

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: P582836

Luminaire Tested: **HCC6W50D010BZ-HM64560940-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582836
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: HCC6W50D010BZ-HM64560940-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

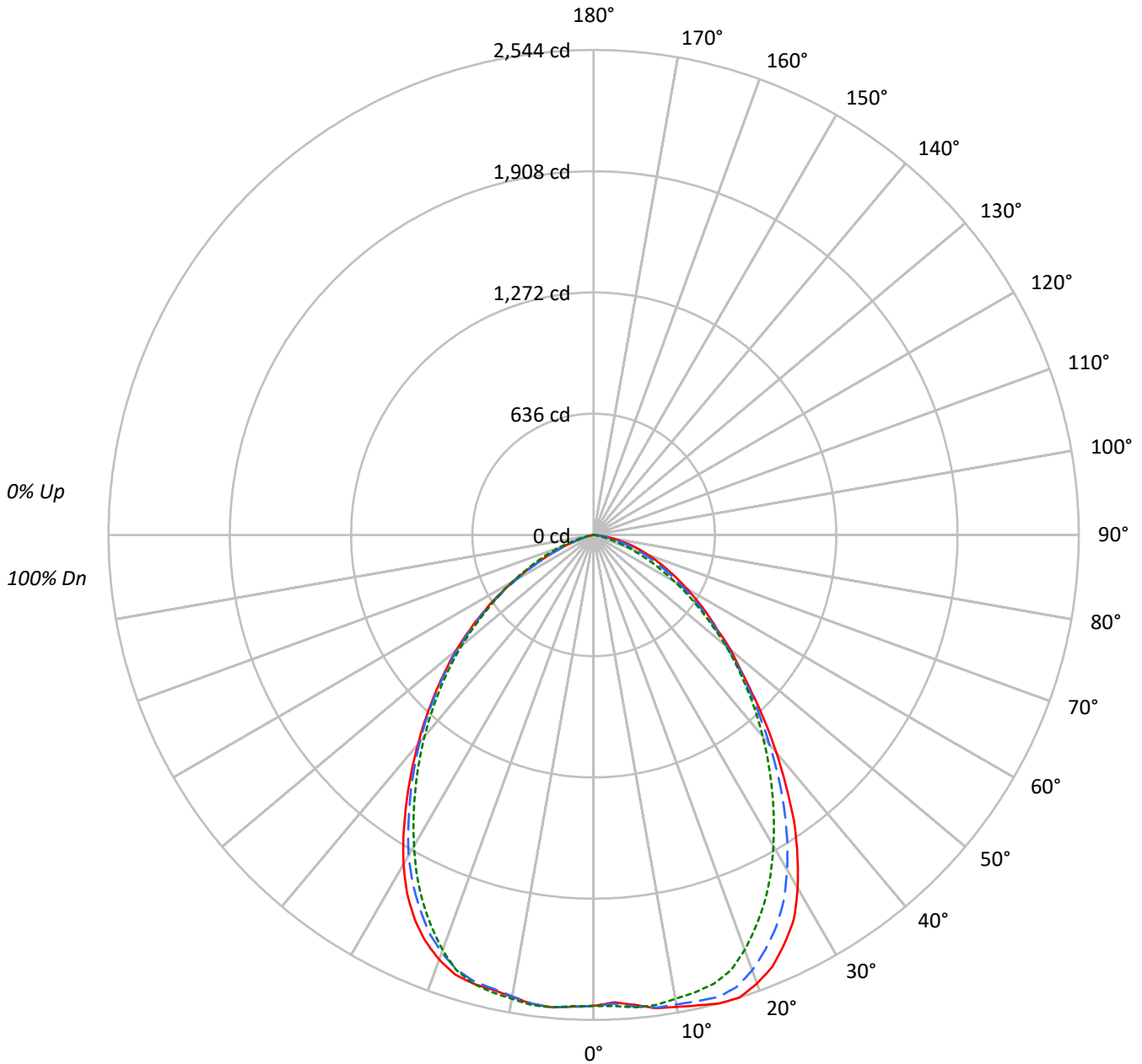
Lumens per Lamp: N/A
Luminaire Lumens: 4988.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582836
CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P582836

CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61RWWC

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°	135450	135450	135450
5°	136154	136886	136886
10°	139961	137539	136977
15°	144411	138327	138327
20°	146097	135158	138285
25°	143180	128390	134469
30°	135426	119316	126311
35°	122563	109118	114492
40°	106614	98714	102542
45°	91102	87986	91102
50°	79955	77089	80236
55°	69761	64963	67524
60°	61673	53954	53230
65°	54727	42560	36476
70°	48293	30053	21991
75°	41133	17008	10633
80°	30654	5304	3157
85°	16857	2076	2076

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



TEST NUMBER: P582836

CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	4.8
10°-20°	693.4	13.9
20°-30°	1012.8	20.3
30°-40°	1062.2	21.3
40°-50°	894.8	17.9
50°-60°	627.0	12.6
60°-70°	336.1	6.7
70°-80°	112.7	2.3
80°-90°	12.3	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°	1943.2	39.0
0°-40°	3005.4	60.2
0°-60°	4527.2	90.8
0°-90°	4988.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2471	2471	2471	2471	2471	
5°	2474	2484	2488	2488	2488	238
15°	2544	2511	2437	2424	2437	718
25°	2367	2267	2123	2160	2223	1084
35°	1831	1738	1630	1677	1711	1137
45°	1175	1155	1135	1165	1175	915
55°	730	706	680	693	706	657
65°	422	385	328	271	281	421
75°	194	151	80	50	50	206
85°	27	13	3	3	3	37
90°	0	0	0	0	0	



TEST NUMBER: P582836

CATALOG NUMBER: HCC6W50D010BZ-HM64560940-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2454.1	2454.1	2460.7	2467.5	2474.2	2474.2	2477.5	2480.8	2477.5
5°	2474.2	2474.2	2484.2	2487.5	2487.5	2484.2	2487.5	2487.5	2487.5
7.5°	2504.3	2497.6	2501.0	2494.3	2487.5	2484.2	2480.8	2480.8	2480.8
10°	2514.3	2507.6	2501.0	2487.5	2470.8	2460.7	2457.4	2460.7	2460.7
12.5°	2527.7	2521.1	2504.3	2477.5	2457.4	2440.7	2437.3	2444.1	2444.1
15°	2544.5	2537.7	2511.0	2467.5	2437.3	2420.6	2424.0	2430.6	2437.3
17.5°	2544.5	2531.1	2487.5	2430.6	2393.8	2377.1	2390.5	2407.2	2417.3
20°	2504.3	2491.0	2430.6	2360.3	2316.8	2306.7	2330.2	2360.3	2370.4
22.5°	2450.7	2424.0	2353.6	2270.0	2223.1	2223.1	2256.5	2293.4	2306.7
25°	2367.1	2347.0	2266.6	2169.5	2122.6	2119.3	2159.5	2209.7	2223.1
27.5°	2273.3	2246.5	2159.5	2059.1	2008.8	2012.2	2055.6	2105.8	2119.3
30°	2139.4	2105.8	2028.8	1931.8	1884.9	1898.3	1941.8	1978.6	1995.4
32.5°	1988.7	1958.6	1888.3	1797.8	1757.7	1771.1	1807.9	1841.4	1854.8
35°	1831.4	1797.8	1737.6	1657.3	1630.5	1643.8	1677.4	1704.2	1710.8
37.5°	1653.9	1630.5	1586.9	1523.4	1503.3	1519.9	1546.8	1563.5	1570.3
40°	1489.8	1469.8	1432.9	1386.0	1379.4	1392.8	1419.6	1429.6	1432.9
42.5°	1329.1	1312.4	1288.9	1255.5	1255.5	1268.9	1292.4	1299.0	1302.4
45°	1175.1	1165.1	1155.0	1128.3	1134.9	1151.7	1165.1	1175.1	1175.1
47.5°	1041.2	1044.6	1031.1	1011.1	1017.8	1034.6	1044.6	1054.6	1054.6
50°	937.5	927.4	914.0	893.9	903.9	917.4	930.7	937.5	940.8
52.5°	816.9	813.6	803.6	780.1	786.8	793.5	806.9	816.9	820.2
55°	729.9	719.8	706.5	679.7	679.7	686.4	693.0	699.7	706.5
57.5°	646.1	636.1	616.0	585.9	582.6	582.6	579.2	585.9	595.9
60°	562.5	559.1	529.0	502.2	492.1	482.1	468.7	472.0	485.5
62.5°	488.8	482.1	455.3	421.9	401.8	385.0	368.2	364.9	378.3
65°	421.9	415.1	385.0	351.6	328.1	298.0	271.2	271.2	281.2
67.5°	361.6	348.2	321.4	284.6	254.5	217.7	190.8	197.6	200.9
70°	301.3	291.2	261.1	224.3	187.5	150.7	133.9	137.2	137.2
72.5°	247.8	234.3	204.2	167.3	130.6	97.1	90.3	87.0	87.0
75°	194.2	180.8	150.7	113.8	80.3	56.9	50.2	50.2	50.2
77.5°	140.7	130.6	103.8	70.3	43.6	26.8	23.4	20.1	20.1
80°	97.1	87.0	63.7	36.8	16.8	10.0	10.0	10.0	10.0
82.5°	56.9	46.9	30.1	16.8	6.7	3.3	3.3	3.3	3.3
85°	26.8	20.1	13.3	6.7	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	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)