

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: P582746

Luminaire Tested: **HCC6W50D010MW-HM64560835-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582746  
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: HCC6W50D010MW-HM64560835-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

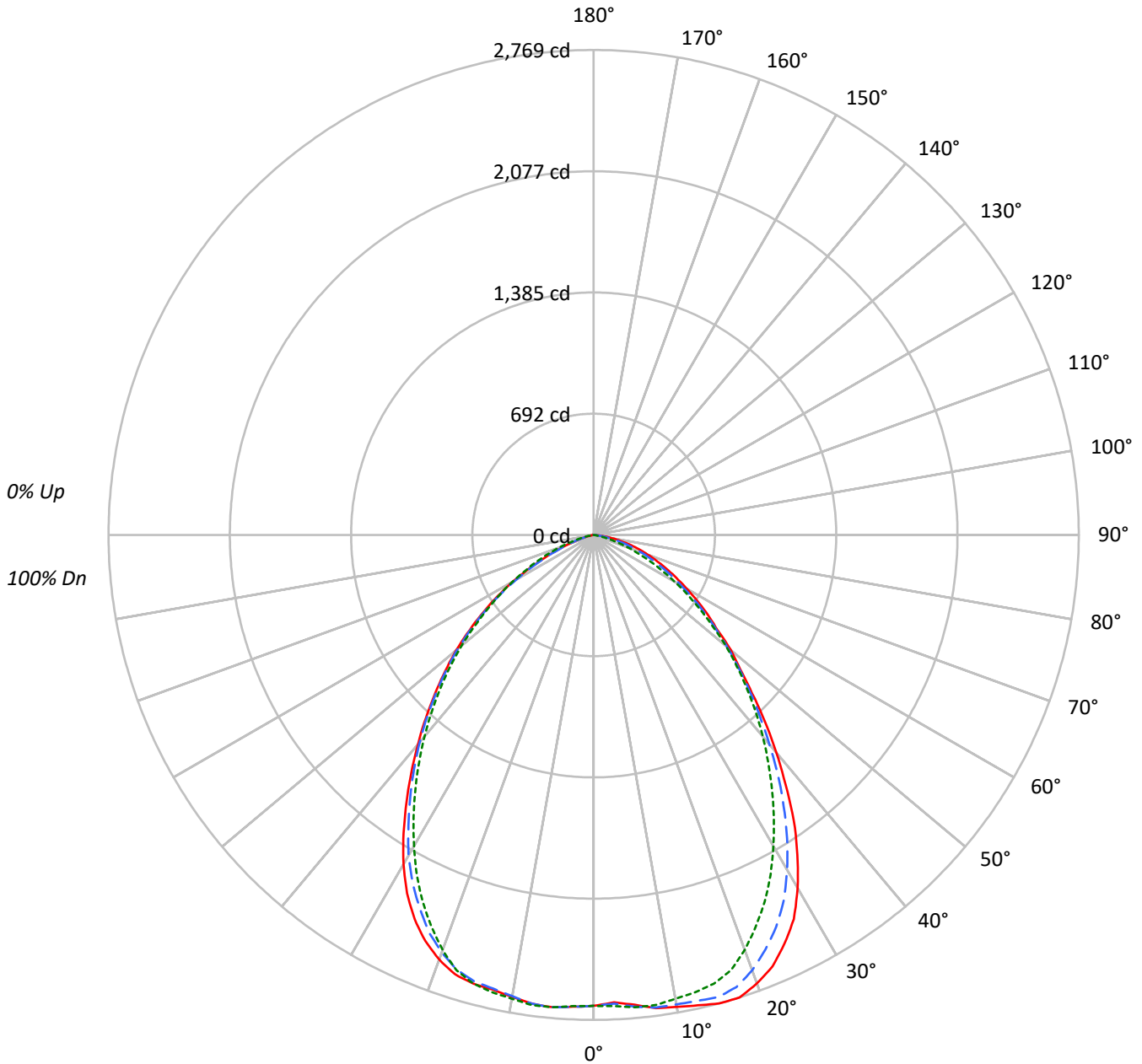
Lumens per Lamp: N/A  
Luminaire Lumens: 5429.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582746  
CATALOG NUMBER: HCC6W50D010MW-HM64560835-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582746

CATALOG NUMBER: HCC6W50D010MW-HM64560835-61RWWC

**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	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°	147417	147417	147417
5°	148184	148982	148982
10°	152330	149691	149084
15°	157169	150546	150546
20°	159001	147106	150501
25°	155821	139738	146349
30°	147383	129855	137471
35°	133391	118762	124611
40°	116039	107437	111602
45°	99158	95762	99158
50°	87016	83903	87323
55°	75916	70698	73479
60°	67111	58723	57934
65°	59565	46321	39706
70°	52573	32714	23946
75°	44776	18512	11586
80°	33369	5746	3473
85°	18367	2327	2327



TEST NUMBER: P582746  
 CATALOG NUMBER: HCC6W50D010MW-HM64560835-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	4.8
10°-20°	754.7	13.9
20°-30°	1102.3	20.3
30°-40°	1156.0	21.3
40°-50°	973.9	17.9
50°-60°	682.3	12.6
60°-70°	365.8	6.7
70°-80°	122.7	2.3
80°-90°	13.4	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°	2114.9	39.0
0°-40°	3270.9	60.2
0°-60°	4927.1	90.8
0°-90°	5429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2689	2689	2689	2689	2689	
5°	2693	2704	2707	2707	2707	259
15°	2769	2733	2653	2638	2653	781
25°	2576	2467	2310	2350	2420	1180
35°	1993	1891	1775	1826	1862	1237
45°	1279	1257	1235	1268	1279	996
55°	794	769	740	754	769	715
65°	459	419	357	295	306	458
75°	211	164	87	55	55	224
85°	29	14	4	4	4	40
90°	0	0	0	0	0	

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



TEST NUMBER: P582746

CATALOG NUMBER: HCC6W50D010MW-HM64560835-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1	2689.1
2.5°	2670.9	2670.9	2678.2	2685.5	2692.8	2692.8	2696.5	2700.0	2696.5
5°	2692.8	2692.8	2703.7	2707.3	2707.3	2703.7	2707.3	2707.3	2707.3
7.5°	2725.5	2718.3	2722.0	2714.6	2707.3	2703.7	2700.0	2700.0	2700.0
10°	2736.5	2729.2	2722.0	2707.3	2689.1	2678.2	2674.5	2678.2	2678.2
12.5°	2751.0	2743.8	2725.5	2696.5	2674.5	2656.3	2652.6	2660.0	2660.0
15°	2769.3	2762.0	2732.8	2685.5	2652.6	2634.5	2638.1	2645.4	2652.6
17.5°	2769.3	2754.7	2707.3	2645.4	2605.3	2587.1	2601.6	2619.9	2630.8
20°	2725.5	2711.0	2645.4	2568.9	2521.6	2510.6	2536.1	2568.9	2579.8
22.5°	2667.3	2638.1	2561.6	2470.5	2419.5	2419.5	2455.9	2496.0	2510.6
25°	2576.1	2554.3	2466.9	2361.2	2310.2	2306.5	2350.2	2404.9	2419.5
27.5°	2474.1	2445.0	2350.2	2240.9	2186.3	2189.9	2237.3	2292.0	2306.5
30°	2328.3	2292.0	2208.1	2102.4	2051.4	2066.0	2113.4	2153.4	2171.7
32.5°	2164.4	2131.6	2055.1	1956.7	1913.0	1927.5	1967.7	2004.0	2018.7
35°	1993.2	1956.7	1891.1	1803.6	1774.6	1789.1	1825.6	1854.6	1862.0
37.5°	1800.1	1774.6	1727.2	1657.9	1636.0	1654.2	1683.4	1701.7	1708.9
40°	1621.5	1599.7	1559.5	1508.5	1501.3	1515.8	1545.0	1555.8	1559.5
42.5°	1446.6	1428.4	1402.9	1366.4	1366.4	1380.9	1406.5	1413.8	1417.4
45°	1279.0	1268.0	1257.1	1228.0	1235.2	1253.5	1268.0	1279.0	1279.0
47.5°	1133.2	1136.8	1122.3	1100.5	1107.7	1126.0	1136.8	1147.8	1147.8
50°	1020.3	1009.3	994.8	972.9	983.8	998.4	1012.9	1020.3	1023.9
52.5°	889.1	885.4	874.5	849.0	856.3	863.5	878.2	889.1	892.7
55°	794.3	783.4	768.8	739.7	739.7	747.0	754.3	761.5	768.8
57.5°	703.3	692.3	670.5	637.6	634.1	634.1	630.4	637.6	648.6
60°	612.1	608.6	575.7	546.6	535.6	524.7	510.1	513.7	528.4
62.5°	532.0	524.7	495.5	459.2	437.2	419.0	400.8	397.2	411.7
65°	459.2	451.9	419.0	382.6	357.1	324.3	295.1	295.1	306.1
67.5°	393.5	379.0	349.8	309.8	276.9	236.8	207.7	214.9	218.6
70°	328.0	317.0	284.3	244.1	204.1	163.9	145.7	149.4	149.4
72.5°	269.6	255.1	222.3	182.2	142.1	105.7	98.4	94.7	94.7
75°	211.4	196.8	163.9	123.9	87.4	62.0	54.7	54.7	54.7
77.5°	153.1	142.1	112.9	76.5	47.4	29.2	25.5	21.8	21.8
80°	105.7	94.7	69.2	40.0	18.2	11.0	11.0	11.0	11.0
82.5°	62.0	51.0	32.8	18.2	7.3	3.7	3.7	3.7	3.7
85°	29.2	21.8	14.5	7.3	3.7	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	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)