

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: P582610

Luminaire Tested: **HCC6W45D010MW-HM64560835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582610
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: HCC6W45D010MW-HM64560835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

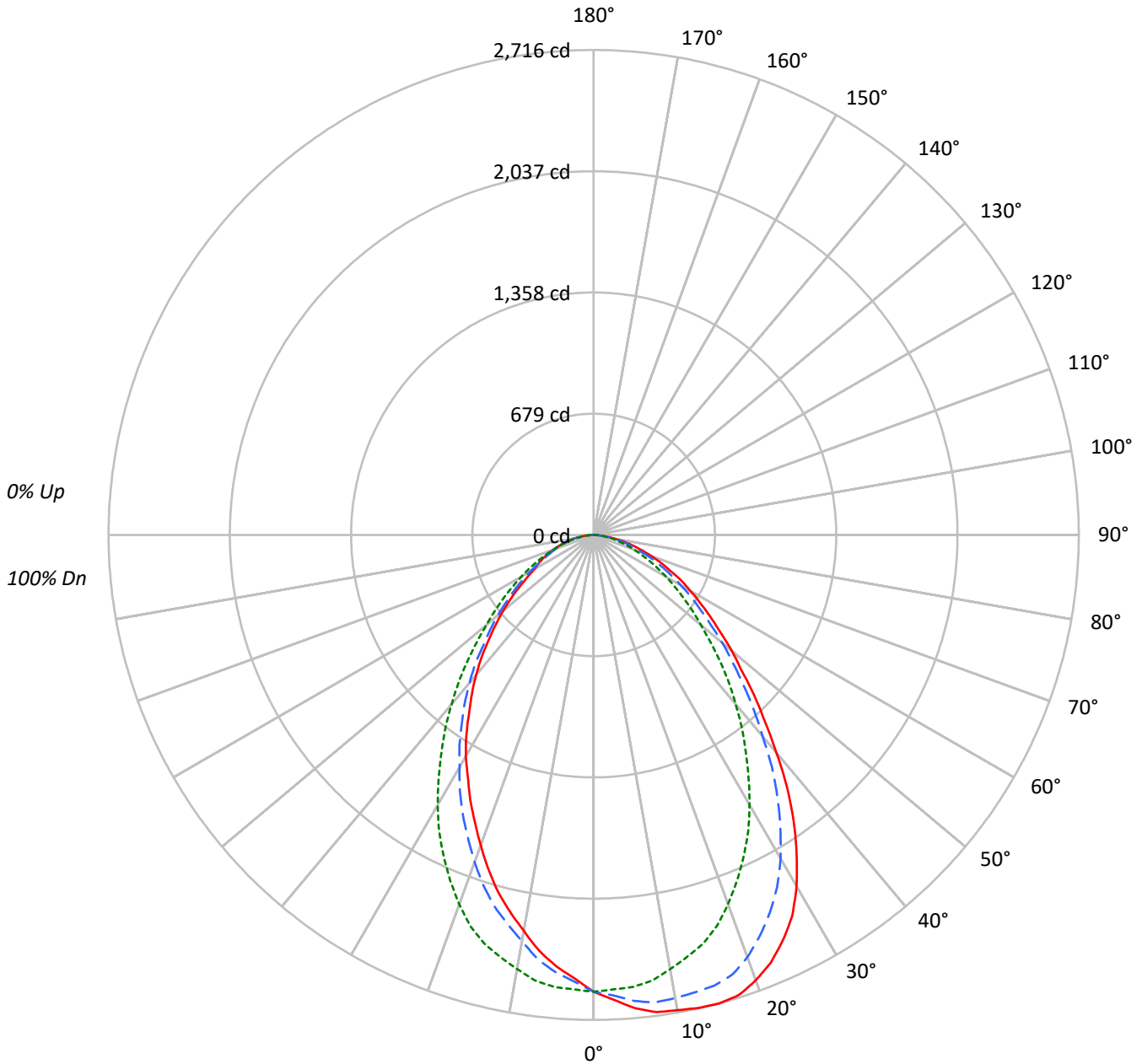
Lumens per Lamp: N/A
Luminaire Lumens: 4764.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{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: P582610
CATALOG NUMBER: HCC6W45D010MW-HM64560835-61WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P582610

CATALOG NUMBER: HCC6W45D010MW-HM64560835-61WWW

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	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°	140230	140230	140230
5°	146450	139814	133375
10°	150443	137411	125337
15°	154161	134428	117430
20°	154853	128344	107856
25°	151599	120158	98915
30°	143832	110492	90660
35°	130641	99300	81332
40°	113828	88451	73173
45°	98491	77411	64325
50°	86036	66650	56373
55°	76012	58569	48361
60°	68317	51345	41905
65°	61187	44661	40640
70°	54641	38067	38067
75°	47403	32068	35732
80°	38041	27181	32611
85°	25977	23839	28179



TEST NUMBER: P582610
 CATALOG NUMBER: HCC6W45D010MW-HM64560835-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	5.0
10°-20°	668.3	14.0
20°-30°	931.3	19.5
30°-40°	959.6	20.1
40°-50°	795.3	16.7
50°-60°	571.5	12.0
60°-70°	364.0	7.6
70°-80°	186.9	3.9
80°-90°	47.5	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°	1840.0	38.6
0°-40°	2799.7	58.8
0°-60°	4166.5	87.4
0°-90°	4764.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4764.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2558	2558	2558	2558	2558	
5°	2661	2620	2541	2458	2424	255
15°	2716	2613	2369	2152	2069	766
25°	2506	2334	1986	1732	1635	1148
35°	1952	1794	1484	1288	1215	1213
45°	1270	1181	998	871	830	983
55°	795	730	613	544	506	716
65°	472	420	344	300	313	472
75°	224	193	151	158	169	239
85°	41	38	38	41	45	53
90°	0	0	0	0	0	



TEST NUMBER: P582610

CATALOG NUMBER: HCC6W45D010MW-HM64560835-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0	2558.0
2.5°	2606.2	2595.8	2582.1	2568.3	2547.6	2523.6	2502.9	2496.0	2485.7
5°	2661.3	2647.5	2619.9	2585.5	2540.7	2496.0	2458.1	2434.1	2423.7
7.5°	2695.7	2678.4	2640.7	2582.1	2516.7	2451.2	2396.2	2361.7	2348.0
10°	2702.6	2685.3	2633.7	2554.6	2468.5	2379.0	2310.1	2268.8	2251.6
12.5°	2712.9	2688.8	2623.4	2530.4	2420.3	2317.0	2230.9	2179.3	2162.1
15°	2716.3	2688.8	2613.1	2499.4	2368.6	2244.7	2151.8	2089.8	2069.1
17.5°	2702.6	2671.6	2582.1	2444.4	2296.4	2165.5	2055.3	1989.9	1962.4
20°	2654.4	2619.9	2516.7	2361.7	2200.0	2062.3	1948.6	1879.7	1848.8
22.5°	2592.4	2547.6	2430.6	2265.3	2096.6	1952.1	1838.4	1769.6	1738.6
25°	2506.3	2465.1	2334.2	2158.7	1986.5	1835.0	1731.7	1659.4	1635.3
27.5°	2406.5	2358.3	2224.0	2048.4	1872.8	1721.4	1621.6	1556.1	1525.1
30°	2272.2	2227.5	2093.2	1917.6	1745.5	1604.3	1501.1	1446.0	1432.2
32.5°	2113.9	2076.0	1945.2	1779.9	1614.6	1483.8	1397.7	1339.2	1325.5
35°	1952.1	1907.3	1793.6	1638.8	1483.8	1366.8	1287.6	1236.0	1215.3
37.5°	1776.5	1735.1	1638.8	1501.1	1363.4	1253.1	1184.3	1139.6	1118.9
40°	1590.6	1559.6	1470.1	1359.9	1236.0	1139.6	1081.0	1043.1	1022.5
42.5°	1418.4	1387.4	1325.5	1222.1	1118.9	1032.8	981.2	946.7	929.6
45°	1270.4	1242.8	1180.9	1091.4	998.5	926.1	871.1	846.9	829.7
47.5°	1122.3	1108.6	1053.5	970.9	884.8	822.9	785.0	757.4	743.7
50°	1008.8	991.5	939.9	853.8	781.5	733.4	698.9	674.8	661.0
52.5°	891.7	874.5	826.3	754.0	695.5	650.7	616.3	595.6	581.8
55°	795.3	781.5	729.8	664.5	612.8	574.9	543.9	519.9	506.0
57.5°	705.8	692.0	643.7	581.8	537.1	502.6	475.1	454.4	437.2
60°	623.1	612.8	564.6	506.0	468.3	433.8	409.7	392.5	382.2
62.5°	550.8	530.2	488.9	437.2	402.8	375.2	351.2	340.9	347.7
65°	471.7	461.3	420.1	375.2	344.3	316.7	299.5	306.4	313.3
67.5°	406.2	392.5	358.0	316.7	289.1	268.5	258.2	272.0	275.4
70°	340.9	327.0	296.1	261.7	237.5	223.8	223.8	234.1	237.5
72.5°	278.8	268.5	241.1	213.5	196.2	185.9	192.8	199.6	203.2
75°	223.8	213.5	192.8	168.7	151.4	151.4	158.4	165.3	168.7
77.5°	172.2	165.3	144.6	127.4	120.5	120.5	127.4	130.8	134.3
80°	120.5	113.7	103.3	92.9	86.1	92.9	99.8	99.8	103.3
82.5°	79.2	75.8	68.9	61.9	61.9	65.5	68.9	72.3	72.3
85°	41.3	41.3	37.9	34.5	37.9	41.3	41.3	44.8	44.8
87.5°	13.7	13.7	13.7	13.7	17.2	17.2	17.2	17.2	17.2
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)