

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: P582033

Luminaire Tested: **HCC6W25D010SL-HM60525835-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W25D010SL-HM60525835-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

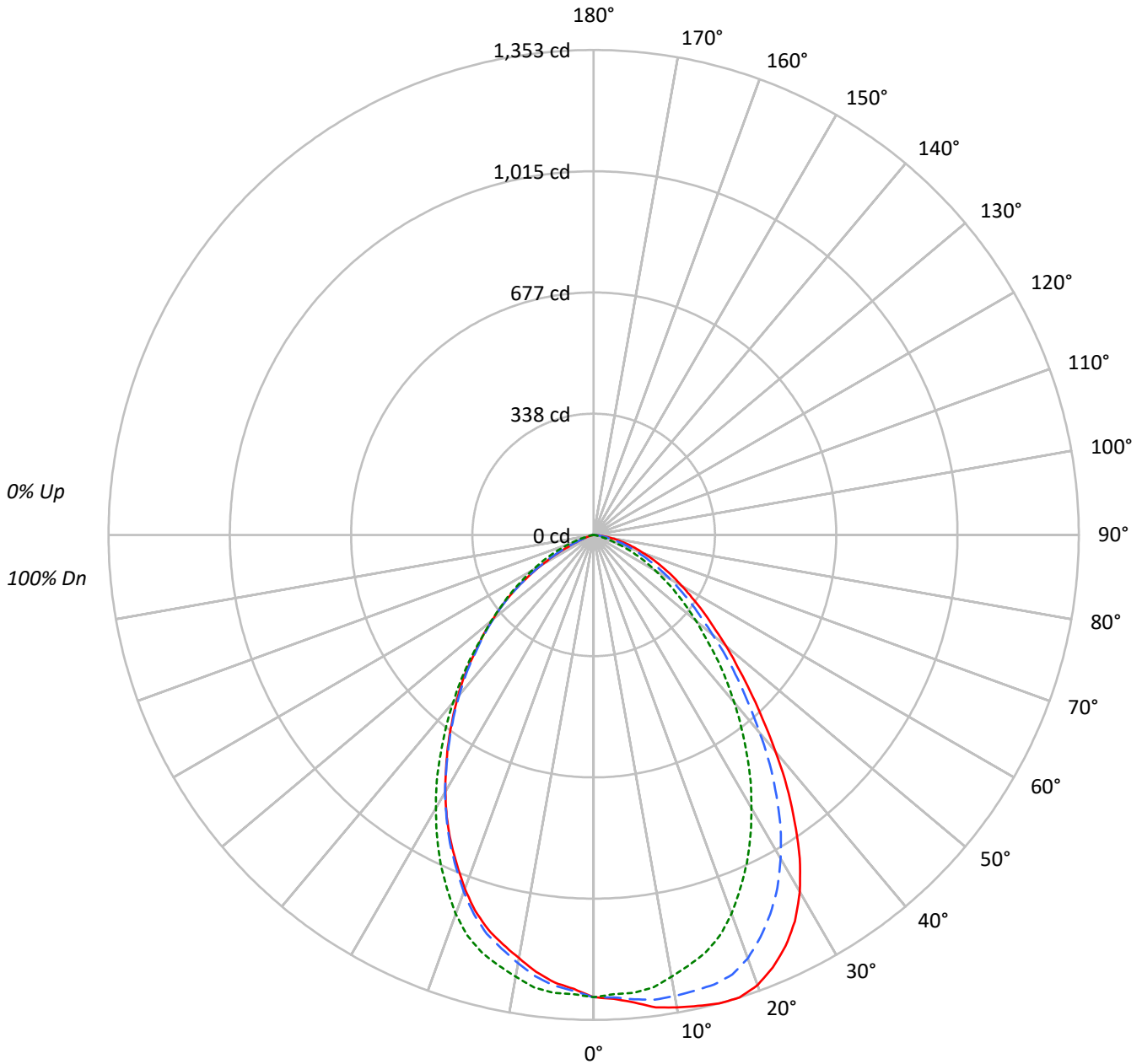
Lumens per Lamp: N/A  
Luminaire Lumens: 2298.1 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (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 |  |  |  |  |  |  |  |  |   |
| 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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 96  | 87  | 80  | 75  | 93  | 86  | 79  | 74  | 83  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 68  | 64  | 71  | 66  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 44  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 70696 | 70696 | 70696 |
| 5°  | 72061 | 70564 | 68974 |
| 10° | 74514 | 69666 | 66738 |
| 15° | 76794 | 68451 | 64648 |
| 20° | 77981 | 65607 | 61261 |
| 25° | 76577 | 61110 | 57046 |
| 30° | 72790 | 55686 | 52356 |
| 35° | 65424 | 49771 | 47221 |
| 40° | 56463 | 43617 | 42186 |
| 45° | 47811 | 37547 | 36562 |
| 50° | 40997 | 31709 | 31410 |
| 55° | 35535 | 26694 | 25653 |
| 60° | 31017 | 21676 | 18299 |
| 65° | 27292 | 16707 | 10105 |
| 70° | 23562 | 11044 | 4937  |
| 75° | 19995 | 5380  | 1906  |
| 80° | 15469 | 2305  | 1137  |
| 85° | 9120  | 1132  | 1132  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.7  | 5.3       |
| 10°-20°   | 344.1  | 15.0      |
| 20°-30°   | 484.6  | 21.1      |
| 30°-40°   | 495.2  | 21.5      |
| 40°-50°   | 399.2  | 17.4      |
| 50°-60°   | 267.8  | 11.7      |
| 60°-70°   | 135.5  | 5.9       |
| 70°-80°   | 43.3   | 1.9       |
| 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°    | 950.5  | 41.4      |
| 0°-40°    | 1445.6 | 62.9      |
| 0°-60°    | 2112.6 | 91.9      |
| 0°-90°    | 2298.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2298.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1290 | 1290 | 1290 | 1290 | 1290 |      |
| 5°  | 1310 | 1300 | 1282 | 1262 | 1253 | 126  |
| 15° | 1353 | 1299 | 1206 | 1152 | 1139 | 382  |
| 25° | 1266 | 1166 | 1010 | 949  | 943  | 580  |
| 35° | 978  | 889  | 744  | 702  | 706  | 608  |
| 45° | 617  | 568  | 484  | 468  | 472  | 480  |
| 55° | 372  | 330  | 279  | 267  | 268  | 335  |
| 65° | 210  | 174  | 129  | 85   | 78   | 210  |
| 75° | 94   | 67   | 25   | 9    | 9    | 101  |
| 85° | 14   | 7    | 2    | 2    | 2    | 19   |
| 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°    | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 | 1289.6 |
| 2.5°  | 1295.1 | 1293.2 | 1291.5 | 1287.8 | 1282.3 | 1276.9 | 1273.3 | 1269.7 | 1267.8 |
| 5°    | 1309.5 | 1305.9 | 1300.5 | 1293.2 | 1282.3 | 1269.7 | 1262.4 | 1255.1 | 1253.4 |
| 7.5°  | 1329.6 | 1322.3 | 1307.8 | 1291.5 | 1273.3 | 1255.1 | 1242.5 | 1235.2 | 1229.7 |
| 10°   | 1338.6 | 1325.9 | 1305.9 | 1278.7 | 1251.5 | 1229.7 | 1213.4 | 1202.5 | 1198.9 |
| 12.5° | 1345.8 | 1331.3 | 1302.2 | 1266.0 | 1229.7 | 1200.7 | 1182.6 | 1173.6 | 1169.9 |
| 15°   | 1353.1 | 1338.6 | 1298.6 | 1251.5 | 1206.1 | 1171.7 | 1151.8 | 1142.7 | 1139.1 |
| 17.5° | 1353.1 | 1333.1 | 1286.0 | 1226.1 | 1171.7 | 1130.0 | 1110.0 | 1101.0 | 1099.1 |
| 20°   | 1336.7 | 1315.0 | 1257.0 | 1186.2 | 1124.6 | 1077.3 | 1059.3 | 1053.8 | 1050.1 |
| 22.5° | 1305.9 | 1280.6 | 1215.3 | 1135.5 | 1068.3 | 1022.9 | 1003.0 | 999.4  | 995.8  |
| 25°   | 1266.0 | 1240.6 | 1166.3 | 1081.0 | 1010.3 | 964.9  | 948.6  | 945.0  | 943.1  |
| 27.5° | 1215.3 | 1188.0 | 1110.0 | 1022.9 | 946.8  | 903.3  | 888.8  | 888.8  | 887.0  |
| 30°   | 1149.9 | 1119.1 | 1042.9 | 955.9  | 879.7  | 839.8  | 828.9  | 828.9  | 827.1  |
| 32.5° | 1070.2 | 1039.2 | 970.3  | 887.0  | 814.3  | 772.7  | 763.6  | 767.2  | 765.5  |
| 35°   | 977.6  | 952.3  | 888.8  | 807.2  | 743.7  | 705.6  | 701.9  | 705.6  | 705.6  |
| 37.5° | 885.1  | 861.6  | 807.2  | 736.4  | 676.5  | 642.0  | 642.0  | 647.6  | 645.7  |
| 40°   | 789.0  | 770.8  | 720.1  | 658.5  | 609.5  | 585.9  | 582.3  | 587.7  | 589.5  |
| 42.5° | 698.3  | 683.8  | 640.3  | 589.5  | 545.9  | 522.4  | 527.8  | 531.4  | 533.3  |
| 45°   | 616.7  | 602.2  | 567.7  | 515.1  | 484.3  | 468.0  | 468.0  | 473.4  | 471.6  |
| 47.5° | 544.2  | 533.3  | 498.8  | 447.9  | 420.8  | 413.5  | 417.1  | 420.8  | 420.8  |
| 50°   | 480.7  | 464.4  | 431.7  | 391.8  | 371.8  | 362.7  | 366.4  | 368.3  | 368.3  |
| 52.5° | 420.8  | 409.9  | 377.3  | 340.9  | 322.9  | 317.4  | 317.4  | 319.3  | 319.3  |
| 55°   | 371.8  | 359.1  | 330.2  | 293.8  | 279.3  | 272.0  | 266.6  | 264.8  | 268.4  |
| 57.5° | 324.7  | 313.8  | 286.6  | 252.1  | 235.8  | 228.5  | 217.6  | 214.0  | 217.6  |
| 60°   | 282.9  | 273.9  | 246.7  | 214.0  | 197.7  | 183.2  | 170.5  | 163.3  | 166.9  |
| 62.5° | 246.7  | 235.8  | 208.6  | 181.4  | 163.3  | 147.0  | 126.9  | 116.0  | 121.5  |
| 65°   | 210.4  | 201.4  | 174.2  | 147.0  | 128.8  | 108.9  | 85.2   | 77.9   | 77.9   |
| 67.5° | 177.8  | 168.7  | 143.3  | 119.7  | 98.0   | 74.3   | 52.6   | 50.7   | 52.6   |
| 70°   | 147.0  | 137.8  | 116.0  | 92.5   | 68.9   | 45.4   | 30.8   | 30.8   | 30.8   |
| 72.5° | 121.5  | 110.6  | 90.7   | 67.2   | 43.5   | 23.6   | 16.3   | 18.2   | 18.2   |
| 75°   | 94.4   | 85.2   | 67.2   | 45.4   | 25.4   | 10.9   | 9.0    | 9.0    | 9.0    |
| 77.5° | 70.8   | 63.5   | 47.1   | 29.1   | 12.7   | 3.6    | 3.6    | 3.6    | 3.6    |
| 80°   | 49.0   | 41.7   | 30.8   | 18.2   | 7.3    | 3.6    | 3.6    | 3.6    | 3.6    |
| 82.5° | 29.1   | 25.4   | 18.2   | 9.0    | 3.6    | 1.8    | 1.8    | 1.8    | 1.8    |
| 85°   | 14.5   | 12.7   | 7.3    | 3.6    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 87.5° | 3.6    | 3.6    | 1.8    | 1.8    | 0.0    | 1.8    | 1.8    | 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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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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