

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: P582088

Luminaire Tested: **HC625D010-HM60525930-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582088  
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: HC625D010-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  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2117.9 lumens  
Efficiency: N/A  
Efficacy: 79.0 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

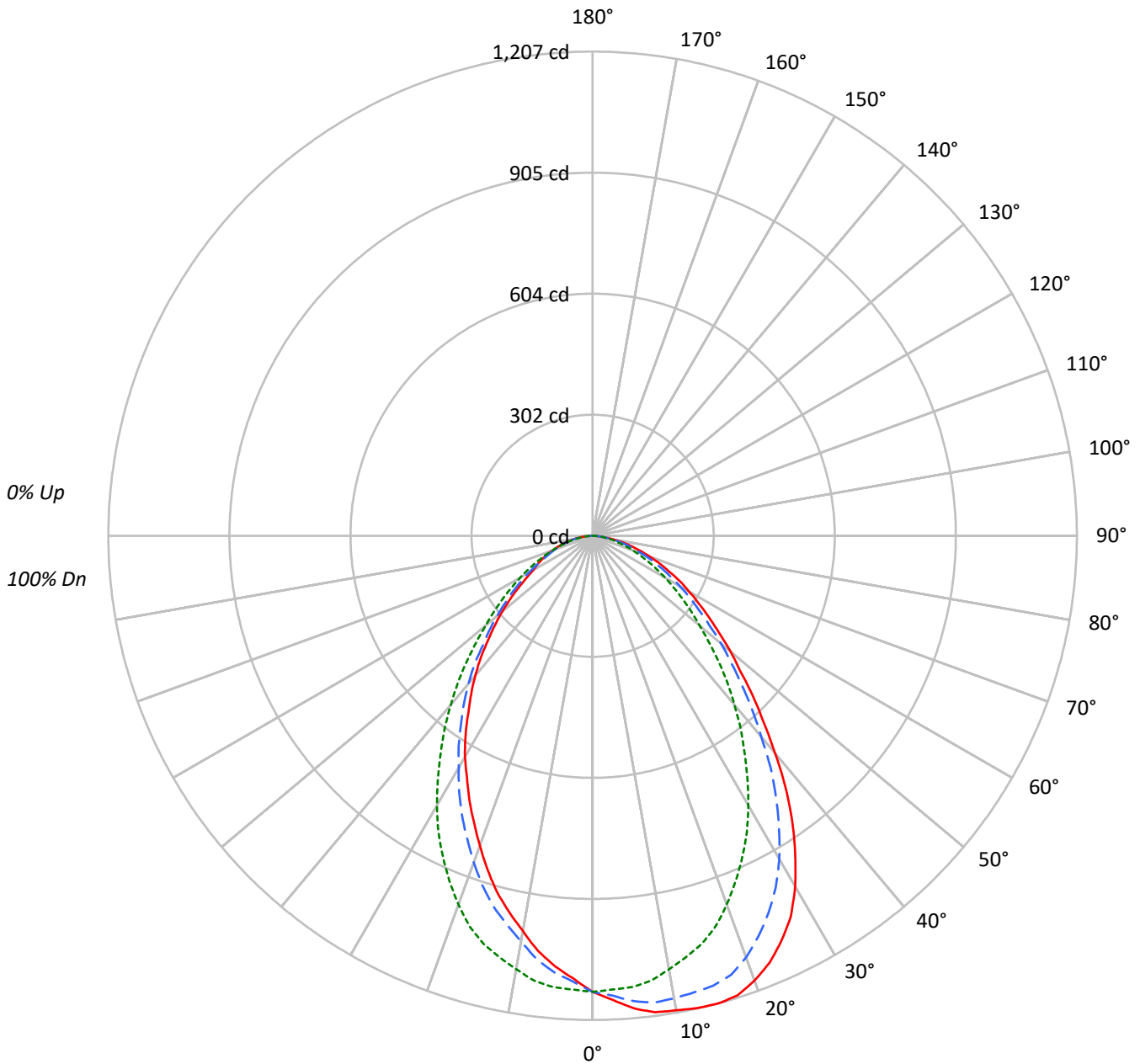
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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°  | 62331 | 62331 | 62331 |
| 5°  | 65089 | 62145 | 59283 |
| 10° | 66871 | 61071 | 55710 |
| 15° | 68525 | 59751 | 52197 |
| 20° | 68828 | 57043 | 47937 |
| 25° | 67383 | 53410 | 43968 |
| 30° | 63928 | 49115 | 40291 |
| 35° | 58062 | 44142 | 36152 |
| 40° | 50588 | 39309 | 32525 |
| 45° | 43772 | 34407 | 28592 |
| 50° | 38233 | 29619 | 25057 |
| 55° | 33786 | 26035 | 21495 |
| 60° | 30359 | 22816 | 18628 |
| 65° | 27188 | 19846 | 18056 |
| 70° | 24283 | 16926 | 16926 |
| 75° | 21075 | 14255 | 15864 |
| 80° | 16890 | 12060 | 14490 |
| 85° | 11573 | 10567 | 12517 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.9  | 5.0       |
| 10°-20°   | 297.0  | 14.0      |
| 20°-30°   | 414.0  | 19.5      |
| 30°-40°   | 426.5  | 20.1      |
| 40°-50°   | 353.5  | 16.7      |
| 50°-60°   | 254.0  | 12.0      |
| 60°-70°   | 161.8  | 7.6       |
| 70°-80°   | 83.1   | 3.9       |
| 80°-90°   | 21.1   | 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°    | 817.8  | 38.6      |
| 0°-40°    | 1244.4 | 58.8      |
| 0°-60°    | 1851.9 | 87.4      |
| 0°-90°    | 2117.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2117.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1137 | 1137 | 1137 | 1137 | 1137 |      |
| 5°  | 1183 | 1164 | 1129 | 1093 | 1077 | 113  |
| 15° | 1207 | 1161 | 1053 | 956  | 920  | 340  |
| 25° | 1114 | 1038 | 883  | 770  | 727  | 510  |
| 35° | 868  | 797  | 660  | 572  | 540  | 539  |
| 45° | 565  | 525  | 444  | 387  | 369  | 437  |
| 55° | 354  | 324  | 272  | 242  | 225  | 318  |
| 65° | 210  | 187  | 153  | 133  | 139  | 210  |
| 75° | 100  | 86   | 67   | 70   | 75   | 106  |
| 85° | 18   | 17   | 17   | 18   | 20   | 24   |
| 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°    | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 | 1137.0 |
| 2.5°  | 1158.4 | 1153.8 | 1147.6 | 1141.6 | 1132.3 | 1121.7 | 1112.4 | 1109.4 | 1104.8 |
| 5°    | 1182.8 | 1176.7 | 1164.5 | 1149.3 | 1129.3 | 1109.4 | 1092.6 | 1081.8 | 1077.3 |
| 7.5°  | 1198.1 | 1190.5 | 1173.7 | 1147.6 | 1118.6 | 1089.5 | 1065.0 | 1049.8 | 1043.6 |
| 10°   | 1201.3 | 1193.6 | 1170.7 | 1135.5 | 1097.1 | 1057.4 | 1026.8 | 1008.4 | 1000.8 |
| 12.5° | 1205.8 | 1195.1 | 1166.0 | 1124.7 | 1075.7 | 1029.8 | 991.6  | 968.7  | 960.9  |
| 15°   | 1207.4 | 1195.1 | 1161.4 | 1110.9 | 1052.8 | 997.8  | 956.4  | 928.8  | 919.7  |
| 17.5° | 1201.3 | 1187.5 | 1147.6 | 1086.5 | 1020.7 | 962.6  | 913.6  | 884.5  | 872.2  |
| 20°   | 1179.8 | 1164.5 | 1118.6 | 1049.8 | 977.8  | 916.6  | 866.1  | 835.5  | 821.7  |
| 22.5° | 1152.3 | 1132.3 | 1080.3 | 1006.9 | 931.9  | 867.6  | 817.1  | 786.5  | 772.7  |
| 25°   | 1114.0 | 1095.6 | 1037.5 | 959.4  | 883.0  | 815.6  | 769.7  | 737.5  | 726.9  |
| 27.5° | 1069.7 | 1048.3 | 988.5  | 910.4  | 832.5  | 765.1  | 720.7  | 691.7  | 677.9  |
| 30°   | 1009.9 | 990.0  | 930.4  | 852.3  | 775.9  | 713.1  | 667.2  | 642.7  | 636.5  |
| 32.5° | 939.5  | 922.7  | 864.6  | 791.1  | 717.7  | 659.6  | 621.2  | 595.3  | 589.2  |
| 35°   | 867.6  | 847.8  | 797.3  | 728.4  | 659.6  | 607.5  | 572.2  | 549.3  | 540.2  |
| 37.5° | 789.6  | 771.2  | 728.4  | 667.2  | 606.0  | 557.0  | 526.4  | 506.5  | 497.3  |
| 40°   | 706.9  | 693.2  | 653.4  | 604.4  | 549.3  | 506.5  | 480.5  | 463.6  | 454.5  |
| 42.5° | 630.5  | 616.7  | 589.2  | 543.2  | 497.3  | 459.1  | 436.2  | 420.8  | 413.1  |
| 45°   | 564.6  | 552.4  | 524.9  | 485.0  | 443.8  | 411.6  | 387.2  | 376.4  | 368.8  |
| 47.5° | 498.8  | 492.7  | 468.2  | 431.5  | 393.3  | 365.8  | 348.8  | 336.7  | 330.5  |
| 50°   | 448.3  | 440.7  | 417.8  | 379.5  | 347.3  | 325.9  | 310.6  | 300.0  | 293.8  |
| 52.5° | 396.3  | 388.7  | 367.3  | 335.2  | 309.1  | 289.2  | 273.9  | 264.8  | 258.6  |
| 55°   | 353.5  | 347.3  | 324.4  | 295.3  | 272.4  | 255.5  | 241.8  | 231.1  | 224.9  |
| 57.5° | 313.8  | 307.6  | 286.2  | 258.6  | 238.7  | 223.4  | 211.1  | 202.0  | 194.3  |
| 60°   | 276.9  | 272.4  | 251.0  | 224.9  | 208.1  | 192.8  | 182.1  | 174.4  | 169.9  |
| 62.5° | 244.8  | 235.7  | 217.3  | 194.3  | 179.1  | 166.8  | 156.1  | 151.5  | 154.5  |
| 65°   | 209.6  | 205.0  | 186.7  | 166.8  | 153.0  | 140.8  | 133.1  | 136.2  | 139.2  |
| 67.5° | 180.6  | 174.4  | 159.1  | 140.8  | 128.6  | 119.4  | 114.8  | 120.9  | 122.4  |
| 70°   | 151.5  | 145.3  | 131.6  | 116.3  | 105.6  | 99.5   | 99.5   | 104.0  | 105.6  |
| 72.5° | 123.9  | 119.4  | 107.1  | 94.9   | 87.2   | 82.6   | 85.7   | 88.7   | 90.3   |
| 75°   | 99.5   | 94.9   | 85.7   | 74.9   | 67.3   | 67.3   | 70.4   | 73.4   | 74.9   |
| 77.5° | 76.6   | 73.4   | 64.3   | 56.6   | 53.5   | 53.5   | 56.6   | 58.1   | 59.6   |
| 80°   | 53.5   | 50.5   | 45.9   | 41.3   | 38.2   | 41.3   | 44.4   | 44.4   | 45.9   |
| 82.5° | 35.2   | 33.7   | 30.6   | 27.6   | 27.6   | 29.1   | 30.6   | 32.1   | 32.1   |
| 85°   | 18.4   | 18.4   | 16.8   | 15.3   | 16.8   | 18.4   | 18.4   | 19.9   | 19.9   |
| 87.5° | 6.1    | 6.1    | 6.1    | 6.1    | 7.6    | 7.6    | 7.6    | 7.6    | 7.6    |
| 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)