

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: P582717

Luminaire Tested: **HCC6W50D010MW-HM64560827-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010MW-HM64560827-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

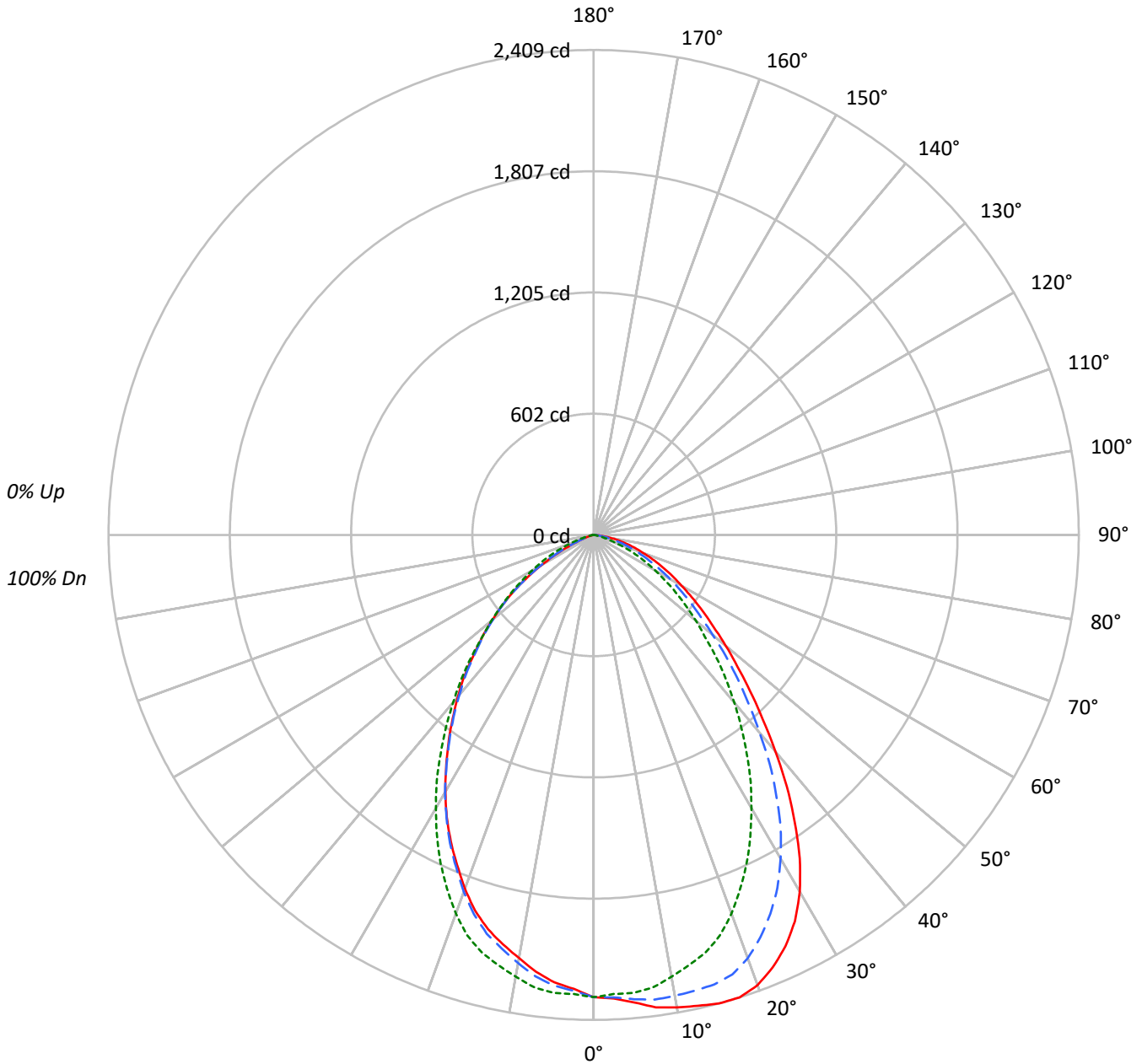
Lumens per Lamp: N/A  
Luminaire Lumens: 4091.2 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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: P582717  
CATALOG NUMBER: HCC6W50D010MW-HM64560827-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582717

CATALOG NUMBER: HCC6W50D010MW-HM64560827-61WWBB

**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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49								
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44								
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40								
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37								
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34								

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

	0°	90°	180°
0°	125851	125851	125851
5°	128290	125627	122787
10°	132652	124024	118808
15°	136709	121868	115086
20°	138828	116788	109064
25°	136326	108787	101558
30°	129583	99129	93204
35°	116473	88599	84062
40°	100517	77645	75098
45°	85117	66836	65092
50°	72970	56459	55904
55°	63271	47530	45666
60°	55226	38582	32563
65°	48591	29731	18017
70°	41930	19667	8800
75°	35563	9574	3431
80°	27529	4072	2052
85°	16291	2013	2013



TEST NUMBER: P582717

CATALOG NUMBER: HCC6W50D010MW-HM64560827-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.6	5.3
10°-20°	612.7	15.0
20°-30°	862.8	21.1
30°-40°	881.5	21.5
40°-50°	710.7	17.4
50°-60°	476.7	11.7
60°-70°	241.2	5.9
70°-80°	77.1	1.9
80°-90°	11.9	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°	1692.1	41.4
0°-40°	2573.5	62.9
0°-60°	3761.0	91.9
0°-90°	4091.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2296	2296	2296	2296	2296	
5°	2331	2315	2283	2247	2231	224
15°	2409	2312	2147	2050	2028	680
25°	2254	2076	1798	1689	1679	1032
35°	1740	1582	1324	1250	1256	1083
45°	1098	1011	862	833	840	854
55°	662	588	497	475	478	596
65°	375	310	229	152	139	374
75°	168	120	45	16	16	180
85°	26	13	3	3	3	35
90°	0	0	0	0	0	

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



TEST NUMBER: P582717

CATALOG NUMBER: HCC6W50D010MW-HM64560827-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7	2295.7
2.5°	2305.4	2302.2	2299.1	2292.6	2282.9	2273.2	2266.7	2260.3	2257.0
5°	2331.3	2324.9	2315.1	2302.2	2282.9	2260.3	2247.3	2234.5	2231.3
7.5°	2366.8	2354.0	2328.1	2299.1	2266.7	2234.5	2211.9	2198.9	2189.2
10°	2383.0	2360.3	2324.9	2276.4	2228.0	2189.2	2160.2	2140.8	2134.3
12.5°	2395.9	2370.0	2318.4	2253.8	2189.2	2137.6	2105.3	2089.2	2082.7
15°	2408.8	2383.0	2311.9	2228.0	2147.3	2085.9	2050.5	2034.3	2027.8
17.5°	2408.8	2373.3	2289.4	2182.8	2085.9	2011.6	1976.2	1960.0	1956.8
20°	2379.7	2341.0	2237.6	2111.7	2001.9	1918.1	1885.7	1876.0	1869.5
22.5°	2324.9	2279.7	2163.4	2021.3	1901.9	1821.1	1785.7	1779.2	1772.7
25°	2253.8	2208.6	2076.2	1924.4	1798.5	1717.8	1688.7	1682.3	1679.0
27.5°	2163.4	2114.9	1976.2	1821.1	1685.5	1608.0	1582.2	1582.2	1579.0
30°	2047.1	1992.2	1856.7	1701.7	1566.0	1495.0	1475.7	1475.7	1472.4
32.5°	1905.1	1850.2	1727.4	1579.0	1449.8	1375.5	1359.4	1365.8	1362.6
35°	1740.4	1695.2	1582.2	1436.9	1323.9	1256.1	1249.6	1256.1	1256.1
37.5°	1575.7	1533.8	1436.9	1310.9	1204.4	1143.1	1143.1	1152.8	1149.5
40°	1404.6	1372.3	1281.9	1172.1	1085.0	1042.9	1036.4	1046.1	1049.4
42.5°	1243.1	1217.4	1139.8	1049.4	972.0	929.9	939.6	946.1	949.3
45°	1097.9	1072.0	1010.7	917.0	862.1	833.1	833.1	842.8	839.6
47.5°	968.7	949.3	888.0	797.5	749.1	736.2	742.6	749.1	749.1
50°	855.6	826.6	768.5	697.5	662.0	645.8	652.3	655.5	655.5
52.5°	749.1	729.7	671.6	607.0	574.8	565.1	565.1	568.3	568.3
55°	662.0	639.4	587.7	523.1	497.3	484.3	474.6	471.5	477.8
57.5°	578.0	558.6	510.2	448.8	419.7	406.9	387.5	381.0	387.5
60°	503.7	487.5	439.1	381.0	351.9	326.1	303.5	290.6	297.0
62.5°	439.1	419.7	371.3	322.9	290.6	261.6	226.0	206.7	216.4
65°	374.6	358.4	310.0	261.6	229.2	193.7	151.8	138.9	138.9
67.5°	316.4	300.3	255.1	213.2	174.3	132.4	93.7	90.5	93.7
70°	261.6	245.4	206.7	164.6	122.7	80.8	54.9	54.9	54.9
72.5°	216.4	197.0	161.4	119.5	77.5	41.9	29.1	32.2	32.2
75°	167.9	151.8	119.5	80.8	45.2	19.4	16.2	16.2	16.2
77.5°	125.9	113.0	84.0	51.6	22.6	6.5	6.5	6.5	6.5
80°	87.2	74.3	54.9	32.2	12.9	6.5	6.5	6.5	6.5
82.5°	51.6	45.2	32.2	16.2	6.5	3.2	3.2	3.2	3.2
85°	25.9	22.6	12.9	6.5	3.2	3.2	3.2	3.2	3.2
87.5°	6.5	6.5	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)