

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: P593354

Luminaire Tested: **HCC6W50D010BZ-HM64560850-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W50D010BZ-HM64560850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

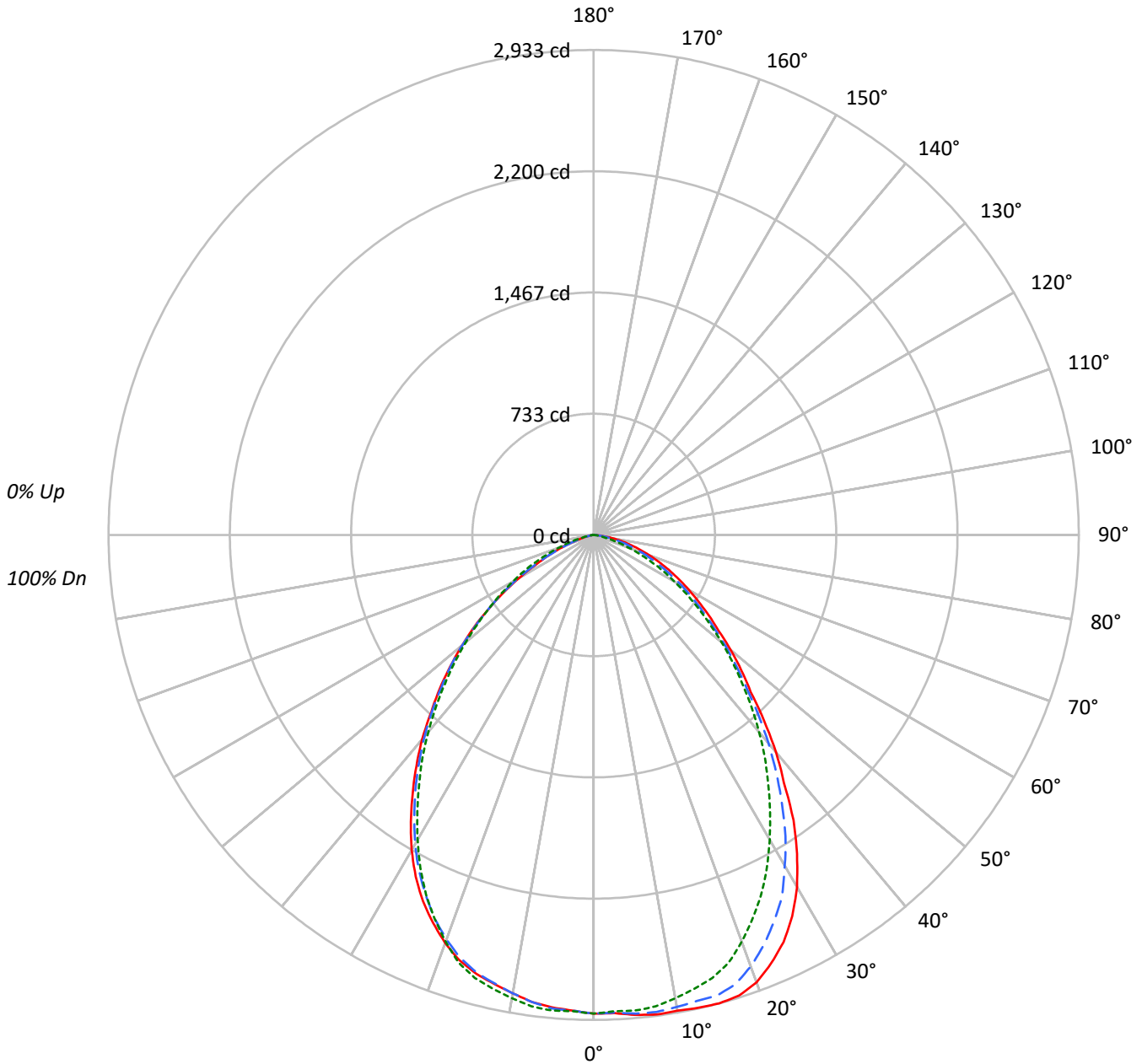
Lumens per Lamp: N/A
Luminaire Lumens: 5672.6 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P593354
CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593354

CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61RWWH

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	93	92	90	88			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
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	61	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	158704	158704	158704
5°	160351	158887	157847
10°	162633	158403	156716
15°	166454	157413	155903
20°	168003	152724	153173
25°	164326	145043	147801
30°	155632	134736	139306
35°	140920	123145	127723
40°	122723	111323	115395
45°	104135	98537	102073
50°	92219	86078	88347
55°	81221	73613	73259
60°	72801	61980	56991
65°	64975	49707	40860
70°	57173	35871	25533
75°	48229	21689	14467
80°	37126	9597	5998
85°	21449	2390	2390



TEST NUMBER: P593354

CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	4.8
10°-20°	789.8	13.9
20°-30°	1141.7	20.1
30°-40°	1201.3	21.2
40°-50°	1009.9	17.8
50°-60°	708.8	12.5
60°-70°	389.9	6.9
70°-80°	138.4	2.4
80°-90°	18.1	0.3
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°	2206.2	38.9
0°-40°	3407.5	60.1
0°-60°	5126.2	90.4
0°-90°	5672.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5672.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2895	2895	2895	2895	2895	
5°	2914	2906	2887	2876	2868	278
15°	2933	2884	2774	2739	2747	828
25°	2717	2580	2398	2402	2444	1243
35°	2106	1984	1840	1878	1908	1305
45°	1343	1305	1271	1301	1317	1054
55°	850	804	770	770	766	765
65°	501	448	383	315	315	498
75°	228	182	102	68	68	244
85°	34	19	4	4	4	47
90°	0	0	0	0	0	

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



TEST NUMBER: P593354

CATALOG NUMBER: HCC6W50D010BZ-HM64560850-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0	2895.0
2.5°	2895.0	2895.0	2891.2	2891.2	2883.5	2883.5	2879.8	2879.8	2879.8
5°	2913.9	2913.9	2906.3	2895.0	2887.3	2876.0	2876.0	2872.2	2868.4
7.5°	2925.3	2921.6	2910.1	2895.0	2876.0	2857.0	2849.4	2853.2	2849.4
10°	2921.6	2913.9	2898.8	2868.4	2845.6	2819.0	2815.3	2811.5	2815.3
12.5°	2929.1	2917.7	2887.3	2849.4	2811.5	2781.1	2777.4	2777.4	2781.1
15°	2932.9	2921.6	2883.5	2826.6	2773.6	2743.2	2739.4	2743.2	2747.0
17.5°	2921.6	2906.3	2849.4	2773.6	2712.9	2682.5	2682.5	2690.1	2697.6
20°	2879.8	2857.0	2777.4	2686.3	2617.9	2595.2	2602.8	2617.9	2625.6
22.5°	2803.9	2777.4	2686.3	2583.8	2511.8	2492.7	2511.8	2530.8	2538.3
25°	2716.7	2686.3	2580.0	2473.8	2397.9	2375.1	2401.7	2432.0	2443.5
27.5°	2599.0	2564.9	2466.2	2344.8	2268.9	2257.5	2287.8	2322.1	2329.6
30°	2458.6	2420.7	2310.6	2196.8	2128.5	2124.7	2158.9	2189.2	2200.7
32.5°	2287.8	2253.7	2158.9	2045.0	1984.3	1984.3	2018.4	2045.0	2056.5
35°	2105.7	2067.8	1984.3	1889.5	1840.1	1844.0	1878.1	1897.0	1908.5
37.5°	1889.5	1878.1	1813.7	1733.9	1699.8	1707.4	1733.9	1749.1	1760.5
40°	1714.9	1684.6	1642.9	1578.4	1555.6	1563.2	1589.7	1605.0	1612.5
42.5°	1525.3	1506.2	1472.1	1426.6	1411.4	1422.9	1445.5	1457.0	1453.2
45°	1343.2	1339.4	1305.2	1278.7	1271.0	1286.2	1301.3	1312.8	1316.6
47.5°	1210.3	1195.2	1164.8	1145.8	1138.2	1153.5	1168.6	1176.2	1176.2
50°	1081.3	1066.2	1035.9	1016.8	1009.3	1024.4	1035.9	1043.4	1035.9
52.5°	952.4	937.1	910.6	887.9	884.1	891.7	895.4	899.2	906.8
55°	849.8	834.7	804.4	777.8	770.2	774.0	770.2	770.2	766.5
57.5°	751.2	736.1	705.8	675.4	664.0	660.2	648.8	645.1	641.2
60°	664.0	645.1	614.7	580.5	565.3	550.1	531.2	519.8	519.8
62.5°	580.5	561.6	527.4	497.1	474.3	447.7	417.4	402.1	402.1
65°	500.9	485.6	447.7	413.6	383.2	349.1	315.0	307.3	315.0
67.5°	424.9	409.8	371.8	337.6	299.7	258.0	227.7	227.7	235.3
70°	356.7	341.4	307.3	265.6	223.8	182.1	159.3	159.3	159.3
72.5°	292.2	276.9	239.0	201.1	159.3	117.6	106.3	110.1	106.3
75°	227.7	216.2	182.1	140.4	102.4	72.0	68.3	64.5	68.3
77.5°	170.8	159.3	129.0	91.1	56.9	41.7	37.9	37.9	37.9
80°	117.6	106.3	83.5	53.1	30.4	19.0	19.0	19.0	19.0
82.5°	72.0	60.7	45.6	26.6	11.3	11.3	11.3	11.3	11.3
85°	34.1	26.6	19.0	7.6	3.8	3.8	3.8	3.8	3.8
87.5°	7.6	7.6	3.8	3.8	0.0	3.8	3.8	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)