

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: P582063

Luminaire Tested: **HC625D010-HM60525927-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC625D010-HM60525927-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2095.7 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

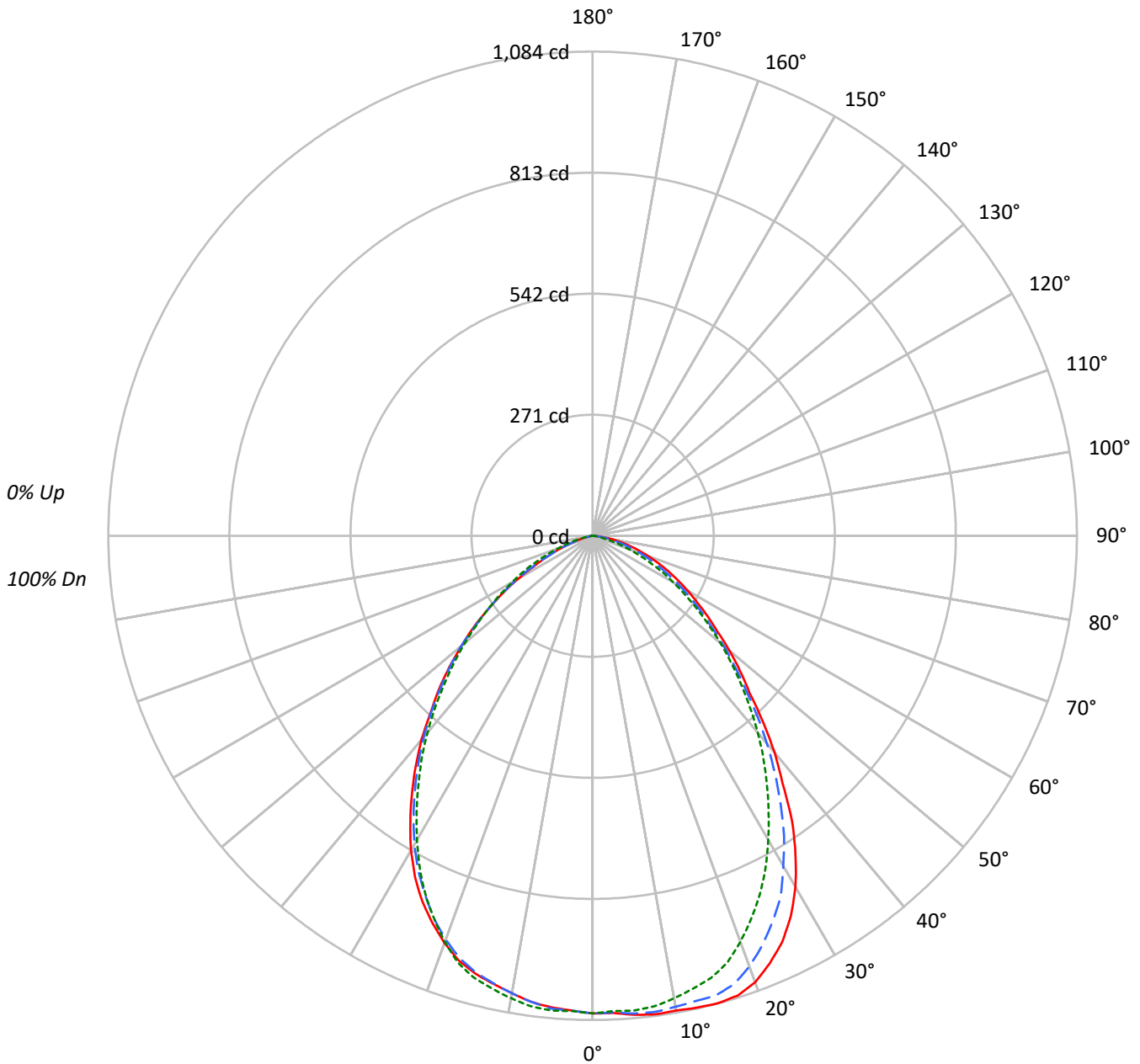
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |  |  |  |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 58625 | 58625 | 58625 |
| 5°  | 59239 | 58700 | 58315 |
| 10° | 60080 | 58522 | 57898 |
| 15° | 61493 | 58156 | 57594 |
| 20° | 62066 | 56425 | 56582 |
| 25° | 60711 | 53586 | 54602 |
| 30° | 57496 | 49780 | 51457 |
| 35° | 52066 | 45501 | 47187 |
| 40° | 45335 | 41134 | 42630 |
| 45° | 38469 | 36407 | 37709 |
| 50° | 34071 | 31803 | 32639 |
| 55° | 30011 | 27201 | 27067 |
| 60° | 26895 | 22904 | 21062 |
| 65° | 24010 | 18368 | 15086 |
| 70° | 21125 | 13255 | 9441  |
| 75° | 17813 | 8006  | 5338  |
| 80° | 13733 | 3536  | 2210  |
| 85° | 7988  | 881   | 881   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.5  | 4.8       |
| 10°-20°   | 291.8  | 13.9      |
| 20°-30°   | 421.8  | 20.1      |
| 30°-40°   | 443.8  | 21.2      |
| 40°-50°   | 373.1  | 17.8      |
| 50°-60°   | 261.9  | 12.5      |
| 60°-70°   | 144.0  | 6.9       |
| 70°-80°   | 51.1   | 2.4       |
| 80°-90°   | 6.7    | 0.3       |
| 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°    | 815.1  | 38.9      |
| 0°-40°    | 1258.9 | 60.1      |
| 0°-60°    | 1893.8 | 90.4      |
| 0°-90°    | 2095.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2095.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1069 | 1069 | 1069 | 1069 | 1069 |      |
| 5°  | 1076 | 1074 | 1067 | 1062 | 1060 | 103  |
| 15° | 1084 | 1065 | 1025 | 1012 | 1015 | 306  |
| 25° | 1004 | 953  | 886  | 887  | 903  | 459  |
| 35° | 778  | 733  | 680  | 694  | 705  | 482  |
| 45° | 496  | 482  | 470  | 481  | 486  | 389  |
| 55° | 314  | 297  | 285  | 285  | 283  | 283  |
| 65° | 185  | 165  | 142  | 116  | 116  | 184  |
| 75° | 84   | 67   | 38   | 25   | 25   | 90   |
| 85° | 13   | 7    | 1    | 1    | 1    | 17   |
| 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°    | 1069.4 | 1069.4 | 1069.4 | 1069.4 | 1069.4 | 1069.4 | 1069.4 | 1069.4 | 1069.4 |
| 2.5°  | 1069.4 | 1069.4 | 1068.1 | 1068.1 | 1065.3 | 1065.3 | 1063.9 | 1063.9 | 1063.9 |
| 5°    | 1076.5 | 1076.5 | 1073.7 | 1069.4 | 1066.7 | 1062.5 | 1062.5 | 1061.0 | 1059.7 |
| 7.5°  | 1080.7 | 1079.3 | 1075.1 | 1069.4 | 1062.5 | 1055.5 | 1052.6 | 1054.0 | 1052.6 |
| 10°   | 1079.3 | 1076.5 | 1070.9 | 1059.7 | 1051.3 | 1041.5 | 1040.1 | 1038.6 | 1040.1 |
| 12.5° | 1082.1 | 1078.0 | 1066.7 | 1052.6 | 1038.6 | 1027.5 | 1026.1 | 1026.1 | 1027.5 |
| 15°   | 1083.5 | 1079.3 | 1065.3 | 1044.3 | 1024.7 | 1013.4 | 1012.0 | 1013.4 | 1014.8 |
| 17.5° | 1079.3 | 1073.7 | 1052.6 | 1024.7 | 1002.3 | 991.0  | 991.0  | 993.8  | 996.6  |
| 20°   | 1063.9 | 1055.5 | 1026.1 | 992.4  | 967.2  | 958.8  | 961.6  | 967.2  | 969.9  |
| 22.5° | 1035.9 | 1026.1 | 992.4  | 954.5  | 928.0  | 921.0  | 928.0  | 935.0  | 937.7  |
| 25°   | 1003.7 | 992.4  | 953.2  | 913.9  | 885.9  | 877.5  | 887.2  | 898.5  | 902.7  |
| 27.5° | 960.2  | 947.5  | 911.1  | 866.2  | 838.3  | 834.0  | 845.3  | 857.8  | 860.7  |
| 30°   | 908.3  | 894.3  | 853.7  | 811.6  | 786.4  | 785.0  | 797.5  | 808.8  | 812.9  |
| 32.5° | 845.3  | 832.6  | 797.5  | 755.6  | 733.1  | 733.1  | 745.7  | 755.6  | 759.7  |
| 35°   | 778.0  | 764.0  | 733.1  | 698.0  | 679.9  | 681.3  | 693.8  | 700.8  | 705.1  |
| 37.5° | 698.0  | 693.8  | 670.0  | 640.5  | 628.0  | 630.8  | 640.5  | 646.2  | 650.4  |
| 40°   | 633.5  | 622.4  | 607.0  | 583.1  | 574.8  | 577.5  | 587.3  | 592.9  | 595.7  |
| 42.5° | 563.5  | 556.5  | 543.8  | 527.0  | 521.4  | 525.6  | 534.0  | 538.3  | 536.9  |
| 45°   | 496.2  | 494.8  | 482.2  | 472.4  | 469.6  | 475.1  | 480.8  | 485.0  | 486.4  |
| 47.5° | 447.2  | 441.6  | 430.3  | 423.3  | 420.5  | 426.1  | 431.8  | 434.5  | 434.5  |
| 50°   | 399.5  | 393.8  | 382.7  | 375.6  | 372.9  | 378.4  | 382.7  | 385.4  | 382.7  |
| 52.5° | 351.8  | 346.2  | 336.4  | 328.0  | 326.7  | 329.4  | 330.8  | 332.2  | 335.1  |
| 55°   | 314.0  | 308.4  | 297.2  | 287.3  | 284.6  | 285.9  | 284.6  | 284.6  | 283.2  |
| 57.5° | 277.5  | 271.9  | 260.7  | 249.5  | 245.3  | 243.8  | 239.7  | 238.3  | 236.9  |
| 60°   | 245.3  | 238.3  | 227.0  | 214.5  | 208.9  | 203.2  | 196.2  | 192.1  | 192.1  |
| 62.5° | 214.5  | 207.5  | 194.8  | 183.6  | 175.2  | 165.4  | 154.2  | 148.6  | 148.6  |
| 65°   | 185.1  | 179.4  | 165.4  | 152.7  | 141.6  | 128.9  | 116.3  | 113.5  | 116.3  |
| 67.5° | 157.0  | 151.4  | 137.3  | 124.8  | 110.8  | 95.4   | 84.1   | 84.1   | 87.0   |
| 70°   | 131.8  | 126.2  | 113.5  | 98.1   | 82.7   | 67.3   | 58.9   | 58.9   | 58.9   |
| 72.5° | 107.9  | 102.4  | 88.3   | 74.3   | 58.9   | 43.5   | 39.2   | 40.6   | 39.2   |
| 75°   | 84.1   | 79.9   | 67.3   | 51.9   | 37.8   | 26.7   | 25.2   | 23.8   | 25.2   |
| 77.5° | 63.0   | 58.9   | 47.6   | 33.6   | 21.1   | 15.4   | 14.0   | 14.0   | 14.0   |
| 80°   | 43.5   | 39.2   | 30.8   | 19.7   | 11.2   | 7.0    | 7.0    | 7.0    | 7.0    |
| 82.5° | 26.7   | 22.4   | 16.8   | 9.8    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 85°   | 12.7   | 9.8    | 7.0    | 2.8    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 87.5° | 2.8    | 2.8    | 1.4    | 1.4    | 0.0    | 1.4    | 1.4    | 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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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)