

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: P581613

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S10D010SL-HM60525840-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

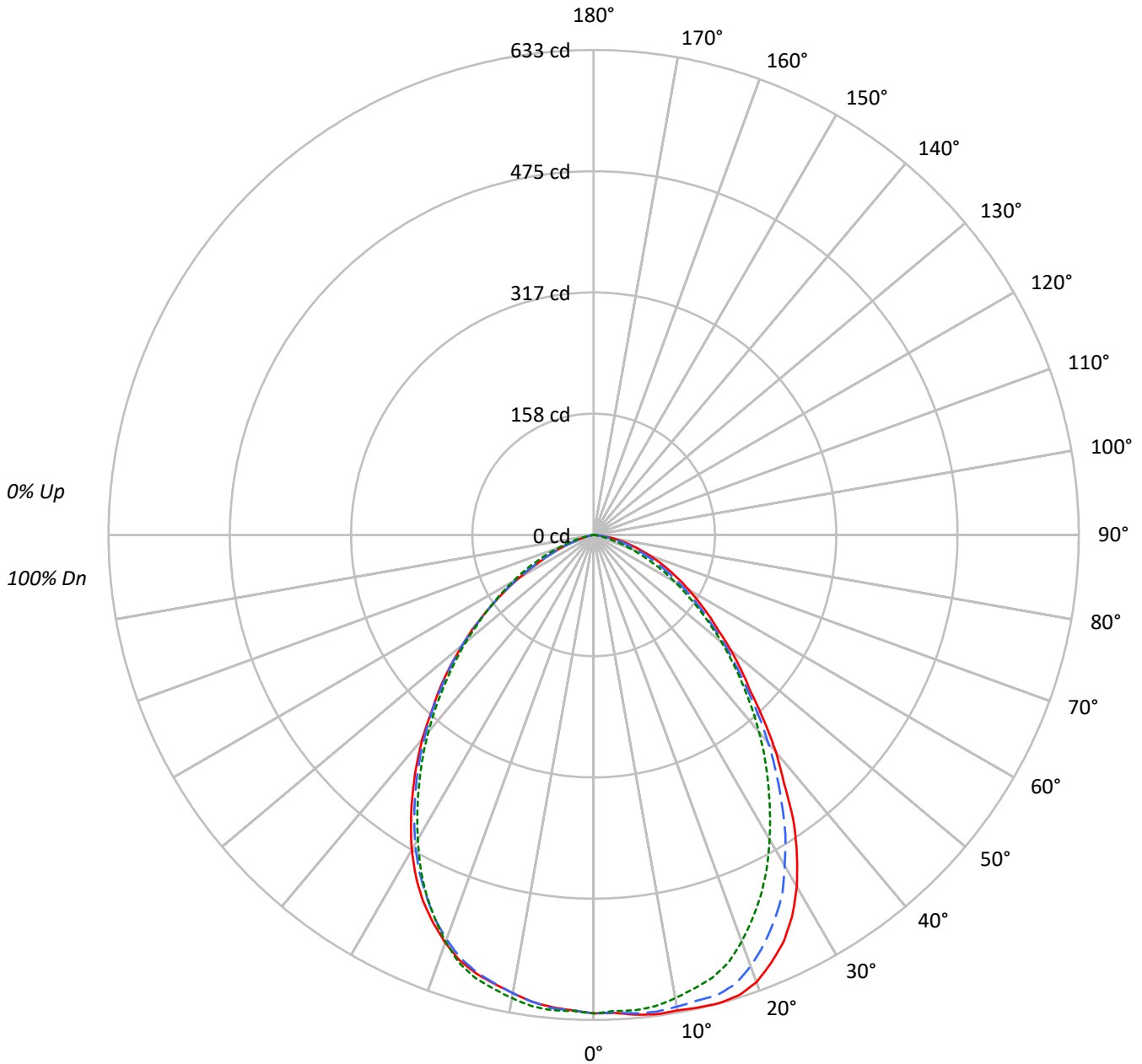
Lumens per Lamp: N/A  
Luminaire Lumens: 1223.7 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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  | 93  | 92  | 90  | 88  |    |    |    |    | 88  |   |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |    | 77  |   |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |    |    | 67  |   |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |    |    | 59  |   |  |   |
| 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  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |    | 47  |   |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 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°  | 34235 | 34235 | 34235 |
| 5°  | 34592 | 34272 | 34052 |
| 10° | 35081 | 34173 | 33806 |
| 15° | 35908 | 33956 | 33632 |
| 20° | 36240 | 32950 | 33037 |
| 25° | 35446 | 31284 | 31883 |
| 30° | 33568 | 29061 | 30043 |
| 35° | 30403 | 26568 | 27552 |
| 40° | 26471 | 24009 | 24897 |
| 45° | 22460 | 21258 | 22018 |
| 50° | 19897 | 18567 | 19061 |
| 55° | 17529 | 15885 | 15799 |
| 60° | 15700 | 13365 | 12302 |
| 65° | 14009 | 10715 | 8808  |
| 70° | 12342 | 7742  | 5514  |
| 75° | 10400 | 4681  | 3114  |
| 80° | 8019  | 2084  | 1294  |
| 85° | 4655  | 503   | 503   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.3   | 4.8       |
| 10°-20°   | 170.4  | 13.9      |
| 20°-30°   | 246.3  | 20.1      |
| 30°-40°   | 259.1  | 21.2      |
| 40°-50°   | 217.8  | 17.8      |
| 50°-60°   | 152.9  | 12.5      |
| 60°-70°   | 84.1   | 6.9       |
| 70°-80°   | 29.9   | 2.4       |
| 80°-90°   | 3.9    | 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°    | 475.9  | 38.9      |
| 0°-40°    | 735.0  | 60.1      |
| 0°-60°    | 1105.8 | 90.4      |
| 0°-90°    | 1223.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1223.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 624 | 624 | 624 | 624  | 624  |      |
| 5°  | 629 | 627 | 623 | 620  | 619  | 60   |
| 15° | 633 | 622 | 598 | 591  | 593  | 179  |
| 25° | 586 | 556 | 517 | 518  | 527  | 268  |
| 35° | 454 | 428 | 397 | 405  | 412  | 282  |
| 45° | 290 | 282 | 274 | 281  | 284  | 227  |
| 55° | 183 | 174 | 166 | 166  | 165  | 165  |
| 65° | 108 | 97  | 83  | 68   | 68   | 108  |
| 75° | 49  | 39  | 22  | 15   | 15   | 53   |
| 85° | 7   | 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°    | 624.5 | 624.5 | 624.5 | 624.5 | 624.5 | 624.5  | 624.5 | 624.5  | 624.5 |
| 2.5°  | 624.5 | 624.5 | 623.6 | 623.6 | 622.0 | 622.0  | 621.2 | 621.2  | 621.2 |
| 5°    | 628.6 | 628.6 | 626.9 | 624.5 | 622.8 | 620.3  | 620.3 | 619.5  | 618.8 |
| 7.5°  | 631.0 | 630.2 | 627.7 | 624.5 | 620.3 | 616.3  | 614.7 | 615.5  | 614.7 |
| 10°   | 630.2 | 628.6 | 625.3 | 618.8 | 613.9 | 608.1  | 607.3 | 606.4  | 607.3 |
| 12.5° | 631.9 | 629.4 | 622.8 | 614.7 | 606.4 | 600.0  | 599.1 | 599.1  | 600.0 |
| 15°   | 632.7 | 630.2 | 622.0 | 609.7 | 598.3 | 591.7  | 590.9 | 591.7  | 592.6 |
| 17.5° | 630.2 | 626.9 | 614.7 | 598.3 | 585.2 | 578.7  | 578.7 | 580.3  | 582.0 |
| 20°   | 621.2 | 616.3 | 599.1 | 579.5 | 564.8 | 559.8  | 561.5 | 564.8  | 566.3 |
| 22.5° | 604.8 | 599.1 | 579.5 | 557.4 | 541.8 | 537.7  | 541.8 | 545.9  | 547.5 |
| 25°   | 586.0 | 579.5 | 556.5 | 533.6 | 517.2 | 512.3  | 518.1 | 524.6  | 527.1 |
| 27.5° | 560.7 | 553.3 | 532.0 | 505.8 | 489.5 | 487.0  | 493.6 | 500.9  | 502.5 |
| 30°   | 530.3 | 522.2 | 498.4 | 473.9 | 459.1 | 458.3  | 465.7 | 472.3  | 474.6 |
| 32.5° | 493.6 | 486.2 | 465.7 | 441.1 | 428.0 | 428.0  | 435.4 | 441.1  | 443.6 |
| 35°   | 454.3 | 446.0 | 428.0 | 407.6 | 397.0 | 397.8  | 405.1 | 409.2  | 411.7 |
| 37.5° | 407.6 | 405.1 | 391.2 | 374.0 | 366.7 | 368.4  | 374.0 | 377.3  | 379.8 |
| 40°   | 369.9 | 363.4 | 354.4 | 340.5 | 335.5 | 337.2  | 342.9 | 346.2  | 347.9 |
| 42.5° | 329.0 | 324.9 | 317.5 | 307.8 | 304.5 | 306.9  | 311.9 | 314.2  | 313.5 |
| 45°   | 289.7 | 288.9 | 281.5 | 275.9 | 274.2 | 277.5  | 280.7 | 283.2  | 284.0 |
| 47.5° | 261.0 | 257.8 | 251.3 | 247.1 | 245.5 | 248.8  | 252.1 | 253.7  | 253.7 |
| 50°   | 233.3 | 230.0 | 223.5 | 219.4 | 217.7 | 221.0  | 223.5 | 225.0  | 223.5 |
| 52.5° | 205.5 | 202.2 | 196.4 | 191.5 | 190.7 | 192.3  | 193.1 | 194.0  | 195.6 |
| 55°   | 183.4 | 180.1 | 173.5 | 167.8 | 166.2 | 167.0  | 166.2 | 166.2  | 165.3 |
| 57.5° | 162.1 | 158.8 | 152.3 | 145.7 | 143.2 | 142.4  | 139.9 | 139.1  | 138.3 |
| 60°   | 143.2 | 139.1 | 132.6 | 125.2 | 121.9 | 118.6  | 114.6 | 112.2  | 112.2 |
| 62.5° | 125.2 | 121.1 | 113.8 | 107.2 | 102.3 | 96.6   | 90.0  | 86.7   | 86.7  |
| 65°   | 108.0 | 104.7 | 96.6  | 89.2  | 82.6  | 75.3   | 67.9  | 66.3   | 67.9  |
| 67.5° | 91.7  | 88.4  | 80.3  | 72.8  | 64.6  | 55.7   | 49.1  | 49.1   | 50.7  |
| 70°   | 77.0  | 73.7  | 66.3  | 57.3  | 48.3  | 39.3   | 34.4  | 34.4   | 34.4  |
| 72.5° | 63.1  | 59.8  | 51.5  | 43.4  | 34.4  | 25.4   | 22.9  | 23.8   | 22.9  |
| 75°   | 49.1  | 46.6  | 39.3  | 30.3  | 22.1  | 15.5   | 14.7  | 13.9   | 14.7  |
| 77.5° | 36.8  | 34.4  | 27.8  | 19.7  | 12.2  | 9.1    | 8.2   | 8.2    | 8.2   |
| 80°   | 25.4  | 22.9  | 18.0  | 11.4  | 6.6   | 4.1    | 4.1   | 4.1    | 4.1   |
| 82.5° | 15.5  | 13.1  | 9.8   | 5.8   | 2.5   | 2.5    | 2.5   | 2.5    | 2.5   |
| 85°   | 7.4   | 5.8   | 4.1   | 1.6   | 0.8   | 0.8    | 0.8   | 0.8    | 0.8   |
| 87.5° | 1.6   | 1.6   | 0.8   | 0.8   | 0.0   | 0.8    | 0.8   | 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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Scaled Data Report



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

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