

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: P582807

Luminaire Tested: **HCC6W50D010MW-HM64560930-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582807  
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-HM64560930-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

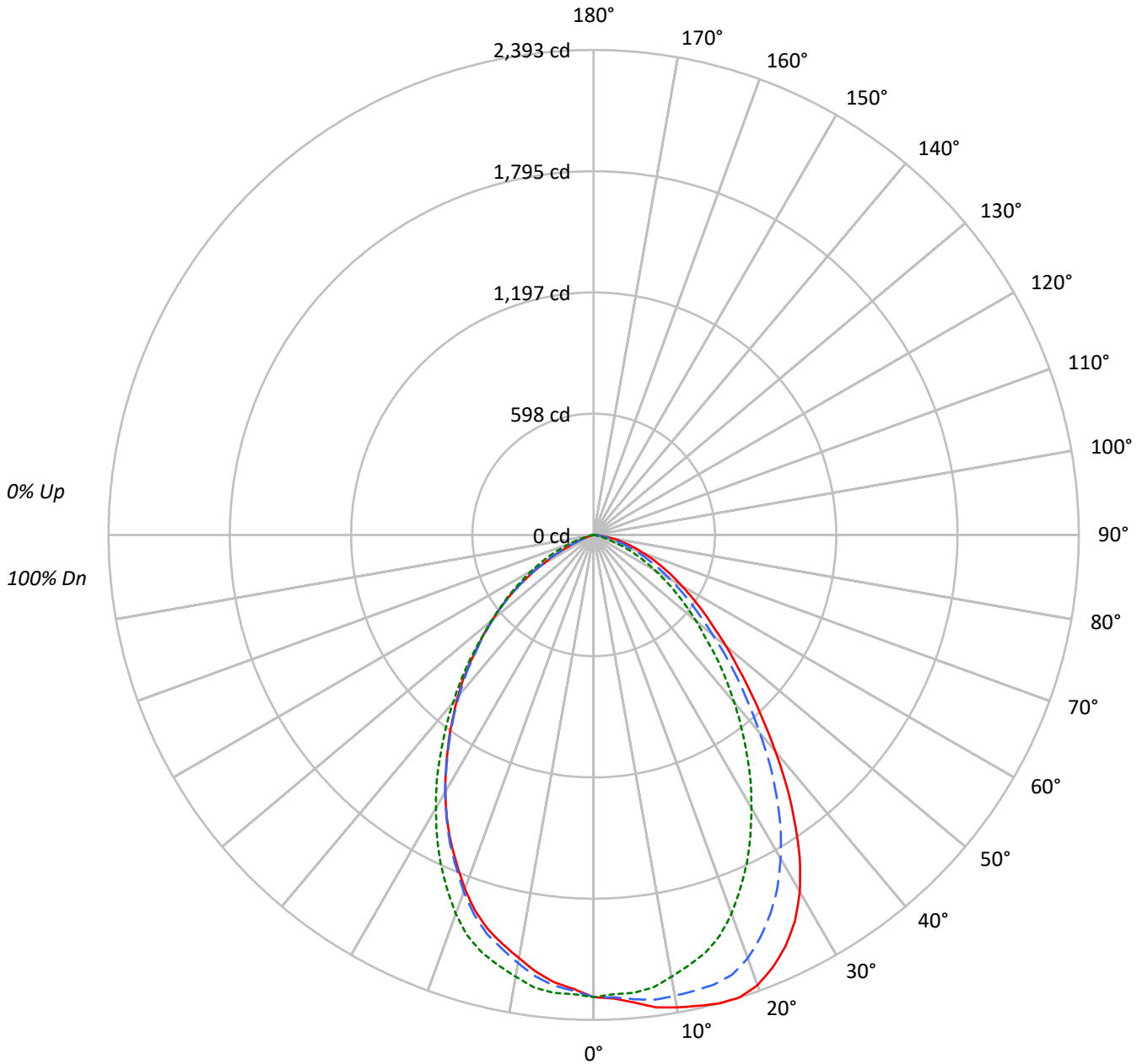
Lumens per Lamp: N/A  
Luminaire Lumens: 4064.2 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582807  
CATALOG NUMBER: HCC6W50D010MW-HM64560930-61WWBB

### Luminous Intensity Polar Plot





TEST NUMBER: P582807

CATALOG NUMBER: HCC6W50D010MW-HM64560930-61WWBB

**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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69	69	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61	61	61	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34	34	34	34

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

	0°	90°	180°
0°	125023	125023	125023
5°	127443	124802	121973
10°	131778	123205	118023
15°	135807	121062	114325
20°	137912	116023	108346
25°	135425	108067	100893
30°	128735	98477	92590
35°	115710	88017	83500
40°	99859	77130	74604
45°	84559	66402	64658
50°	72501	56083	55538
55°	62851	47215	45380
60°	54864	38341	32355
65°	48267	29536	17888
70°	41642	19539	8751
75°	35330	9510	3410
80°	27339	4072	2020
85°	16102	2013	2013



TEST NUMBER: P582807  
 CATALOG NUMBER: HCC6W50D010MW-HM64560930-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.2	5.3
10°-20°	608.6	15.0
20°-30°	857.1	21.1
30°-40°	875.7	21.5
40°-50°	706.0	17.4
50°-60°	473.5	11.7
60°-70°	239.6	5.9
70°-80°	76.6	1.9
80°-90°	11.8	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°	1680.9	41.4
0°-40°	2556.6	62.9
0°-60°	3736.1	91.9
0°-90°	4064.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2281	2281	2281	2281	2281	
5°	2316	2300	2268	2233	2216	223
15°	2393	2297	2133	2037	2014	676
25°	2239	2062	1787	1678	1668	1025
35°	1729	1572	1315	1241	1248	1076
45°	1091	1004	856	828	834	848
55°	658	584	494	472	475	592
65°	372	308	228	151	138	371
75°	167	119	45	16	16	179
85°	26	13	3	3	3	34
90°	0	0	0	0	0	

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



TEST NUMBER: P582807

CATALOG NUMBER: HCC6W50D010MW-HM64560930-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6
2.5°	2290.3	2287.1	2283.8	2277.4	2267.9	2258.2	2251.8	2245.3	2242.1
5°	2315.9	2309.6	2299.9	2287.1	2267.9	2245.3	2232.6	2219.7	2216.5
7.5°	2351.3	2338.4	2312.8	2283.8	2251.8	2219.7	2197.3	2184.4	2174.8
10°	2367.3	2344.8	2309.6	2261.4	2213.3	2174.8	2145.9	2126.6	2120.2
12.5°	2380.1	2354.4	2303.1	2238.9	2174.8	2123.4	2091.4	2075.4	2069.0
15°	2392.9	2367.3	2296.7	2213.3	2133.1	2072.2	2036.9	2020.8	2014.4
17.5°	2392.9	2357.6	2274.3	2168.4	2072.2	1998.4	1963.1	1947.0	1943.8
20°	2364.0	2325.5	2222.9	2097.8	1988.8	1905.3	1873.3	1863.6	1857.2
22.5°	2309.6	2264.6	2149.2	2008.1	1889.4	1809.2	1773.9	1767.4	1761.0
25°	2238.9	2194.1	2062.5	1911.8	1786.6	1706.4	1677.6	1671.2	1668.0
27.5°	2149.2	2101.0	1963.1	1809.2	1674.4	1597.4	1571.8	1571.8	1568.6
30°	2033.7	1979.1	1844.4	1690.5	1555.7	1485.1	1465.9	1465.9	1462.7
32.5°	1892.6	1838.0	1716.1	1568.6	1440.2	1366.4	1350.5	1356.9	1353.7
35°	1729.0	1684.0	1571.8	1427.4	1315.2	1247.7	1241.3	1247.7	1247.7
37.5°	1565.3	1523.6	1427.4	1302.3	1196.5	1135.5	1135.5	1145.1	1141.9
40°	1395.4	1363.2	1273.5	1164.3	1077.8	1036.1	1029.7	1039.3	1042.5
42.5°	1235.0	1209.3	1132.3	1042.5	965.5	923.8	933.5	939.8	943.0
45°	1090.7	1064.9	1004.0	911.0	856.5	827.5	827.5	837.2	834.0
47.5°	962.3	943.0	882.1	792.3	744.1	731.4	737.8	744.1	744.1
50°	850.1	821.1	763.4	692.9	657.6	641.5	647.9	651.2	651.2
52.5°	744.1	724.9	667.1	603.0	571.0	561.3	561.3	564.5	564.5
55°	657.6	635.1	583.8	519.6	494.0	481.1	471.6	468.3	474.8
57.5°	574.2	555.0	506.8	445.8	417.0	404.1	384.9	378.5	384.9
60°	500.4	484.3	436.3	378.5	349.7	323.9	301.5	288.6	295.1
62.5°	436.3	417.0	368.8	320.8	288.6	259.8	224.5	205.3	214.9
65°	372.1	356.1	307.9	259.8	227.7	192.5	150.8	137.9	137.9
67.5°	314.4	298.3	253.4	211.8	173.3	131.6	93.1	89.8	93.1
70°	259.8	243.8	205.3	163.6	121.9	80.2	54.6	54.6	54.6
72.5°	214.9	195.7	160.4	118.7	77.0	41.7	28.8	32.1	32.1
75°	166.8	150.8	118.7	80.2	44.9	19.3	16.1	16.1	16.1
77.5°	125.1	112.3	83.4	51.4	22.4	6.4	6.4	6.4	6.4
80°	86.6	73.8	54.6	32.1	12.9	6.4	6.4	6.4	6.4
82.5°	51.4	44.9	32.1	16.1	6.4	3.2	3.2	3.2	3.2
85°	25.6	22.4	12.9	6.4	3.2	3.2	3.2	3.2	3.2
87.5°	6.4	6.4	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)