

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: P582710

Luminaire Tested: **HCC6W50D010SL-HM64560827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582710
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-HM64560827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

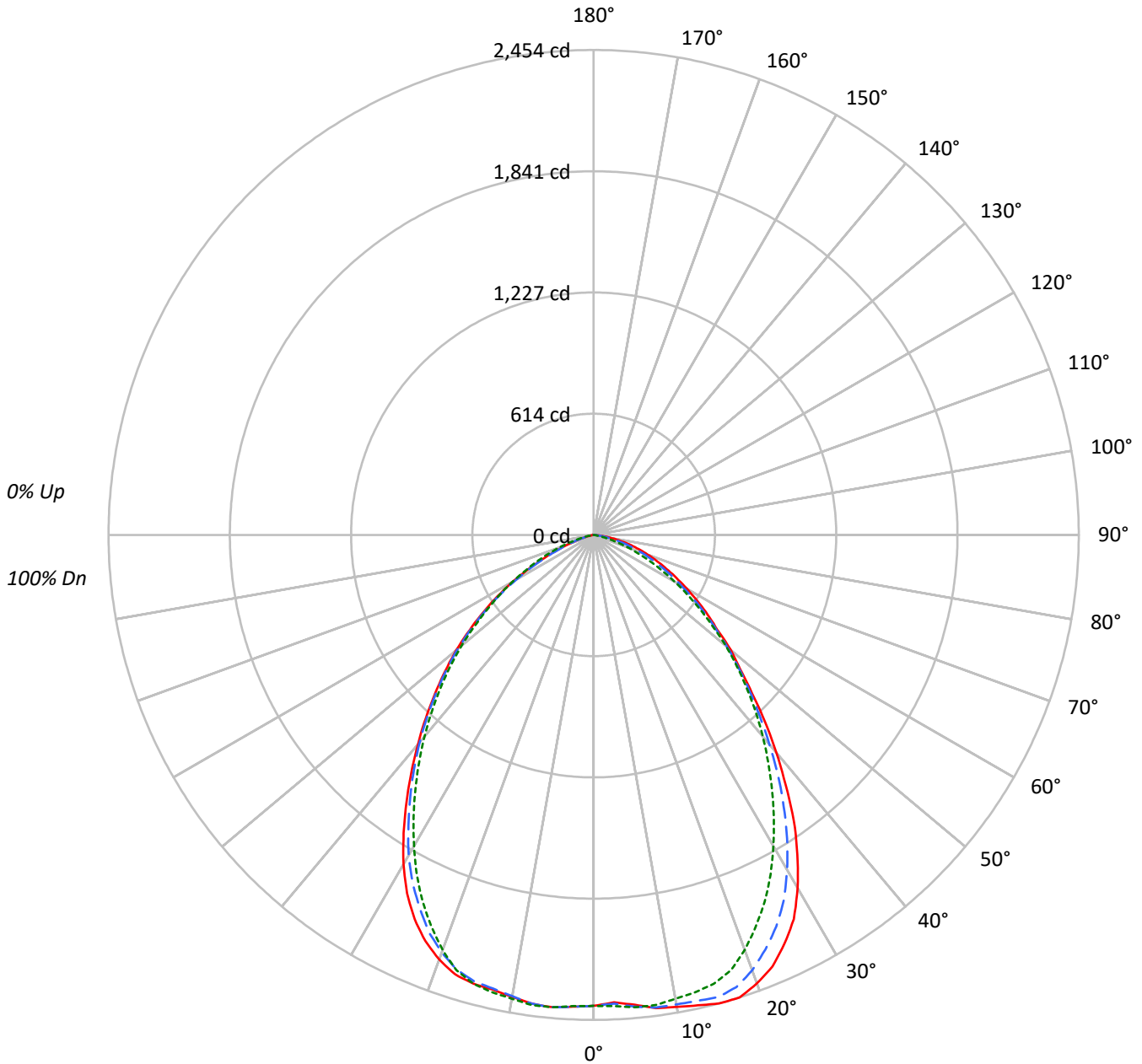
Lumens per Lamp: N/A
Luminaire Lumens: 4811.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): 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: P582710
CATALOG NUMBER: HCC6W50D010SL-HM64560827-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P582710

CATALOG NUMBER: HCC6W50D010SL-HM64560827-61RWWC

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°	130642	130642	130642
5°	131317	132032	132032
10°	134995	132657	132123
15°	139286	133423	133423
20°	140911	130363	133379
25°	138093	123836	129697
30°	130615	115081	121829
35°	118213	105243	110430
40°	102836	95207	98907
45°	87870	84869	87870
50°	77115	74360	77388
55°	67286	62660	65116
60°	59491	52035	51345
65°	52781	41055	35192
70°	46578	28979	21222
75°	39672	16415	10252
80°	29581	5114	3062
85°	16291	2013	2013

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P582710

CATALOG NUMBER: HCC6W50D010SL-HM64560827-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.6	4.8
10°-20°	668.8	13.9
20°-30°	976.8	20.3
30°-40°	1024.5	21.3
40°-50°	863.1	17.9
50°-60°	604.7	12.6
60°-70°	324.2	6.7
70°-80°	108.7	2.3
80°-90°	11.8	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°	1874.3	39.0
0°-40°	2898.7	60.2
0°-60°	4366.5	90.8
0°-90°	4811.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2383	2383	2383	2383	2383	
5°	2386	2396	2399	2399	2399	229
15°	2454	2422	2351	2338	2351	692
25°	2283	2186	2047	2083	2144	1046
35°	1766	1676	1573	1618	1650	1096
45°	1133	1114	1095	1124	1133	883
55°	704	681	656	668	681	634
65°	407	371	316	262	271	406
75°	187	145	78	48	48	199
85°	26	13	3	3	3	36
90°	0	0	0	0	0	



TEST NUMBER: P582710

CATALOG NUMBER: HCC6W50D010SL-HM64560827-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1	2383.1
2.5°	2367.0	2367.0	2373.5	2380.0	2386.3	2386.3	2389.6	2392.8	2389.6
5°	2386.3	2386.3	2396.0	2399.3	2399.3	2396.0	2399.3	2399.3	2399.3
7.5°	2415.4	2409.0	2412.2	2405.7	2399.3	2396.0	2392.8	2392.8	2392.8
10°	2425.1	2418.7	2412.2	2399.3	2383.1	2373.5	2370.3	2373.5	2373.5
12.5°	2438.1	2431.6	2415.4	2389.6	2370.3	2354.1	2350.9	2357.3	2357.3
15°	2454.2	2447.7	2421.9	2380.0	2350.9	2334.7	2337.9	2344.4	2350.9
17.5°	2454.2	2441.2	2399.3	2344.4	2308.9	2292.7	2305.7	2321.7	2331.5
20°	2415.4	2402.5	2344.4	2276.6	2234.6	2224.9	2247.6	2276.6	2286.3
22.5°	2363.8	2337.9	2270.1	2189.3	2144.2	2144.2	2176.5	2212.0	2224.9
25°	2283.0	2263.6	2186.1	2092.5	2047.3	2044.1	2082.8	2131.2	2144.2
27.5°	2192.6	2166.8	2082.8	1986.0	1937.5	1940.7	1982.7	2031.2	2044.1
30°	2063.4	2031.2	1956.9	1863.3	1818.0	1830.9	1872.9	1908.5	1924.6
32.5°	1918.2	1889.1	1821.2	1734.1	1695.3	1708.2	1743.7	1776.1	1789.0
35°	1766.4	1734.1	1676.0	1598.5	1572.6	1585.5	1617.9	1643.6	1650.1
37.5°	1595.2	1572.6	1530.6	1469.3	1449.9	1466.1	1491.8	1508.0	1514.5
40°	1437.0	1417.6	1382.1	1336.9	1330.4	1343.4	1369.1	1378.8	1382.1
42.5°	1282.0	1265.8	1243.2	1211.0	1211.0	1223.9	1246.4	1252.9	1256.1
45°	1133.4	1123.7	1114.0	1088.3	1094.7	1110.8	1123.7	1133.4	1133.4
47.5°	1004.3	1007.5	994.6	975.3	981.6	997.8	1007.5	1017.2	1017.2
50°	904.2	894.5	881.6	862.2	871.9	884.8	897.7	904.2	907.4
52.5°	788.0	784.7	775.0	752.4	758.9	765.3	778.3	788.0	791.2
55°	704.0	694.3	681.3	655.6	655.6	662.0	668.4	674.9	681.3
57.5°	623.2	613.5	594.2	565.1	561.9	561.9	558.6	565.1	574.8
60°	542.6	539.2	510.2	484.3	474.6	465.0	452.1	455.3	468.3
62.5°	471.5	465.0	439.2	406.9	387.5	371.3	355.2	351.9	364.9
65°	406.9	400.5	371.3	339.1	316.5	287.5	261.6	261.6	271.3
67.5°	348.7	335.9	310.0	274.5	245.4	209.9	184.1	190.5	193.8
70°	290.6	281.0	251.9	216.4	180.8	145.3	129.2	132.4	132.4
72.5°	238.9	226.0	197.0	161.4	125.9	93.7	87.2	84.0	84.0
75°	187.3	174.4	145.3	109.8	77.5	54.9	48.4	48.4	48.4
77.5°	135.6	125.9	100.1	67.8	41.9	25.9	22.6	19.4	19.4
80°	93.7	84.0	61.4	35.5	16.2	9.7	9.7	9.7	9.7
82.5°	54.9	45.2	29.1	16.2	6.5	3.2	3.2	3.2	3.2
85°	25.9	19.4	12.9	6.5	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	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)