

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: P581756

Luminaire Tested: **HCC6S15D010MW-HM60525840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581756
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: HCC6S15D010MW-HM60525840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

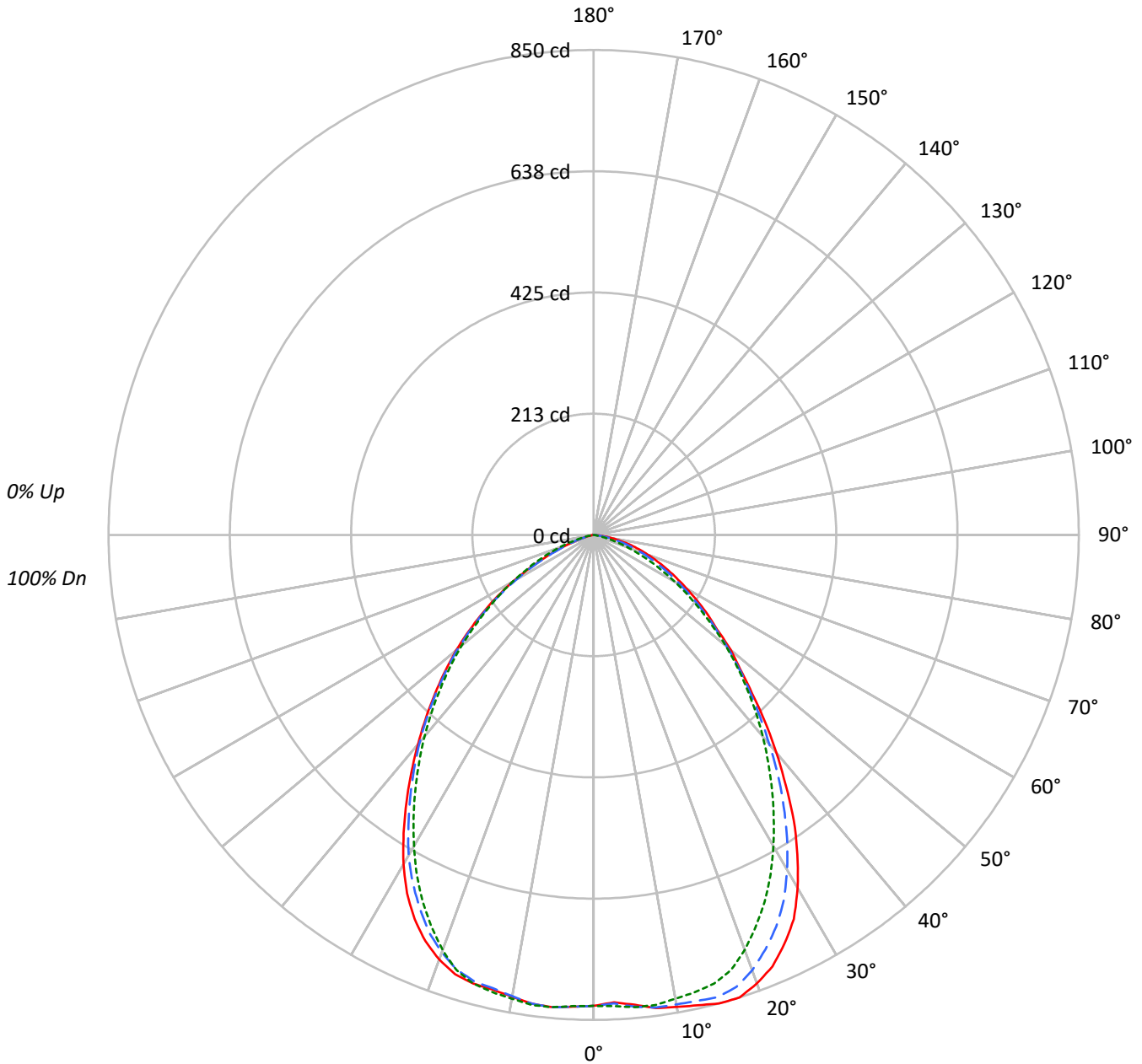
Lumens per Lamp: N/A
Luminaire Lumens: 1666.3 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | | | | | | 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 | 59 | | | | | | | | | | | | | | | | | | | |
| 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° | 45249 | 45249 | 45249 |
| 5° | 45482 | 45724 | 45724 |
| 10° | 46754 | 45947 | 45757 |
| 15° | 48241 | 46203 | 46203 |
| 20° | 48800 | 45154 | 46192 |
| 25° | 47833 | 42886 | 44918 |
| 30° | 45235 | 39861 | 42196 |
| 35° | 40944 | 36453 | 38247 |
| 40° | 35617 | 32976 | 34250 |
| 45° | 30437 | 29391 | 30437 |
| 50° | 26703 | 25748 | 26805 |
| 55° | 23301 | 21696 | 22556 |
| 60° | 20590 | 18014 | 17784 |
| 65° | 18290 | 14217 | 12193 |
| 70° | 16141 | 10050 | 7357 |
| 75° | 13746 | 5676 | 3558 |
| 80° | 10260 | 1768 | 1073 |
| 85° | 5661 | 692 | 692 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.2 | 4.8 |
| 10°-20° | 231.6 | 13.9 |
| 20°-30° | 338.3 | 20.3 |
| 30°-40° | 354.8 | 21.3 |
| 40°-50° | 298.9 | 17.9 |
| 50°-60° | 209.4 | 12.6 |
| 60°-70° | 112.3 | 6.7 |
| 70°-80° | 37.7 | 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° | 649.1 | 39.0 |
| 0°-40° | 1003.9 | 60.2 |
| 0°-60° | 1512.3 | 90.8 |
| 0°-90° | 1666.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1666.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 825 | 825 | 825 | 825 | 825 | |
| 5° | 826 | 830 | 831 | 831 | 831 | 79 |
| 15° | 850 | 839 | 814 | 810 | 814 | 240 |
| 25° | 791 | 757 | 709 | 721 | 743 | 362 |
| 35° | 612 | 580 | 545 | 560 | 572 | 380 |
| 45° | 393 | 386 | 379 | 389 | 393 | 306 |
| 55° | 244 | 236 | 227 | 232 | 236 | 219 |
| 65° | 141 | 129 | 110 | 91 | 94 | 141 |
| 75° | 65 | 50 | 27 | 17 | 17 | 69 |
| 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° | 825.4 | 825.4 | 825.4 | 825.4 | 825.4 | 825.4 | 825.4 | 825.4 | 825.4 |
| 2.5° | 819.8 | 819.8 | 822.0 | 824.2 | 826.5 | 826.5 | 827.6 | 828.8 | 827.6 |
| 5° | 826.5 | 826.5 | 829.8 | 830.9 | 830.9 | 829.8 | 830.9 | 830.9 | 830.9 |
| 7.5° | 836.5 | 834.3 | 835.5 | 833.2 | 830.9 | 829.8 | 828.8 | 828.8 | 828.8 |
| 10° | 839.9 | 837.6 | 835.5 | 830.9 | 825.4 | 822.0 | 820.9 | 822.0 | 822.0 |
| 12.5° | 844.3 | 842.2 | 836.5 | 827.6 | 820.9 | 815.3 | 814.1 | 816.4 | 816.4 |
| 15° | 850.0 | 847.7 | 838.8 | 824.2 | 814.1 | 808.6 | 809.7 | 812.0 | 814.1 |
| 17.5° | 850.0 | 845.5 | 830.9 | 812.0 | 799.6 | 794.0 | 798.5 | 804.1 | 807.4 |
| 20° | 836.5 | 832.1 | 812.0 | 788.5 | 774.0 | 770.6 | 778.4 | 788.5 | 791.8 |
| 22.5° | 818.7 | 809.7 | 786.2 | 758.3 | 742.6 | 742.6 | 753.8 | 766.1 | 770.6 |
| 25° | 790.8 | 783.9 | 757.2 | 724.7 | 709.0 | 707.9 | 721.4 | 738.1 | 742.6 |
| 27.5° | 759.4 | 750.5 | 721.4 | 687.8 | 671.0 | 672.1 | 686.7 | 703.5 | 707.9 |
| 30° | 714.6 | 703.5 | 677.7 | 645.4 | 629.7 | 634.1 | 648.7 | 660.9 | 666.6 |
| 32.5° | 664.3 | 654.2 | 630.7 | 600.5 | 587.1 | 591.7 | 603.9 | 615.1 | 619.6 |
| 35° | 611.8 | 600.5 | 580.4 | 553.7 | 544.7 | 549.1 | 560.3 | 569.2 | 571.5 |
| 37.5° | 552.5 | 544.7 | 530.2 | 508.8 | 502.1 | 507.8 | 516.7 | 522.3 | 524.5 |
| 40° | 497.7 | 491.0 | 478.6 | 463.0 | 460.8 | 465.2 | 474.2 | 477.5 | 478.6 |
| 42.5° | 444.0 | 438.5 | 430.6 | 419.4 | 419.4 | 423.9 | 431.6 | 433.9 | 435.0 |
| 45° | 392.6 | 389.2 | 385.8 | 376.9 | 379.1 | 384.8 | 389.2 | 392.6 | 392.6 |
| 47.5° | 347.8 | 348.9 | 344.5 | 337.8 | 339.9 | 345.6 | 348.9 | 352.3 | 352.3 |
| 50° | 313.1 | 309.7 | 305.3 | 298.6 | 301.9 | 306.4 | 310.9 | 313.1 | 314.3 |
| 52.5° | 272.9 | 271.7 | 268.4 | 260.6 | 262.9 | 265.0 | 269.6 | 272.9 | 274.0 |
| 55° | 243.8 | 240.5 | 236.0 | 227.0 | 227.0 | 229.3 | 231.5 | 233.7 | 236.0 |
| 57.5° | 215.9 | 212.5 | 205.8 | 195.7 | 194.7 | 194.7 | 193.5 | 195.7 | 199.1 |
| 60° | 187.8 | 186.8 | 176.7 | 167.8 | 164.3 | 161.1 | 156.6 | 157.7 | 162.2 |
| 62.5° | 163.3 | 161.1 | 152.1 | 141.0 | 134.2 | 128.6 | 123.0 | 121.9 | 126.3 |
| 65° | 141.0 | 138.7 | 128.6 | 117.5 | 109.6 | 99.5 | 90.6 | 90.6 | 94.0 |
| 67.5° | 120.8 | 116.3 | 107.4 | 95.1 | 85.0 | 72.6 | 63.8 | 65.9 | 67.1 |
| 70° | 100.7 | 97.3 | 87.3 | 74.9 | 62.7 | 50.3 | 44.7 | 45.9 | 45.9 |
| 72.5° | 82.7 | 78.3 | 68.2 | 56.0 | 43.6 | 32.5 | 30.2 | 29.1 | 29.1 |
| 75° | 64.9 | 60.4 | 50.3 | 38.0 | 26.8 | 19.1 | 16.8 | 16.8 | 16.8 |
| 77.5° | 47.0 | 43.6 | 34.6 | 23.5 | 14.5 | 9.0 | 7.8 | 6.7 | 6.7 |
| 80° | 32.5 | 29.1 | 21.2 | 12.3 | 5.6 | 3.4 | 3.4 | 3.4 | 3.4 |
| 82.5° | 19.1 | 15.7 | 10.1 | 5.6 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 9.0 | 6.7 | 4.4 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270°

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