

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: P582737

Luminaire Tested: **HCC6S50D010MW-HM64560830-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S50D010MW-HM64560830-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

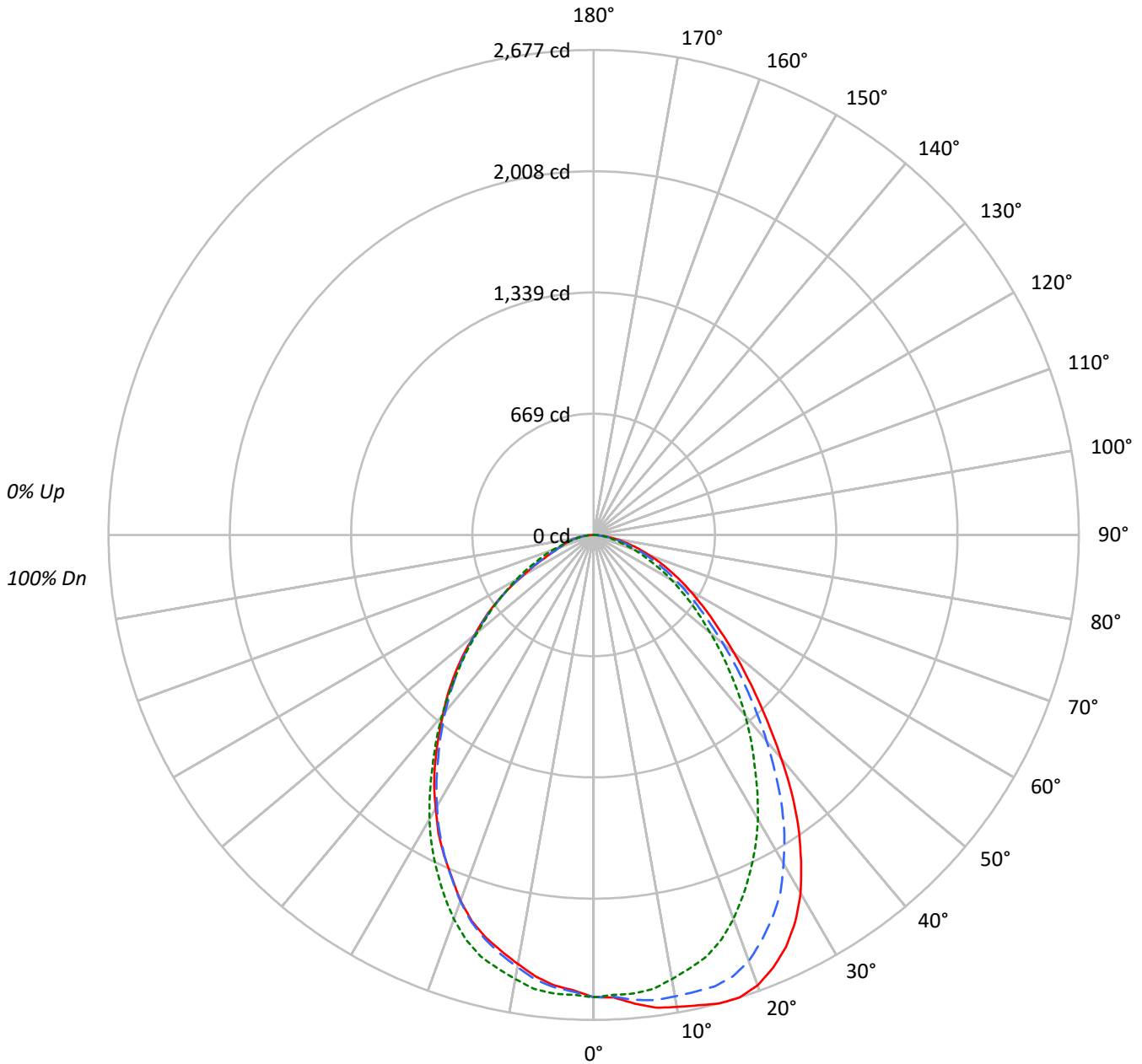
Lumens per Lamp: N/A
Luminaire Lumens: 4997.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): 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: P582737
CATALOG NUMBER: HCC6S50D010MW-HM64560830-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582737

CATALOG NUMBER: HCC6S50D010MW-HM64560830-61WWWB

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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	139885	139885	139885
5°	142912	139841	137348
10°	147281	138552	133888
15°	151936	136709	130574
20°	154352	131576	125270
25°	151817	123769	118077
30°	144529	114739	110327
35°	131812	103577	101951
40°	115244	93053	92552
45°	99181	81884	83776
50°	86215	71349	72833
55°	75295	62631	63300
60°	66881	54272	49678
65°	59682	45673	37981
70°	52525	37442	31832
75°	45031	29547	30267
80°	36305	25319	29707
85°	24153	21889	26292



TEST NUMBER: P582737
 CATALOG NUMBER: HCC6S50D010MW-HM64560830-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	4.8
10°-20°	687.8	13.8
20°-30°	981.8	19.6
30°-40°	1028.4	20.6
40°-50°	865.9	17.3
50°-60°	616.3	12.3
60°-70°	360.7	7.2
70°-80°	170.7	3.4
80°-90°	43.9	0.9
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°	1911.2	38.2
0°-40°	2939.6	58.8
0°-60°	4421.7	88.5
0°-90°	4997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4997.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2552	2552	2552	2552	2552	
5°	2597	2576	2541	2506	2496	250
15°	2677	2580	2409	2311	2301	756
25°	2510	2332	2046	1949	1952	1149
35°	1970	1806	1548	1495	1523	1223
45°	1279	1185	1056	1060	1081	993
55°	788	722	655	655	662	710
65°	460	408	352	296	293	459
75°	213	178	140	136	143	228
85°	38	31	35	42	42	50
90°	0	0	0	0	0	

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



TEST NUMBER: P582737

CATALOG NUMBER: HCC6S50D010MW-HM64560830-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7	2551.7
2.5°	2555.1	2555.1	2551.7	2548.1	2541.2	2530.8	2523.8	2516.8	2516.8
5°	2597.0	2590.1	2576.0	2558.6	2541.2	2520.3	2506.3	2495.9	2495.9
7.5°	2631.9	2617.9	2590.1	2558.6	2527.2	2499.4	2474.9	2461.0	2457.5
10°	2645.8	2628.3	2586.5	2537.7	2489.0	2450.6	2422.7	2405.2	2405.2
12.5°	2659.7	2638.8	2583.0	2513.3	2450.6	2398.3	2370.4	2356.4	2352.9
15°	2677.1	2649.2	2579.5	2492.4	2408.8	2349.5	2311.1	2300.7	2300.7
17.5°	2677.1	2642.3	2555.1	2447.0	2342.5	2276.3	2241.4	2230.9	2234.5
20°	2645.8	2607.4	2502.9	2370.4	2255.4	2185.7	2150.7	2143.8	2147.3
22.5°	2586.5	2541.2	2422.7	2279.8	2154.3	2081.0	2049.7	2049.7	2046.2
25°	2509.9	2461.0	2332.0	2182.1	2046.2	1973.0	1948.6	1952.1	1952.1
27.5°	2408.8	2359.9	2230.9	2070.6	1934.6	1861.5	1844.0	1851.0	1854.5
30°	2283.2	2230.9	2095.0	1938.1	1812.6	1739.5	1729.0	1739.5	1742.9
32.5°	2129.8	2091.6	1959.0	1798.7	1680.2	1617.5	1614.0	1624.5	1638.4
35°	1969.6	1927.6	1805.6	1659.3	1547.7	1495.4	1495.4	1512.9	1523.4
37.5°	1795.2	1753.4	1641.8	1519.8	1425.7	1376.9	1383.9	1401.4	1404.8
40°	1610.4	1579.1	1485.0	1380.4	1300.3	1261.9	1272.3	1289.8	1293.3
42.5°	1436.2	1408.3	1331.6	1237.5	1178.2	1150.3	1164.2	1185.1	1192.2
45°	1279.3	1248.0	1185.1	1105.1	1056.2	1042.2	1059.7	1073.6	1080.6
47.5°	1136.4	1108.5	1056.2	983.1	948.1	941.1	958.6	965.6	972.6
50°	1010.9	983.1	930.7	864.5	836.6	836.6	850.6	857.5	854.0
52.5°	888.9	864.5	815.7	760.0	742.5	742.5	752.9	756.4	763.4
55°	787.8	763.4	721.6	669.3	655.3	648.4	655.3	655.3	662.3
57.5°	693.7	672.8	634.4	585.7	568.2	561.2	557.8	554.2	561.2
60°	610.0	592.6	550.8	508.9	495.0	477.6	463.7	449.7	453.1
62.5°	533.3	515.9	477.6	435.8	421.7	397.4	379.9	362.6	369.5
65°	460.1	442.8	407.8	373.0	352.1	324.2	296.3	285.8	292.8
67.5°	393.9	379.9	345.1	310.2	292.8	261.5	233.6	233.6	237.0
70°	327.7	313.7	285.8	254.5	233.6	205.6	195.2	198.6	198.6
72.5°	268.4	257.9	230.1	202.2	181.3	163.8	163.8	167.3	170.8
75°	212.6	205.6	177.7	153.4	139.5	129.0	135.9	139.5	142.9
77.5°	163.8	153.4	132.5	115.0	104.5	108.1	115.0	118.6	122.0
80°	115.0	111.6	94.1	83.6	80.2	83.6	90.6	94.1	94.1
82.5°	73.2	69.7	59.3	55.7	55.7	59.3	66.3	66.3	66.3
85°	38.4	34.8	31.4	31.4	34.8	38.4	41.8	41.8	41.8
87.5°	13.9	10.5	13.9	13.9	17.5	17.5	17.5	17.5	17.5
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)