

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: P582872

Luminaire Tested: **HCC6S05D010BZ-HM60525830-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582872  
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: HCC6S05D010BZ-HM60525830-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

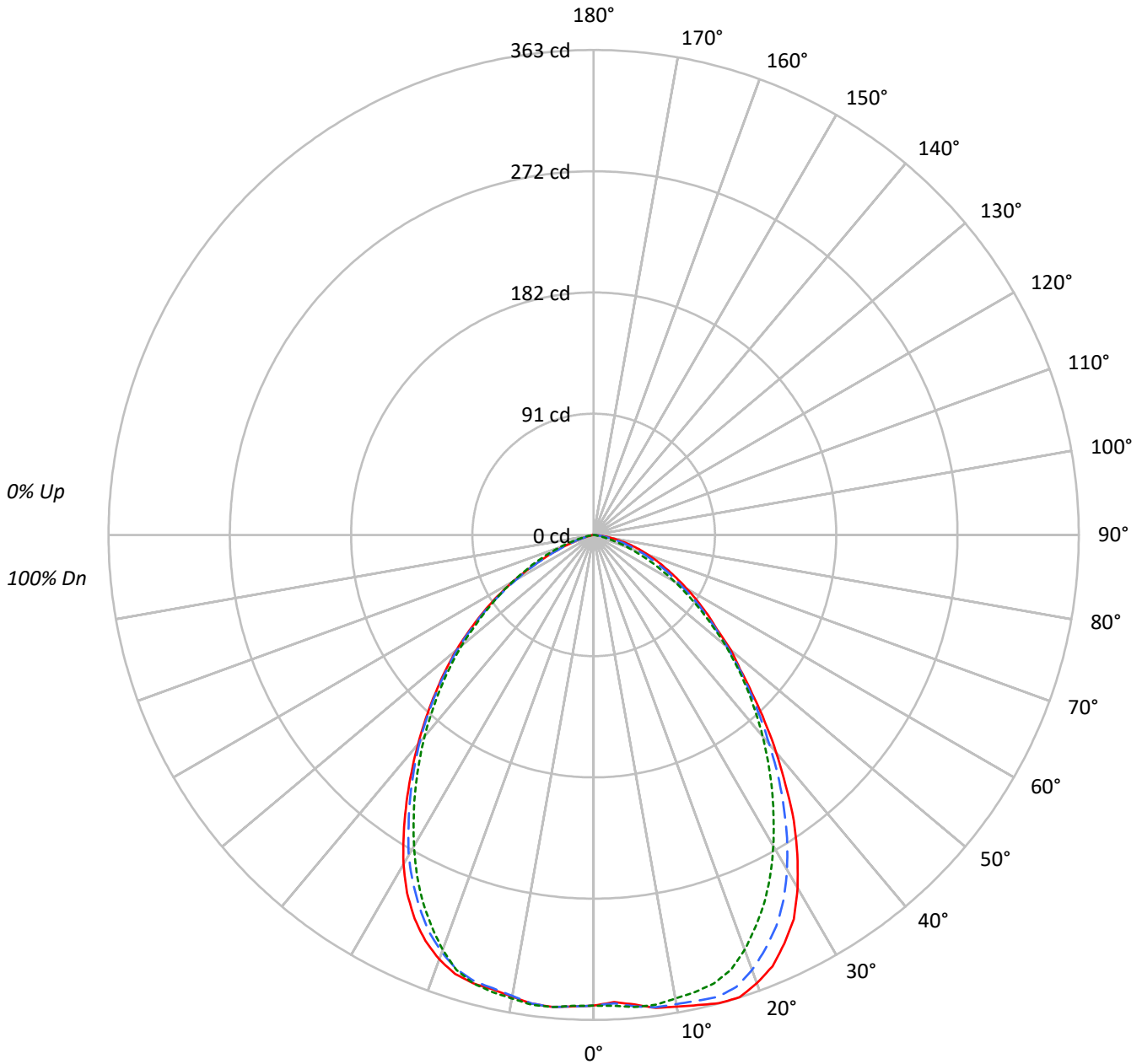
Lumens per Lamp: N/A  
Luminaire Lumens: 711.3 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
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 |    |    | 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  | 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  | 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°  | 19313 | 19313 | 19313 |
| 5°  | 19414 | 19519 | 19519 |
| 10° | 19956 | 19611 | 19533 |
| 15° | 20590 | 19728 | 19728 |
| 20° | 20833 | 19275 | 19718 |
| 25° | 20414 | 18310 | 19174 |
| 30° | 19313 | 17015 | 18009 |
| 35° | 17474 | 15566 | 16329 |
| 40° | 15200 | 14076 | 14620 |
| 45° | 12994 | 12544 | 12994 |
| 50° | 11403 | 10993 | 11437 |
| 55° | 9949  | 9271  | 9625  |
| 60° | 8793  | 7697  | 7598  |
| 65° | 7796  | 6071  | 5202  |
| 70° | 6876  | 4296  | 3126  |
| 75° | 5867  | 2415  | 1504  |
| 80° | 4388  | 758   | 474   |
| 85° | 2390  | 314   | 314   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.8   | 4.8       |
| 10°-20°   | 98.9   | 13.9      |
| 20°-30°   | 144.4  | 20.3      |
| 30°-40°   | 151.5  | 21.3      |
| 40°-50°   | 127.6  | 17.9      |
| 50°-60°   | 89.4   | 12.6      |
| 60°-70°   | 47.9   | 6.7       |
| 70°-80°   | 16.1   | 2.3       |
| 80°-90°   | 1.8    | 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°    | 277.1  | 39.0      |
| 0°-40°    | 428.6  | 60.2      |
| 0°-60°    | 645.6  | 90.8      |
| 0°-90°    | 711.3  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 711.3  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 352 | 352 | 352 | 352  | 352  |      |
| 5°  | 353 | 354 | 355 | 355  | 355  | 34   |
| 15° | 363 | 358 | 348 | 346  | 348  | 102  |
| 25° | 338 | 323 | 303 | 308  | 317  | 155  |
| 35° | 261 | 248 | 233 | 239  | 244  | 162  |
| 45° | 168 | 165 | 162 | 166  | 168  | 131  |
| 55° | 104 | 101 | 97  | 99   | 101  | 94   |
| 65° | 60  | 55  | 47  | 39   | 40   | 60   |
| 75° | 28  | 22  | 11  | 7    | 7    | 29   |
| 85° | 4   | 2   | 0   | 0    | 0    | 5    |
| 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°    | 352.3 | 352.3 | 352.3 | 352.3 | 352.3 | 352.3  | 352.3 | 352.3  | 352.3 |
| 2.5°  | 350.0 | 350.0 | 350.9 | 351.9 | 352.8 | 352.8  | 353.2 | 353.8  | 353.2 |
| 5°    | 352.8 | 352.8 | 354.3 | 354.7 | 354.7 | 354.3  | 354.7 | 354.7  | 354.7 |
| 7.5°  | 357.1 | 356.2 | 356.6 | 355.7 | 354.7 | 354.3  | 353.8 | 353.8  | 353.8 |
| 10°   | 358.5 | 357.5 | 356.6 | 354.7 | 352.3 | 350.9  | 350.4 | 350.9  | 350.9 |
| 12.5° | 360.5 | 359.5 | 357.1 | 353.2 | 350.4 | 348.0  | 347.6 | 348.5  | 348.5 |
| 15°   | 362.8 | 361.8 | 358.1 | 351.9 | 347.6 | 345.2  | 345.7 | 346.6  | 347.6 |
| 17.5° | 362.8 | 360.9 | 354.7 | 346.6 | 341.4 | 339.0  | 340.9 | 343.3  | 344.6 |
| 20°   | 357.1 | 355.2 | 346.6 | 336.6 | 330.4 | 328.9  | 332.3 | 336.6  | 338.0 |
| 22.5° | 349.5 | 345.7 | 335.6 | 323.6 | 317.0 | 317.0  | 321.8 | 327.0  | 328.9 |
| 25°   | 337.5 | 334.7 | 323.2 | 309.4 | 302.7 | 302.2  | 307.9 | 315.0  | 317.0 |
| 27.5° | 324.2 | 320.4 | 307.9 | 293.6 | 286.5 | 286.9  | 293.1 | 300.2  | 302.2 |
| 30°   | 305.1 | 300.2 | 289.3 | 275.5 | 268.8 | 270.7  | 276.8 | 282.2  | 284.5 |
| 32.5° | 283.6 | 279.3 | 269.3 | 256.4 | 250.6 | 252.6  | 257.8 | 262.6  | 264.5 |
| 35°   | 261.1 | 256.4 | 247.8 | 236.3 | 232.6 | 234.4  | 239.2 | 243.0  | 244.0 |
| 37.5° | 235.8 | 232.6 | 226.3 | 217.2 | 214.4 | 216.7  | 220.6 | 222.9  | 223.9 |
| 40°   | 212.4 | 209.6 | 204.3 | 197.6 | 196.7 | 198.7  | 202.4 | 203.9  | 204.3 |
| 42.5° | 189.5 | 187.1 | 183.9 | 179.0 | 179.0 | 180.9  | 184.3 | 185.2  | 185.7 |
| 45°   | 167.6 | 166.1 | 164.8 | 160.9 | 161.8 | 164.2  | 166.1 | 167.6  | 167.6 |
| 47.5° | 148.5 | 148.9 | 147.0 | 144.2 | 145.1 | 147.5  | 148.9 | 150.4  | 150.4 |
| 50°   | 133.7 | 132.2 | 130.3 | 127.5 | 128.9 | 130.9  | 132.8 | 133.7  | 134.1 |
| 52.5° | 116.5 | 116.1 | 114.6 | 111.2 | 112.2 | 113.1  | 115.0 | 116.5  | 117.0 |
| 55°   | 104.1 | 102.6 | 100.7 | 97.0  | 97.0  | 97.9   | 98.9  | 99.8   | 100.7 |
| 57.5° | 92.1  | 90.7  | 87.8  | 83.5  | 83.1  | 83.1   | 82.6  | 83.5   | 85.0  |
| 60°   | 80.2  | 79.8  | 75.5  | 71.6  | 70.2  | 68.7   | 66.8  | 67.3   | 69.3  |
| 62.5° | 69.7  | 68.7  | 65.0  | 60.1  | 57.3  | 54.9   | 52.5  | 52.1   | 53.9  |
| 65°   | 60.1  | 59.2  | 54.9  | 50.2  | 46.8  | 42.5   | 38.6  | 38.6   | 40.1  |
| 67.5° | 51.5  | 49.6  | 45.9  | 40.6  | 36.3  | 31.1   | 27.2  | 28.1   | 28.6  |
| 70°   | 42.9  | 41.6  | 37.3  | 32.0  | 26.8  | 21.5   | 19.1  | 19.5   | 19.5  |
| 72.5° | 35.4  | 33.4  | 29.2  | 23.8  | 18.6  | 13.9   | 12.9  | 12.4   | 12.4  |
| 75°   | 27.7  | 25.8  | 21.5  | 16.3  | 11.4  | 8.1    | 7.1   | 7.1    | 7.1   |
| 77.5° | 20.0  | 18.6  | 14.8  | 10.1  | 6.2   | 3.8    | 3.4   | 2.8    | 2.8   |
| 80°   | 13.9  | 12.4  | 9.0   | 5.2   | 2.4   | 1.5    | 1.5   | 1.5    | 1.5   |
| 82.5° | 8.1   | 6.7   | 4.3   | 2.4   | 0.9   | 0.5    | 0.5   | 0.5    | 0.5   |
| 85°   | 3.8   | 2.8   | 1.9   | 0.9   | 0.5   | 0.5    | 0.5   | 0.5    | 0.5   |
| 87.5° | 0.5   | 0.5   | 0.5   | 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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