

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: P582719

Luminaire Tested: **HCC6W50D010BZ-HM64560827-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582719
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: HCC6W50D010BZ-HM64560827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

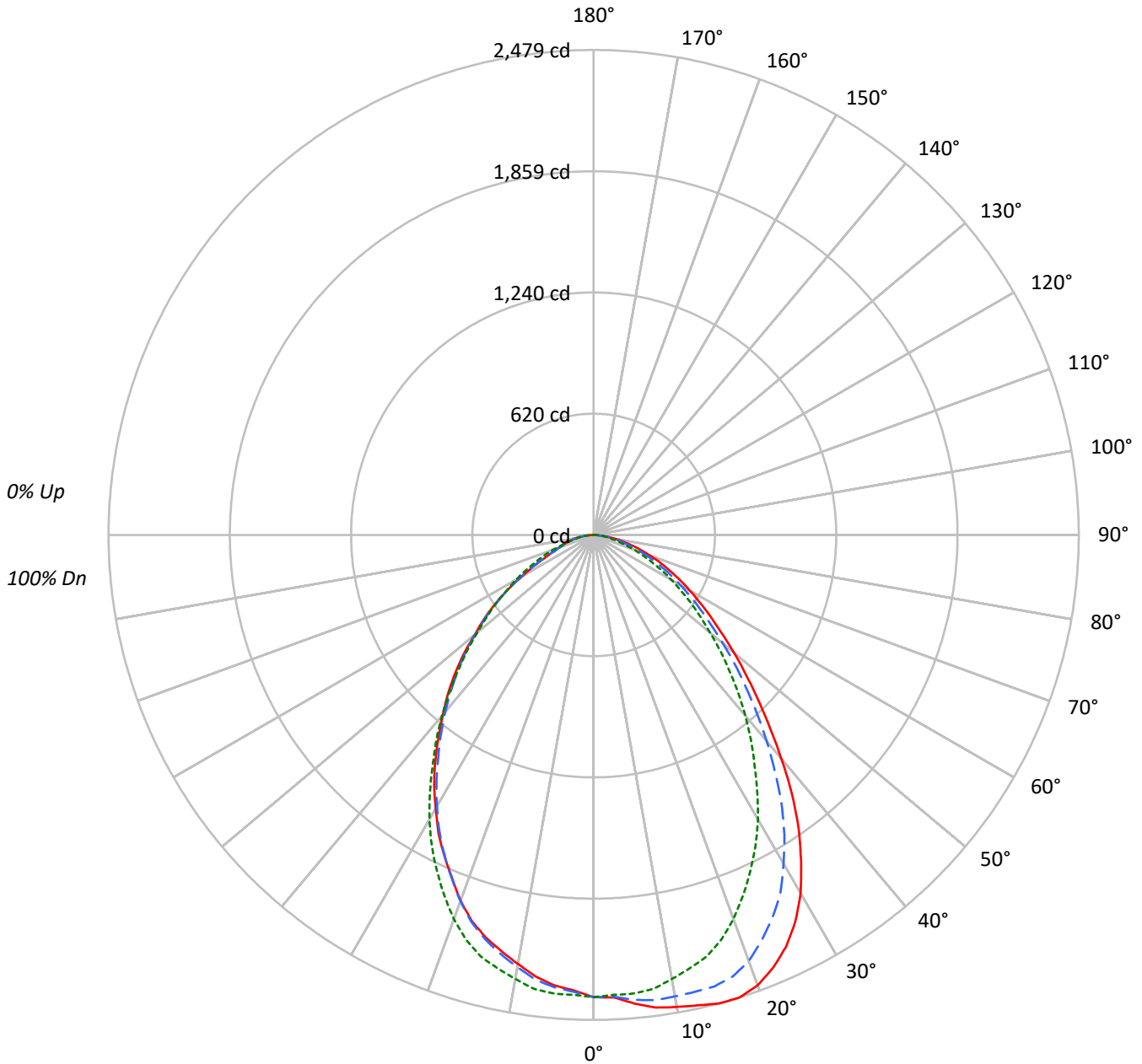
Lumens per Lamp: N/A
Luminaire Lumens: 4627.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (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: P582719
CATALOG NUMBER: HCC6W50D010BZ-HM64560827-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582719

CATALOG NUMBER: HCC6W50D010BZ-HM64560827-61WWWB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	129529	129529	129529
5°	132335	129490	127179
10°	136381	128293	123979
15°	140693	126584	120909
20°	142929	121840	115994
25°	140579	114611	109337
30°	133831	106244	102168
35°	122048	95907	94402
40°	106714	86161	85696
45°	91847	75822	77582
50°	79835	66070	67443
55°	69723	57996	58617
60°	61936	50248	46005
65°	55272	42287	35179
70°	48630	34653	29492
75°	41705	27345	28043
80°	33622	23456	27529
85°	22329	20254	24342



TEST NUMBER: P582719
 CATALOG NUMBER: HCC6W50D010BZ-HM64560827-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	4.8
10°-20°	636.9	13.8
20°-30°	909.1	19.6
30°-40°	952.3	20.6
40°-50°	801.8	17.3
50°-60°	570.7	12.3
60°-70°	334.0	7.2
70°-80°	158.1	3.4
80°-90°	40.7	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°	1769.7	38.2
0°-40°	2722.0	58.8
0°-60°	4094.5	88.5
0°-90°	4627.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4627.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2363	2363	2363	2363	2363	
5°	2405	2385	2353	2321	2311	231
15°	2479	2389	2230	2140	2130	700
25°	2324	2160	1895	1804	1808	1064
35°	1824	1672	1433	1385	1411	1133
45°	1185	1098	978	981	1001	920
55°	730	668	607	607	613	657
65°	426	378	326	274	271	425
75°	197	165	129	126	132	211
85°	36	29	32	39	39	46
90°	0	0	0	0	0	

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



TEST NUMBER: P582719

CATALOG NUMBER: HCC6W50D010BZ-HM64560827-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8
2.5°	2366.0	2366.0	2362.8	2359.5	2353.1	2343.5	2337.0	2330.5	2330.5
5°	2404.8	2398.3	2385.4	2369.2	2353.1	2333.8	2320.8	2311.1	2311.1
7.5°	2437.0	2424.1	2398.3	2369.2	2340.2	2314.4	2291.7	2278.9	2275.7
10°	2450.0	2433.8	2395.1	2349.8	2304.7	2269.2	2243.3	2227.2	2227.2
12.5°	2462.9	2443.5	2391.9	2327.3	2269.2	2220.8	2194.9	2182.0	2178.8
15°	2479.0	2453.2	2388.6	2307.9	2230.4	2175.5	2140.1	2130.4	2130.4
17.5°	2479.0	2446.7	2366.0	2266.0	2169.1	2107.8	2075.5	2065.8	2069.1
20°	2450.0	2414.4	2317.6	2194.9	2088.5	2023.9	1991.6	1985.1	1988.3
22.5°	2395.1	2353.1	2243.3	2111.0	1994.8	1927.0	1898.0	1898.0	1894.8
25°	2324.1	2278.9	2159.5	2020.7	1894.8	1827.0	1804.3	1807.6	1807.6
27.5°	2230.4	2185.2	2065.8	1917.4	1791.5	1723.7	1707.5	1714.0	1717.2
30°	2114.2	2065.8	1939.9	1794.6	1678.4	1610.6	1601.0	1610.6	1614.0
32.5°	1972.3	1936.7	1814.0	1665.6	1555.8	1497.7	1494.6	1504.2	1517.1
35°	1823.7	1785.0	1672.1	1536.5	1433.1	1384.7	1384.7	1400.9	1410.6
37.5°	1662.4	1623.6	1520.3	1407.4	1320.2	1275.0	1281.5	1297.6	1300.9
40°	1491.2	1462.2	1375.0	1278.2	1204.0	1168.5	1178.2	1194.3	1197.5
42.5°	1329.9	1304.1	1233.1	1145.9	1091.0	1065.1	1078.1	1097.5	1103.9
45°	1184.7	1155.6	1097.5	1023.2	978.0	965.1	981.3	994.2	1000.7
47.5°	1052.3	1026.4	978.0	910.3	878.0	871.6	887.6	894.1	900.6
50°	936.1	910.3	861.9	800.5	774.7	774.7	787.6	794.1	790.8
52.5°	823.2	800.5	755.4	703.6	687.6	687.6	697.3	700.5	706.9
55°	729.5	706.9	668.2	619.8	606.8	600.4	606.8	606.8	613.3
57.5°	642.3	623.0	587.4	542.3	526.1	519.6	516.5	513.3	519.6
60°	564.9	548.7	510.0	471.2	458.3	442.2	429.3	416.4	419.6
62.5°	493.9	477.7	442.2	403.4	390.6	368.0	351.8	335.6	342.1
65°	426.1	409.9	377.7	345.3	326.0	300.2	274.3	264.7	271.2
67.5°	364.7	351.8	319.6	287.3	271.2	242.1	216.2	216.2	219.5
70°	303.4	290.5	264.7	235.6	216.2	190.5	180.8	184.0	184.0
72.5°	248.6	238.9	213.1	187.2	167.8	151.8	151.8	154.9	158.1
75°	196.9	190.5	164.6	142.1	129.1	119.4	125.9	129.1	132.4
77.5°	151.8	142.1	122.7	106.5	96.8	100.0	106.5	109.7	113.0
80°	106.5	103.3	87.2	77.5	74.3	77.5	84.0	87.2	87.2
82.5°	67.8	64.6	54.9	51.6	51.6	54.9	61.3	61.3	61.3
85°	35.5	32.2	29.1	29.1	32.2	35.5	38.7	38.7	38.7
87.5°	12.9	9.7	12.9	12.9	16.2	16.2	16.2	16.2	16.2
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)