

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: P582620

Luminaire Tested: **HCC6S45D010MW-HM64560840-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582620  
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: HCC6S45D010MW-HM64560840-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

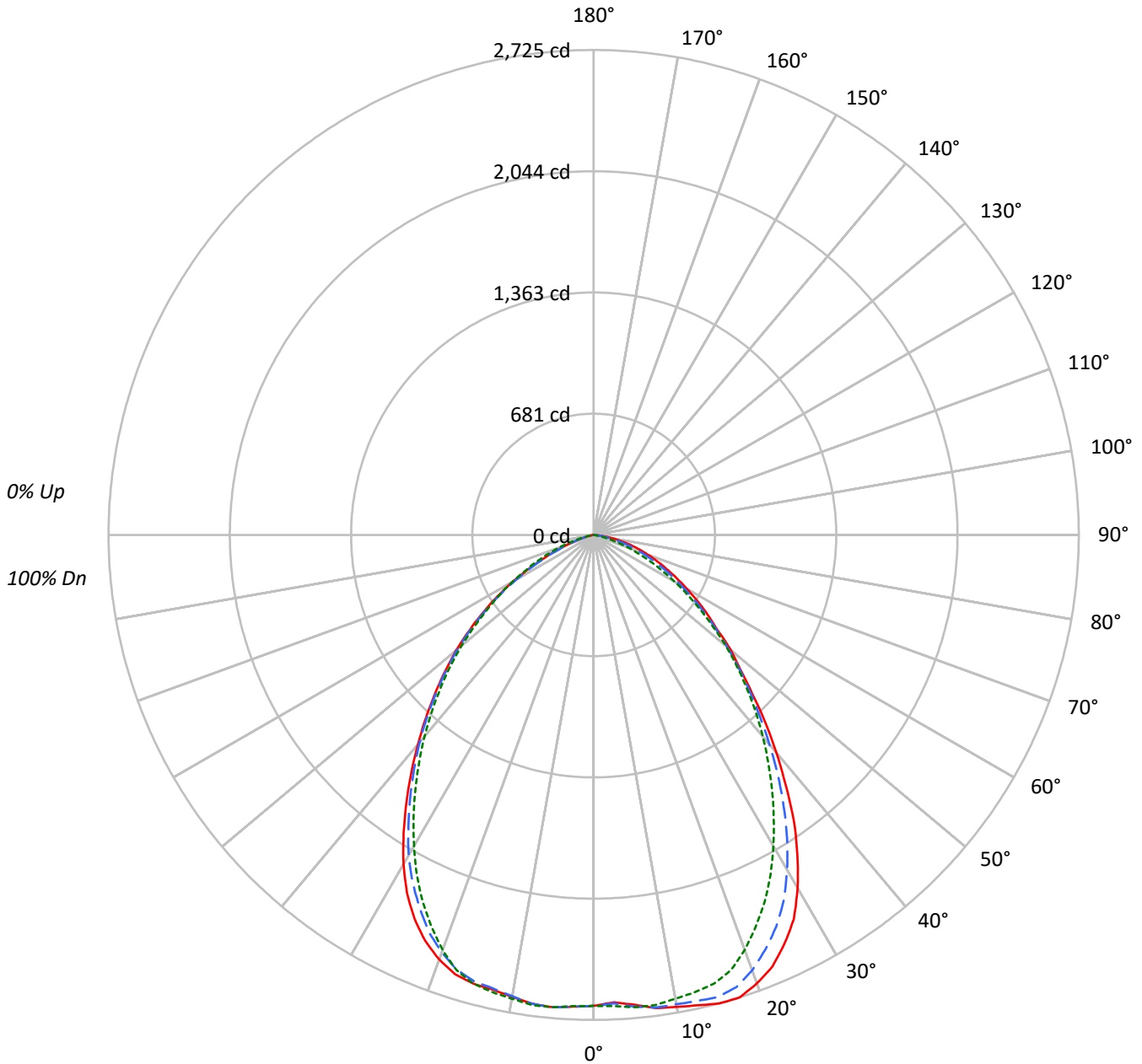
Lumens per Lamp: N/A  
Luminaire Lumens: 5342.2 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P582620  
CATALOG NUMBER: HCC6S45D010MW-HM64560840-61RWWC

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582620

CATALOG NUMBER: HCC6S45D010MW-HM64560840-61RWWC

**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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	145060	145060	145060
5°	145812	146599	146599
10°	149891	147297	146702
15°	154655	148145	148145
20°	156458	144743	148092
25°	153335	137500	144002
30°	145029	127779	135274
35°	131256	116854	122616
40°	114178	105720	109820
45°	97568	94235	97568
50°	85626	82564	85925
55°	74712	69560	72313
60°	66036	57780	57002
65°	58593	45582	39070
70°	51723	32185	23562
75°	44056	18237	11395
80°	32801	5651	3410
85°	18052	2264	2264



TEST NUMBER: P582620  
 CATALOG NUMBER: HCC6S45D010MW-HM64560840-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.8	4.8
10°-20°	742.6	13.9
20°-30°	1084.6	20.3
30°-40°	1137.5	21.3
40°-50°	958.3	17.9
50°-60°	671.4	12.6
60°-70°	360.0	6.7
70°-80°	120.7	2.3
80°-90°	13.2	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°	2081.1	39.0
0°-40°	3218.6	60.2
0°-60°	4848.3	90.8
0°-90°	5342.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5342.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2646	2646	2646	2646	2646	
5°	2650	2660	2664	2664	2664	255
15°	2725	2689	2610	2596	2610	769
25°	2535	2427	2273	2313	2381	1161
35°	1961	1861	1746	1796	1832	1217
45°	1258	1237	1216	1248	1258	980
55°	782	757	728	742	757	704
65°	452	412	351	290	301	451
75°	208	161	86	54	54	221
85°	29	14	4	4	4	39
90°	0	0	0	0	0	

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



TEST NUMBER: P582620

CATALOG NUMBER: HCC6S45D010MW-HM64560840-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1	2646.1
2.5°	2628.2	2628.2	2635.4	2642.5	2649.7	2649.7	2653.3	2656.8	2653.3
5°	2649.7	2649.7	2660.5	2664.0	2664.0	2660.5	2664.0	2664.0	2664.0
7.5°	2681.9	2674.8	2678.3	2671.2	2664.0	2660.5	2656.8	2656.8	2656.8
10°	2692.7	2685.6	2678.3	2664.0	2646.1	2635.4	2631.7	2635.4	2635.4
12.5°	2707.0	2699.9	2681.9	2653.3	2631.7	2613.8	2610.3	2617.4	2617.4
15°	2725.0	2717.8	2689.1	2642.5	2610.3	2592.3	2595.8	2603.1	2610.3
17.5°	2725.0	2710.7	2664.0	2603.1	2563.6	2545.8	2560.1	2578.0	2588.7
20°	2681.9	2667.6	2603.1	2527.8	2481.1	2470.5	2495.6	2527.8	2538.5
22.5°	2624.6	2595.8	2520.7	2430.9	2380.7	2380.7	2416.6	2456.0	2470.5
25°	2535.0	2513.4	2427.4	2323.4	2273.2	2269.6	2312.7	2366.4	2380.7
27.5°	2434.6	2405.8	2312.7	2205.1	2151.3	2154.9	2201.5	2255.3	2269.6
30°	2291.1	2255.3	2172.9	2068.8	2018.6	2032.9	2079.6	2119.0	2137.0
32.5°	2129.8	2097.6	2022.3	1925.4	1882.4	1896.7	1936.2	1972.0	1986.4
35°	1961.3	1925.4	1860.8	1774.9	1746.1	1760.4	1796.3	1825.1	1832.2
37.5°	1771.2	1746.1	1699.6	1631.4	1609.9	1627.8	1656.5	1674.5	1681.6
40°	1595.5	1574.0	1534.6	1484.4	1477.3	1491.6	1520.2	1531.0	1534.6
42.5°	1423.4	1405.5	1380.4	1344.6	1344.6	1358.9	1384.0	1391.2	1394.8
45°	1258.5	1247.7	1237.0	1208.3	1215.5	1233.4	1247.7	1258.5	1258.5
47.5°	1115.1	1118.7	1104.4	1082.8	1090.0	1107.9	1118.7	1129.5	1129.5
50°	1004.0	993.2	978.9	957.3	968.1	982.4	996.8	1004.0	1007.5
52.5°	874.8	871.3	860.5	835.4	842.6	849.7	864.1	874.8	878.5
55°	781.7	770.9	756.6	727.8	727.8	735.0	742.2	749.3	756.6
57.5°	692.0	681.3	659.7	627.4	623.9	623.9	620.3	627.4	638.2
60°	602.3	598.8	566.6	537.8	527.0	516.4	501.9	505.6	519.9
62.5°	523.5	516.4	487.6	451.7	430.3	412.3	394.4	390.8	405.2
65°	451.7	444.6	412.3	376.5	351.4	319.1	290.4	290.4	301.2
67.5°	387.2	372.9	344.2	304.7	272.5	233.1	204.3	211.5	215.1
70°	322.7	311.9	279.6	240.2	200.8	161.4	143.5	147.0	147.0
72.5°	265.3	251.0	218.8	179.2	139.8	103.9	96.8	93.3	93.3
75°	208.0	193.7	161.4	121.9	86.1	61.0	53.8	53.8	53.8
77.5°	150.6	139.8	111.2	75.3	46.6	28.7	25.1	21.5	21.5
80°	103.9	93.3	68.2	39.4	17.9	10.8	10.8	10.8	10.8
82.5°	61.0	50.2	32.3	17.9	7.2	3.6	3.6	3.6	3.6
85°	28.7	21.5	14.3	7.2	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	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)