

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: P582747

Luminaire Tested: **HCC6S50D010BZ-HM64560835-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582747  
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: HCC6S50D010BZ-HM64560835-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

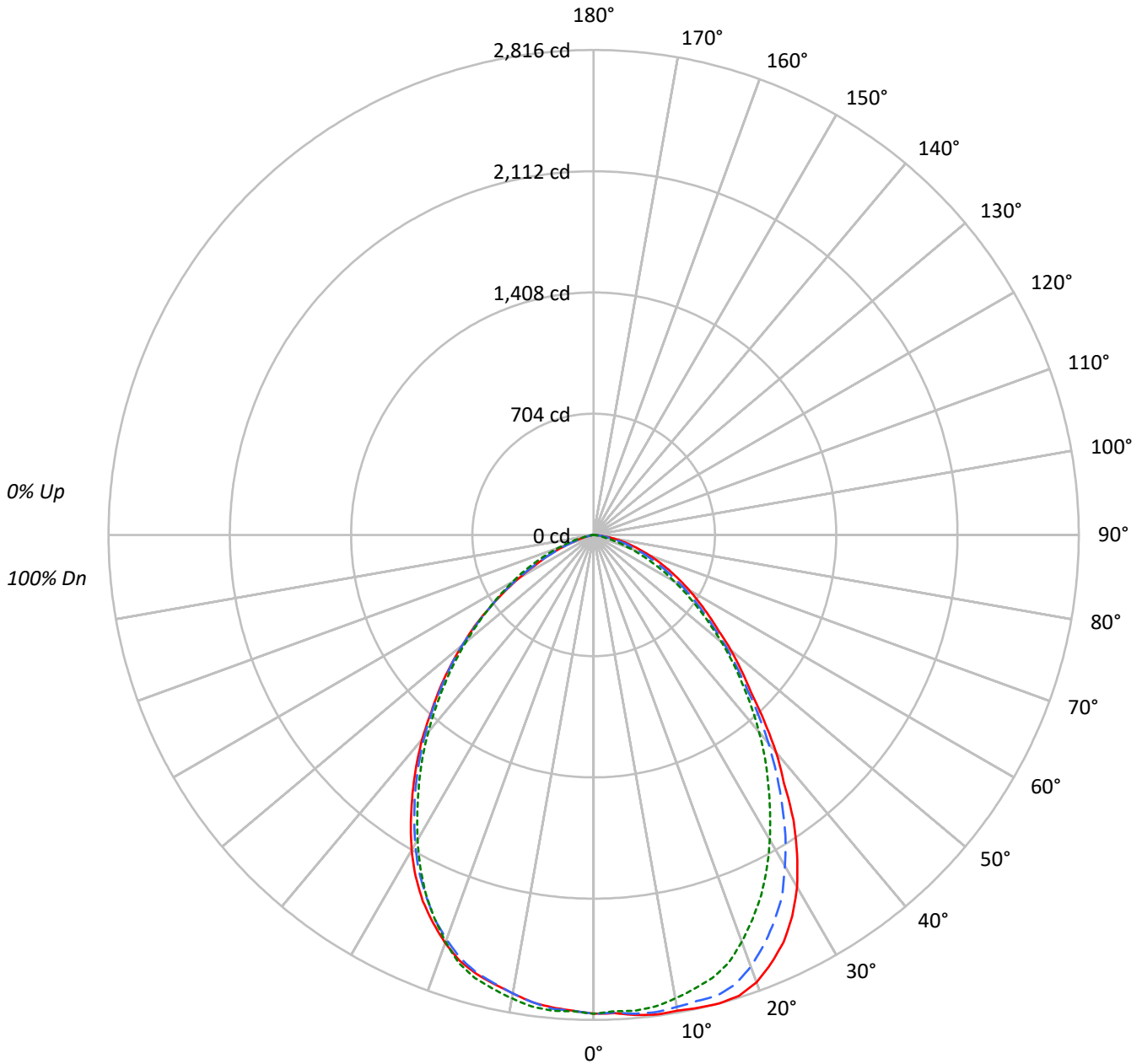
Lumens per Lamp: N/A  
Luminaire Lumens: 5447.3 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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 |    |    | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    | 77  |
| 3   | 95  | 86  | 79  | 74  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 77  | 73  | 69  | 67  |    |    | 67  |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 70  | 65  | 61  | 59  |    |    | 59  |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 53  |    |    | 53  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    | 38  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    | 35  |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    | 32  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 152400 | 152400 | 152400 |
| 5°  | 153978 | 152575 | 151573 |
| 10° | 156171 | 152113 | 150487 |
| 15° | 159836 | 151159 | 149711 |
| 20° | 161323 | 146663 | 147083 |
| 25° | 157793 | 139278 | 141928 |
| 30° | 149447 | 129387 | 133767 |
| 35° | 135325 | 118253 | 122650 |
| 40° | 117849 | 106900 | 110808 |
| 45° | 99995  | 94630  | 98018  |
| 50° | 88551  | 82650  | 84825  |
| 55° | 78000  | 70698  | 70344  |
| 60° | 69907  | 59524  | 54721  |
| 65° | 62380  | 47735  | 39239  |
| 70° | 54897  | 34445  | 24539  |
| 75° | 46301  | 20842  | 13873  |
| 80° | 35642  | 9218   | 5746   |
| 85° | 20631  | 2327   | 2327   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 263.9  | 4.8       |
| 10°-20°   | 758.4  | 13.9      |
| 20°-30°   | 1096.3 | 20.1      |
| 30°-40°   | 1153.6 | 21.2      |
| 40°-50°   | 969.7  | 17.8      |
| 50°-60°   | 680.6  | 12.5      |
| 60°-70°   | 374.4  | 6.9       |
| 70°-80°   | 132.9  | 2.4       |
| 80°-90°   | 17.4   | 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°    | 2118.6 | 38.9      |
| 0°-40°    | 3272.1 | 60.1      |
| 0°-60°    | 4922.5 | 90.4      |
| 0°-90°    | 5447.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5447.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2780 | 2780 | 2780 | 2780 | 2780 |      |
| 5°  | 2798 | 2791 | 2773 | 2762 | 2754 | 267  |
| 15° | 2816 | 2769 | 2663 | 2631 | 2638 | 795  |
| 25° | 2609 | 2478 | 2303 | 2306 | 2346 | 1193 |
| 35° | 2022 | 1906 | 1767 | 1804 | 1833 | 1253 |
| 45° | 1290 | 1253 | 1221 | 1250 | 1264 | 1012 |
| 55° | 816  | 772  | 740  | 740  | 736  | 734  |
| 65° | 481  | 430  | 368  | 302  | 302  | 479  |
| 75° | 219  | 175  | 98   | 66   | 66   | 235  |
| 85° | 33   | 18   | 4    | 4    | 4    | 45   |
| 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°    | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 | 2780.0 |
| 2.5°  | 2780.0 | 2780.0 | 2776.3 | 2776.3 | 2769.0 | 2769.0 | 2765.3 | 2765.3 | 2765.3 |
| 5°    | 2798.1 | 2798.1 | 2790.8 | 2780.0 | 2772.6 | 2761.8 | 2761.8 | 2758.1 | 2754.4 |
| 7.5°  | 2809.1 | 2805.5 | 2794.5 | 2780.0 | 2761.8 | 2743.5 | 2736.3 | 2739.8 | 2736.3 |
| 10°   | 2805.5 | 2798.1 | 2783.6 | 2754.4 | 2732.6 | 2707.1 | 2703.4 | 2699.8 | 2703.4 |
| 12.5° | 2812.7 | 2801.8 | 2772.6 | 2736.3 | 2699.8 | 2670.6 | 2666.9 | 2666.9 | 2670.6 |
| 15°   | 2816.3 | 2805.5 | 2769.0 | 2714.3 | 2663.4 | 2634.2 | 2630.6 | 2634.2 | 2637.9 |
| 17.5° | 2805.5 | 2790.8 | 2736.3 | 2663.4 | 2605.0 | 2575.9 | 2575.9 | 2583.2 | 2590.5 |
| 20°   | 2765.3 | 2743.5 | 2666.9 | 2579.5 | 2514.0 | 2492.1 | 2499.4 | 2514.0 | 2521.2 |
| 22.5° | 2692.4 | 2666.9 | 2579.5 | 2481.2 | 2412.0 | 2393.8 | 2412.0 | 2430.1 | 2437.5 |
| 25°   | 2608.7 | 2579.5 | 2477.5 | 2375.5 | 2302.6 | 2280.7 | 2306.3 | 2335.4 | 2346.4 |
| 27.5° | 2495.7 | 2463.0 | 2368.3 | 2251.6 | 2178.7 | 2167.8 | 2197.0 | 2229.7 | 2237.1 |
| 30°   | 2360.9 | 2324.4 | 2218.9 | 2109.5 | 2044.0 | 2040.3 | 2073.1 | 2102.3 | 2113.2 |
| 32.5° | 2197.0 | 2164.2 | 2073.1 | 1963.8 | 1905.5 | 1905.5 | 1938.3 | 1963.8 | 1974.8 |
| 35°   | 2022.1 | 1985.6 | 1905.5 | 1814.4 | 1767.0 | 1770.7 | 1803.5 | 1821.7 | 1832.7 |
| 37.5° | 1814.4 | 1803.5 | 1741.5 | 1665.1 | 1632.3 | 1639.6 | 1665.1 | 1679.6 | 1690.6 |
| 40°   | 1646.8 | 1617.7 | 1577.6 | 1515.7 | 1493.8 | 1501.1 | 1526.6 | 1541.2 | 1548.4 |
| 42.5° | 1464.7 | 1446.5 | 1413.7 | 1370.0 | 1355.3 | 1366.3 | 1388.1 | 1399.1 | 1395.5 |
| 45°   | 1289.8 | 1286.1 | 1253.3 | 1227.9 | 1220.6 | 1235.1 | 1249.7 | 1260.6 | 1264.3 |
| 47.5° | 1162.2 | 1147.7 | 1118.5 | 1100.3 | 1093.0 | 1107.5 | 1122.2 | 1129.5 | 1129.5 |
| 50°   | 1038.3 | 1023.8 | 994.6  | 976.5  | 969.1  | 983.8  | 994.6  | 1002.0 | 994.6  |
| 52.5° | 914.4  | 899.9  | 874.4  | 852.6  | 848.9  | 856.2  | 859.9  | 863.5  | 870.8  |
| 55°   | 816.1  | 801.5  | 772.4  | 746.9  | 739.7  | 743.2  | 739.7  | 739.7  | 736.0  |
| 57.5° | 721.4  | 706.8  | 677.7  | 648.5  | 637.6  | 634.0  | 623.0  | 619.4  | 615.8  |
| 60°   | 637.6  | 619.4  | 590.3  | 557.4  | 542.9  | 528.3  | 510.1  | 499.1  | 499.1  |
| 62.5° | 557.4  | 539.2  | 506.4  | 477.2  | 455.4  | 429.9  | 400.8  | 386.2  | 386.2  |
| 65°   | 480.9  | 466.4  | 429.9  | 397.2  | 368.0  | 335.2  | 302.5  | 295.1  | 302.5  |
| 67.5° | 408.0  | 393.5  | 357.0  | 324.3  | 287.8  | 247.8  | 218.6  | 218.6  | 225.9  |
| 70°   | 342.5  | 328.0  | 295.1  | 255.1  | 214.9  | 174.9  | 153.1  | 153.1  | 153.1  |
| 72.5° | 280.5  | 266.0  | 229.6  | 193.1  | 153.1  | 112.9  | 102.0  | 105.7  | 102.0  |
| 75°   | 218.6  | 207.6  | 174.9  | 134.8  | 98.4   | 69.2   | 65.5   | 61.9   | 65.5   |
| 77.5° | 163.9  | 153.1  | 123.9  | 87.4   | 54.7   | 40.0   | 36.5   | 36.5   | 36.5   |
| 80°   | 112.9  | 102.0  | 80.2   | 51.0   | 29.2   | 18.2   | 18.2   | 18.2   | 18.2   |
| 82.5° | 69.2   | 58.3   | 43.7   | 25.5   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   |
| 85°   | 32.8   | 25.5   | 18.2   | 7.3    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7    |
| 87.5° | 7.3    | 7.3    | 3.7    | 3.7    | 0.0    | 3.7    | 3.7    | 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



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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