

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: P581612

Luminaire Tested: **HCC6S10D010SL-HM60525840-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581612  
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: HCC6S10D010SL-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**

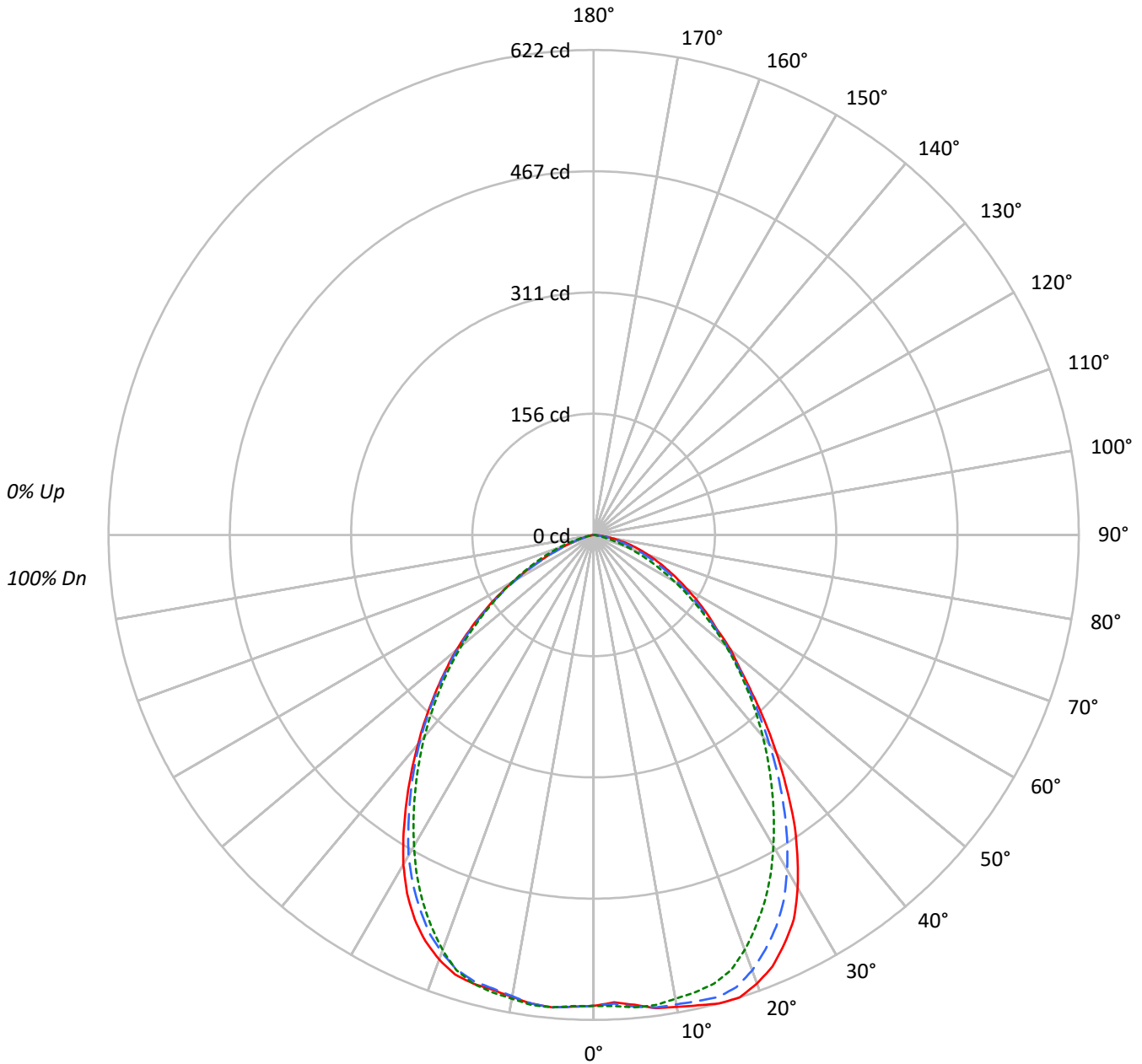
Lumens per Lamp: N/A  
Luminaire Lumens: 1219.5 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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  |     |     |    |    | 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 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |    |    | 88  |   |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    | 77  |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |    |    |    |    | 68  |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 60  |    |    |    |    | 60  |   |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |    | 47  |   |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |    | 32  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 33111 | 33111 | 33111 |
| 5°  | 33287 | 33469 | 33469 |
| 10° | 34218 | 33622 | 33494 |
| 15° | 35301 | 33820 | 33820 |
| 20° | 35721 | 33049 | 33807 |
| 25° | 35004 | 31387 | 32875 |
| 30° | 33113 | 29169 | 30884 |
| 35° | 29961 | 26676 | 27994 |
| 40° | 26070 | 24131 | 25076 |
| 45° | 22274 | 21514 | 22274 |
| 50° | 19547 | 18848 | 19616 |
| 55° | 17051 | 15885 | 16506 |
| 60° | 15076 | 13190 | 13003 |
| 65° | 13374 | 10416 | 8911  |
| 70° | 11813 | 7341  | 5369  |
| 75° | 10040 | 4173  | 2584  |
| 80° | 7514  | 1294  | 789   |
| 85° | 4151  | 503   | 503   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.9   | 4.8       |
| 10°-20°   | 169.5  | 13.9      |
| 20°-30°   | 247.6  | 20.3      |
| 30°-40°   | 259.7  | 21.3      |
| 40°-50°   | 218.8  | 17.9      |
| 50°-60°   | 153.3  | 12.6      |
| 60°-70°   | 82.2   | 6.7       |
| 70°-80°   | 27.6   | 2.3       |
| 80°-90°   | 3.0    | 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°    | 475.1  | 39.0      |
| 0°-40°    | 734.8  | 60.2      |
| 0°-60°    | 1106.8 | 90.8      |
| 0°-90°    | 1219.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1219.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 604 | 604 | 604 | 604  | 604  |      |
| 5°  | 605 | 607 | 608 | 608  | 608  | 58   |
| 15° | 622 | 614 | 596 | 593  | 596  | 175  |
| 25° | 579 | 554 | 519 | 528  | 544  | 265  |
| 35° | 448 | 425 | 399 | 410  | 418  | 278  |
| 45° | 287 | 282 | 278 | 285  | 287  | 224  |
| 55° | 178 | 173 | 166 | 170  | 173  | 161  |
| 65° | 103 | 94  | 80  | 66   | 69   | 103  |
| 75° | 47  | 37  | 20  | 12   | 12   | 50   |
| 85° | 7   | 3   | 1   | 1    | 1    | 9    |
| 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°    | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0  | 604.0 | 604.0  | 604.0 |
| 2.5°  | 600.0 | 600.0 | 601.7 | 603.2 | 604.9 | 604.9  | 605.7 | 606.5  | 605.7 |
| 5°    | 604.9 | 604.9 | 607.3 | 608.2 | 608.2 | 607.3  | 608.2 | 608.2  | 608.2 |
| 7.5°  | 612.3 | 610.6 | 611.4 | 609.8 | 608.2 | 607.3  | 606.5 | 606.5  | 606.5 |
| 10°   | 614.7 | 613.1 | 611.4 | 608.2 | 604.0 | 601.7  | 600.8 | 601.7  | 601.7 |
| 12.5° | 618.0 | 616.4 | 612.3 | 605.7 | 600.8 | 596.7  | 595.9 | 597.6  | 597.6 |
| 15°   | 622.0 | 620.4 | 613.9 | 603.2 | 595.9 | 591.8  | 592.6 | 594.3  | 595.9 |
| 17.5° | 622.0 | 618.9 | 608.2 | 594.3 | 585.2 | 581.2  | 584.5 | 588.5  | 591.0 |
| 20°   | 612.3 | 609.0 | 594.3 | 577.1 | 566.5 | 564.0  | 569.7 | 577.1  | 579.5 |
| 22.5° | 599.2 | 592.6 | 575.4 | 555.0 | 543.5 | 543.5  | 551.7 | 560.7  | 564.0 |
| 25°   | 578.7 | 573.8 | 554.1 | 530.5 | 518.9 | 518.1  | 528.0 | 540.2  | 543.5 |
| 27.5° | 555.8 | 549.2 | 528.0 | 503.4 | 491.2 | 492.0  | 502.6 | 514.8  | 518.1 |
| 30°   | 523.1 | 514.8 | 496.0 | 472.3 | 460.8 | 464.1  | 474.8 | 483.7  | 487.9 |
| 32.5° | 486.2 | 478.8 | 461.6 | 439.6 | 429.7 | 433.0  | 442.0 | 450.2  | 453.5 |
| 35°   | 447.7 | 439.6 | 424.8 | 405.1 | 398.6 | 401.9  | 410.1 | 416.6  | 418.3 |
| 37.5° | 404.4 | 398.6 | 387.9 | 372.4 | 367.6 | 371.6  | 378.2 | 382.3  | 383.9 |
| 40°   | 364.3 | 359.3 | 350.4 | 338.9 | 337.2 | 340.5  | 347.1 | 349.6  | 350.4 |
| 42.5° | 325.0 | 320.8 | 315.1 | 307.0 | 307.0 | 310.2  | 315.9 | 317.6  | 318.4 |
| 45°   | 287.3 | 284.8 | 282.4 | 275.9 | 277.5 | 281.5  | 284.8 | 287.3  | 287.3 |
| 47.5° | 254.6 | 255.4 | 252.1 | 247.2 | 248.8 | 252.9  | 255.4 | 257.9  | 257.9 |
| 50°   | 229.2 | 226.7 | 223.5 | 218.6 | 221.0 | 224.2  | 227.5 | 229.2  | 230.0 |
| 52.5° | 199.7 | 198.9 | 196.4 | 190.7 | 192.3 | 194.0  | 197.3 | 199.7  | 200.6 |
| 55°   | 178.4 | 176.0 | 172.7 | 166.2 | 166.2 | 167.8  | 169.5 | 171.0  | 172.7 |
| 57.5° | 158.0 | 155.5 | 150.6 | 143.2 | 142.4 | 142.4  | 141.6 | 143.2  | 145.7 |
| 60°   | 137.5 | 136.7 | 129.3 | 122.8 | 120.3 | 117.8  | 114.6 | 115.5  | 118.6 |
| 62.5° | 119.5 | 117.8 | 111.3 | 103.1 | 98.3  | 94.2   | 90.0  | 89.2   | 92.5  |
| 65°   | 103.1 | 101.5 | 94.2  | 85.9  | 80.3  | 72.9   | 66.3  | 66.3   | 68.7  |
| 67.5° | 88.4  | 85.1  | 78.6  | 69.6  | 62.3  | 53.2   | 46.6  | 48.3   | 49.1  |
| 70°   | 73.7  | 71.2  | 63.8  | 54.8  | 45.8  | 36.8   | 32.7  | 33.5   | 33.5  |
| 72.5° | 60.6  | 57.3  | 49.9  | 41.0  | 31.9  | 23.8   | 22.1  | 21.3   | 21.3  |
| 75°   | 47.4  | 44.1  | 36.8  | 27.8  | 19.7  | 13.9   | 12.2  | 12.2   | 12.2  |
| 77.5° | 34.4  | 31.9  | 25.4  | 17.2  | 10.6  | 6.6    | 5.8   | 4.9    | 4.9   |
| 80°   | 23.8  | 21.3  | 15.5  | 9.1   | 4.1   | 2.5    | 2.5   | 2.5    | 2.5   |
| 82.5° | 13.9  | 11.4  | 7.4   | 4.1   | 1.6   | 0.8    | 0.8   | 0.8    | 0.8   |
| 85°   | 6.6   | 4.9   | 3.3   | 1.6   | 0.8   | 0.8    | 0.8   | 0.8    | 0.8   |
| 87.5° | 0.8   | 0.8   | 0.8   | 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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