

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: P581656

Luminaire Tested: **HCC6W10D010MW-HM60525930-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581656  
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: HCC6W10D010MW-HM60525930-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

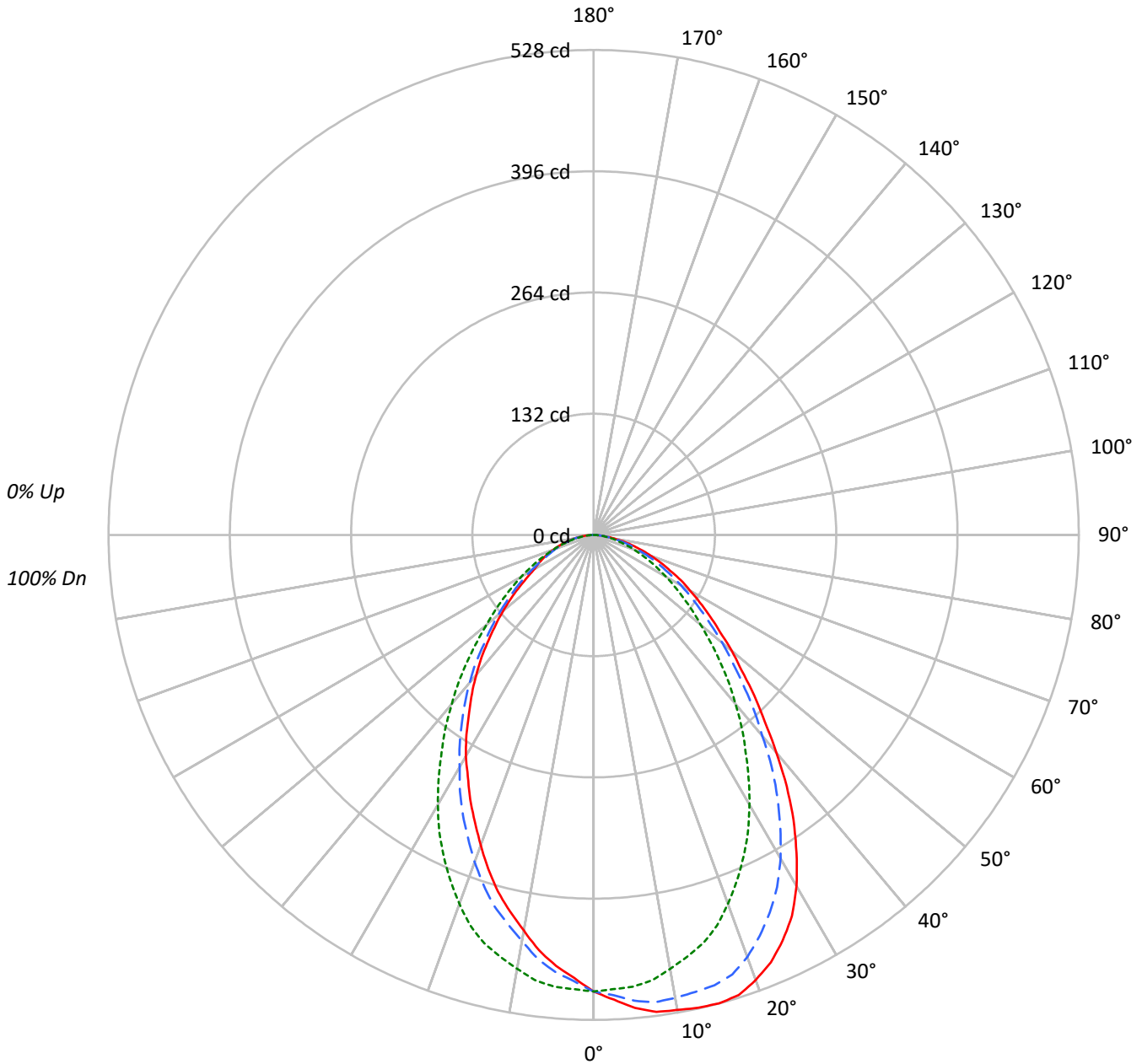
Lumens per Lamp: N/A  
Luminaire Lumens: 925.9 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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   | 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°  | 27251 | 27251 | 27251 |
| 5°  | 28456 | 27168 | 25913 |
| 10° | 29230 | 26697 | 24354 |
| 15° | 29960 | 26124 | 22821 |
| 20° | 30085 | 24934 | 20961 |
| 25° | 29457 | 23348 | 19223 |
| 30° | 27947 | 21465 | 17610 |
| 35° | 25384 | 19294 | 15801 |
| 40° | 22113 | 17189 | 14219 |
| 45° | 19142 | 15040 | 12497 |
| 50° | 16724 | 12955 | 10959 |
| 55° | 14766 | 11383 | 9405  |
| 60° | 13277 | 9977  | 8146  |
| 65° | 11895 | 8678  | 7900  |
| 70° | 10611 | 7405  | 7405  |
| 75° | 9214  | 6227  | 6947  |
| 80° | 7387  | 5304  | 6314  |
| 85° | 5032  | 4655  | 5472  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.7   | 5.0       |
| 10°-20°   | 129.9  | 14.0      |
| 20°-30°   | 181.0  | 19.5      |
| 30°-40°   | 186.5  | 20.1      |
| 40°-50°   | 154.5  | 16.7      |
| 50°-60°   | 111.1  | 12.0      |
| 60°-70°   | 70.7   | 7.6       |
| 70°-80°   | 36.3   | 3.9       |
| 80°-90°   | 9.2    | 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°    | 357.5  | 38.6      |
| 0°-40°    | 544.0  | 58.8      |
| 0°-60°    | 809.6  | 87.4      |
| 0°-90°    | 925.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 925.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 497 | 497 | 497 | 497  | 497  |      |
| 5°  | 517 | 509 | 494 | 478  | 471  | 50   |
| 15° | 528 | 508 | 460 | 418  | 402  | 149  |
| 25° | 487 | 454 | 386 | 336  | 318  | 223  |
| 35° | 379 | 348 | 288 | 250  | 236  | 236  |
| 45° | 247 | 230 | 194 | 169  | 161  | 191  |
| 55° | 154 | 142 | 119 | 106  | 98   | 139  |
| 65° | 92  | 82  | 67  | 58   | 61   | 92   |
| 75° | 44  | 38  | 29  | 31   | 33   | 46   |
| 85° | 8   | 7   | 7   | 8    | 9    | 10   |
| 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°    | 497.1 | 497.1 | 497.1 | 497.1 | 497.1 | 497.1  | 497.1 | 497.1  | 497.1 |
| 2.5°  | 506.5 | 504.4 | 501.7 | 499.1 | 495.0 | 490.4  | 486.3 | 485.1  | 483.0 |
| 5°    | 517.1 | 514.5 | 509.1 | 502.4 | 493.7 | 485.1  | 477.7 | 472.9  | 470.9 |
| 7.5°  | 523.8 | 520.5 | 513.1 | 501.7 | 489.0 | 476.3  | 465.6 | 458.9  | 456.2 |
| 10°   | 525.1 | 521.9 | 511.8 | 496.4 | 479.6 | 462.3  | 448.8 | 440.9  | 437.5 |
| 12.5° | 527.2 | 522.4 | 509.7 | 491.7 | 470.3 | 450.2  | 433.4 | 423.5  | 420.1 |
| 15°   | 527.9 | 522.4 | 507.7 | 485.6 | 460.3 | 436.2  | 418.2 | 406.0  | 402.1 |
| 17.5° | 525.1 | 519.1 | 501.7 | 475.0 | 446.2 | 420.8  | 399.4 | 386.7  | 381.4 |
| 20°   | 515.7 | 509.1 | 489.0 | 458.9 | 427.4 | 400.7  | 378.7 | 365.3  | 359.3 |
| 22.5° | 503.7 | 495.0 | 472.3 | 440.2 | 407.4 | 379.3  | 357.3 | 343.9  | 337.8 |
| 25°   | 487.0 | 478.9 | 453.6 | 419.4 | 386.0 | 356.6  | 336.5 | 322.4  | 317.8 |
| 27.5° | 467.6 | 458.2 | 432.2 | 398.0 | 363.9 | 334.5  | 315.0 | 302.4  | 296.4 |
| 30°   | 441.5 | 432.9 | 406.7 | 372.7 | 339.1 | 311.8  | 291.7 | 281.0  | 278.2 |
| 32.5° | 410.8 | 403.4 | 378.0 | 345.8 | 313.8 | 288.3  | 271.6 | 260.2  | 257.5 |
| 35°   | 379.3 | 370.6 | 348.5 | 318.4 | 288.3 | 265.6  | 250.2 | 240.2  | 236.1 |
| 37.5° | 345.1 | 337.1 | 318.4 | 291.7 | 264.9 | 243.5  | 230.1 | 221.4  | 217.5 |
| 40°   | 309.0 | 303.0 | 285.6 | 264.2 | 240.2 | 221.4  | 210.1 | 202.7  | 198.7 |
| 42.5° | 275.6 | 269.6 | 257.5 | 237.5 | 217.5 | 200.7  | 190.6 | 184.0  | 180.7 |
| 45°   | 246.9 | 241.5 | 229.5 | 212.0 | 194.0 | 180.0  | 169.2 | 164.6  | 161.2 |
| 47.5° | 218.1 | 215.4 | 204.7 | 188.7 | 172.0 | 159.8  | 152.5 | 147.2  | 144.4 |
| 50°   | 196.1 | 192.7 | 182.6 | 166.0 | 151.9 | 142.5  | 135.8 | 131.1  | 128.5 |
| 52.5° | 173.3 | 169.9 | 160.5 | 146.5 | 135.2 | 126.4  | 119.8 | 115.7  | 113.1 |
| 55°   | 154.5 | 151.9 | 141.8 | 129.2 | 119.1 | 111.7  | 105.7 | 101.0  | 98.4  |
| 57.5° | 137.1 | 134.5 | 125.1 | 113.1 | 104.4 | 97.7   | 92.4  | 88.3   | 85.0  |
| 60°   | 121.1 | 119.1 | 109.7 | 98.4  | 91.0  | 84.3   | 79.6  | 76.3   | 74.3  |
| 62.5° | 107.1 | 103.0 | 95.0  | 85.0  | 78.2  | 72.9   | 68.3  | 66.2   | 67.6  |
| 65°   | 91.7  | 89.7  | 81.6  | 72.9  | 66.9  | 61.6   | 58.2  | 59.5   | 60.9  |
| 67.5° | 78.9  | 76.3  | 69.6  | 61.6  | 56.1  | 52.2   | 50.1  | 52.9   | 53.5  |
| 70°   | 66.2  | 63.5  | 57.5  | 50.8  | 46.2  | 43.5   | 43.5  | 45.5   | 46.2  |
| 72.5° | 54.2  | 52.2  | 46.9  | 41.4  | 38.1  | 36.1   | 37.5  | 38.8   | 39.5  |
| 75°   | 43.5  | 41.4  | 37.5  | 32.8  | 29.4  | 29.4   | 30.8  | 32.1   | 32.8  |
| 77.5° | 33.4  | 32.1  | 28.1  | 24.8  | 23.4  | 23.4   | 24.8  | 25.5   | 26.0  |
| 80°   | 23.4  | 22.1  | 20.0  | 18.1  | 16.8  | 18.1   | 19.4  | 19.4   | 20.0  |
| 82.5° | 15.4  | 14.7  | 13.4  | 12.0  | 12.0  | 12.7   | 13.4  | 14.0   | 14.0  |
| 85°   | 8.0   | 8.0   | 7.4   | 6.7   | 7.4   | 8.0    | 8.0   | 8.7    | 8.7   |
| 87.5° | 2.7   | 2.7   | 2.7   | 2.7   | 3.4   | 3.4    | 3.4   | 3.4    | 3.4   |
| 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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