

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: P593320

Luminaire Tested: **HCC6W45D010MW-HM64560850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593320
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-HM64560850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

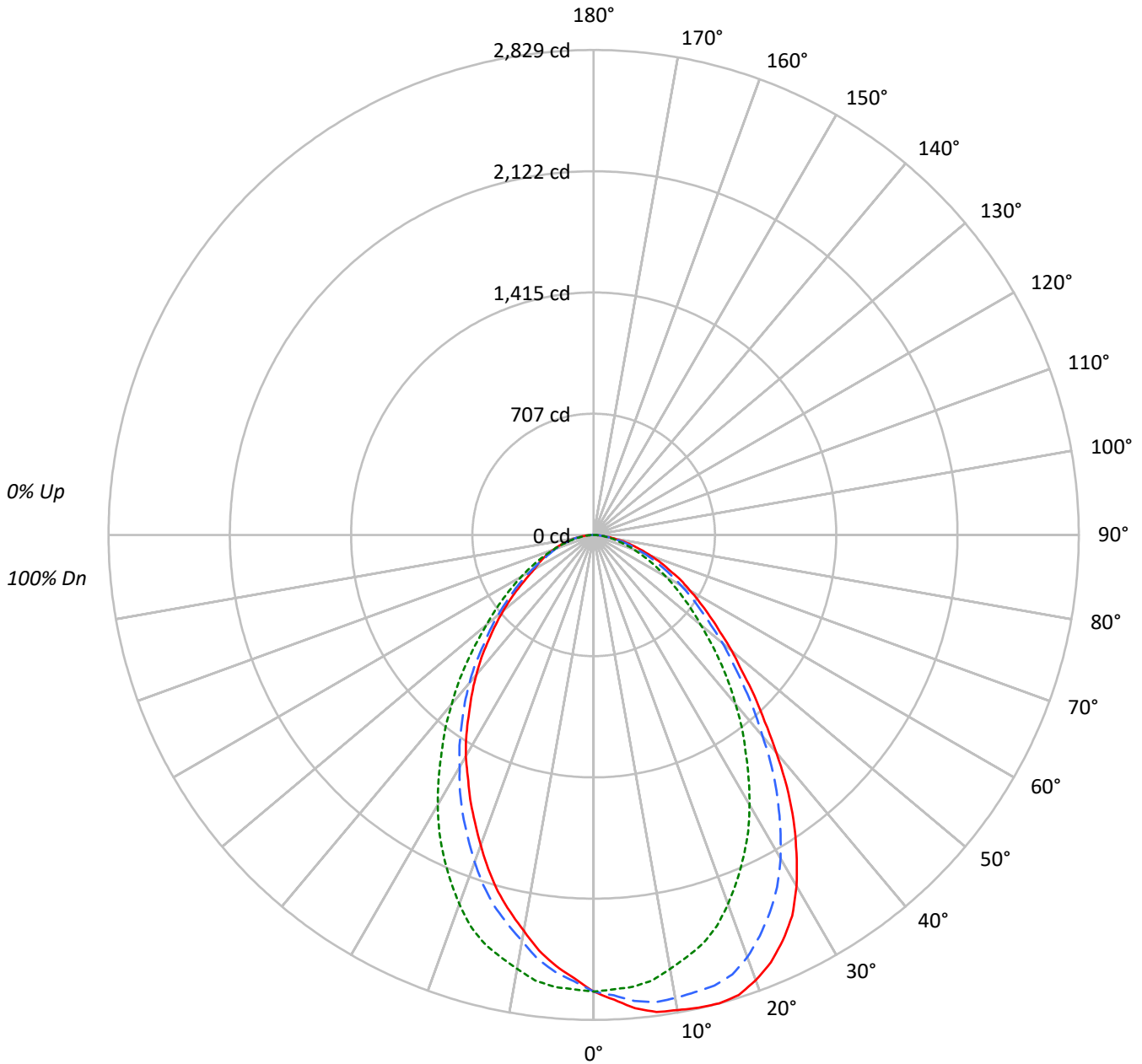
Lumens per Lamp: N/A
Luminaire Lumens: 4962.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P593320
CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P593320

CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WWW

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°	146030	146030	146030
5°	152503	145603	138889
10°	156666	143095	130520
15°	160540	139989	122288
20°	161259	133653	112313
25°	157872	125130	103010
30°	149789	115062	94413
35°	136041	103410	84691
40°	118536	92108	76200
45°	102561	80605	66984
50°	89583	69405	58702
55°	79147	60987	50369
60°	71146	53461	43637
65°	63703	46503	42313
70°	56885	39654	39654
75°	49373	33423	37215
80°	39620	28286	33969
85°	27047	24782	29311



TEST NUMBER: P593320

CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	5.0
10°-20°	695.9	14.0
20°-30°	969.9	19.5
30°-40°	999.3	20.1
40°-50°	828.2	16.7
50°-60°	595.2	12.0
60°-70°	379.0	7.6
70°-80°	194.7	3.9
80°-90°	49.5	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°	1916.2	38.6
0°-40°	2915.5	58.8
0°-60°	4338.9	87.4
0°-90°	4962.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4962.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2664	2664	2664	2664	2664	
5°	2771	2728	2646	2560	2524	266
15°	2829	2721	2467	2241	2155	797
25°	2610	2431	2069	1803	1703	1196
35°	2033	1868	1545	1341	1266	1263
45°	1323	1230	1040	907	864	1024
55°	828	760	638	566	527	746
65°	491	437	358	312	326	492
75°	233	201	158	165	176	248
85°	43	39	39	43	47	55
90°	0	0	0	0	0	



TEST NUMBER: P593320

CATALOG NUMBER: HCC6W45D010MW-HM64560850-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2663.8	2663.8	2663.8	2663.8	2663.8	2663.8	2663.8	2663.8	2663.8
2.5°	2714.0	2703.3	2688.9	2674.6	2653.1	2628.0	2606.4	2599.3	2588.6
5°	2771.3	2757.0	2728.4	2692.5	2645.9	2599.3	2559.8	2534.7	2523.9
7.5°	2807.2	2789.3	2749.9	2688.9	2620.8	2552.7	2495.3	2459.4	2445.1
10°	2814.4	2796.4	2742.7	2660.2	2570.6	2477.4	2405.7	2362.7	2344.7
12.5°	2825.2	2800.1	2731.9	2635.1	2520.4	2412.9	2323.2	2269.4	2251.6
15°	2828.7	2800.1	2721.1	2602.9	2466.6	2337.6	2240.8	2176.3	2154.7
17.5°	2814.4	2782.1	2688.9	2545.5	2391.4	2255.1	2140.4	2072.2	2043.6
20°	2764.2	2728.4	2620.8	2459.4	2291.0	2147.5	2029.3	1957.5	1925.2
22.5°	2699.7	2653.1	2531.2	2359.0	2183.4	2032.8	1914.5	1842.8	1810.5
25°	2610.0	2567.0	2430.8	2247.9	2068.7	1910.9	1803.4	1728.1	1703.0
27.5°	2506.1	2455.9	2316.1	2133.2	1950.3	1792.6	1688.7	1620.5	1588.2
30°	2366.3	2319.6	2179.8	1996.9	1817.7	1670.7	1563.1	1505.8	1491.5
32.5°	2201.4	2161.8	2025.7	1853.6	1681.5	1545.2	1455.6	1394.7	1380.3
35°	2032.8	1986.2	1867.9	1706.6	1545.2	1423.3	1340.9	1287.1	1265.5
37.5°	1849.9	1807.0	1706.6	1563.1	1419.8	1305.0	1233.3	1186.7	1165.1
40°	1656.4	1624.1	1530.9	1416.2	1287.1	1186.7	1125.7	1086.3	1064.8
42.5°	1477.2	1444.9	1380.3	1272.7	1165.1	1075.5	1021.8	985.9	968.0
45°	1322.9	1294.3	1229.8	1136.5	1039.7	964.4	907.1	882.0	864.0
47.5°	1168.8	1154.5	1097.1	1011.0	921.4	856.9	817.5	788.7	774.4
50°	1050.4	1032.6	978.8	889.1	813.8	763.6	727.8	702.7	688.3
52.5°	928.5	910.6	860.4	785.2	724.2	677.6	641.7	620.3	605.9
55°	828.1	813.8	760.1	692.0	638.1	598.7	566.4	541.3	527.0
57.5°	735.0	720.6	670.5	605.9	559.3	523.4	494.8	473.3	455.4
60°	648.9	638.1	588.0	527.0	487.6	451.7	426.6	408.7	398.0
62.5°	573.6	552.1	509.1	455.4	419.5	390.8	365.7	354.9	362.1
65°	491.1	480.5	437.4	390.8	358.5	329.8	311.9	319.1	326.2
67.5°	423.1	408.7	372.9	329.8	301.1	279.6	268.9	283.3	286.8
70°	354.9	340.6	308.4	272.5	247.4	233.1	233.1	243.7	247.4
72.5°	290.4	279.6	251.0	222.3	204.3	193.5	200.8	208.0	211.5
75°	233.1	222.3	200.8	175.7	157.8	157.8	164.9	172.1	175.7
77.5°	179.2	172.1	150.6	132.7	125.5	125.5	132.7	136.2	139.8
80°	125.5	118.4	107.6	96.8	89.6	96.8	103.9	103.9	107.6
82.5°	82.5	78.8	71.7	64.5	64.5	68.2	71.7	75.3	75.3
85°	43.0	43.0	39.4	35.9	39.4	43.0	43.0	46.6	46.6
87.5°	14.3	14.3	14.3	14.3	17.9	17.9	17.9	17.9	17.9
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)