

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: P593139

Luminaire Tested: **HCC6W20D010BZ-HM60525850-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593139  
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: HCC6W20D010BZ-HM60525850-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

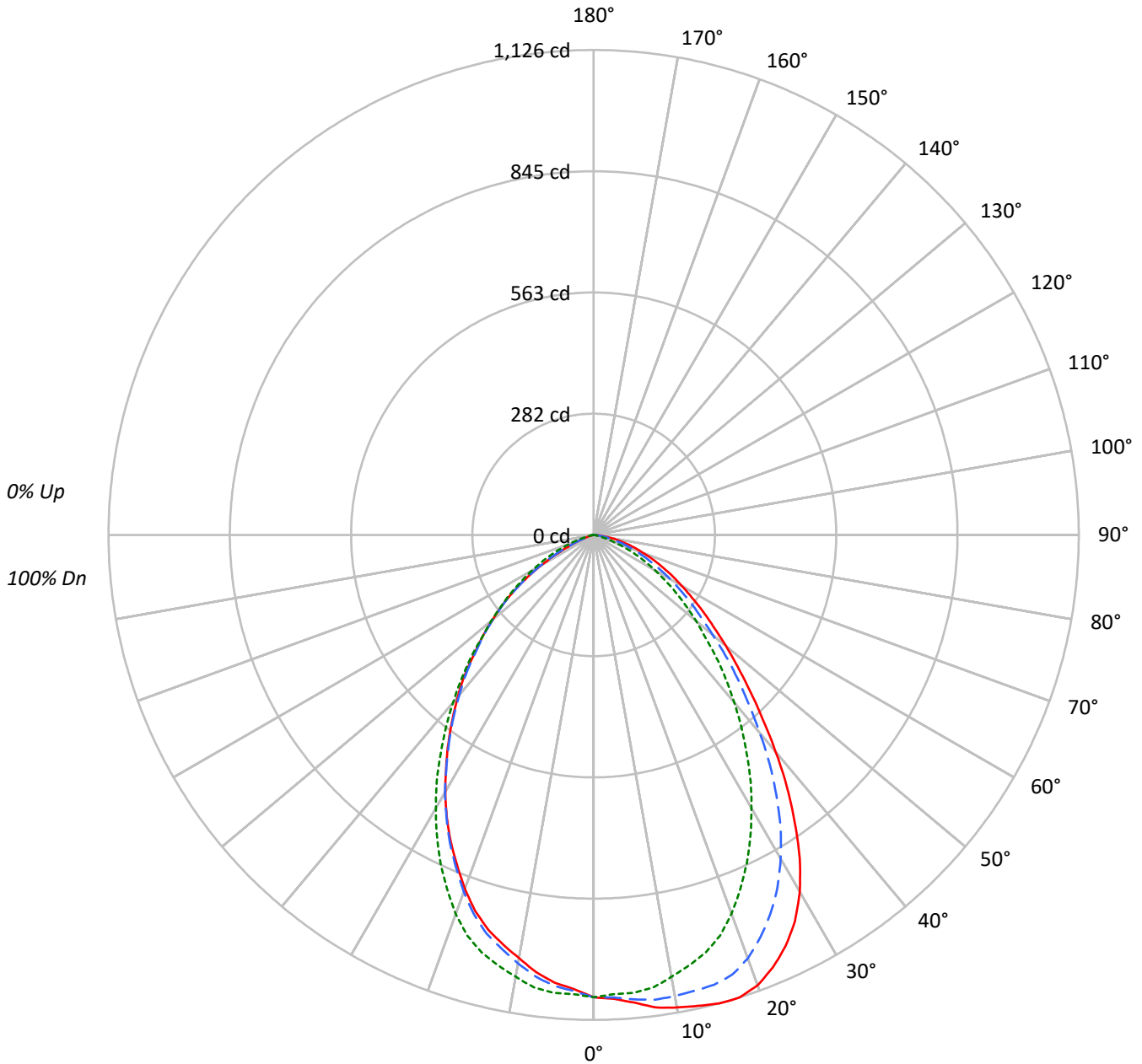
Lumens per Lamp: N/A  
Luminaire Lumens: 1912.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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 |     |     |     |     | 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 | 100 | 100 | 100 | 100 |  |   |
|     | 1  | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  | 89  | 89  | 89  | 89  | 89  |  |   |
|     | 2  | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  | 78  | 78  | 78  | 78  | 78  |  |   |
|     | 3  | 96  | 87  | 80  | 75  | 93  | 86  | 79  | 74  | 83  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  | 69  | 69  | 69  | 69  | 69  |  |   |
|     | 4  | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 68  | 64  | 71  | 66  | 63  | 61  | 61  | 61  | 61  | 61  | 61  |  |   |
|     | 5  | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  | 54  | 54  | 54  | 54  | 54  |  |   |
|     | 6  | 77  | 65  | 58  | 52  | 75  | 65  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  | 49  | 49  | 49  | 49  | 49  |  |   |
|     | 7  | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 44  | 44  | 44  | 44  | 44  | 44  |  |   |
|     | 8  | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  | 40  | 40  | 40  | 40  | 40  |  |   |
|     | 9  | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  | 37  | 37  | 37  | 37  | 37  |  |   |
|     | 10 | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  | 34  | 34  | 34  | 34  | 34  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 58844 | 58844 | 58844 |
| 5°  | 59988 | 58739 | 57412 |
| 10° | 62023 | 57993 | 55549 |
| 15° | 63922 | 56981 | 53808 |
| 20° | 64913 | 54611 | 50994 |
| 25° | 63742 | 50864 | 47489 |
| 30° | 60592 | 46355 | 43576 |
| 35° | 54455 | 41425 | 39304 |
| 40° | 47002 | 36297 | 35116 |
| 45° | 39803 | 31251 | 30437 |
| 50° | 34123 | 26396 | 26140 |
| 55° | 29581 | 22221 | 21352 |
| 60° | 25831 | 18036 | 15229 |
| 65° | 22726 | 13906 | 8419  |
| 70° | 19603 | 9184  | 4119  |
| 75° | 16627 | 4490  | 1610  |
| 80° | 12880 | 1894  | 979   |
| 85° | 7611  | 943   | 943   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.3  | 5.3       |
| 10°-20°   | 286.5  | 15.0      |
| 20°-30°   | 403.4  | 21.1      |
| 30°-40°   | 412.2  | 21.5      |
| 40°-50°   | 332.3  | 17.4      |
| 50°-60°   | 222.9  | 11.7      |
| 60°-70°   | 112.8  | 5.9       |
| 70°-80°   | 36.1   | 1.9       |
| 80°-90°   | 5.6    | 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°    | 791.2  | 41.4      |
| 0°-40°    | 1203.3 | 62.9      |
| 0°-60°    | 1758.5 | 91.9      |
| 0°-90°    | 1912.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1912.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1073 | 1073 | 1073 | 1073 | 1073 |      |
| 5°  | 1090 | 1082 | 1067 | 1051 | 1043 | 105  |
| 15° | 1126 | 1081 | 1004 | 959  | 948  | 318  |
| 25° | 1054 | 971  | 841  | 790  | 785  | 482  |
| 35° | 814  | 740  | 619  | 584  | 587  | 506  |
| 45° | 513  | 473  | 403  | 390  | 393  | 399  |
| 55° | 310  | 275  | 232  | 222  | 223  | 278  |
| 65° | 175  | 145  | 107  | 71   | 65   | 175  |
| 75° | 78   | 56   | 21   | 8    | 8    | 84   |
| 85° | 12   | 6    | 2    | 2    | 2    | 16   |
| 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°    | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 | 1073.4 |
| 2.5°  | 1077.9 | 1076.5 | 1075.0 | 1071.9 | 1067.4 | 1062.9 | 1059.8 | 1056.9 | 1055.3 |
| 5°    | 1090.1 | 1087.0 | 1082.5 | 1076.5 | 1067.4 | 1056.9 | 1050.9 | 1044.7 | 1043.3 |
| 7.5°  | 1106.7 | 1100.6 | 1088.6 | 1075.0 | 1059.8 | 1044.7 | 1034.2 | 1028.2 | 1023.7 |
| 10°   | 1114.2 | 1103.7 | 1087.0 | 1064.3 | 1041.8 | 1023.7 | 1010.1 | 1001.0 | 997.9  |
| 12.5° | 1120.2 | 1108.2 | 1084.1 | 1053.8 | 1023.7 | 999.4  | 984.4  | 976.9  | 973.8  |
| 15°   | 1126.3 | 1114.2 | 1081.0 | 1041.8 | 1004.0 | 975.3  | 958.7  | 951.2  | 948.1  |
| 17.5° | 1126.3 | 1109.7 | 1070.5 | 1020.6 | 975.3  | 940.6  | 924.0  | 916.5  | 914.9  |
| 20°   | 1112.7 | 1094.6 | 1046.3 | 987.4  | 936.1  | 896.8  | 881.7  | 877.2  | 874.1  |
| 22.5° | 1087.0 | 1065.9 | 1011.5 | 945.1  | 889.3  | 851.6  | 834.9  | 831.8  | 828.9  |
| 25°   | 1053.8 | 1032.7 | 970.8  | 899.8  | 840.9  | 803.2  | 789.6  | 786.6  | 785.1  |
| 27.5° | 1011.5 | 988.9  | 924.0  | 851.6  | 788.1  | 751.9  | 739.7  | 739.7  | 738.3  |
| 30°   | 957.2  | 931.6  | 868.1  | 795.7  | 732.3  | 699.1  | 690.0  | 690.0  | 688.4  |
| 32.5° | 890.8  | 865.0  | 807.7  | 738.3  | 677.9  | 643.2  | 635.6  | 638.7  | 637.1  |
| 35°   | 813.7  | 792.6  | 739.7  | 671.9  | 619.0  | 587.3  | 584.3  | 587.3  | 587.3  |
| 37.5° | 736.8  | 717.2  | 671.9  | 613.0  | 563.1  | 534.4  | 534.4  | 539.0  | 537.5  |
| 40°   | 656.8  | 641.6  | 599.4  | 548.0  | 507.2  | 487.6  | 484.6  | 489.1  | 490.7  |
| 42.5° | 581.2  | 569.2  | 533.0  | 490.7  | 454.4  | 434.8  | 439.4  | 442.3  | 443.9  |
| 45°   | 513.4  | 501.2  | 472.6  | 428.7  | 403.1  | 389.5  | 389.5  | 394.1  | 392.6  |
| 47.5° | 453.0  | 443.9  | 415.2  | 372.9  | 350.3  | 344.2  | 347.3  | 350.3  | 350.3  |
| 50°   | 400.1  | 386.5  | 359.3  | 326.1  | 309.5  | 301.9  | 305.0  | 306.5  | 306.5  |
| 52.5° | 350.3  | 341.3  | 314.1  | 283.8  | 268.7  | 264.2  | 264.2  | 265.7  | 265.7  |
| 55°   | 309.5  | 298.9  | 274.8  | 244.6  | 232.5  | 226.5  | 222.0  | 220.5  | 223.4  |
| 57.5° | 270.2  | 261.2  | 238.5  | 209.8  | 196.2  | 190.2  | 181.2  | 178.1  | 181.2  |
| 60°   | 235.6  | 228.0  | 205.3  | 178.1  | 164.5  | 152.5  | 142.0  | 135.8  | 138.9  |
| 62.5° | 205.3  | 196.2  | 173.6  | 151.0  | 135.8  | 122.3  | 105.7  | 96.6   | 101.2  |
| 65°   | 175.2  | 167.6  | 144.9  | 122.3  | 107.2  | 90.6   | 70.9   | 64.9   | 64.9   |
| 67.5° | 148.0  | 140.4  | 119.3  | 99.6   | 81.6   | 61.9   | 43.7   | 42.3   | 43.7   |
| 70°   | 122.3  | 114.8  | 96.6   | 77.0   | 57.3   | 37.7   | 25.7   | 25.7   | 25.7   |
| 72.5° | 101.2  | 92.1   | 75.5   | 55.9   | 36.3   | 19.6   | 13.6   | 15.1   | 15.1   |
| 75°   | 78.5   | 70.9   | 55.9   | 37.7   | 21.2   | 9.1    | 7.6    | 7.6    | 7.6    |
| 77.5° | 58.9   | 52.8   | 39.2   | 24.1   | 10.5   | 3.1    | 3.1    | 3.1    | 3.1    |
| 80°   | 40.8   | 34.7   | 25.7   | 15.1   | 6.0    | 3.1    | 3.1    | 3.1    | 3.1    |
| 82.5° | 24.1   | 21.2   | 15.1   | 7.6    | 3.1    | 1.5    | 1.5    | 1.5    | 1.5    |
| 85°   | 12.1   | 10.5   | 6.0    | 3.1    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 87.5° | 3.1    | 3.1    | 1.5    | 1.5    | 0.0    | 1.5    | 1.5    | 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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