

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: P593336

Luminaire Tested: **HCC6W45D010BZ-HM64560950-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593336
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: HCC6W45D010BZ-HM64560950-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

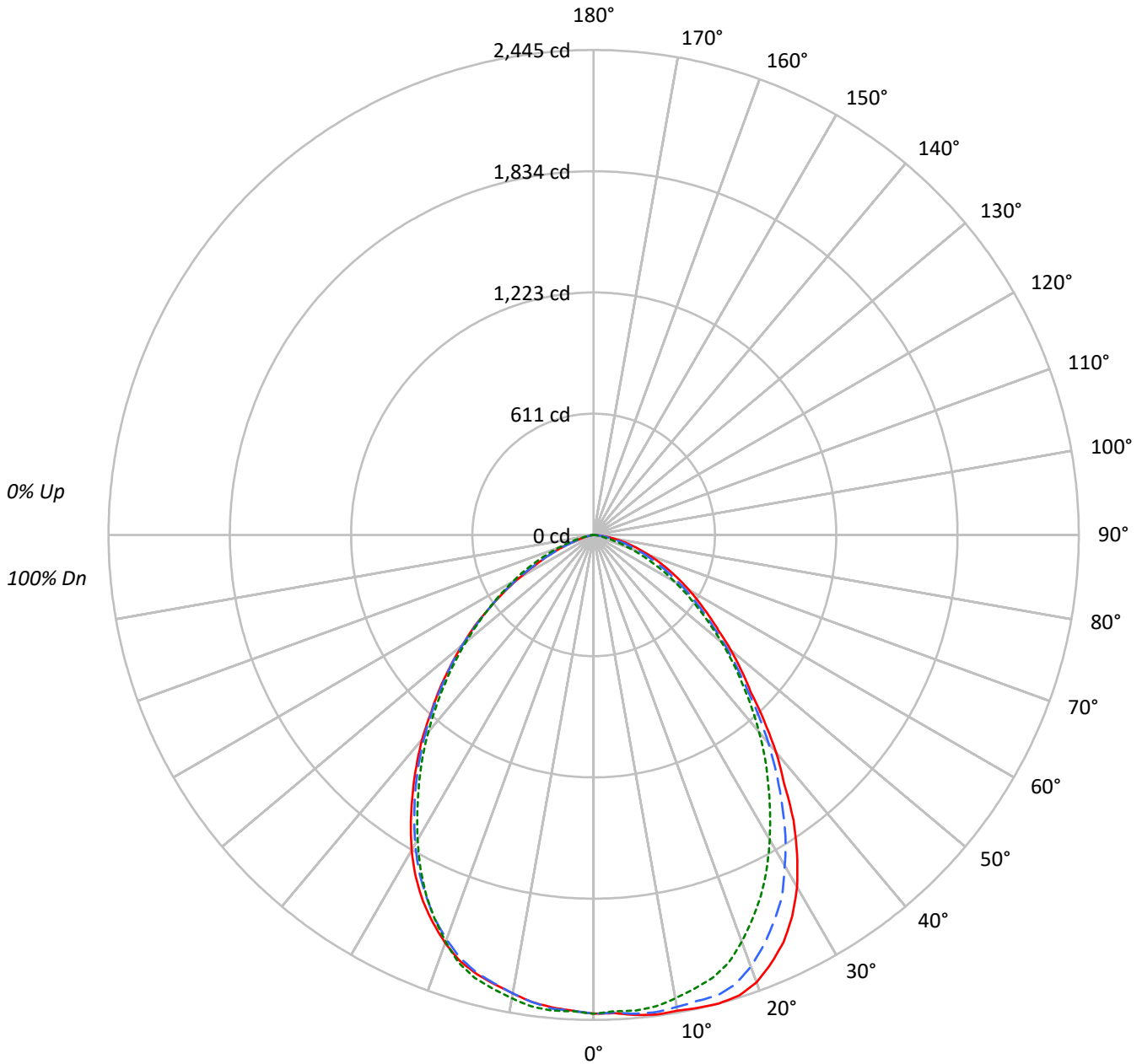
Lumens per Lamp: N/A
Luminaire Lumens: 4729.3 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P593336
CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593336

CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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								
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°	132314	132314	132314
5°	133689	132467	131598
10°	135580	132062	130653
15°	138769	131232	129978
20°	140065	127329	127697
25°	136992	120920	123219
30°	129754	112327	116138
35°	117490	102673	106481
40°	102320	92810	96209
45°	86807	82156	85094
50°	76893	71759	73652
55°	67725	61369	61064
60°	60686	51673	47507
65°	54169	41444	34050
70°	47668	29909	21302
75°	40201	18088	12052
80°	30970	7987	4988
85°	17926	2013	2013



TEST NUMBER: P593336
 CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	4.8
10°-20°	658.4	13.9
20°-30°	951.8	20.1
30°-40°	1001.5	21.2
40°-50°	841.9	17.8
50°-60°	590.9	12.5
60°-70°	325.0	6.9
70°-80°	115.4	2.4
80°-90°	15.1	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°	1839.3	38.9
0°-40°	2840.9	60.1
0°-60°	4273.7	90.4
0°-90°	4729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4729.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2414	2414	2414	2414	2414	
5°	2429	2423	2407	2398	2391	232
15°	2445	2404	2312	2284	2290	690
25°	2265	2151	1999	2002	2037	1036
35°	1756	1654	1534	1566	1591	1088
45°	1120	1088	1060	1085	1098	878
55°	709	671	642	642	639	638
65°	418	373	320	262	262	416
75°	190	152	85	57	57	204
85°	28	16	3	3	3	39
90°	0	0	0	0	0	

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



TEST NUMBER: P593336

CATALOG NUMBER: HCC6W45D010BZ-HM64560950-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6	2413.6
2.5°	2413.6	2413.6	2410.4	2410.4	2404.1	2404.1	2400.9	2400.9	2400.9
5°	2429.4	2429.4	2423.1	2413.6	2407.2	2397.7	2397.7	2394.6	2391.4
7.5°	2438.8	2435.6	2426.2	2413.6	2397.7	2381.9	2375.6	2378.7	2375.6
10°	2435.6	2429.4	2416.7	2391.4	2372.4	2350.2	2347.1	2343.9	2347.1
12.5°	2442.0	2432.6	2407.2	2375.6	2343.9	2318.7	2315.5	2315.5	2318.7
15°	2445.1	2435.6	2404.1	2356.6	2312.3	2287.0	2283.8	2287.0	2290.2
17.5°	2435.6	2423.1	2375.6	2312.3	2261.7	2236.4	2236.4	2242.8	2249.0
20°	2400.9	2381.9	2315.5	2239.6	2182.6	2163.6	2169.9	2182.6	2188.9
22.5°	2337.7	2315.5	2239.6	2154.1	2094.0	2078.2	2094.0	2109.9	2116.2
25°	2264.8	2239.6	2150.9	2062.4	1999.1	1980.1	2002.3	2027.6	2037.1
27.5°	2166.8	2138.4	2056.0	1954.9	1891.6	1882.1	1907.4	1935.9	1942.3
30°	2049.8	2018.1	1926.4	1831.5	1774.5	1771.3	1799.9	1825.2	1834.7
32.5°	1907.4	1878.9	1799.9	1705.0	1654.4	1654.4	1682.8	1705.0	1714.5
35°	1755.6	1724.0	1654.4	1575.2	1534.2	1537.3	1565.8	1581.6	1591.1
37.5°	1575.2	1565.8	1512.0	1445.6	1417.1	1423.4	1445.6	1458.3	1467.8
40°	1429.8	1404.4	1369.7	1315.9	1296.9	1303.2	1325.4	1338.0	1344.4
42.5°	1271.6	1255.8	1227.3	1189.4	1176.8	1186.3	1205.1	1214.6	1211.5
45°	1119.7	1116.6	1088.2	1066.0	1059.7	1072.4	1085.0	1094.5	1097.6
47.5°	1009.0	996.5	971.1	955.3	949.0	961.6	974.3	980.6	980.6
50°	901.6	888.9	863.6	847.7	841.4	854.1	863.6	869.9	863.6
52.5°	794.0	781.3	759.2	740.2	737.0	743.3	746.5	749.7	756.0
55°	708.6	695.9	670.6	648.4	642.1	645.3	642.1	642.1	638.9
57.5°	626.3	613.7	588.4	563.0	553.5	550.4	540.9	537.7	534.5
60°	553.5	537.7	512.5	484.0	471.3	458.6	442.8	433.3	433.3
62.5°	484.0	468.1	439.6	414.4	395.4	373.2	347.9	335.2	335.2
65°	417.6	404.9	373.2	344.7	319.5	291.0	262.5	256.2	262.5
67.5°	354.2	341.6	310.0	281.5	249.8	215.1	189.8	189.8	196.1
70°	297.4	284.7	256.2	221.5	186.6	151.8	132.9	132.9	132.9
72.5°	243.5	231.0	199.3	167.6	132.9	98.1	88.6	91.7	88.6
75°	189.8	180.3	151.8	117.1	85.4	60.1	56.9	53.7	56.9
77.5°	142.4	132.9	107.6	75.9	47.5	34.8	31.7	31.7	31.7
80°	98.1	88.6	69.6	44.3	25.3	15.8	15.8	15.8	15.8
82.5°	60.1	50.6	38.0	22.2	9.5	9.5	9.5	9.5	9.5
85°	28.5	22.2	15.8	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	6.3	6.3	3.2	3.2	0.0	3.2	3.2	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)