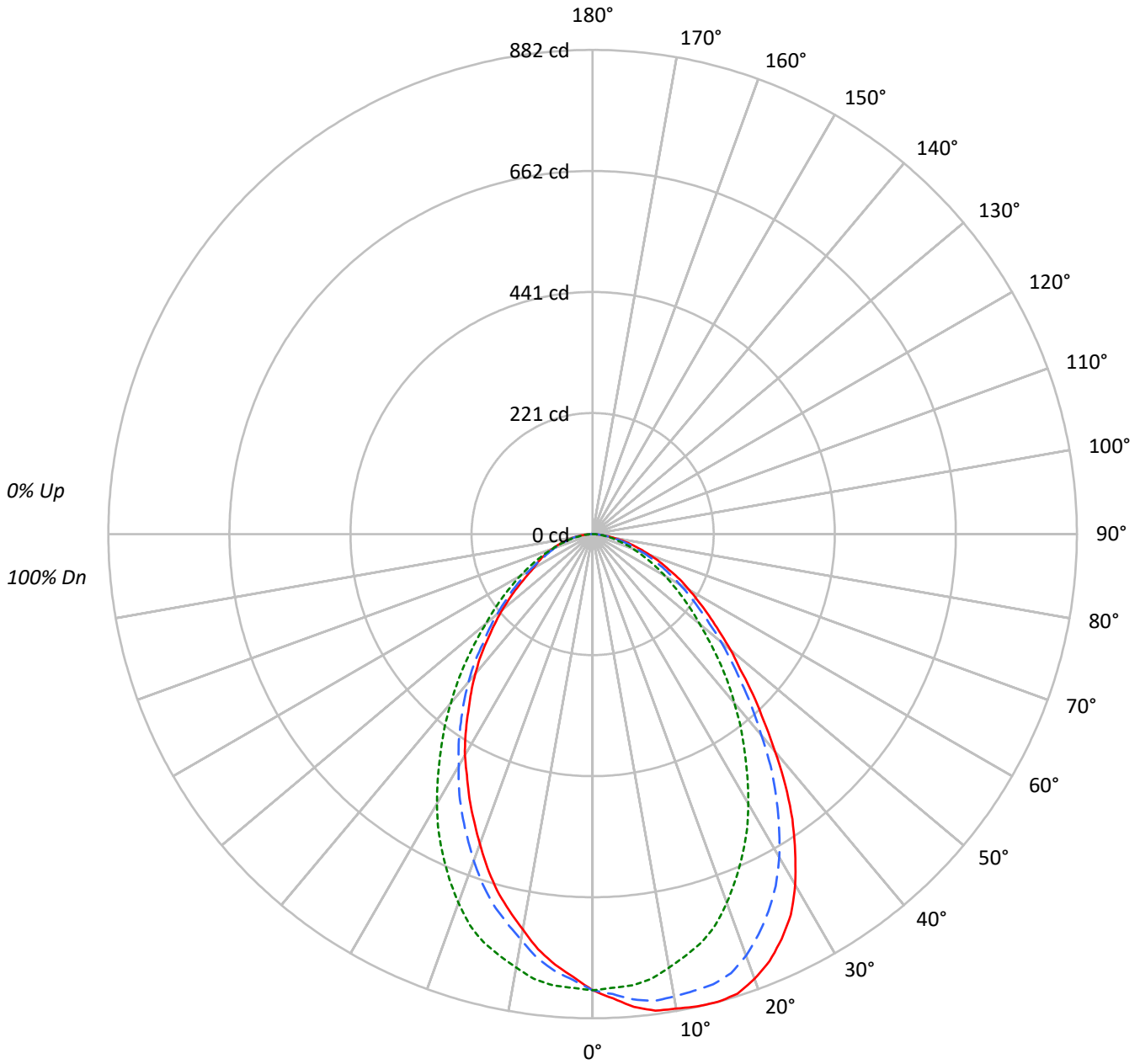
Lumens per Lamp: N/A
Luminaire Lumens: 1547.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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 | 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° | 45550 | 45550 | 45550 |
| 5° | 47568 | 45416 | 43319 |
| 10° | 48863 | 44633 | 40714 |
| 15° | 50074 | 43667 | 38144 |
| 20° | 50305 | 41689 | 35032 |
| 25° | 49243 | 39026 | 32131 |
| 30° | 46722 | 35885 | 29448 |
| 35° | 42436 | 32257 | 26421 |
| 40° | 36976 | 28725 | 23766 |
| 45° | 31996 | 25142 | 20901 |
| 50° | 27948 | 21654 | 18311 |
| 55° | 24687 | 19029 | 15703 |
| 60° | 22191 | 16676 | 13617 |
| 65° | 19872 | 14502 | 13205 |
| 70° | 17743 | 12374 | 12374 |
| 75° | 15377 | 10442 | 11607 |
| 80° | 12375 | 8808 | 10607 |
| 85° | 8428 | 7737 | 9120 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.1 | 5.0 |
| 10°-20° | 217.1 | 14.0 |
| 20°-30° | 302.5 | 19.5 |
| 30°-40° | 311.7 | 20.1 |
| 40°-50° | 258.3 | 16.7 |
| 50°-60° | 185.7 | 12.0 |
| 60°-70° | 118.2 | 7.6 |
| 70°-80° | 60.7 | 3.9 |
| 80°-90° | 15.4 | 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° | 597.7 | 38.6 |
| 0°-40° | 909.4 | 58.8 |
| 0°-60° | 1353.4 | 87.4 |
| 0°-90° | 1547.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1547.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 831 | 831 | 831 | 831 | 831 | |
| 5° | 864 | 851 | 825 | 798 | 787 | 83 |
| 15° | 882 | 849 | 769 | 699 | 672 | 249 |
| 25° | 814 | 758 | 645 | 562 | 531 | 373 |
| 35° | 634 | 583 | 482 | 418 | 395 | 394 |
| 45° | 413 | 384 | 324 | 283 | 270 | 319 |
| 55° | 258 | 237 | 199 | 177 | 164 | 233 |
| 65° | 153 | 136 | 112 | 97 | 102 | 153 |
| 75° | 73 | 63 | 49 | 51 | 55 | 78 |
| 85° | 13 | 12 | 12 | 13 | 14 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593104

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 830.9 | 830.9 | 830.9 | 830.9 | 830.9 | 830.9 | 830.9 | 830.9 | 830.9 |
| 2.5° | 846.6 | 843.2 | 838.8 | 834.2 | 827.5 | 819.7 | 813.0 | 810.7 | 807.4 |
| 5° | 864.4 | 860.0 | 851.0 | 839.8 | 825.3 | 810.7 | 798.5 | 790.6 | 787.2 |
| 7.5° | 875.7 | 870.1 | 857.7 | 838.8 | 817.4 | 796.2 | 778.4 | 767.1 | 762.7 |
| 10° | 877.8 | 872.2 | 855.4 | 829.8 | 801.8 | 772.7 | 750.3 | 737.0 | 731.4 |
| 12.5° | 881.2 | 873.4 | 852.2 | 822.0 | 786.2 | 752.6 | 724.7 | 707.9 | 702.3 |
| 15° | 882.3 | 873.4 | 848.8 | 811.9 | 769.4 | 729.1 | 698.9 | 678.8 | 672.1 |
| 17.5° | 877.8 | 867.8 | 838.8 | 794.0 | 745.9 | 703.4 | 667.6 | 646.4 | 637.4 |
| 20° | 862.3 | 851.0 | 817.4 | 767.1 | 714.6 | 669.9 | 633.0 | 610.6 | 600.5 |
| 22.5° | 842.1 | 827.5 | 789.5 | 735.8 | 681.0 | 634.1 | 597.1 | 574.8 | 564.8 |
| 25° | 814.1 | 800.7 | 758.2 | 701.2 | 645.2 | 596.1 | 562.5 | 539.0 | 531.2 |
| 27.5° | 781.7 | 766.0 | 722.4 | 665.3 | 608.4 | 559.1 | 526.8 | 505.4 | 495.4 |
| 30° | 738.1 | 723.6 | 680.0 | 622.9 | 566.9 | 521.1 | 487.6 | 469.7 | 465.2 |
| 32.5° | 686.7 | 674.3 | 631.9 | 578.2 | 524.5 | 482.0 | 454.0 | 435.0 | 430.5 |
| 35° | 634.1 | 619.5 | 582.6 | 532.3 | 482.0 | 444.0 | 418.2 | 401.4 | 394.8 |
| 37.5° | 577.0 | 563.6 | 532.3 | 487.6 | 442.9 | 407.0 | 384.7 | 370.1 | 363.4 |
| 40° | 516.7 | 506.6 | 477.5 | 441.7 | 401.4 | 370.1 | 351.2 | 338.8 | 332.1 |
| 42.5° | 460.7 | 450.7 | 430.5 | 397.0 | 363.4 | 335.5 | 318.7 | 307.6 | 301.9 |
| 45° | 412.7 | 403.7 | 383.6 | 354.5 | 324.3 | 300.8 | 283.0 | 275.1 | 269.6 |
| 47.5° | 364.6 | 360.1 | 342.2 | 315.4 | 287.4 | 267.3 | 254.9 | 246.1 | 241.5 |
| 50° | 327.7 | 322.1 | 305.3 | 277.4 | 253.9 | 238.2 | 227.0 | 219.2 | 214.7 |
| 52.5° | 289.7 | 284.1 | 268.4 | 244.9 | 225.9 | 211.3 | 200.2 | 193.5 | 189.0 |
| 55° | 258.3 | 253.9 | 237.1 | 215.9 | 199.1 | 186.7 | 176.7 | 168.9 | 164.3 |
| 57.5° | 229.3 | 224.7 | 209.1 | 189.0 | 174.4 | 163.3 | 154.4 | 147.7 | 142.0 |
| 60° | 202.4 | 199.1 | 183.4 | 164.3 | 152.1 | 140.9 | 133.0 | 127.5 | 124.2 |
| 62.5° | 178.9 | 172.2 | 158.8 | 142.0 | 130.9 | 121.9 | 114.1 | 110.7 | 112.9 |
| 65° | 153.2 | 149.8 | 136.4 | 121.9 | 111.8 | 102.8 | 97.3 | 99.5 | 101.8 |
| 67.5° | 132.0 | 127.5 | 116.3 | 102.8 | 94.0 | 87.3 | 83.9 | 88.3 | 89.4 |
| 70° | 110.7 | 106.2 | 96.1 | 85.0 | 77.2 | 72.6 | 72.6 | 76.0 | 77.2 |
| 72.5° | 90.6 | 87.3 | 78.3 | 69.3 | 63.8 | 60.4 | 62.7 | 64.8 | 65.9 |
| 75° | 72.6 | 69.3 | 62.7 | 54.8 | 49.3 | 49.3 | 51.4 | 53.7 | 54.8 |
| 77.5° | 56.0 | 53.7 | 47.0 | 41.4 | 39.2 | 39.2 | 41.4 | 42.4 | 43.6 |
| 80° | 39.2 | 36.9 | 33.6 | 30.2 | 27.9 | 30.2 | 32.5 | 32.5 | 33.6 |
| 82.5° | 25.8 | 24.6 | 22.4 | 20.1 | 20.1 | 21.2 | 22.4 | 23.5 | 23.5 |
| 85° | 13.4 | 13.4 | 12.3 | 11.2 | 12.3 | 13.4 | 13.4 | 14.5 | 14.5 |
| 87.5° | 4.4 | 4.4 | 4.4 | 4.4 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 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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