

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: P593353

Luminaire Tested: **HCC6W50D010SL-HM64560850-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010SL-HM64560850-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

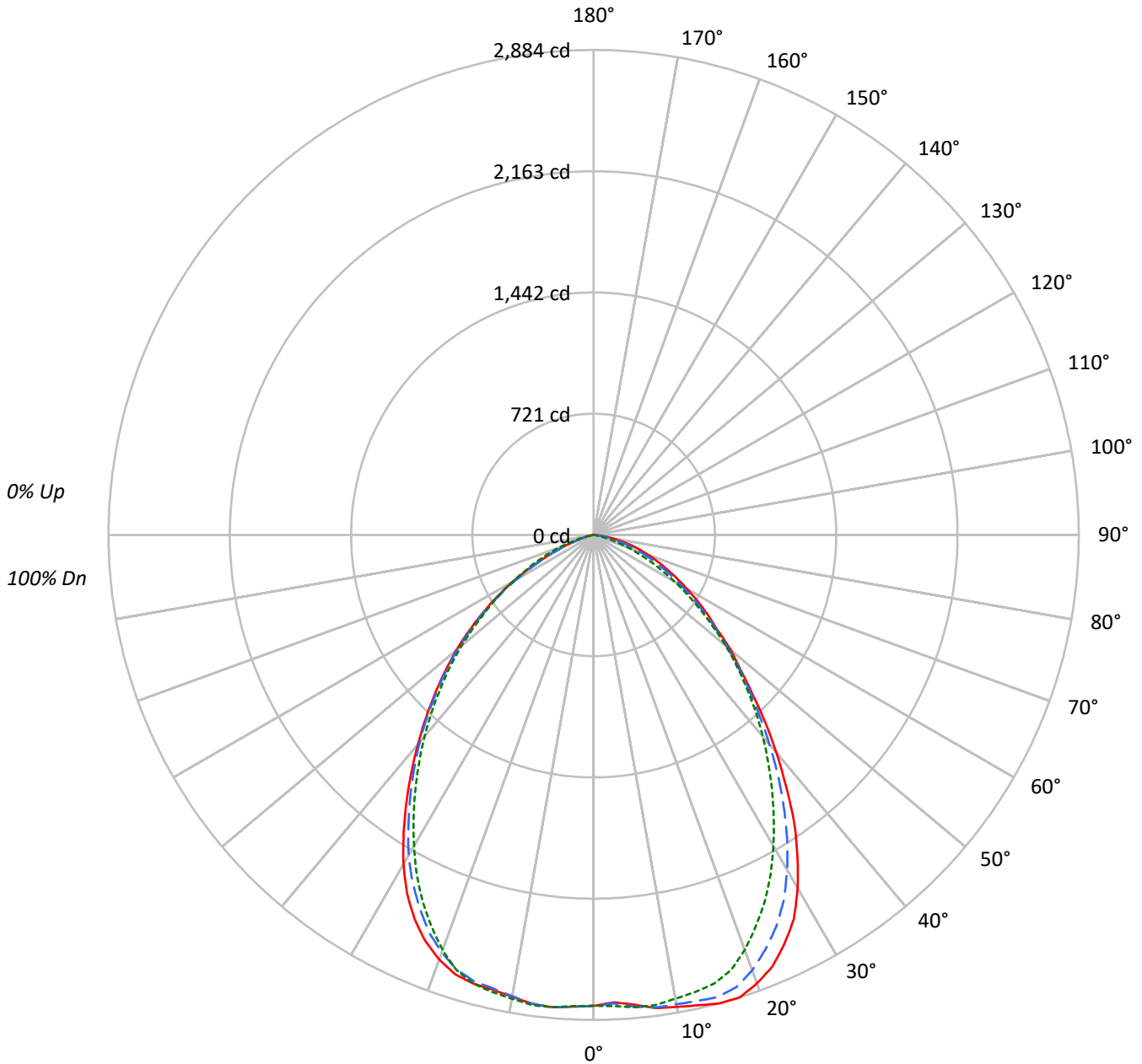
Lumens per Lamp: N/A  
Luminaire Lumens: 5653.6 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P593353  
CATALOG NUMBER: HCC6W50D010SL-HM64560850-61RWWC

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P593353

CATALOG NUMBER: HCC6W50D010SL-HM64560850-61RWWC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	94	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68				68
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60				60
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	62	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	153518	153518	153518
5°	154314	155150	155150
10°	158637	155887	155252
15°	163673	156783	156783
20°	165582	153185	156726
25°	162276	145514	152398
30°	153486	135230	143161
35°	138906	123667	129764
40°	120841	111881	116225
45°	103259	99724	103259
50°	90607	87375	90939
55°	79061	73613	76518
60°	69896	61157	60324
65°	62017	48241	41353
70°	54737	34060	24924
75°	46619	19296	12052
80°	34758	5998	3567
85°	19121	2390	2390



TEST NUMBER: P593353  
 CATALOG NUMBER: HCC6W50D010SL-HM64560850-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.6	4.8
10°-20°	785.9	13.9
20°-30°	1147.9	20.3
30°-40°	1203.8	21.3
40°-50°	1014.2	17.9
50°-60°	710.6	12.6
60°-70°	381.0	6.7
70°-80°	127.8	2.3
80°-90°	13.9	0.2
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°	2202.4	39.0
0°-40°	3406.2	60.2
0°-60°	5131.0	90.8
0°-90°	5653.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5653.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2800	2800	2800	2800	2800	
5°	2804	2816	2819	2819	2819	270
15°	2884	2846	2762	2747	2762	813
25°	2683	2569	2406	2448	2520	1229
35°	2076	1969	1848	1901	1939	1288
45°	1332	1309	1286	1320	1332	1038
55°	827	801	770	786	801	745
65°	478	436	372	307	319	477
75°	220	171	91	57	57	233
85°	30	15	4	4	4	42
90°	0	0	0	0	0	



TEST NUMBER: P593353

CATALOG NUMBER: HCC6W50D010SL-HM64560850-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2800.4	2800.4	2800.4	2800.4	2800.4	2800.4	2800.4	2800.4	2800.4
2.5°	2781.4	2781.4	2789.0	2796.6	2804.2	2804.2	2807.9	2811.7	2807.9
5°	2804.2	2804.2	2815.5	2819.4	2819.4	2815.5	2819.4	2819.4	2819.4
7.5°	2838.3	2830.7	2834.5	2827.0	2819.4	2815.5	2811.7	2811.7	2811.7
10°	2849.8	2842.1	2834.5	2819.4	2800.4	2789.0	2785.2	2789.0	2789.0
12.5°	2864.9	2857.3	2838.3	2807.9	2785.2	2766.3	2762.5	2770.0	2770.0
15°	2883.9	2876.3	2846.0	2796.6	2762.5	2743.5	2747.2	2754.8	2762.5
17.5°	2883.9	2868.6	2819.4	2754.8	2713.1	2694.1	2709.3	2728.3	2739.7
20°	2838.3	2823.2	2754.8	2675.2	2625.8	2614.5	2641.1	2675.2	2686.5
22.5°	2777.6	2747.2	2667.5	2572.7	2519.5	2519.5	2557.6	2599.3	2614.5
25°	2682.8	2660.0	2568.9	2458.8	2405.7	2401.9	2447.5	2504.4	2519.5
27.5°	2576.5	2546.1	2447.5	2333.7	2276.7	2280.5	2329.9	2386.8	2401.9
30°	2424.7	2386.8	2299.5	2189.5	2136.3	2151.5	2200.8	2242.6	2261.6
32.5°	2253.9	2219.8	2140.1	2037.7	1992.1	2007.3	2049.0	2087.1	2102.2
35°	2075.6	2037.7	1969.3	1878.3	1847.9	1863.1	1901.1	1931.4	1939.0
37.5°	1874.5	1847.9	1798.7	1726.5	1703.7	1722.7	1753.1	1772.1	1779.6
40°	1688.6	1665.8	1624.1	1571.0	1563.4	1578.5	1608.9	1620.3	1624.1
42.5°	1506.5	1487.5	1460.9	1423.0	1423.0	1438.1	1464.7	1472.2	1476.1
45°	1331.9	1320.5	1309.1	1278.8	1286.3	1305.4	1320.5	1331.9	1331.9
47.5°	1180.1	1184.0	1168.7	1145.9	1153.6	1172.5	1184.0	1195.3	1195.3
50°	1062.4	1051.1	1036.0	1013.2	1024.5	1039.8	1054.9	1062.4	1066.3
52.5°	925.9	922.1	910.7	884.1	891.8	899.3	914.4	925.9	929.7
55°	827.2	815.8	800.6	770.2	770.2	777.9	785.5	793.0	800.6
57.5°	732.3	721.0	698.2	664.1	660.3	660.3	656.4	664.1	675.4
60°	637.5	633.7	599.6	569.2	557.8	546.4	531.2	535.0	550.2
62.5°	554.0	546.4	516.1	478.1	455.4	436.4	417.4	413.6	428.8
65°	478.1	470.5	436.4	398.5	371.9	337.8	307.4	307.4	318.8
67.5°	409.8	394.7	364.2	322.5	288.4	246.6	216.2	223.9	227.7
70°	341.5	330.1	296.0	254.3	212.5	170.8	151.8	155.5	155.5
72.5°	280.8	265.6	231.5	189.8	148.0	110.1	102.5	98.6	98.6
75°	220.1	204.9	170.8	129.0	91.1	64.5	56.9	56.9	56.9
77.5°	159.3	148.0	117.6	79.7	49.4	30.4	26.6	22.8	22.8
80°	110.1	98.6	72.0	41.7	19.0	11.3	11.3	11.3	11.3
82.5°	64.5	53.1	34.1	19.0	7.6	3.8	3.8	3.8	3.8
85°	30.4	22.8	15.2	7.6	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)