

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: P582034

Luminaire Tested: **HCC6S25D010SL-HM60525835-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582034  
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: HCC6S25D010SL-HM60525835-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

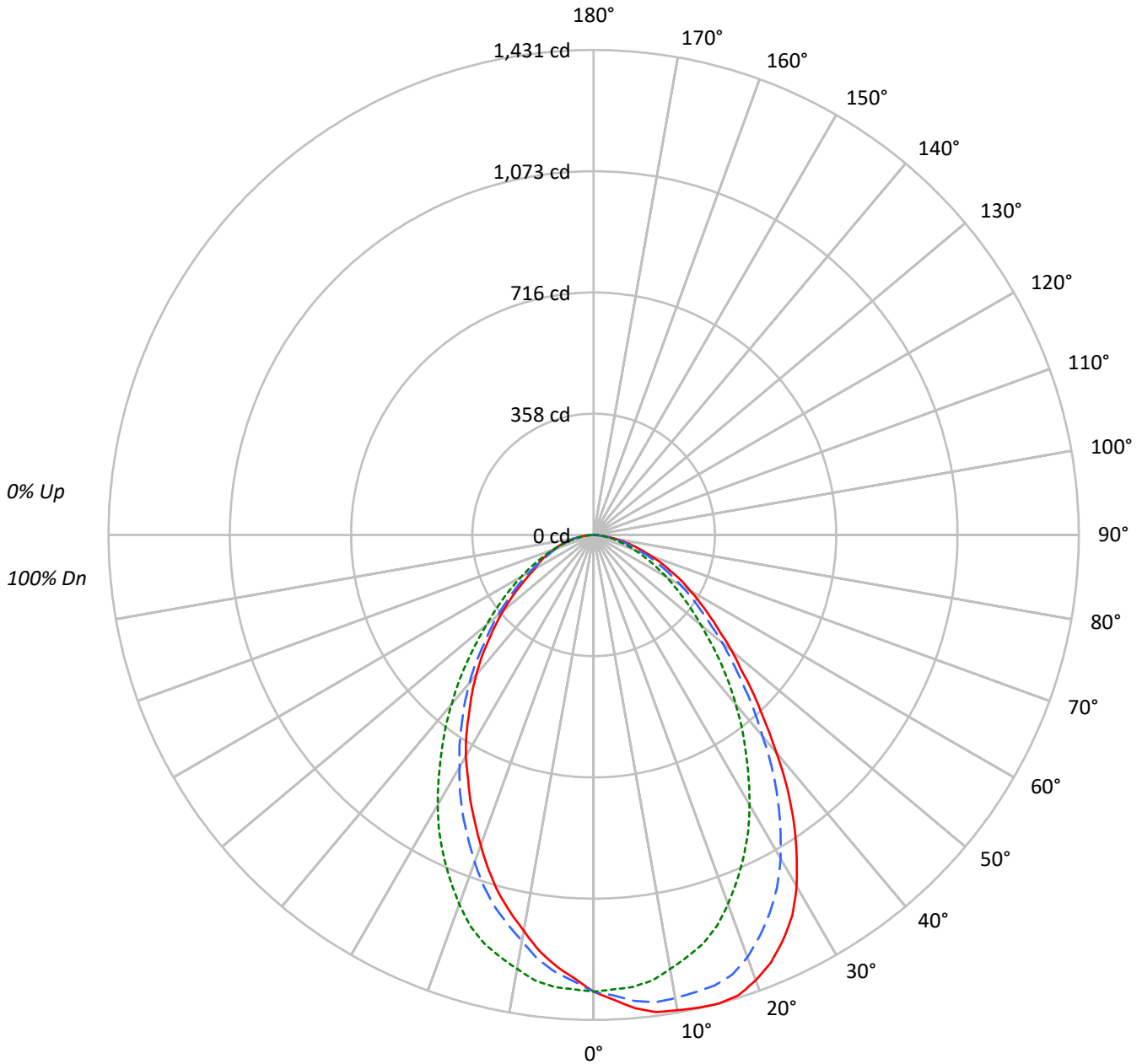
Lumens per Lamp: N/A  
Luminaire Lumens: 2510.4 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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 |  |  |  |  |  |  |  |  |   |
| 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°  | 73876 | 73876 | 73876 |
| 5°  | 77151 | 73663 | 70267 |
| 10° | 79257 | 72393 | 66031 |
| 15° | 81221 | 70823 | 61868 |
| 20° | 81575 | 67614 | 56822 |
| 25° | 79868 | 63300 | 52116 |
| 30° | 75777 | 58211 | 47767 |
| 35° | 68830 | 52314 | 42851 |
| 40° | 59969 | 46602 | 38551 |
| 45° | 51881 | 40779 | 33895 |
| 50° | 45320 | 35112 | 29696 |
| 55° | 40046 | 30862 | 25481 |
| 60° | 35995 | 27048 | 22082 |
| 65° | 32234 | 23530 | 21403 |
| 70° | 28787 | 20067 | 20067 |
| 75° | 24972 | 16902 | 18809 |
| 80° | 20047 | 14333 | 17174 |
| 85° | 13712 | 12517 | 14844 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.7  | 5.0       |
| 10°-20°   | 352.1  | 14.0      |
| 20°-30°   | 490.7  | 19.5      |
| 30°-40°   | 505.6  | 20.1      |
| 40°-50°   | 419.0  | 16.7      |
| 50°-60°   | 301.1  | 12.0      |
| 60°-70°   | 191.8  | 7.6       |
| 70°-80°   | 98.5   | 3.9       |
| 80°-90°   | 25.1   | 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°    | 969.4  | 38.6      |
| 0°-40°    | 1475.0 | 58.8      |
| 0°-60°    | 2195.1 | 87.4      |
| 0°-90°    | 2510.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2510.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1348 | 1348 | 1348 | 1348 | 1348 |      |
| 5°  | 1402 | 1380 | 1339 | 1295 | 1277 | 134  |
| 15° | 1431 | 1377 | 1248 | 1134 | 1090 | 403  |
| 25° | 1320 | 1230 | 1046 | 912  | 862  | 605  |
| 35° | 1028 | 945  | 782  | 678  | 640  | 639  |
| 45° | 669  | 622  | 526  | 459  | 437  | 518  |
| 55° | 419  | 384  | 323  | 287  | 267  | 377  |
| 65° | 248  | 221  | 181  | 158  | 165  | 249  |
| 75° | 118  | 102  | 80   | 83   | 89   | 126  |
| 85° | 22   | 20   | 20   | 22   | 24   | 28   |
| 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°    | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1347.6 | 1347.6 |
| 2.5°  | 1373.0 | 1367.5 | 1360.3 | 1353.1 | 1342.2 | 1329.4 | 1318.7 | 1315.0 | 1309.5 |
| 5°    | 1402.0 | 1394.8 | 1380.3 | 1362.1 | 1338.6 | 1315.0 | 1295.0 | 1282.3 | 1276.9 |
| 7.5°  | 1420.2 | 1411.1 | 1391.2 | 1360.3 | 1325.8 | 1291.3 | 1262.4 | 1244.2 | 1237.0 |
| 10°   | 1423.8 | 1414.8 | 1387.6 | 1345.8 | 1300.5 | 1253.3 | 1217.0 | 1195.2 | 1186.2 |
| 12.5° | 1429.3 | 1416.5 | 1382.1 | 1333.1 | 1275.1 | 1220.7 | 1175.3 | 1148.1 | 1139.1 |
| 15°   | 1431.1 | 1416.5 | 1376.7 | 1316.8 | 1247.9 | 1182.6 | 1133.6 | 1101.0 | 1090.1 |
| 17.5° | 1423.8 | 1407.5 | 1360.3 | 1287.7 | 1209.8 | 1140.9 | 1082.8 | 1048.4 | 1033.9 |
| 20°   | 1398.3 | 1380.3 | 1325.8 | 1244.2 | 1159.0 | 1086.5 | 1026.6 | 990.4  | 974.0  |
| 22.5° | 1365.8 | 1342.2 | 1280.6 | 1193.5 | 1104.5 | 1028.5 | 968.6  | 932.2  | 915.9  |
| 25°   | 1320.4 | 1298.6 | 1229.7 | 1137.2 | 1046.5 | 966.7  | 912.3  | 874.2  | 861.6  |
| 27.5° | 1267.8 | 1242.5 | 1171.7 | 1079.2 | 986.7  | 906.9  | 854.3  | 819.8  | 803.5  |
| 30°   | 1197.1 | 1173.6 | 1102.8 | 1010.3 | 919.6  | 845.3  | 790.8  | 761.8  | 754.6  |
| 32.5° | 1113.7 | 1093.7 | 1024.8 | 937.7  | 850.7  | 781.7  | 736.4  | 705.6  | 698.3  |
| 35°   | 1028.5 | 1004.8 | 945.0  | 863.3  | 781.7  | 720.1  | 678.4  | 651.2  | 640.3  |
| 37.5° | 935.9  | 914.2  | 863.3  | 790.8  | 718.2  | 660.2  | 624.0  | 600.3  | 589.4  |
| 40°   | 838.0  | 821.6  | 774.5  | 716.5  | 651.2  | 600.3  | 569.5  | 549.6  | 538.7  |
| 42.5° | 747.3  | 731.0  | 698.3  | 643.9  | 589.4  | 544.2  | 516.9  | 498.8  | 489.7  |
| 45°   | 669.2  | 654.8  | 622.1  | 575.0  | 526.0  | 487.9  | 458.8  | 446.2  | 437.2  |
| 47.5° | 591.3  | 584.0  | 555.0  | 511.5  | 466.1  | 433.5  | 413.5  | 399.1  | 391.8  |
| 50°   | 531.4  | 522.4  | 495.2  | 449.8  | 411.7  | 386.3  | 368.1  | 355.5  | 348.2  |
| 52.5° | 469.7  | 460.7  | 435.3  | 397.2  | 366.4  | 342.8  | 324.7  | 313.8  | 306.5  |
| 55°   | 419.0  | 411.7  | 384.5  | 350.1  | 322.9  | 302.9  | 286.6  | 273.9  | 266.6  |
| 57.5° | 371.8  | 364.6  | 339.2  | 306.5  | 282.9  | 264.8  | 250.3  | 239.4  | 230.3  |
| 60°   | 328.3  | 322.9  | 297.5  | 266.6  | 246.7  | 228.5  | 215.9  | 206.7  | 201.4  |
| 62.5° | 290.2  | 279.3  | 257.5  | 230.3  | 212.3  | 197.7  | 184.9  | 179.6  | 183.2  |
| 65°   | 248.5  | 243.1  | 221.3  | 197.7  | 181.4  | 166.9  | 157.8  | 161.4  | 165.0  |
| 67.5° | 214.0  | 206.7  | 188.6  | 166.9  | 152.4  | 141.5  | 136.1  | 143.3  | 145.1  |
| 70°   | 179.6  | 172.3  | 156.0  | 137.8  | 125.2  | 117.9  | 117.9  | 123.3  | 125.2  |
| 72.5° | 147.0  | 141.5  | 126.9  | 112.4  | 103.4  | 98.0   | 101.6  | 105.3  | 107.0  |
| 75°   | 117.9  | 112.4  | 101.6  | 88.8   | 79.8   | 79.8   | 83.4   | 87.1   | 88.8   |
| 77.5° | 90.7   | 87.1   | 76.2   | 67.2   | 63.5   | 63.5   | 67.2   | 68.9   | 70.8   |
| 80°   | 63.5   | 59.9   | 54.4   | 49.0   | 45.4   | 49.0   | 52.6   | 52.6   | 54.4   |
| 82.5° | 41.7   | 39.8   | 36.3   | 32.7   | 32.7   | 34.5   | 36.3   | 38.1   | 38.1   |
| 85°   | 21.8   | 21.8   | 19.9   | 18.2   | 19.9   | 21.8   | 21.8   | 23.6   | 23.6   |
| 87.5° | 7.3    | 7.3    | 7.3    | 7.3    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    |
| 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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