

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: P593121

Luminaire Tested: **HCC6W15D010SL-HM60525950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010SL-HM60525950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

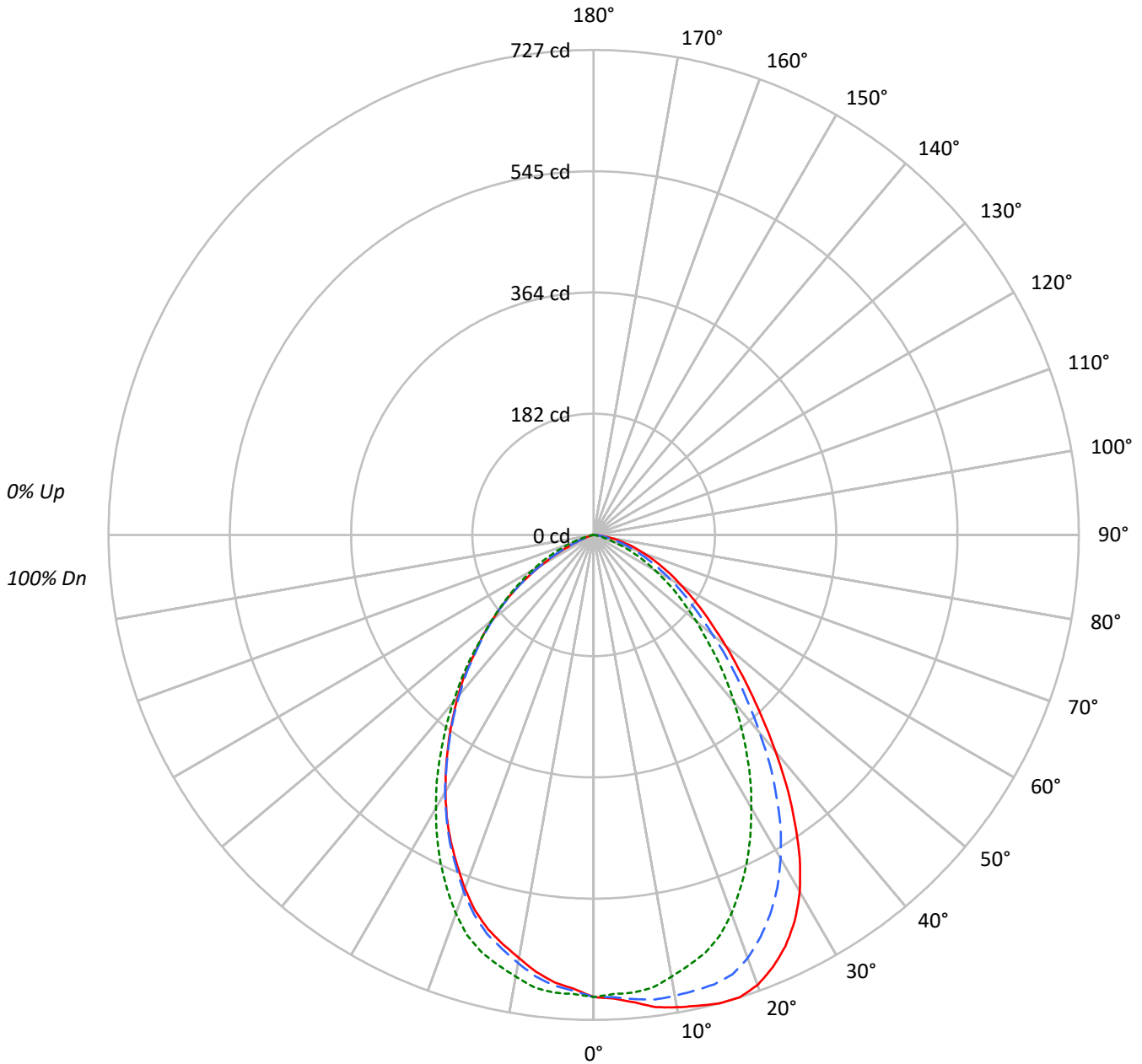
Lumens per Lamp: N/A
Luminaire Lumens: 1234.5 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | 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 | | | | | 100 | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | 54 | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 37974 | 37974 | 37974 |
| 5° | 38713 | 37904 | 37051 |
| 10° | 40024 | 37424 | 35849 |
| 15° | 41254 | 36777 | 34728 |
| 20° | 41893 | 35236 | 32909 |
| 25° | 41137 | 32820 | 30649 |
| 30° | 39101 | 29910 | 28118 |
| 35° | 35148 | 26736 | 25364 |
| 40° | 30328 | 23422 | 22664 |
| 45° | 25685 | 20165 | 19638 |
| 50° | 22021 | 17040 | 16869 |
| 55° | 19096 | 14336 | 13773 |
| 60° | 16665 | 11644 | 9835 |
| 65° | 14658 | 8963 | 5435 |
| 70° | 12646 | 5930 | 2661 |
| 75° | 10718 | 2881 | 1038 |
| 80° | 8303 | 1231 | 600 |
| 85° | 4906 | 629 | 629 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.4 | 5.3 |
| 10°-20° | 184.9 | 15.0 |
| 20°-30° | 260.3 | 21.1 |
| 30°-40° | 266.0 | 21.5 |
| 40°-50° | 214.5 | 17.4 |
| 50°-60° | 143.8 | 11.7 |
| 60°-70° | 72.8 | 5.9 |
| 70°-80° | 23.3 | 1.9 |
| 80°-90° | 3.6 | 0.3 |
| 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° | 510.6 | 41.4 |
| 0°-40° | 776.6 | 62.9 |
| 0°-60° | 1134.9 | 91.9 |
| 0°-90° | 1234.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1234.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 693 | 693 | 693 | 693 | 693 | |
| 5° | 704 | 699 | 689 | 678 | 673 | 68 |
| 15° | 727 | 698 | 648 | 619 | 612 | 205 |
| 25° | 680 | 626 | 543 | 510 | 507 | 311 |
| 35° | 525 | 477 | 400 | 377 | 379 | 327 |
| 45° | 331 | 305 | 260 | 251 | 253 | 258 |
| 55° | 200 | 177 | 150 | 143 | 144 | 180 |
| 65° | 113 | 94 | 69 | 46 | 42 | 113 |
| 75° | 51 | 36 | 14 | 5 | 5 | 54 |
| 85° | 8 | 4 | 1 | 1 | 1 | 10 |
| 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° | 692.7 | 692.7 | 692.7 | 692.7 | 692.7 | 692.7 | 692.7 | 692.7 | 692.7 |
| 2.5° | 695.6 | 694.7 | 693.7 | 691.8 | 688.8 | 685.9 | 684.0 | 682.0 | 681.0 |
| 5° | 703.5 | 701.5 | 698.6 | 694.7 | 688.8 | 682.0 | 678.2 | 674.2 | 673.3 |
| 7.5° | 714.1 | 710.3 | 702.5 | 693.7 | 684.0 | 674.2 | 667.4 | 663.5 | 660.6 |
| 10° | 719.0 | 712.2 | 701.5 | 686.9 | 672.3 | 660.6 | 651.8 | 645.9 | 644.0 |
| 12.5° | 723.0 | 715.2 | 699.6 | 680.1 | 660.6 | 645.0 | 635.3 | 630.4 | 628.4 |
| 15° | 726.9 | 719.0 | 697.6 | 672.3 | 648.0 | 629.4 | 618.7 | 613.8 | 611.9 |
| 17.5° | 726.9 | 716.1 | 690.8 | 658.6 | 629.4 | 607.0 | 596.3 | 591.4 | 590.4 |
| 20° | 718.1 | 706.4 | 675.2 | 637.2 | 604.0 | 578.7 | 569.0 | 566.0 | 564.1 |
| 22.5° | 701.5 | 687.9 | 652.7 | 609.9 | 573.9 | 549.6 | 538.8 | 536.9 | 534.9 |
| 25° | 680.1 | 666.5 | 626.5 | 580.7 | 542.6 | 518.4 | 509.6 | 507.6 | 506.7 |
| 27.5° | 652.7 | 638.2 | 596.3 | 549.6 | 508.6 | 485.2 | 477.4 | 477.4 | 476.5 |
| 30° | 617.7 | 601.2 | 560.2 | 513.5 | 472.5 | 451.2 | 445.3 | 445.3 | 444.2 |
| 32.5° | 574.9 | 558.3 | 521.3 | 476.5 | 437.4 | 415.1 | 410.2 | 412.1 | 411.2 |
| 35° | 525.2 | 511.5 | 477.4 | 433.6 | 399.5 | 379.0 | 377.0 | 379.0 | 379.0 |
| 37.5° | 475.5 | 462.9 | 433.6 | 395.5 | 363.4 | 344.9 | 344.9 | 347.9 | 346.9 |
| 40° | 423.8 | 414.0 | 386.8 | 353.7 | 327.3 | 314.7 | 312.8 | 315.6 | 316.7 |
| 42.5° | 375.1 | 367.3 | 343.9 | 316.7 | 293.3 | 280.6 | 283.5 | 285.5 | 286.5 |
| 45° | 331.3 | 323.5 | 305.0 | 276.7 | 260.1 | 251.4 | 251.4 | 254.4 | 253.3 |
| 47.5° | 292.3 | 286.5 | 268.0 | 240.6 | 226.1 | 222.1 | 224.0 | 226.1 | 226.1 |
| 50° | 258.2 | 249.5 | 231.9 | 210.4 | 199.8 | 194.9 | 196.8 | 197.8 | 197.8 |
| 52.5° | 226.1 | 220.2 | 202.7 | 183.2 | 173.4 | 170.5 | 170.5 | 171.5 | 171.5 |
| 55° | 199.8 | 193.0 | 177.3 | 157.9 | 150.0 | 146.2 | 143.2 | 142.2 | 144.1 |
| 57.5° | 174.4 | 168.5 | 153.9 | 135.4 | 126.7 | 122.8 | 116.9 | 115.0 | 116.9 |
| 60° | 152.0 | 147.1 | 132.5 | 115.0 | 106.2 | 98.4 | 91.6 | 87.7 | 89.7 |
| 62.5° | 132.5 | 126.7 | 112.0 | 97.4 | 87.7 | 78.9 | 68.2 | 62.3 | 65.3 |
| 65° | 113.0 | 108.2 | 93.5 | 78.9 | 69.1 | 58.5 | 45.7 | 41.9 | 41.9 |
| 67.5° | 95.5 | 90.6 | 77.0 | 64.4 | 52.7 | 40.0 | 28.3 | 27.2 | 28.3 |
| 70° | 78.9 | 74.0 | 62.3 | 49.7 | 37.0 | 24.4 | 16.6 | 16.6 | 16.6 |
| 72.5° | 65.3 | 59.5 | 48.7 | 36.1 | 23.4 | 12.7 | 8.7 | 9.8 | 9.8 |
| 75° | 50.6 | 45.7 | 36.1 | 24.4 | 13.6 | 5.9 | 4.9 | 4.9 | 4.9 |
| 77.5° | 38.0 | 34.0 | 25.3 | 15.5 | 6.8 | 1.9 | 1.9 | 1.9 | 1.9 |
| 80° | 26.3 | 22.4 | 16.6 | 9.8 | 3.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 82.5° | 15.5 | 13.6 | 9.8 | 4.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 7.8 | 6.8 | 3.9 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 1.9 | 1.9 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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