

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: P593317

Luminaire Tested: **HCC6W45D010SL-HM64560850-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593317  
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: HCC6W45D010SL-HM64560850-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

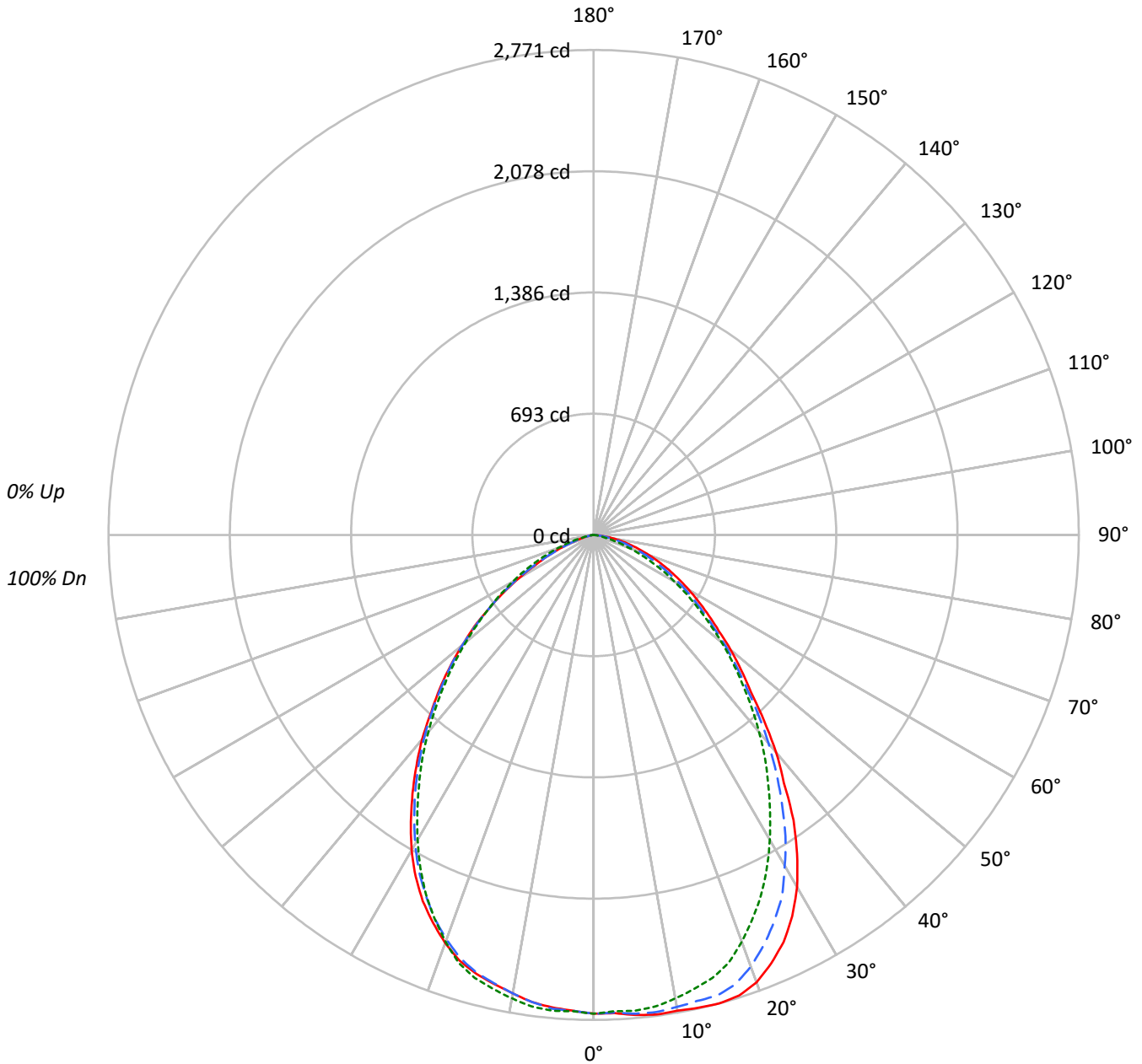
Lumens per Lamp: N/A  
Luminaire Lumens: 5360.1 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P593317  
CATALOG NUMBER: HCC6W45D010SL-HM64560850-61RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593317

CATALOG NUMBER: HCC6W45D010SL-HM64560850-61RWWH

**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	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°	149955	149955	149955
5°	151518	150137	149147
10°	153666	149680	148077
15°	157282	148735	147311
20°	158745	144312	144732
25°	155271	137052	139653
30°	147054	127311	131628
35°	133164	116359	120689
40°	115967	105190	109040
45°	98398	93110	96452
50°	87144	81328	83477
55°	76748	69551	69216
60°	68788	58570	53844
65°	61381	46970	38603
70°	54016	33900	24139
75°	45560	20503	13662
80°	35074	9060	5651
85°	20316	2264	2264



TEST NUMBER: P593317  
 CATALOG NUMBER: HCC6W45D010SL-HM64560850-61RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	4.8
10°-20°	746.3	13.9
20°-30°	1078.8	20.1
30°-40°	1135.1	21.2
40°-50°	954.2	17.8
50°-60°	669.7	12.5
60°-70°	368.4	6.9
70°-80°	130.8	2.4
80°-90°	17.1	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°	2084.7	38.9
0°-40°	3219.8	60.1
0°-60°	4843.7	90.4
0°-90°	5360.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5360.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2735	2735	2735	2735	2735	
5°	2753	2746	2728	2718	2710	263
15°	2771	2725	2621	2588	2596	782
25°	2567	2438	2266	2269	2309	1174
35°	1990	1875	1739	1775	1803	1233
45°	1269	1233	1201	1230	1244	996
55°	803	760	728	728	724	723
65°	473	423	362	298	298	471
75°	215	172	97	64	64	231
85°	32	18	4	4	4	44
90°	0	0	0	0	0	

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



TEST NUMBER: P593317

CATALOG NUMBER: HCC6W45D010SL-HM64560850-61RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4
2.5°	2735.4	2735.4	2731.9	2731.9	2724.6	2724.6	2721.1	2721.1	2721.1
5°	2753.4	2753.4	2746.2	2735.4	2728.3	2717.5	2717.5	2714.0	2710.3
7.5°	2764.2	2760.5	2749.7	2735.4	2717.5	2699.7	2692.4	2696.0	2692.4
10°	2760.5	2753.4	2739.1	2710.3	2688.9	2663.8	2660.1	2656.6	2660.1
12.5°	2767.7	2757.0	2728.3	2692.4	2656.6	2627.9	2624.4	2624.4	2627.9
15°	2771.3	2760.5	2724.6	2670.9	2620.7	2592.1	2588.5	2592.1	2595.6
17.5°	2760.5	2746.2	2692.4	2620.7	2563.4	2534.7	2534.7	2541.9	2549.0
20°	2721.1	2699.7	2624.4	2538.3	2473.7	2452.3	2459.4	2473.7	2480.9
22.5°	2649.5	2624.4	2538.3	2441.5	2373.3	2355.4	2373.3	2391.3	2398.4
25°	2567.0	2538.3	2437.8	2337.6	2265.8	2244.3	2269.4	2298.0	2308.8
27.5°	2455.8	2423.5	2330.3	2215.6	2143.9	2133.1	2161.8	2194.1	2201.3
30°	2323.1	2287.4	2183.3	2075.7	2011.2	2007.7	2040.0	2068.6	2079.4
32.5°	2161.8	2129.6	2040.0	1932.4	1875.0	1875.0	1907.3	1932.4	1943.2
35°	1989.8	1953.9	1875.0	1785.4	1738.7	1742.4	1774.6	1792.6	1803.4
37.5°	1785.4	1774.6	1713.6	1638.4	1606.2	1613.3	1638.4	1652.8	1663.5
40°	1620.5	1591.8	1552.3	1491.5	1469.9	1477.0	1502.1	1516.5	1523.7
42.5°	1441.3	1423.3	1391.1	1348.0	1333.7	1344.4	1366.0	1376.6	1373.1
45°	1269.2	1265.5	1233.3	1208.2	1201.0	1215.3	1229.7	1240.4	1244.1
47.5°	1143.7	1129.4	1100.6	1082.7	1075.5	1089.8	1104.3	1111.4	1111.4
50°	1021.8	1007.4	978.8	960.8	953.6	968.0	978.8	985.9	978.8
52.5°	899.9	885.5	860.4	838.9	835.3	842.4	846.1	849.7	856.9
55°	803.0	788.7	760.1	735.0	727.7	731.4	727.7	727.7	724.2
57.5°	709.9	695.5	666.9	638.1	627.4	623.8	613.0	609.5	605.9
60°	627.4	609.5	580.8	548.5	534.2	519.9	501.9	491.1	491.1
62.5°	548.5	530.5	498.3	469.7	448.1	423.1	394.4	380.1	380.1
65°	473.2	458.9	423.1	390.7	362.1	329.8	297.6	290.4	297.6
67.5°	401.5	387.2	351.3	319.1	283.3	243.7	215.1	215.1	222.3
70°	337.0	322.7	290.4	250.9	211.5	172.1	150.6	150.6	150.6
72.5°	276.0	261.7	225.9	190.0	150.6	111.1	100.4	103.9	100.4
75°	215.1	204.3	172.1	132.7	96.8	68.2	64.5	61.0	64.5
77.5°	161.3	150.6	121.9	86.1	53.7	39.4	35.9	35.9	35.9
80°	111.1	100.4	78.8	50.2	28.7	17.9	17.9	17.9	17.9
82.5°	68.2	57.4	43.0	25.1	10.8	10.8	10.8	10.8	10.8
85°	32.3	25.1	17.9	7.2	3.6	3.6	3.6	3.6	3.6
87.5°	7.2	7.2	3.6	3.6	0.0	3.6	3.6	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)