

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: P581836

Luminaire Tested: **HCC6S15D010SL-HM60525940-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581836  
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: HCC6S15D010SL-HM60525940-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

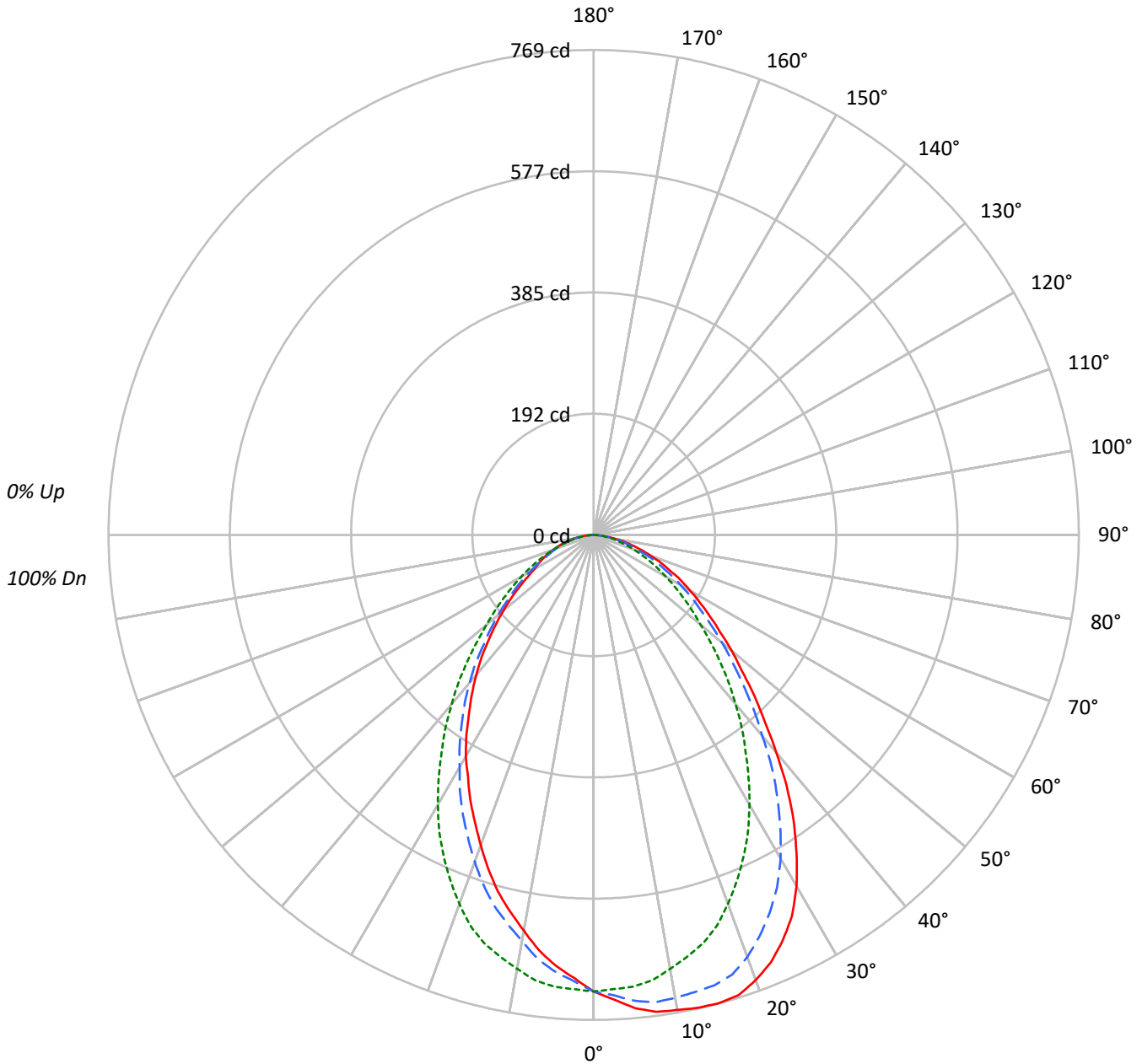
Lumens per Lamp: N/A  
Luminaire Lumens: 1348.5 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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   | 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°  | 39684 | 39684 | 39684 |
| 5°  | 41448 | 39566 | 37745 |
| 10° | 42579 | 38888 | 35470 |
| 15° | 43627 | 38042 | 33229 |
| 20° | 43818 | 36316 | 30523 |
| 25° | 42904 | 34006 | 27988 |
| 30° | 40709 | 31271 | 25656 |
| 35° | 36968 | 28108 | 23015 |
| 40° | 32210 | 25033 | 20710 |
| 45° | 27879 | 21901 | 18203 |
| 50° | 24349 | 18865 | 15948 |
| 55° | 21514 | 16573 | 13686 |
| 60° | 19341 | 14527 | 11863 |
| 65° | 17317 | 12634 | 11493 |
| 70° | 15467 | 10771 | 10771 |
| 75° | 13408 | 9087  | 10124 |
| 80° | 10734 | 7703  | 9250  |
| 85° | 7359  | 6730  | 7988  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.0   | 5.0       |
| 10°-20°   | 189.1  | 14.0      |
| 20°-30°   | 263.6  | 19.5      |
| 30°-40°   | 271.6  | 20.1      |
| 40°-50°   | 225.1  | 16.7      |
| 50°-60°   | 161.7  | 12.0      |
| 60°-70°   | 103.0  | 7.6       |
| 70°-80°   | 52.9   | 3.9       |
| 80°-90°   | 13.5   | 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°    | 520.7  | 38.6      |
| 0°-40°    | 792.3  | 58.8      |
| 0°-60°    | 1179.1 | 87.4      |
| 0°-90°    | 1348.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1348.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 724 | 724 | 724 | 724  | 724  |      |
| 5°  | 753 | 742 | 719 | 696  | 686  | 72   |
| 15° | 769 | 740 | 670 | 609  | 586  | 217  |
| 25° | 709 | 661 | 562 | 490  | 463  | 325  |
| 35° | 552 | 508 | 420 | 364  | 344  | 343  |
| 45° | 360 | 334 | 282 | 246  | 235  | 278  |
| 55° | 225 | 207 | 173 | 154  | 143  | 203  |
| 65° | 134 | 119 | 97  | 85   | 89   | 134  |
| 75° | 63  | 55  | 43  | 45   | 48   | 68   |
| 85° | 12  | 11  | 11  | 12   | 13   | 15   |
| 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°    | 723.9 | 723.9 | 723.9 | 723.9 | 723.9 | 723.9  | 723.9 | 723.9  | 723.9 |
| 2.5°  | 737.5 | 734.6 | 730.7 | 726.9 | 721.0 | 714.1  | 708.4 | 706.4  | 703.5 |
| 5°    | 753.2 | 749.2 | 741.5 | 731.7 | 719.0 | 706.4  | 695.6 | 688.8  | 685.9 |
| 7.5°  | 762.8 | 758.1 | 747.3 | 730.7 | 712.2 | 693.7  | 678.2 | 668.4  | 664.4 |
| 10°   | 764.9 | 760.0 | 745.4 | 722.9 | 698.6 | 673.3  | 653.8 | 642.1  | 637.2 |
| 12.5° | 767.7 | 760.9 | 742.4 | 716.1 | 685.0 | 655.7  | 631.4 | 616.8  | 611.9 |
| 15°   | 768.7 | 760.9 | 739.5 | 707.3 | 670.3 | 635.3  | 608.9 | 591.4  | 585.5 |
| 17.5° | 764.9 | 756.0 | 730.7 | 691.8 | 649.9 | 612.8  | 581.7 | 563.2  | 555.4 |
| 20°   | 751.1 | 741.5 | 712.2 | 668.4 | 622.5 | 583.6  | 551.5 | 532.0  | 523.2 |
| 22.5° | 733.7 | 721.0 | 687.8 | 641.0 | 593.4 | 552.4  | 520.3 | 500.8  | 492.0 |
| 25°   | 709.3 | 697.6 | 660.6 | 610.9 | 562.2 | 519.3  | 490.1 | 469.7  | 462.7 |
| 27.5° | 681.0 | 667.4 | 629.4 | 579.8 | 530.0 | 487.1  | 458.9 | 440.4  | 431.6 |
| 30°   | 643.1 | 630.4 | 592.4 | 542.6 | 494.0 | 454.0  | 424.8 | 409.2  | 405.3 |
| 32.5° | 598.3 | 587.5 | 550.5 | 503.7 | 457.0 | 420.0  | 395.5 | 379.0  | 375.1 |
| 35°   | 552.4 | 539.8 | 507.6 | 463.8 | 420.0 | 386.8  | 364.3 | 349.8  | 343.9 |
| 37.5° | 502.7 | 491.0 | 463.8 | 424.8 | 385.8 | 354.7  | 335.2 | 322.5  | 316.7 |
| 40°   | 450.1 | 441.4 | 416.0 | 384.9 | 349.8 | 322.5  | 305.9 | 295.2  | 289.4 |
| 42.5° | 401.4 | 392.6 | 375.1 | 345.8 | 316.7 | 292.3  | 277.6 | 268.0  | 263.1 |
| 45°   | 359.6 | 351.7 | 334.1 | 308.8 | 282.5 | 262.1  | 246.5 | 239.7  | 234.8 |
| 47.5° | 317.6 | 313.7 | 298.2 | 274.8 | 250.4 | 232.9  | 222.1 | 214.4  | 210.4 |
| 50°   | 285.5 | 280.6 | 265.9 | 241.6 | 221.2 | 207.5  | 197.8 | 191.0  | 187.0 |
| 52.5° | 252.3 | 247.4 | 233.8 | 213.4 | 196.8 | 184.1  | 174.4 | 168.5  | 164.7 |
| 55°   | 225.1 | 221.2 | 206.6 | 188.1 | 173.4 | 162.8  | 153.9 | 147.1  | 143.2 |
| 57.5° | 199.8 | 195.8 | 182.2 | 164.7 | 152.0 | 142.2  | 134.5 | 128.6  | 123.7 |
| 60°   | 176.4 | 173.4 | 159.8 | 143.2 | 132.5 | 122.8  | 116.0 | 111.1  | 108.2 |
| 62.5° | 155.8 | 150.0 | 138.4 | 123.7 | 114.0 | 106.2  | 99.4  | 96.5   | 98.4  |
| 65°   | 133.5 | 130.5 | 118.8 | 106.2 | 97.4  | 89.7   | 84.8  | 86.7   | 88.6  |
| 67.5° | 115.0 | 111.1 | 101.4 | 89.7  | 81.8  | 76.0   | 73.1  | 77.0   | 78.0  |
| 70°   | 96.5  | 92.5  | 83.8  | 74.0  | 67.2  | 63.3   | 63.3  | 66.3   | 67.2  |
| 72.5° | 78.9  | 76.0  | 68.2  | 60.4  | 55.5  | 52.7   | 54.6  | 56.5   | 57.4  |
| 75°   | 63.3  | 60.4  | 54.6  | 47.8  | 42.9  | 42.9   | 44.8  | 46.8   | 47.8  |
| 77.5° | 48.7  | 46.8  | 41.0  | 36.1  | 34.0  | 34.0   | 36.1  | 37.0   | 38.0  |
| 80°   | 34.0  | 32.1  | 29.3  | 26.3  | 24.4  | 26.3   | 28.3  | 28.3   | 29.3  |
| 82.5° | 22.4  | 21.5  | 19.5  | 17.6  | 17.6  | 18.5   | 19.5  | 20.4   | 20.4  |
| 85°   | 11.7  | 11.7  | 10.7  | 9.8   | 10.7  | 11.7   | 11.7  | 12.7   | 12.7  |
| 87.5° | 3.9   | 3.9   | 3.9   | 3.9   | 4.9   | 4.9    | 4.9   | 4.9    | 4.9   |
| 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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