

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: P583366

Luminaire Tested: **HCC6W07D010BZ-HM60525927-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583366  
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: HCC6W07D010BZ-HM60525927-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

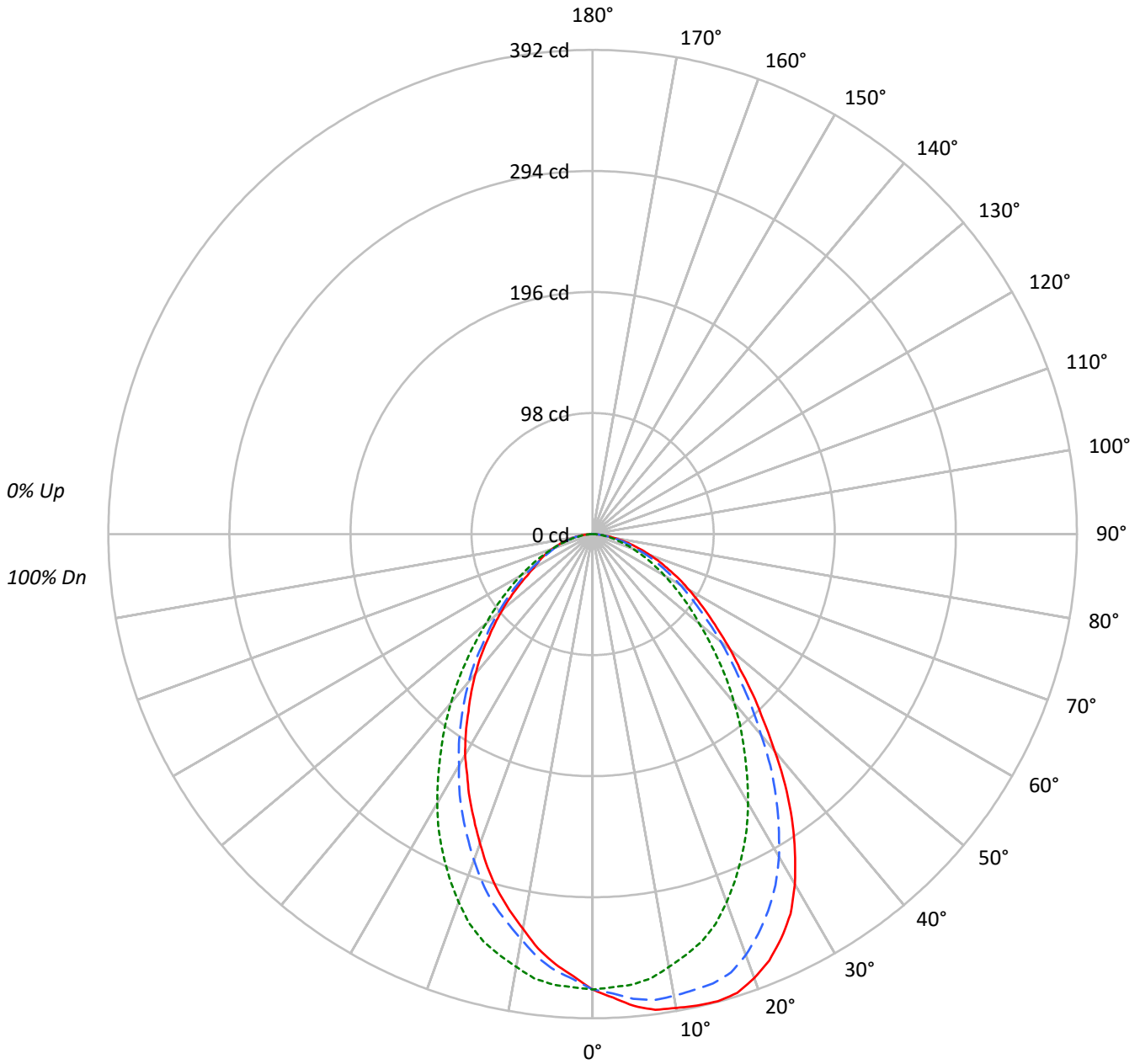
Lumens per Lamp: N/A  
Luminaire Lumens: 686.8 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     |    |    |    |  |  |  |  |   |
| 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   | 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°  | 20212 | 20212 | 20212 |
| 5°  | 21104 | 20152 | 19222 |
| 10° | 21682 | 19806 | 18064 |
| 15° | 22219 | 19376 | 16924 |
| 20° | 22320 | 18493 | 15547 |
| 25° | 21848 | 17318 | 14257 |
| 30° | 20725 | 15920 | 13065 |
| 35° | 18825 | 14315 | 11725 |
| 40° | 16402 | 12745 | 10548 |
| 45° | 14195 | 11156 | 9265  |
| 50° | 12400 | 9603  | 8128  |
| 55° | 10963 | 8449  | 6977  |
| 60° | 9846  | 7401  | 6041  |
| 65° | 8821  | 6434  | 5863  |
| 70° | 7886  | 5482  | 5482  |
| 75° | 6841  | 4639  | 5168  |
| 80° | 5462  | 3883  | 4672  |
| 85° | 3774  | 3397  | 4088  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.6   | 5.0       |
| 10°-20°   | 96.3   | 14.0      |
| 20°-30°   | 134.2  | 19.5      |
| 30°-40°   | 138.3  | 20.1      |
| 40°-50°   | 114.6  | 16.7      |
| 50°-60°   | 82.4   | 12.0      |
| 60°-70°   | 52.5   | 7.6       |
| 70°-80°   | 26.9   | 3.9       |
| 80°-90°   | 6.9    | 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°    | 265.2  | 38.6      |
| 0°-40°    | 403.5  | 58.8      |
| 0°-60°    | 600.5  | 87.4      |
| 0°-90°    | 686.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 686.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 369 | 369 | 369 | 369  | 369  |      |
| 5°  | 384 | 378 | 366 | 354  | 349  | 37   |
| 15° | 392 | 377 | 341 | 310  | 298  | 110  |
| 25° | 361 | 336 | 286 | 250  | 236  | 166  |
| 35° | 281 | 259 | 214 | 186  | 175  | 175  |
| 45° | 183 | 170 | 144 | 126  | 120  | 142  |
| 55° | 115 | 105 | 88  | 78   | 73   | 103  |
| 65° | 68  | 60  | 50  | 43   | 45   | 68   |
| 75° | 32  | 28  | 22  | 23   | 24   | 34   |
| 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°    | 368.7 | 368.7 | 368.7 | 368.7 | 368.7 | 368.7  | 368.7 | 368.7  | 368.7 |
| 2.5°  | 375.6 | 374.1 | 372.2 | 370.2 | 367.2 | 363.7  | 360.7 | 359.7  | 358.3 |
| 5°    | 383.5 | 381.6 | 377.6 | 372.6 | 366.2 | 359.7  | 354.3 | 350.8  | 349.3 |
| 7.5°  | 388.5 | 386.0 | 380.6 | 372.2 | 362.7 | 353.3  | 345.3 | 340.4  | 338.4 |
| 10°   | 389.5 | 387.0 | 379.6 | 368.2 | 355.8 | 342.8  | 333.0 | 327.0  | 324.5 |
| 12.5° | 391.0 | 387.5 | 378.1 | 364.7 | 348.9 | 333.9  | 321.5 | 314.1  | 311.6 |
| 15°   | 391.5 | 387.5 | 376.6 | 360.2 | 341.4 | 323.5  | 310.1 | 301.2  | 298.2 |
| 17.5° | 389.5 | 385.0 | 372.2 | 352.2 | 330.9 | 312.1  | 296.3 | 286.8  | 282.8 |
| 20°   | 382.6 | 377.6 | 362.7 | 340.4 | 317.0 | 297.2  | 280.9 | 270.9  | 266.5 |
| 22.5° | 373.7 | 367.2 | 350.3 | 326.5 | 302.2 | 281.3  | 265.0 | 255.0  | 250.6 |
| 25°   | 361.2 | 355.3 | 336.4 | 311.1 | 286.3 | 264.4  | 249.6 | 239.2  | 235.7 |
| 27.5° | 346.8 | 339.9 | 320.5 | 295.3 | 269.9 | 248.1  | 233.7 | 224.2  | 219.8 |
| 30°   | 327.4 | 321.0 | 301.7 | 276.3 | 251.5 | 231.2  | 216.3 | 208.4  | 206.4 |
| 32.5° | 304.7 | 299.2 | 280.3 | 256.5 | 232.7 | 213.9  | 201.4 | 193.1  | 191.0 |
| 35°   | 281.3 | 274.9 | 258.6 | 236.2 | 213.9 | 197.0  | 185.6 | 178.1  | 175.2 |
| 37.5° | 256.1 | 250.1 | 236.2 | 216.3 | 196.5 | 180.6  | 170.7 | 164.3  | 161.2 |
| 40°   | 229.2 | 224.8 | 211.9 | 196.0 | 178.1 | 164.3  | 155.8 | 150.3  | 147.4 |
| 42.5° | 204.4 | 200.0 | 191.0 | 176.2 | 161.2 | 148.9  | 141.4 | 136.4  | 133.9 |
| 45°   | 183.1 | 179.1 | 170.2 | 157.3 | 143.9 | 133.5  | 125.5 | 122.0  | 119.5 |
| 47.5° | 161.8 | 159.8 | 151.8 | 139.9 | 127.6 | 118.6  | 113.2 | 109.1  | 107.2 |
| 50°   | 145.4 | 142.9 | 135.5 | 123.0 | 112.6 | 105.7  | 100.7 | 97.2   | 95.3  |
| 52.5° | 128.5 | 126.0 | 119.1 | 108.7 | 100.3 | 93.8   | 88.8  | 85.9   | 83.8  |
| 55°   | 114.7 | 112.6 | 105.1 | 95.7  | 88.4  | 82.8   | 78.4  | 74.9   | 73.0  |
| 57.5° | 101.7 | 99.7  | 92.8  | 83.8  | 77.4  | 72.4   | 68.4  | 65.5   | 63.0  |
| 60°   | 89.8  | 88.4  | 81.3  | 73.0  | 67.5  | 62.5   | 59.0  | 56.5   | 55.1  |
| 62.5° | 79.4  | 76.4  | 70.5  | 63.0  | 58.0  | 54.0   | 50.6  | 49.2   | 50.1  |
| 65°   | 68.0  | 66.5  | 60.5  | 54.0  | 49.6  | 45.7   | 43.2  | 44.2   | 45.2  |
| 67.5° | 58.6  | 56.5  | 51.6  | 45.7  | 41.7  | 38.7   | 37.2  | 39.2   | 39.7  |
| 70°   | 49.2  | 47.1  | 42.7  | 37.7  | 34.2  | 32.3   | 32.3  | 33.8   | 34.2  |
| 72.5° | 40.2  | 38.7  | 34.8  | 30.8  | 28.3  | 26.7   | 27.8  | 28.8   | 29.2  |
| 75°   | 32.3  | 30.8  | 27.8  | 24.4  | 21.9  | 21.9   | 22.8  | 23.8   | 24.4  |
| 77.5° | 24.8  | 23.8  | 20.8  | 18.4  | 17.3  | 17.3   | 18.4  | 18.8   | 19.4  |
| 80°   | 17.3  | 16.4  | 14.8  | 13.4  | 12.3  | 13.4   | 14.4  | 14.4   | 14.8  |
| 82.5° | 11.4  | 10.9  | 10.0  | 9.0   | 9.0   | 9.4    | 10.0  | 10.4   | 10.4  |
| 85°   | 6.0   | 6.0   | 5.4   | 5.0   | 5.4   | 6.0    | 6.0   | 6.5    | 6.5   |
| 87.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.5   | 2.5    | 2.5   | 2.5    | 2.5   |
| 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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