

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: P583287

Luminaire Tested: **HCC6S07D010SL-HM60525827-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583287  
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: HCC6S07D010SL-HM60525827-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

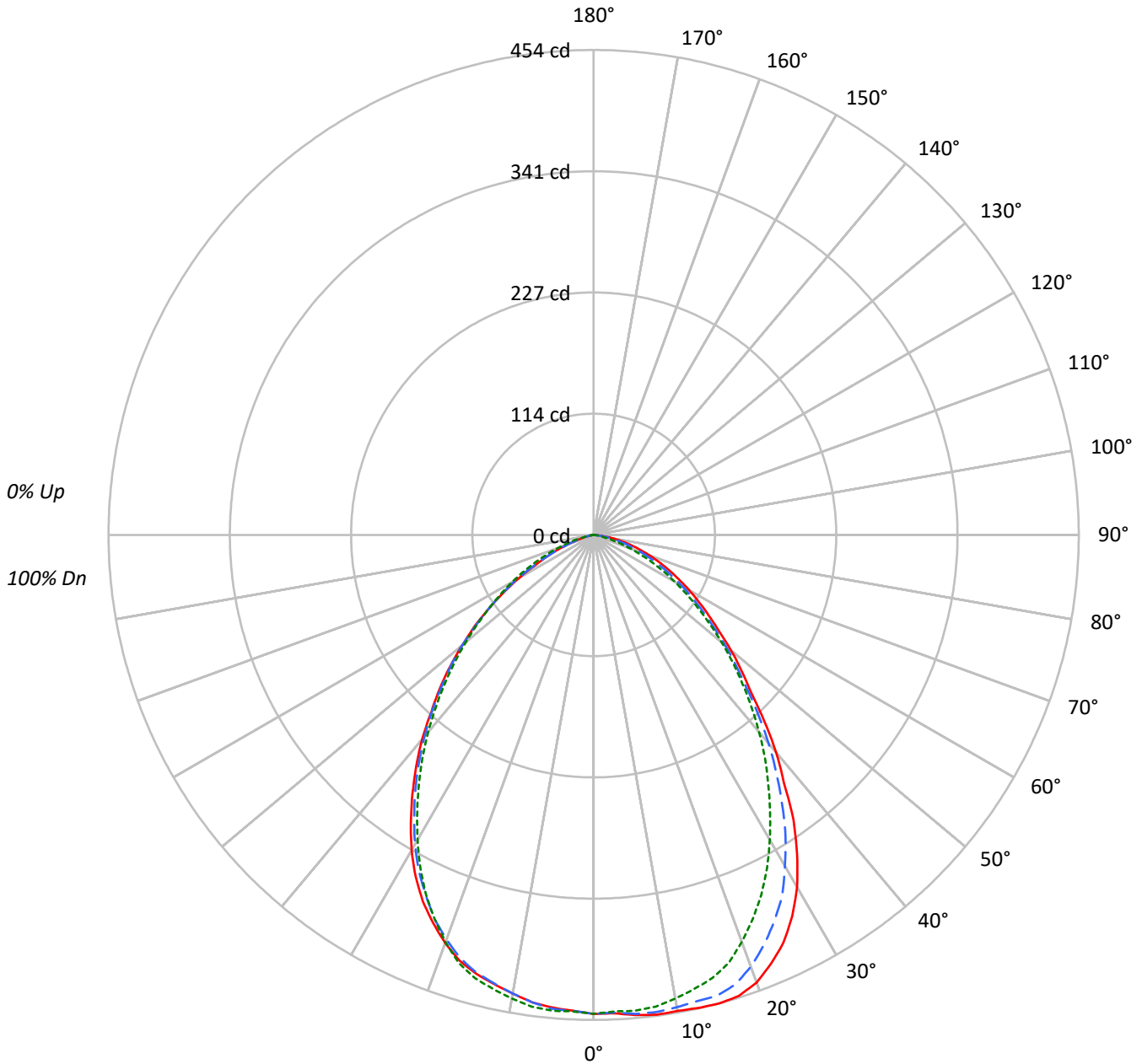
Lumens per Lamp: N/A  
Luminaire Lumens: 878.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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 | 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  | 93  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 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  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 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°  | 24576 | 24576 | 24576 |
| 5°  | 24829 | 24604 | 24439 |
| 10° | 25183 | 24526 | 24270 |
| 15° | 25772 | 24376 | 24137 |
| 20° | 26013 | 23650 | 23715 |
| 25° | 25447 | 22459 | 22882 |
| 30° | 24099 | 20864 | 21573 |
| 35° | 21824 | 19066 | 19776 |
| 40° | 19007 | 17239 | 17869 |
| 45° | 16126 | 15257 | 15800 |
| 50° | 14285 | 13322 | 13680 |
| 55° | 12587 | 11402 | 11335 |
| 60° | 11271 | 9604  | 8815  |
| 65° | 10053 | 7705  | 6317  |
| 70° | 8848  | 5562  | 3959  |
| 75° | 7456  | 3368  | 2224  |
| 80° | 5746  | 1452  | 916   |
| 85° | 3334  | 377   | 377   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.6   | 4.8       |
| 10°-20°   | 122.3  | 13.9      |
| 20°-30°   | 176.8  | 20.1      |
| 30°-40°   | 186.0  | 21.2      |
| 40°-50°   | 156.4  | 17.8      |
| 50°-60°   | 109.8  | 12.5      |
| 60°-70°   | 60.4   | 6.9       |
| 70°-80°   | 21.4   | 2.4       |
| 80°-90°   | 2.8    | 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°    | 341.6  | 38.9      |
| 0°-40°    | 527.6  | 60.1      |
| 0°-60°    | 793.8  | 90.4      |
| 0°-90°    | 878.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 878.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 448 | 448 | 448 | 448  | 448  |      |
| 5°  | 451 | 450 | 447 | 445  | 444  | 43   |
| 15° | 454 | 446 | 430 | 424  | 425  | 128  |
| 25° | 421 | 400 | 371 | 372  | 378  | 192  |
| 35° | 326 | 307 | 285 | 291  | 296  | 202  |
| 45° | 208 | 202 | 197 | 202  | 204  | 163  |
| 55° | 132 | 124 | 119 | 119  | 119  | 118  |
| 65° | 78  | 69  | 59  | 49   | 49   | 77   |
| 75° | 35  | 28  | 16  | 10   | 10   | 38   |
| 85° | 5   | 3   | 1   | 1    | 1    | 7    |
| 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°    | 448.3 | 448.3 | 448.3 | 448.3 | 448.3 | 448.3  | 448.3 | 448.3  | 448.3 |
| 2.5°  | 448.3 | 448.3 | 447.6 | 447.6 | 446.5 | 446.5  | 445.9 | 445.9  | 445.9 |
| 5°    | 451.2 | 451.2 | 450.0 | 448.3 | 447.1 | 445.4  | 445.4 | 444.7  | 444.1 |
| 7.5°  | 453.0 | 452.4 | 450.6 | 448.3 | 445.4 | 442.4  | 441.2 | 441.8  | 441.2 |
| 10°   | 452.4 | 451.2 | 448.9 | 444.1 | 440.6 | 436.5  | 436.0 | 435.3  | 436.0 |
| 12.5° | 453.5 | 451.8 | 447.1 | 441.2 | 435.3 | 430.7  | 430.1 | 430.1  | 430.7 |
| 15°   | 454.1 | 452.4 | 446.5 | 437.7 | 429.5 | 424.8  | 424.2 | 424.8  | 425.3 |
| 17.5° | 452.4 | 450.0 | 441.2 | 429.5 | 420.1 | 415.4  | 415.4 | 416.6  | 417.7 |
| 20°   | 445.9 | 442.4 | 430.1 | 415.9 | 405.4 | 401.9  | 403.0 | 405.4  | 406.5 |
| 22.5° | 434.2 | 430.1 | 415.9 | 400.1 | 389.0 | 386.0  | 389.0 | 391.9  | 393.0 |
| 25°   | 420.7 | 415.9 | 399.5 | 383.1 | 371.3 | 367.8  | 371.9 | 376.6  | 378.3 |
| 27.5° | 402.4 | 397.1 | 381.9 | 363.1 | 351.3 | 349.5  | 354.3 | 359.6  | 360.7 |
| 30°   | 380.7 | 374.8 | 357.8 | 340.1 | 329.6 | 329.0  | 334.3 | 339.0  | 340.8 |
| 32.5° | 354.3 | 349.0 | 334.3 | 316.7 | 307.3 | 307.3  | 312.6 | 316.7  | 318.5 |
| 35°   | 326.1 | 320.2 | 307.3 | 292.5 | 284.9 | 285.5  | 290.8 | 293.8  | 295.5 |
| 37.5° | 292.5 | 290.8 | 280.9 | 268.5 | 263.2 | 264.3  | 268.5 | 270.9  | 272.6 |
| 40°   | 265.6 | 260.8 | 254.4 | 244.4 | 240.9 | 242.0  | 246.2 | 248.5  | 249.7 |
| 42.5° | 236.2 | 233.3 | 228.0 | 220.9 | 218.6 | 220.4  | 223.9 | 225.6  | 225.0 |
| 45°   | 208.0 | 207.3 | 202.1 | 198.0 | 196.8 | 199.2  | 201.6 | 203.3  | 203.8 |
| 47.5° | 187.4 | 185.0 | 180.4 | 177.4 | 176.3 | 178.6  | 180.9 | 182.2  | 182.2 |
| 50°   | 167.5 | 165.1 | 160.4 | 157.5 | 156.2 | 158.6  | 160.4 | 161.6  | 160.4 |
| 52.5° | 147.5 | 145.1 | 141.1 | 137.4 | 136.9 | 138.1  | 138.7 | 139.2  | 140.4 |
| 55°   | 131.7 | 129.3 | 124.5 | 120.4 | 119.3 | 119.9  | 119.3 | 119.3  | 118.6 |
| 57.5° | 116.4 | 114.0 | 109.3 | 104.6 | 102.8 | 102.2  | 100.5 | 99.9   | 99.3  |
| 60°   | 102.8 | 99.9  | 95.2  | 89.8  | 87.6  | 85.2   | 82.3  | 80.4   | 80.4  |
| 62.5° | 89.8  | 86.9  | 81.7  | 76.9  | 73.4  | 69.3   | 64.6  | 62.3   | 62.3  |
| 65°   | 77.5  | 75.2  | 69.3  | 64.0  | 59.4  | 54.0   | 48.7  | 47.6   | 48.7  |
| 67.5° | 65.8  | 63.4  | 57.6  | 52.3  | 46.5  | 40.0   | 35.2  | 35.2   | 36.5  |
| 70°   | 55.2  | 52.9  | 47.6  | 41.1  | 34.7  | 28.2   | 24.7  | 24.7   | 24.7  |
| 72.5° | 45.2  | 42.9  | 37.0  | 31.2  | 24.7  | 18.2   | 16.4  | 17.0   | 16.4  |
| 75°   | 35.2  | 33.5  | 28.2  | 21.8  | 15.9  | 11.2   | 10.5  | 10.0   | 10.5  |
| 77.5° | 26.4  | 24.7  | 19.9  | 14.0  | 8.8   | 6.5    | 5.9   | 5.9    | 5.9   |
| 80°   | 18.2  | 16.4  | 12.9  | 8.3   | 4.6   | 2.9    | 2.9   | 2.9    | 2.9   |
| 82.5° | 11.2  | 9.4   | 7.0   | 4.1   | 1.8   | 1.8    | 1.8   | 1.8    | 1.8   |
| 85°   | 5.3   | 4.1   | 2.9   | 1.1   | 0.6   | 0.6    | 0.6   | 0.6    | 0.6   |
| 87.5° | 1.1   | 1.1   | 0.6   | 0.6   | 0.0   | 0.6    | 0.6   | 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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