

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: P582016

Luminaire Tested: **HCC6W25D010SL-HM60525830-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582016  
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: HCC6W25D010SL-HM60525830-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

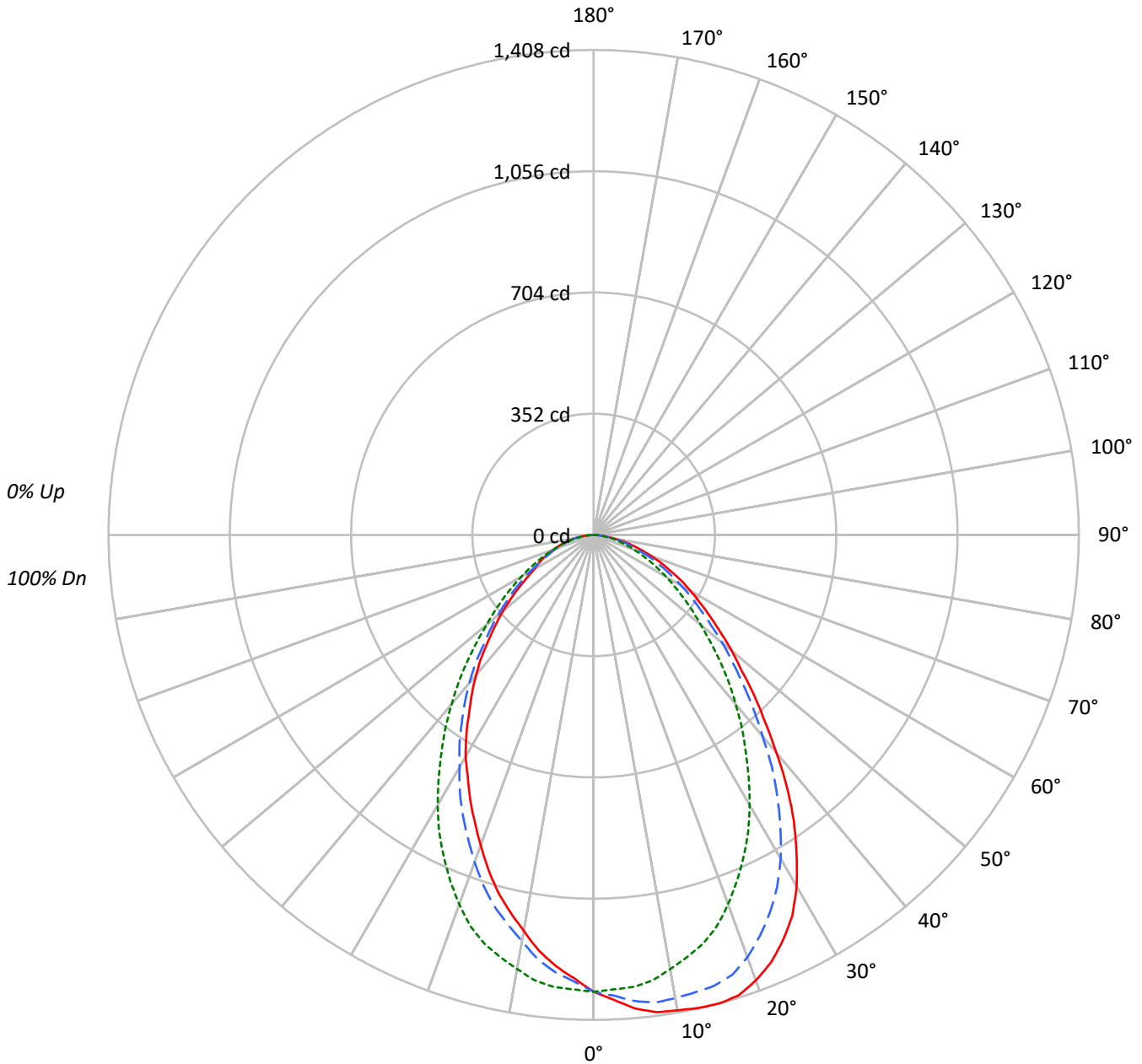
Lumens per Lamp: N/A  
Luminaire Lumens: 2470.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |    | 87  |   |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |    | 66  |   |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    |    | 42  |   |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 72708 | 72708 | 72708 |
| 5°  | 75935 | 72496 | 69161 |
| 10° | 78010 | 71247 | 64984 |
| 15° | 79932 | 69705 | 60886 |
| 20° | 80291 | 66547 | 55917 |
| 25° | 78603 | 62302 | 51287 |
| 30° | 74581 | 57287 | 47014 |
| 35° | 67740 | 51484 | 42168 |
| 40° | 59018 | 45857 | 37935 |
| 45° | 51067 | 40128 | 33352 |
| 50° | 44604 | 34557 | 29227 |
| 55° | 39416 | 30374 | 25079 |
| 60° | 35425 | 26621 | 21720 |
| 65° | 31728 | 23167 | 21066 |
| 70° | 28322 | 19747 | 19747 |
| 75° | 24570 | 16648 | 18533 |
| 80° | 19731 | 14080 | 16890 |
| 85° | 13460 | 12391 | 14593 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.7  | 5.0       |
| 10°-20°   | 346.5  | 14.0      |
| 20°-30°   | 482.9  | 19.5      |
| 30°-40°   | 497.6  | 20.1      |
| 40°-50°   | 412.4  | 16.7      |
| 50°-60°   | 296.4  | 12.0      |
| 60°-70°   | 188.7  | 7.6       |
| 70°-80°   | 96.9   | 3.9       |
| 80°-90°   | 24.6   | 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°    | 954.1  | 38.6      |
| 0°-40°    | 1451.6 | 58.8      |
| 0°-60°    | 2160.3 | 87.4      |
| 0°-90°    | 2470.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2470.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1326 | 1326 | 1326 | 1326 | 1326 |      |
| 5°  | 1380 | 1358 | 1317 | 1275 | 1257 | 132  |
| 15° | 1408 | 1355 | 1228 | 1116 | 1073 | 397  |
| 25° | 1300 | 1210 | 1030 | 898  | 848  | 595  |
| 35° | 1012 | 930  | 769  | 668  | 630  | 629  |
| 45° | 659  | 612  | 518  | 452  | 430  | 510  |
| 55° | 412  | 378  | 318  | 282  | 262  | 371  |
| 65° | 245  | 218  | 179  | 155  | 162  | 245  |
| 75° | 116  | 100  | 79   | 82   | 88   | 124  |
| 85° | 21   | 20   | 20   | 21   | 23   | 27   |
| 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°    | 1326.3 | 1326.3 | 1326.3 | 1326.3 | 1326.3 | 1326.3 | 1326.3 | 1326.3 | 1326.3 |
| 2.5°  | 1351.4 | 1346.0 | 1338.8 | 1331.7 | 1320.9 | 1308.5 | 1297.7 | 1294.2 | 1288.8 |
| 5°    | 1379.9 | 1372.8 | 1358.5 | 1340.6 | 1317.4 | 1294.2 | 1274.6 | 1262.0 | 1256.8 |
| 7.5°  | 1397.7 | 1388.8 | 1369.2 | 1338.8 | 1304.9 | 1271.0 | 1242.5 | 1224.6 | 1217.4 |
| 10°   | 1401.4 | 1392.3 | 1365.6 | 1324.5 | 1279.9 | 1233.5 | 1197.7 | 1176.3 | 1167.4 |
| 12.5° | 1406.6 | 1394.2 | 1360.3 | 1312.0 | 1254.9 | 1201.4 | 1156.8 | 1130.0 | 1121.1 |
| 15°   | 1408.4 | 1394.2 | 1354.9 | 1296.0 | 1228.2 | 1163.9 | 1115.7 | 1083.6 | 1072.8 |
| 17.5° | 1401.4 | 1385.2 | 1338.8 | 1267.4 | 1190.6 | 1122.8 | 1065.7 | 1031.7 | 1017.6 |
| 20°   | 1376.3 | 1358.5 | 1304.9 | 1224.6 | 1140.7 | 1069.3 | 1010.4 | 974.7  | 958.5  |
| 22.5° | 1344.2 | 1320.9 | 1260.3 | 1174.6 | 1087.1 | 1012.2 | 953.3  | 917.6  | 901.4  |
| 25°   | 1299.5 | 1278.1 | 1210.3 | 1119.3 | 1030.0 | 951.4  | 897.9  | 860.4  | 847.9  |
| 27.5° | 1247.7 | 1222.8 | 1153.1 | 1062.2 | 971.1  | 892.5  | 840.8  | 806.8  | 790.8  |
| 30°   | 1178.2 | 1154.9 | 1085.3 | 994.3  | 905.0  | 831.9  | 778.2  | 749.8  | 742.7  |
| 32.5° | 1096.0 | 1076.5 | 1008.5 | 922.8  | 837.3  | 769.3  | 724.7  | 694.4  | 687.3  |
| 35°   | 1012.2 | 989.0  | 930.0  | 849.7  | 769.3  | 708.7  | 667.6  | 640.8  | 630.1  |
| 37.5° | 921.1  | 899.7  | 849.7  | 778.2  | 706.9  | 649.8  | 614.1  | 590.9  | 580.1  |
| 40°   | 824.7  | 808.7  | 762.2  | 705.1  | 640.8  | 590.9  | 560.5  | 540.9  | 530.1  |
| 42.5° | 735.5  | 719.3  | 687.3  | 633.8  | 580.1  | 535.5  | 508.7  | 490.9  | 482.0  |
| 45°   | 658.7  | 644.4  | 612.3  | 565.9  | 517.6  | 480.1  | 451.6  | 439.2  | 430.2  |
| 47.5° | 581.9  | 574.8  | 546.2  | 503.5  | 458.7  | 426.6  | 407.0  | 392.7  | 385.5  |
| 50°   | 523.0  | 514.1  | 487.3  | 442.7  | 405.2  | 380.3  | 362.4  | 349.8  | 342.7  |
| 52.5° | 462.4  | 453.5  | 428.4  | 390.9  | 360.6  | 337.4  | 319.5  | 308.9  | 301.7  |
| 55°   | 412.4  | 405.2  | 378.4  | 344.6  | 317.8  | 298.1  | 282.1  | 269.5  | 262.4  |
| 57.5° | 366.0  | 358.9  | 333.8  | 301.7  | 278.4  | 260.6  | 246.3  | 235.7  | 226.7  |
| 60°   | 323.1  | 317.8  | 292.7  | 262.4  | 242.8  | 224.9  | 212.4  | 203.5  | 198.1  |
| 62.5° | 285.6  | 274.9  | 253.5  | 226.7  | 208.9  | 194.6  | 182.1  | 176.7  | 180.3  |
| 65°   | 244.6  | 239.2  | 217.8  | 194.6  | 178.6  | 164.3  | 155.2  | 158.9  | 162.4  |
| 67.5° | 210.6  | 203.5  | 185.7  | 164.3  | 150.0  | 139.2  | 133.8  | 141.0  | 142.8  |
| 70°   | 176.7  | 169.5  | 153.5  | 135.7  | 123.2  | 116.0  | 116.0  | 121.4  | 123.2  |
| 72.5° | 144.6  | 139.2  | 124.9  | 110.6  | 101.7  | 96.4   | 100.0  | 103.5  | 105.4  |
| 75°   | 116.0  | 110.6  | 100.0  | 87.5   | 78.6   | 78.6   | 82.1   | 85.7   | 87.5   |
| 77.5° | 89.2   | 85.7   | 74.9   | 66.0   | 62.5   | 62.5   | 66.0   | 67.8   | 69.7   |
| 80°   | 62.5   | 58.9   | 53.5   | 48.2   | 44.6   | 48.2   | 51.7   | 51.7   | 53.5   |
| 82.5° | 41.1   | 39.2   | 35.7   | 32.1   | 32.1   | 34.0   | 35.7   | 37.5   | 37.5   |
| 85°   | 21.4   | 21.4   | 19.7   | 17.8   | 19.7   | 21.4   | 21.4   | 23.2   | 23.2   |
| 87.5° | 7.1    | 7.1    | 7.1    | 7.1    | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 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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