

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: P582700

Luminaire Tested: **HCC6W45D010BZ-HM64560940-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010BZ-HM64560940-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

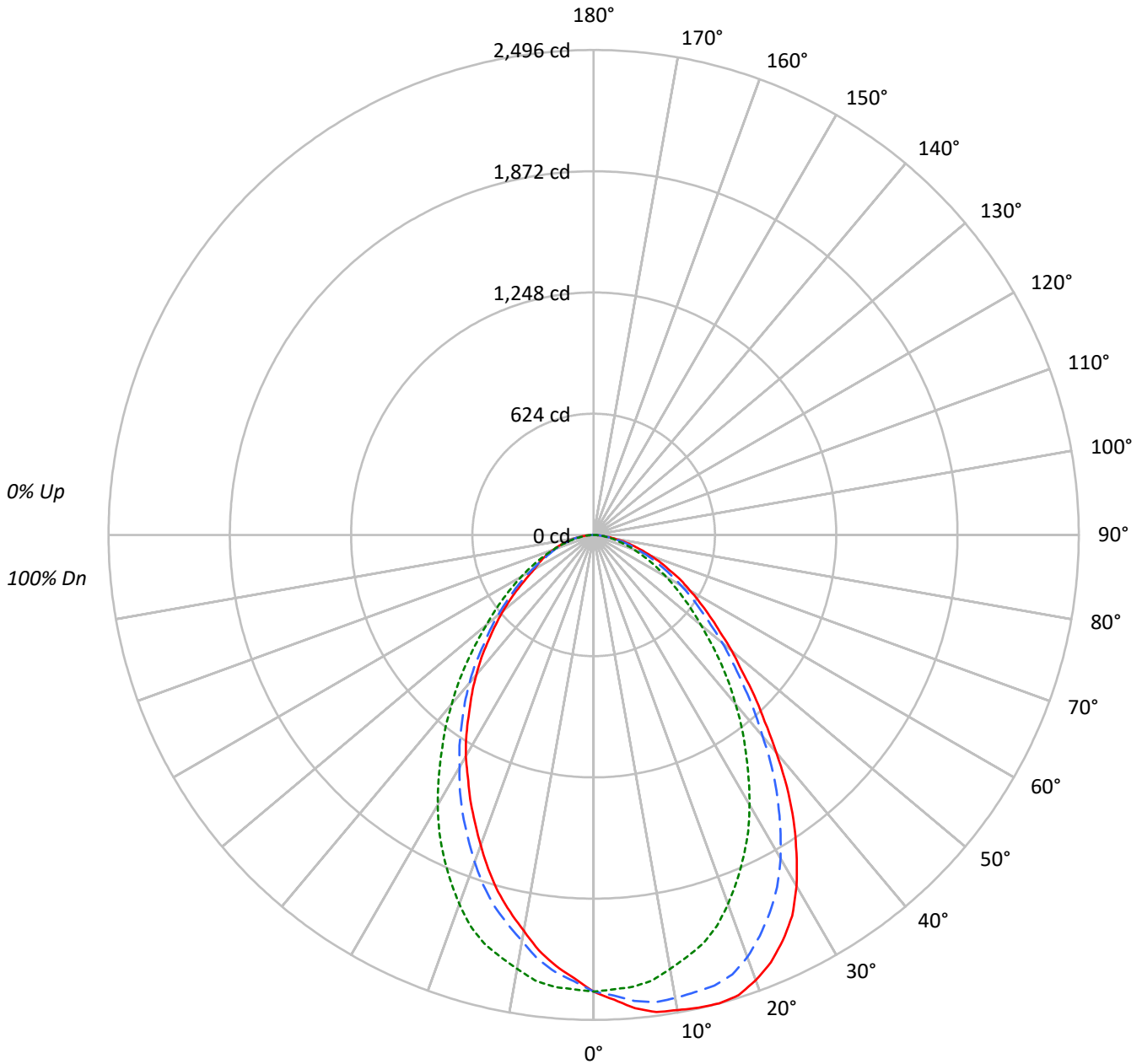
Lumens per Lamp: N/A  
Luminaire Lumens: 4378.1 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P582700  
CATALOG NUMBER: HCC6W45D010BZ-HM64560940-61WWW

### Luminous Intensity Polar Plot





TEST NUMBER: P582700

CATALOG NUMBER: HCC6W45D010BZ-HM64560940-61WWW

**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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	128844	128844	128844
5°	134558	128467	122545
10°	138229	126256	115162
15°	141647	123519	107895
20°	142282	117919	99099
25°	139290	110402	90888
30°	132160	101522	83298
35°	120033	91243	74733
40°	104582	81267	67233
45°	90498	71124	59099
50°	79042	61243	51802
55°	69847	53809	44443
60°	62769	47178	38495
65°	56219	41042	37345
70°	50201	34990	34990
75°	43548	29484	32830
80°	34948	24972	29960
85°	23902	21889	25914



TEST NUMBER: P582700  
 CATALOG NUMBER: HCC6W45D010BZ-HM64560940-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.9	5.0
10°-20°	614.0	14.0
20°-30°	855.7	19.5
30°-40°	881.7	20.1
40°-50°	730.7	16.7
50°-60°	525.1	12.0
60°-70°	334.4	7.6
70°-80°	171.7	3.9
80°-90°	43.7	1.0
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°	1690.7	38.6
0°-40°	2572.4	58.8
0°-60°	3828.3	87.4
0°-90°	4378.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4378.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2350	2350	2350	2350	2350	
5°	2445	2407	2334	2259	2227	234
15°	2496	2401	2176	1977	1901	703
25°	2303	2145	1825	1591	1503	1055
35°	1794	1648	1363	1183	1117	1114
45°	1167	1085	917	800	762	903
55°	731	671	563	500	465	658
65°	433	386	316	275	288	434
75°	206	177	139	146	155	219
85°	38	35	35	38	41	49
90°	0	0	0	0	0	

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



TEST NUMBER: P582700

CATALOG NUMBER: HCC6W45D010BZ-HM64560940-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3	2350.3
2.5°	2394.6	2385.2	2372.5	2359.8	2340.8	2318.7	2299.7	2293.3	2283.9
5°	2445.2	2432.6	2407.2	2375.7	2334.5	2293.3	2258.6	2236.4	2226.9
7.5°	2476.9	2461.1	2426.2	2372.5	2312.3	2252.3	2201.6	2170.0	2157.4
10°	2483.2	2467.4	2419.9	2347.2	2268.1	2185.9	2122.5	2084.7	2068.8
12.5°	2492.6	2470.6	2410.4	2325.0	2223.8	2128.9	2049.8	2002.3	1986.6
15°	2495.8	2470.6	2400.9	2296.5	2176.4	2062.5	1977.1	1920.1	1901.1
17.5°	2483.2	2454.7	2372.5	2245.9	2109.9	1989.8	1888.5	1828.4	1803.0
20°	2438.9	2407.2	2312.3	2170.0	2021.3	1894.9	1790.5	1727.1	1698.7
22.5°	2382.0	2340.8	2233.3	2081.5	1926.4	1793.6	1689.2	1625.9	1597.5
25°	2302.8	2264.9	2144.7	1983.4	1825.2	1686.1	1591.2	1524.7	1502.6
27.5°	2211.1	2166.9	2043.5	1882.2	1720.8	1581.7	1489.9	1429.8	1401.4
30°	2087.8	2046.7	1923.3	1762.0	1603.8	1474.1	1379.2	1328.5	1315.9
32.5°	1942.3	1907.4	1787.3	1635.4	1483.6	1363.4	1284.3	1230.5	1217.9
35°	1793.6	1752.5	1648.1	1505.8	1363.4	1255.8	1183.1	1135.6	1116.7
37.5°	1632.2	1594.3	1505.8	1379.2	1252.6	1151.4	1088.2	1047.0	1028.0
40°	1461.4	1432.9	1350.7	1249.5	1135.6	1047.0	993.3	958.5	939.5
42.5°	1303.3	1274.8	1217.9	1122.9	1028.0	949.0	901.6	869.9	854.1
45°	1167.3	1141.9	1085.0	1002.8	917.4	850.9	800.3	778.2	762.3
47.5°	1031.2	1018.6	968.0	892.1	813.0	756.0	721.3	695.9	683.3
50°	926.8	911.1	863.6	784.5	718.1	673.8	642.1	620.0	607.4
52.5°	819.3	803.5	759.2	692.8	638.9	597.9	566.2	547.2	534.7
55°	730.8	718.1	670.6	610.5	563.0	528.3	499.8	477.6	465.0
57.5°	648.4	635.8	591.5	534.7	493.5	461.8	436.6	417.6	401.8
60°	572.5	563.0	518.8	465.0	430.3	398.6	376.4	360.6	351.1
62.5°	506.1	487.1	449.1	401.8	370.1	344.7	322.7	313.2	319.5
65°	433.4	423.9	385.9	344.7	316.4	291.0	275.2	281.5	287.9
67.5°	373.2	360.6	329.0	291.0	265.7	246.7	237.3	249.8	253.0
70°	313.2	300.5	272.0	240.5	218.3	205.6	205.6	215.1	218.3
72.5°	256.2	246.7	221.5	196.1	180.3	170.8	177.1	183.5	186.6
75°	205.6	196.1	177.1	155.0	139.2	139.2	145.6	151.8	155.0
77.5°	158.1	151.8	132.9	117.1	110.7	110.7	117.1	120.2	123.4
80°	110.7	104.4	94.9	85.4	79.1	85.4	91.7	91.7	94.9
82.5°	72.7	69.6	63.2	56.9	56.9	60.1	63.2	66.4	66.4
85°	38.0	38.0	34.8	31.7	34.8	38.0	38.0	41.2	41.2
87.5°	12.7	12.7	12.7	12.7	15.8	15.8	15.8	15.8	15.8
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)