

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: P582629

Luminaire Tested: **HCC6W45D010MW-HM64560840-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W45D010MW-HM64560840-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

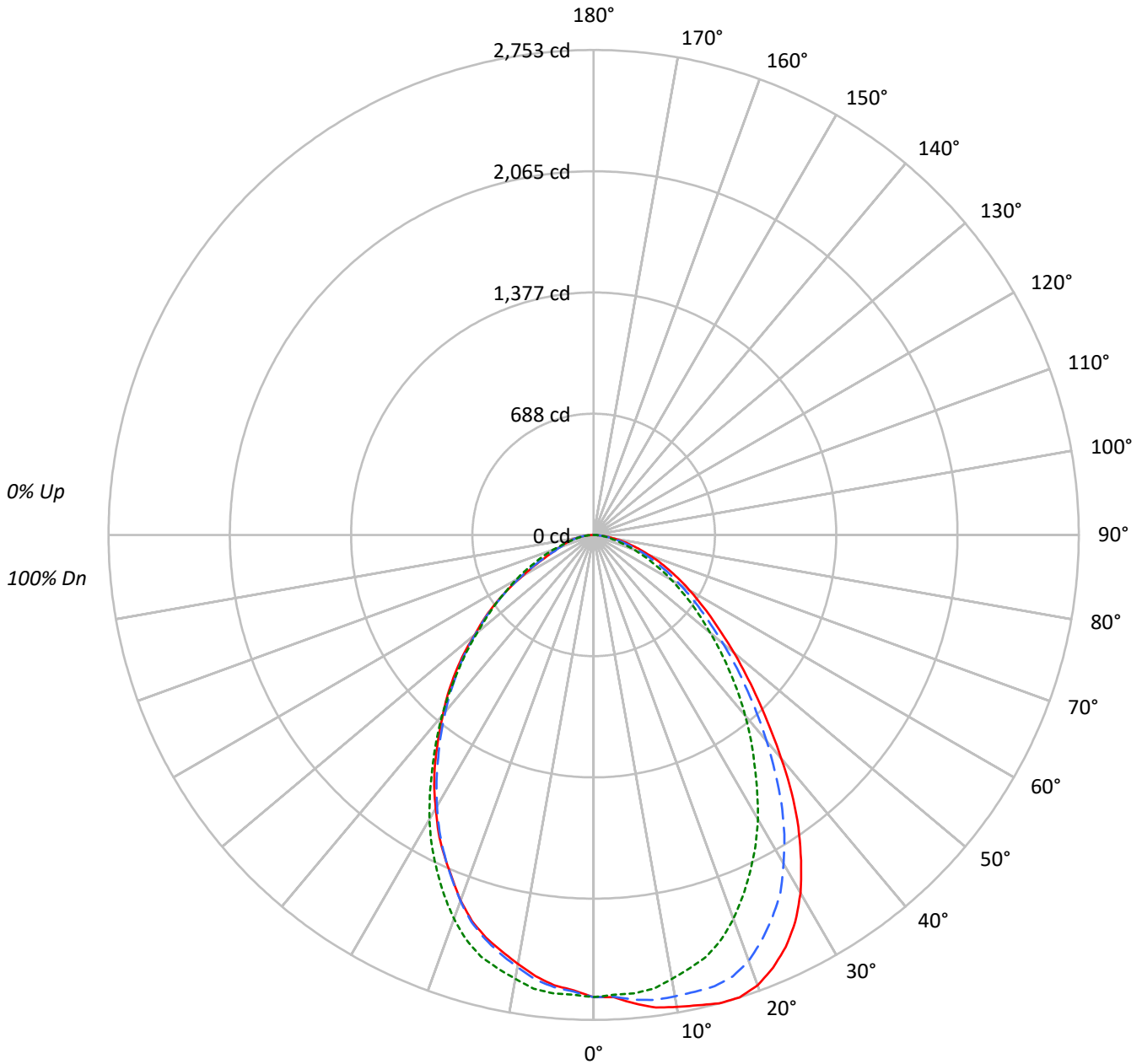
Lumens per Lamp: N/A
Luminaire Lumens: 5137.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): 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: P582629
CATALOG NUMBER: HCC6W45D010MW-HM64560840-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582629

CATALOG NUMBER: HCC6W45D010MW-HM64560840-61WWWB

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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143821	143821	143821
5°	146934	143776	141217
10°	151428	142449	137662
15°	156221	140557	134252
20°	158698	135281	128794
25°	156088	127253	121398
30°	148599	117974	113435
35°	135513	106495	104815
40°	118493	95672	95157
45°	101972	84195	86141
50°	88645	73362	74889
55°	77417	64399	65078
60°	68766	55807	51081
65°	61368	46957	39057
70°	53999	38484	32746
75°	46301	30352	31136
80°	37315	26045	30559
85°	24782	22581	27047



TEST NUMBER: P582629

CATALOG NUMBER: HCC6W45D010MW-HM64560840-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	4.8
10°-20°	707.1	13.8
20°-30°	1009.5	19.6
30°-40°	1057.4	20.6
40°-50°	890.3	17.3
50°-60°	633.6	12.3
60°-70°	370.9	7.2
70°-80°	175.5	3.4
80°-90°	45.2	0.9
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°	1965.0	38.2
0°-40°	3022.4	58.8
0°-60°	4546.3	88.5
0°-90°	5137.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2624	2624	2624	2624	2624	
5°	2670	2649	2613	2577	2566	257
15°	2753	2652	2477	2376	2366	777
25°	2580	2398	2104	2004	2007	1181
35°	2025	1856	1591	1538	1566	1258
45°	1315	1218	1086	1090	1111	1021
55°	810	742	674	674	681	730
65°	473	419	362	305	301	472
75°	219	183	143	140	147	235
85°	39	32	36	43	43	51
90°	0	0	0	0	0	



TEST NUMBER: P582629

CATALOG NUMBER: HCC6W45D010MW-HM64560840-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5
2.5°	2627.1	2627.1	2623.5	2619.9	2612.7	2601.9	2594.8	2587.6	2587.6
5°	2670.1	2662.9	2648.6	2630.7	2612.7	2591.3	2577.0	2566.2	2566.2
7.5°	2706.0	2691.6	2662.9	2630.7	2598.4	2569.7	2544.7	2530.3	2526.8
10°	2720.3	2702.4	2659.3	2609.2	2559.0	2519.6	2490.9	2473.0	2473.0
12.5°	2734.6	2713.1	2655.8	2584.1	2519.6	2465.8	2437.1	2422.8	2419.2
15°	2752.6	2723.8	2652.2	2562.5	2476.6	2415.7	2376.3	2365.5	2365.5
17.5°	2752.6	2716.7	2627.1	2516.0	2408.5	2340.4	2304.5	2293.8	2297.3
20°	2720.3	2680.9	2573.3	2437.1	2318.9	2247.2	2211.3	2204.2	2207.7
22.5°	2659.3	2612.7	2490.9	2344.0	2215.0	2139.7	2107.4	2107.4	2103.8
25°	2580.5	2530.3	2397.7	2243.6	2103.8	2028.6	2003.5	2007.0	2007.0
27.5°	2476.6	2426.4	2293.8	2128.9	1989.2	1913.9	1895.9	1903.1	1906.7
30°	2347.5	2293.8	2154.0	1992.7	1863.7	1788.5	1777.7	1788.5	1792.0
32.5°	2189.9	2150.5	2014.3	1849.4	1727.5	1663.0	1659.4	1670.1	1684.5
35°	2024.9	1982.0	1856.5	1706.0	1591.3	1537.6	1537.6	1555.5	1566.2
37.5°	1845.8	1802.8	1688.1	1562.7	1465.9	1415.7	1422.8	1440.8	1444.3
40°	1655.8	1623.5	1526.8	1419.3	1336.9	1297.5	1308.1	1326.1	1329.7
42.5°	1476.6	1448.0	1369.1	1272.4	1211.4	1182.7	1197.0	1218.5	1225.8
45°	1315.3	1283.0	1218.5	1136.2	1086.0	1071.7	1089.6	1103.9	1111.1
47.5°	1168.4	1139.7	1086.0	1010.7	974.9	967.7	985.6	992.8	1000.0
50°	1039.4	1010.7	956.9	888.8	860.2	860.2	874.5	881.6	878.1
52.5°	913.9	888.8	838.7	781.3	763.4	763.4	774.2	777.7	784.9
55°	810.0	784.9	741.9	688.1	673.8	666.6	673.8	673.8	680.9
57.5°	713.2	691.7	652.3	602.1	584.2	577.0	573.5	569.8	577.0
60°	627.2	609.3	566.3	523.3	509.0	491.0	476.7	462.4	465.9
62.5°	548.4	530.4	491.0	448.0	433.7	408.6	390.6	372.8	379.9
65°	473.1	455.1	419.3	383.5	362.0	333.4	304.6	293.8	301.1
67.5°	405.0	390.6	354.8	318.9	301.1	268.9	240.1	240.1	243.7
70°	336.9	322.6	293.8	261.6	240.1	211.5	200.7	204.3	204.3
72.5°	276.0	265.2	236.6	207.9	186.4	168.4	168.4	172.1	175.6
75°	218.6	211.5	182.8	157.7	143.3	132.7	139.8	143.3	147.0
77.5°	168.4	157.7	136.2	118.2	107.6	111.1	118.2	121.9	125.4
80°	118.2	114.7	96.8	86.0	82.5	86.0	93.1	96.8	96.8
82.5°	75.3	71.7	60.9	57.4	57.4	60.9	68.2	68.2	68.2
85°	39.4	35.9	32.3	32.3	35.9	39.4	43.0	43.0	43.0
87.5°	14.3	10.8	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)