

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: P593029

Luminaire Tested: **HCC6W07D010MW-HM60525850-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593029  
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: HCC6W07D010MW-HM60525850-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

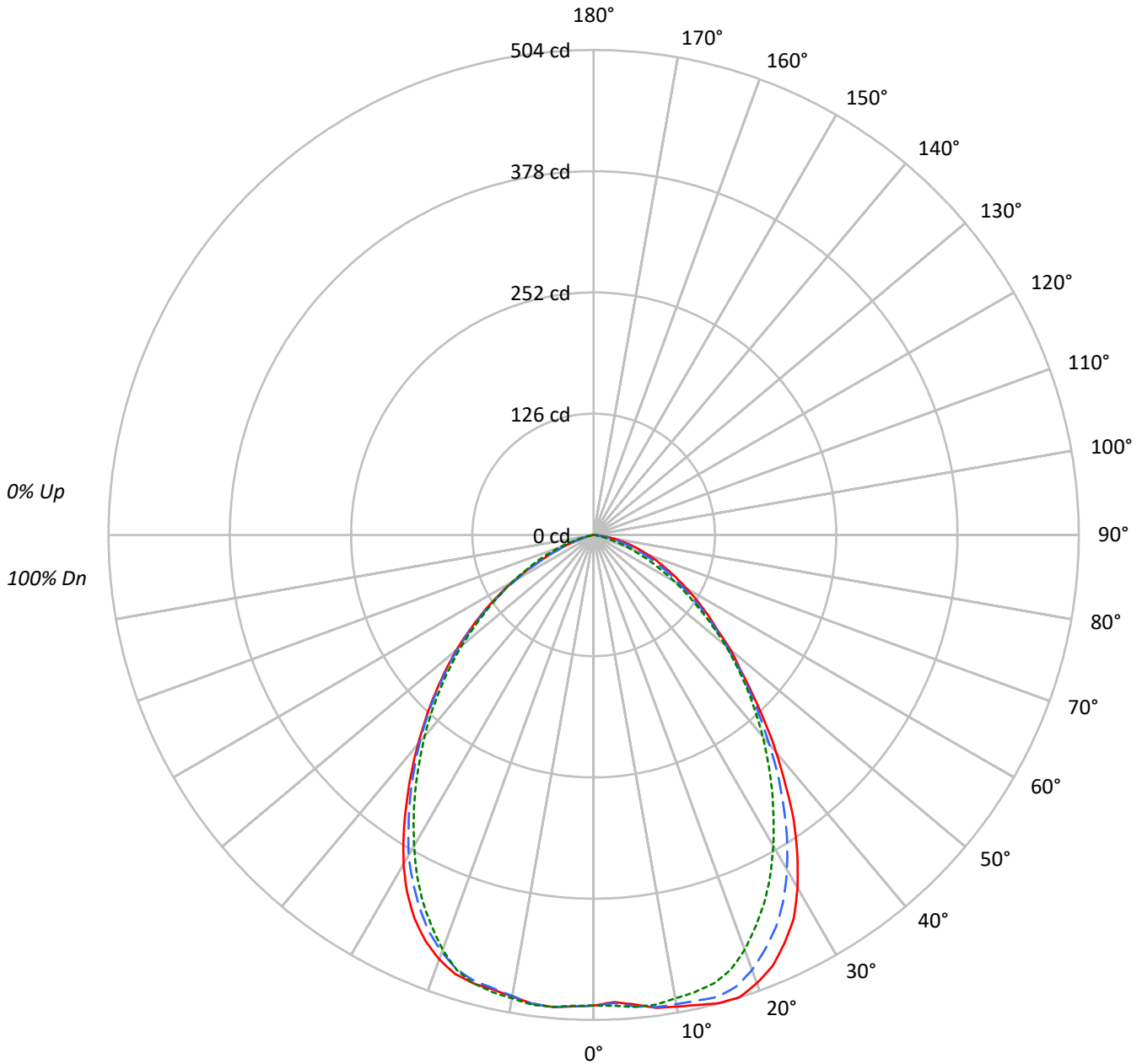
Lumens per Lamp: N/A  
Luminaire Lumens: 987.5 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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 | 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°  | 26813 | 26813 | 26813 |
| 5°  | 26953 | 27097 | 27097 |
| 10° | 27705 | 27226 | 27115 |
| 15° | 28587 | 27384 | 27384 |
| 20° | 28924 | 26754 | 27378 |
| 25° | 28344 | 25417 | 26620 |
| 30° | 26808 | 23618 | 25004 |
| 35° | 24266 | 21603 | 22667 |
| 40° | 21104 | 19544 | 20302 |
| 45° | 18033 | 17420 | 18033 |
| 50° | 15829 | 15257 | 15889 |
| 55° | 13811 | 12855 | 13362 |
| 60° | 12214 | 10679 | 10536 |
| 65° | 10831 | 8419  | 7212  |
| 70° | 9553  | 5963  | 4360  |
| 75° | 8133  | 3368  | 2118  |
| 80° | 6093  | 1042  | 631   |
| 85° | 3334  | 440   | 440   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.9   | 4.8       |
| 10°-20°   | 137.3  | 13.9      |
| 20°-30°   | 200.5  | 20.3      |
| 30°-40°   | 210.3  | 21.3      |
| 40°-50°   | 177.1  | 17.9      |
| 50°-60°   | 124.1  | 12.6      |
| 60°-70°   | 66.5   | 6.7       |
| 70°-80°   | 22.3   | 2.3       |
| 80°-90°   | 2.4    | 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°    | 384.7  | 39.0      |
| 0°-40°    | 594.9  | 60.2      |
| 0°-60°    | 896.2  | 90.8      |
| 0°-90°    | 987.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 987.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 489 | 489 | 489 | 489  | 489  |      |
| 5°  | 490 | 492 | 492 | 492  | 492  | 47   |
| 15° | 504 | 497 | 482 | 480  | 482  | 142  |
| 25° | 469 | 449 | 420 | 428  | 440  | 215  |
| 35° | 363 | 344 | 323 | 332  | 339  | 225  |
| 45° | 233 | 229 | 225 | 231  | 233  | 181  |
| 55° | 144 | 140 | 134 | 137  | 140  | 130  |
| 65° | 84  | 76  | 65  | 54   | 56   | 83   |
| 75° | 38  | 30  | 16  | 10   | 10   | 41   |
| 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°    | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 | 489.1  | 489.1 | 489.1  | 489.1 |
| 2.5°  | 485.8 | 485.8 | 487.1 | 488.4 | 489.8 | 489.8  | 490.5 | 491.2  | 490.5 |
| 5°    | 489.8 | 489.8 | 491.7 | 492.4 | 492.4 | 491.7  | 492.4 | 492.4  | 492.4 |
| 7.5°  | 495.8 | 494.4 | 495.1 | 493.8 | 492.4 | 491.7  | 491.2 | 491.2  | 491.2 |
| 10°   | 497.7 | 496.4 | 495.1 | 492.4 | 489.1 | 487.1  | 486.5 | 487.1  | 487.1 |
| 12.5° | 500.3 | 499.1 | 495.8 | 490.5 | 486.5 | 483.1  | 482.5 | 483.8  | 483.8 |
| 15°   | 503.7 | 502.4 | 497.0 | 488.4 | 482.5 | 479.1  | 479.8 | 481.2  | 482.5 |
| 17.5° | 503.7 | 501.0 | 492.4 | 481.2 | 473.8 | 470.5  | 473.3 | 476.5  | 478.5 |
| 20°   | 495.8 | 493.1 | 481.2 | 467.2 | 458.6 | 456.6  | 461.2 | 467.2  | 469.3 |
| 22.5° | 485.2 | 479.8 | 465.9 | 449.3 | 440.1 | 440.1  | 446.7 | 454.0  | 456.6 |
| 25°   | 468.6 | 464.6 | 448.7 | 429.5 | 420.2 | 419.5  | 427.5 | 437.5  | 440.1 |
| 27.5° | 450.0 | 444.7 | 427.5 | 407.7 | 397.7 | 398.4  | 407.0 | 416.8  | 419.5 |
| 30°   | 423.5 | 416.8 | 401.6 | 382.4 | 373.1 | 375.8  | 384.4 | 391.7  | 395.0 |
| 32.5° | 393.7 | 387.7 | 373.8 | 355.9 | 347.9 | 350.6  | 357.9 | 364.5  | 367.2 |
| 35°   | 362.6 | 355.9 | 344.0 | 328.1 | 322.8 | 325.4  | 332.1 | 337.3  | 338.7 |
| 37.5° | 327.4 | 322.8 | 314.2 | 301.6 | 297.5 | 300.9  | 306.2 | 309.5  | 310.8 |
| 40°   | 294.9 | 291.0 | 283.7 | 274.4 | 273.1 | 275.7  | 281.0 | 283.0  | 283.7 |
| 42.5° | 263.1 | 259.8 | 255.2 | 248.6 | 248.6 | 251.2  | 255.8 | 257.2  | 257.9 |
| 45°   | 232.6 | 230.7 | 228.6 | 223.3 | 224.7 | 228.0  | 230.7 | 232.6  | 232.6 |
| 47.5° | 206.1 | 206.8 | 204.2 | 200.2 | 201.4 | 204.8  | 206.8 | 208.8  | 208.8 |
| 50°   | 185.6 | 183.5 | 180.9 | 177.0 | 178.9 | 181.6  | 184.2 | 185.6  | 186.3 |
| 52.5° | 161.7 | 161.0 | 159.1 | 154.4 | 155.8 | 157.0  | 159.8 | 161.7  | 162.4 |
| 55°   | 144.5 | 142.5 | 139.8 | 134.5 | 134.5 | 135.8  | 137.2 | 138.6  | 139.8 |
| 57.5° | 127.9 | 125.9 | 121.9 | 116.0 | 115.3 | 115.3  | 114.7 | 116.0  | 117.9 |
| 60°   | 111.4 | 110.7 | 104.7 | 99.4  | 97.4  | 95.4   | 92.8  | 93.5   | 96.1  |
| 62.5° | 96.8  | 95.4  | 90.2  | 83.5  | 79.5  | 76.3   | 72.9  | 72.3   | 74.9  |
| 65°   | 83.5  | 82.1  | 76.3  | 69.6  | 64.9  | 59.0   | 53.7  | 53.7   | 55.6  |
| 67.5° | 71.6  | 68.9  | 63.7  | 56.3  | 50.4  | 43.1   | 37.7  | 39.1   | 39.8  |
| 70°   | 59.6  | 57.7  | 51.7  | 44.4  | 37.2  | 29.8   | 26.5  | 27.2   | 27.2  |
| 72.5° | 49.1  | 46.3  | 40.4  | 33.1  | 25.8  | 19.3   | 17.9  | 17.2   | 17.2  |
| 75°   | 38.4  | 35.8  | 29.8  | 22.5  | 15.9  | 11.2   | 10.0  | 10.0   | 10.0  |
| 77.5° | 27.9  | 25.8  | 20.5  | 13.9  | 8.6   | 5.3    | 4.6   | 4.0    | 4.0   |
| 80°   | 19.3  | 17.2  | 12.6  | 7.3   | 3.3   | 2.0    | 2.0   | 2.0    | 2.0   |
| 82.5° | 11.2  | 9.3   | 6.0   | 3.3   | 1.4   | 0.7    | 0.7   | 0.7    | 0.7   |
| 85°   | 5.3   | 4.0   | 2.6   | 1.4   | 0.7   | 0.7    | 0.7   | 0.7    | 0.7   |
| 87.5° | 0.7   | 0.7   | 0.7   | 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





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Scaled Data Report



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

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