

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: P583385

Luminaire Tested: **HCC6S07D010MW-HM60525930-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S07D010MW-HM60525930-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

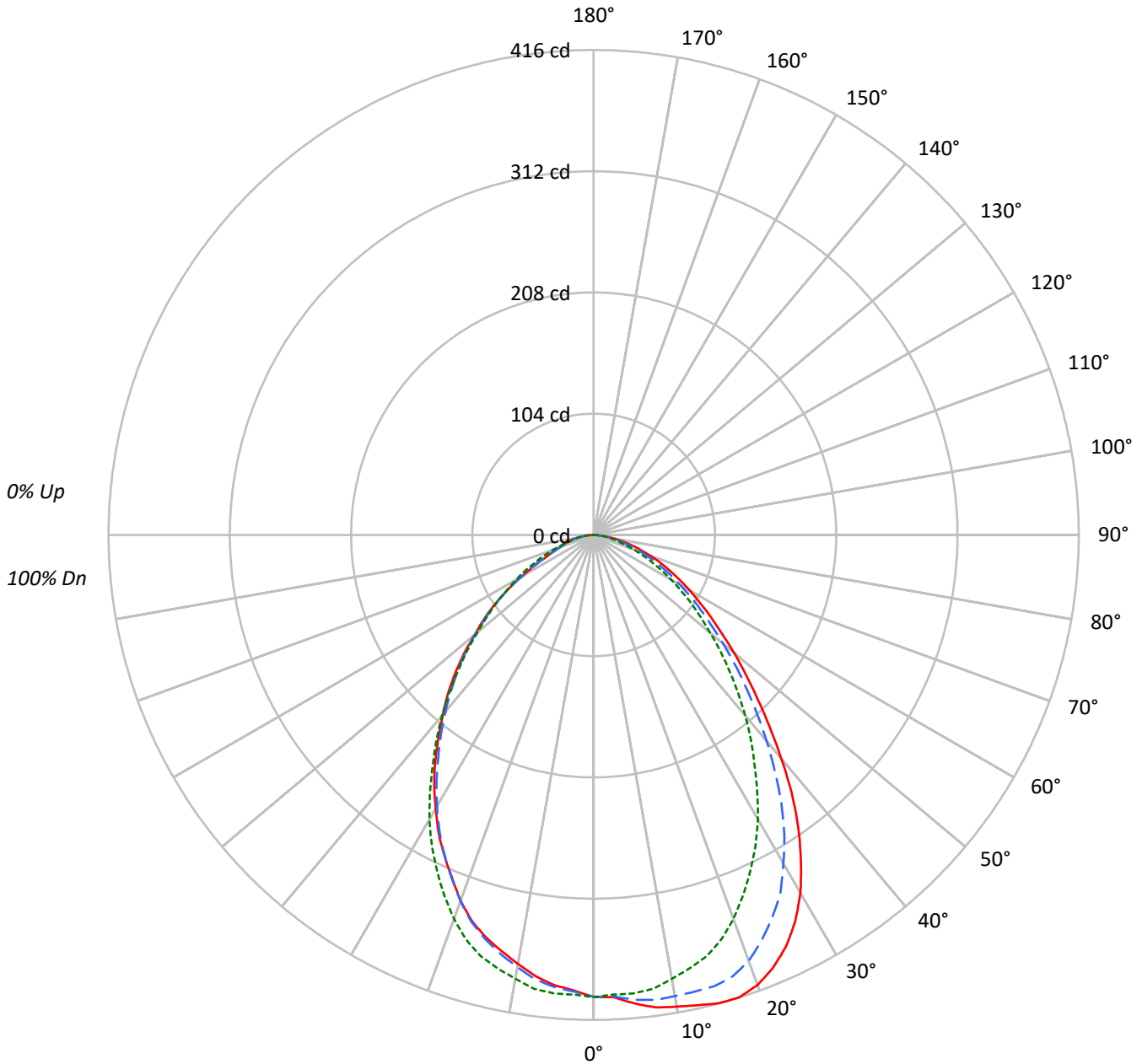
Lumens per Lamp: N/A  
Luminaire Lumens: 776.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): 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 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 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  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 21725 | 21725 | 21725 |
| 5°  | 22204 | 21720 | 21335 |
| 10° | 22873 | 21520 | 20802 |
| 15° | 23598 | 21232 | 20278 |
| 20° | 23971 | 20436 | 19462 |
| 25° | 23584 | 19223 | 18340 |
| 30° | 22446 | 17826 | 17142 |
| 35° | 20472 | 16088 | 15841 |
| 40° | 17905 | 14456 | 14377 |
| 45° | 15405 | 12722 | 13017 |
| 50° | 13390 | 11087 | 11317 |
| 55° | 11699 | 9739  | 9835  |
| 60° | 10383 | 8431  | 7719  |
| 65° | 9275  | 7095  | 5889  |
| 70° | 8158  | 5818  | 4937  |
| 75° | 7011  | 4575  | 4702  |
| 80° | 5651  | 3946  | 4609  |
| 85° | 3774  | 3397  | 4088  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.5   | 4.8       |
| 10°-20°   | 106.8  | 13.8      |
| 20°-30°   | 152.5  | 19.6      |
| 30°-40°   | 159.8  | 20.6      |
| 40°-50°   | 134.5  | 17.3      |
| 50°-60°   | 95.7   | 12.3      |
| 60°-70°   | 56.0   | 7.2       |
| 70°-80°   | 26.5   | 3.4       |
| 80°-90°   | 6.8    | 0.9       |
| 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°    | 296.9  | 38.2      |
| 0°-40°    | 456.6  | 58.8      |
| 0°-60°    | 686.9  | 88.5      |
| 0°-90°    | 776.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 776.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 396 | 396 | 396 | 396  | 396  |      |
| 5°  | 404 | 400 | 395 | 389  | 388  | 39   |
| 15° | 416 | 401 | 374 | 359  | 357  | 117  |
| 25° | 390 | 362 | 318 | 303  | 303  | 178  |
| 35° | 306 | 280 | 240 | 232  | 237  | 190  |
| 45° | 199 | 184 | 164 | 165  | 168  | 154  |
| 55° | 122 | 112 | 102 | 102  | 103  | 110  |
| 65° | 72  | 63  | 55  | 46   | 45   | 71   |
| 75° | 33  | 28  | 22  | 21   | 22   | 35   |
| 85° | 6   | 5   | 5   | 6    | 6    | 8    |
| 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°    | 396.3 | 396.3 | 396.3 | 396.3 | 396.3 | 396.3  | 396.3 | 396.3  | 396.3 |
| 2.5°  | 396.9 | 396.9 | 396.3 | 395.9 | 394.7 | 393.2  | 392.0 | 391.0  | 391.0 |
| 5°    | 403.5 | 402.3 | 400.2 | 397.5 | 394.7 | 391.5  | 389.3 | 387.7  | 387.7 |
| 7.5°  | 408.8 | 406.6 | 402.3 | 397.5 | 392.6 | 388.3  | 384.4 | 382.3  | 381.7 |
| 10°   | 410.9 | 408.3 | 401.8 | 394.2 | 386.6 | 380.7  | 376.4 | 373.7  | 373.7 |
| 12.5° | 413.2 | 409.9 | 401.2 | 390.4 | 380.7 | 372.5  | 368.2 | 366.1  | 365.5 |
| 15°   | 415.8 | 411.5 | 400.7 | 387.1 | 374.1 | 364.9  | 359.0 | 357.3  | 357.3 |
| 17.5° | 415.8 | 410.5 | 396.9 | 380.1 | 363.9 | 353.6  | 348.2 | 346.6  | 347.2 |
| 20°   | 410.9 | 405.0 | 388.8 | 368.2 | 350.3 | 339.6  | 334.1 | 333.0  | 333.6 |
| 22.5° | 401.8 | 394.7 | 376.4 | 354.2 | 334.7 | 323.2  | 318.4 | 318.4  | 317.8 |
| 25°   | 389.9 | 382.3 | 362.2 | 339.0 | 317.8 | 306.5  | 302.7 | 303.2  | 303.2 |
| 27.5° | 374.1 | 366.6 | 346.6 | 321.7 | 300.5 | 289.1  | 286.4 | 287.6  | 288.1 |
| 30°   | 354.6 | 346.6 | 325.4 | 301.0 | 281.6 | 270.2  | 268.6 | 270.2  | 270.8 |
| 32.5° | 330.8 | 324.9 | 304.3 | 279.4 | 261.0 | 251.3  | 250.7 | 252.3  | 254.5 |
| 35°   | 305.9 | 299.5 | 280.5 | 257.8 | 240.4 | 232.3  | 232.3 | 235.0  | 236.7 |
| 37.5° | 278.8 | 272.4 | 255.0 | 236.1 | 221.5 | 213.9  | 214.9 | 217.6  | 218.2 |
| 40°   | 250.2 | 245.3 | 230.7 | 214.5 | 202.0 | 196.0  | 197.6 | 200.3  | 200.9 |
| 42.5° | 223.1 | 218.8 | 206.9 | 192.3 | 183.0 | 178.7  | 180.8 | 184.1  | 185.2 |
| 45°   | 198.7 | 193.9 | 184.1 | 171.6 | 164.1 | 161.9  | 164.6 | 166.8  | 167.9 |
| 47.5° | 176.5 | 172.2 | 164.1 | 152.7 | 147.3 | 146.2  | 148.9 | 150.0  | 151.0 |
| 50°   | 157.0 | 152.7 | 144.6 | 134.3 | 130.0 | 130.0  | 132.1 | 133.2  | 132.7 |
| 52.5° | 138.1 | 134.3 | 126.7 | 118.1 | 115.3 | 115.3  | 116.9 | 117.5  | 118.6 |
| 55°   | 122.4 | 118.6 | 112.1 | 104.0 | 101.9 | 100.7  | 101.9 | 101.9  | 102.9 |
| 57.5° | 107.7 | 104.5 | 98.6  | 91.0  | 88.3  | 87.1   | 86.7  | 86.1   | 87.1  |
| 60°   | 94.7  | 92.0  | 85.5  | 79.1  | 76.9  | 74.2   | 72.1  | 69.9   | 70.4  |
| 62.5° | 82.8  | 80.1  | 74.2  | 67.6  | 65.5  | 61.7   | 59.0  | 56.3   | 57.4  |
| 65°   | 71.5  | 68.8  | 63.3  | 57.9  | 54.7  | 50.3   | 46.0  | 44.4   | 45.4  |
| 67.5° | 61.2  | 59.0  | 53.6  | 48.2  | 45.4  | 40.6   | 36.3  | 36.3   | 36.8  |
| 70°   | 50.9  | 48.7  | 44.4  | 39.5  | 36.3  | 32.0   | 30.4  | 30.8   | 30.8  |
| 72.5° | 41.7  | 40.1  | 35.7  | 31.4  | 28.2  | 25.5   | 25.5  | 25.9   | 26.5  |
| 75°   | 33.1  | 32.0  | 27.6  | 23.8  | 21.6  | 20.1   | 21.1  | 21.6   | 22.2  |
| 77.5° | 25.5  | 23.8  | 20.6  | 17.9  | 16.2  | 16.8   | 17.9  | 18.4   | 18.9  |
| 80°   | 17.9  | 17.3  | 14.6  | 13.0  | 12.5  | 13.0   | 14.0  | 14.6   | 14.6  |
| 82.5° | 11.3  | 10.9  | 9.2   | 8.6   | 8.6   | 9.2    | 10.3  | 10.3   | 10.3  |
| 85°   | 6.0   | 5.4   | 4.9   | 4.9   | 5.4   | 6.0    | 6.5   | 6.5    | 6.5   |
| 87.5° | 2.2   | 1.6   | 2.2   | 2.2   | 2.7   | 2.7    | 2.7   | 2.7    | 2.7   |
| 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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