

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: P582099

Luminaire Tested: **HCC6S25D010MW-HM60525935-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582099  
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: HCC6S25D010MW-HM60525935-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

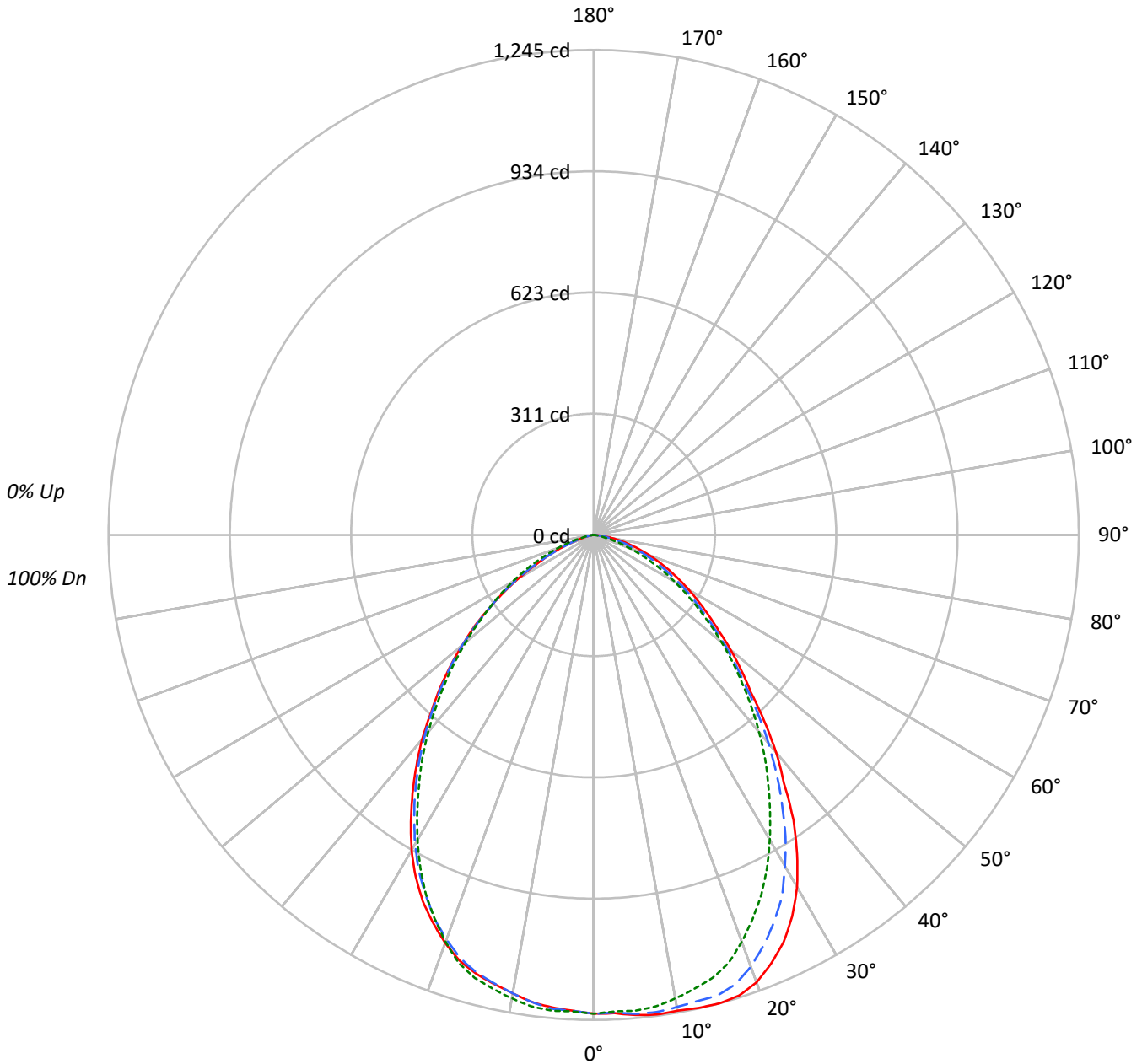
Lumens per Lamp: N/A  
Luminaire Lumens: 2408.4 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (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   | 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°  | 67379 | 67379 | 67379 |
| 5°  | 68083 | 67461 | 67015 |
| 10° | 69042 | 67250 | 66532 |
| 15° | 70670 | 66834 | 66192 |
| 20° | 71330 | 64843 | 65036 |
| 25° | 69766 | 61582 | 62750 |
| 30° | 66080 | 57205 | 59148 |
| 35° | 59829 | 52280 | 54228 |
| 40° | 52105 | 47267 | 48992 |
| 45° | 44206 | 41842 | 43338 |
| 50° | 39154 | 36545 | 37508 |
| 55° | 34493 | 31253 | 31100 |
| 60° | 30908 | 26325 | 24198 |
| 65° | 27578 | 21092 | 17343 |
| 70° | 24267 | 15243 | 10851 |
| 75° | 20461 | 9214  | 6121  |
| 80° | 15785 | 4072  | 2526  |
| 85° | 9120  | 1006  | 1006  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.7  | 4.8       |
| 10°-20°   | 335.3  | 13.9      |
| 20°-30°   | 484.7  | 20.1      |
| 30°-40°   | 510.0  | 21.2      |
| 40°-50°   | 428.8  | 17.8      |
| 50°-60°   | 300.9  | 12.5      |
| 60°-70°   | 165.5  | 6.9       |
| 70°-80°   | 58.8   | 2.4       |
| 80°-90°   | 7.7    | 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°    | 936.7  | 38.9      |
| 0°-40°    | 1446.7 | 60.1      |
| 0°-60°    | 2176.4 | 90.4      |
| 0°-90°    | 2408.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2408.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1229 | 1229 | 1229 | 1229 | 1229 |      |
| 5°  | 1237 | 1234 | 1226 | 1221 | 1218 | 118  |
| 15° | 1245 | 1224 | 1178 | 1163 | 1166 | 351  |
| 25° | 1153 | 1095 | 1018 | 1020 | 1037 | 528  |
| 35° | 894  | 842  | 781  | 797  | 810  | 554  |
| 45° | 570  | 554  | 540  | 553  | 559  | 447  |
| 55° | 361  | 342  | 327  | 327  | 325  | 325  |
| 65° | 213  | 190  | 163  | 134  | 134  | 212  |
| 75° | 97   | 77   | 44   | 29   | 29   | 104  |
| 85° | 14   | 8    | 2    | 2    | 2    | 20   |
| 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°    | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 |
| 2.5°  | 1229.1 | 1229.1 | 1227.4 | 1227.4 | 1224.3 | 1224.3 | 1222.7 | 1222.7 | 1222.7 |
| 5°    | 1237.2 | 1237.2 | 1234.0 | 1229.1 | 1225.9 | 1221.0 | 1221.0 | 1219.4 | 1217.8 |
| 7.5°  | 1242.0 | 1240.3 | 1235.6 | 1229.1 | 1221.0 | 1213.0 | 1209.8 | 1211.4 | 1209.8 |
| 10°   | 1240.3 | 1237.2 | 1230.7 | 1217.8 | 1208.1 | 1196.9 | 1195.2 | 1193.7 | 1195.2 |
| 12.5° | 1243.6 | 1238.7 | 1225.9 | 1209.8 | 1193.7 | 1180.8 | 1179.2 | 1179.2 | 1180.8 |
| 15°   | 1245.2 | 1240.3 | 1224.3 | 1200.1 | 1177.6 | 1164.7 | 1163.0 | 1164.7 | 1166.3 |
| 17.5° | 1240.3 | 1234.0 | 1209.8 | 1177.6 | 1151.8 | 1138.9 | 1138.9 | 1142.1 | 1145.4 |
| 20°   | 1222.7 | 1213.0 | 1179.2 | 1140.5 | 1111.5 | 1101.9 | 1105.0 | 1111.5 | 1114.8 |
| 22.5° | 1190.5 | 1179.2 | 1140.5 | 1097.0 | 1066.4 | 1058.4 | 1066.4 | 1074.4 | 1077.7 |
| 25°   | 1153.4 | 1140.5 | 1095.4 | 1050.3 | 1018.1 | 1008.4 | 1019.7 | 1032.6 | 1037.4 |
| 27.5° | 1103.5 | 1089.0 | 1047.1 | 995.5  | 963.3  | 958.4  | 971.3  | 985.9  | 989.1  |
| 30°   | 1043.9 | 1027.7 | 981.0  | 932.7  | 903.7  | 902.2  | 916.6  | 929.5  | 934.4  |
| 32.5° | 971.3  | 956.9  | 916.6  | 868.3  | 842.5  | 842.5  | 857.1  | 868.3  | 873.1  |
| 35°   | 894.0  | 878.0  | 842.5  | 802.2  | 781.2  | 782.9  | 797.4  | 805.4  | 810.3  |
| 37.5° | 802.2  | 797.4  | 770.0  | 736.1  | 721.7  | 724.9  | 736.1  | 742.7  | 747.4  |
| 40°   | 728.1  | 715.2  | 697.5  | 670.1  | 660.5  | 663.7  | 675.0  | 681.4  | 684.6  |
| 42.5° | 647.6  | 639.5  | 625.0  | 605.7  | 599.3  | 604.1  | 613.7  | 618.6  | 617.0  |
| 45°   | 570.2  | 568.6  | 554.2  | 542.9  | 539.7  | 546.1  | 552.6  | 557.3  | 559.0  |
| 47.5° | 513.9  | 507.5  | 494.6  | 486.5  | 483.3  | 489.7  | 496.2  | 499.3  | 499.3  |
| 50°   | 459.1  | 452.7  | 439.8  | 431.7  | 428.5  | 434.9  | 439.8  | 442.9  | 439.8  |
| 52.5° | 404.3  | 398.0  | 386.7  | 376.9  | 375.4  | 378.5  | 380.2  | 381.8  | 385.0  |
| 55°   | 360.9  | 354.3  | 341.6  | 330.3  | 327.0  | 328.7  | 327.0  | 327.0  | 325.4  |
| 57.5° | 319.0  | 312.5  | 299.6  | 286.7  | 281.9  | 280.3  | 275.4  | 273.9  | 272.3  |
| 60°   | 281.9  | 273.9  | 261.0  | 246.5  | 240.1  | 233.6  | 225.5  | 220.7  | 220.7  |
| 62.5° | 246.5  | 238.4  | 223.9  | 211.0  | 201.4  | 190.1  | 177.2  | 170.8  | 170.8  |
| 65°   | 212.6  | 206.2  | 190.1  | 175.5  | 162.6  | 148.2  | 133.7  | 130.4  | 133.7  |
| 67.5° | 180.4  | 173.9  | 157.9  | 143.3  | 127.3  | 109.5  | 96.6   | 96.6   | 99.9   |
| 70°   | 151.4  | 145.0  | 130.4  | 112.8  | 95.1   | 77.3   | 67.7   | 67.7   | 67.7   |
| 72.5° | 124.0  | 117.7  | 101.5  | 85.3   | 67.7   | 50.0   | 45.1   | 46.7   | 45.1   |
| 75°   | 96.6   | 91.8   | 77.3   | 59.6   | 43.5   | 30.6   | 28.9   | 27.4   | 28.9   |
| 77.5° | 72.5   | 67.7   | 54.8   | 38.7   | 24.2   | 17.7   | 16.2   | 16.2   | 16.2   |
| 80°   | 50.0   | 45.1   | 35.5   | 22.6   | 12.9   | 8.0    | 8.0    | 8.0    | 8.0    |
| 82.5° | 30.6   | 25.8   | 19.3   | 11.3   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    |
| 85°   | 14.5   | 11.3   | 8.0    | 3.3    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 87.5° | 3.3    | 3.3    | 1.6    | 1.6    | 0.0    | 1.6    | 1.6    | 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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