

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: P582755

Luminaire Tested: **HCC6W50D010MB-HM64560835-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582755
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: HCC6W50D010MB-HM64560835-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

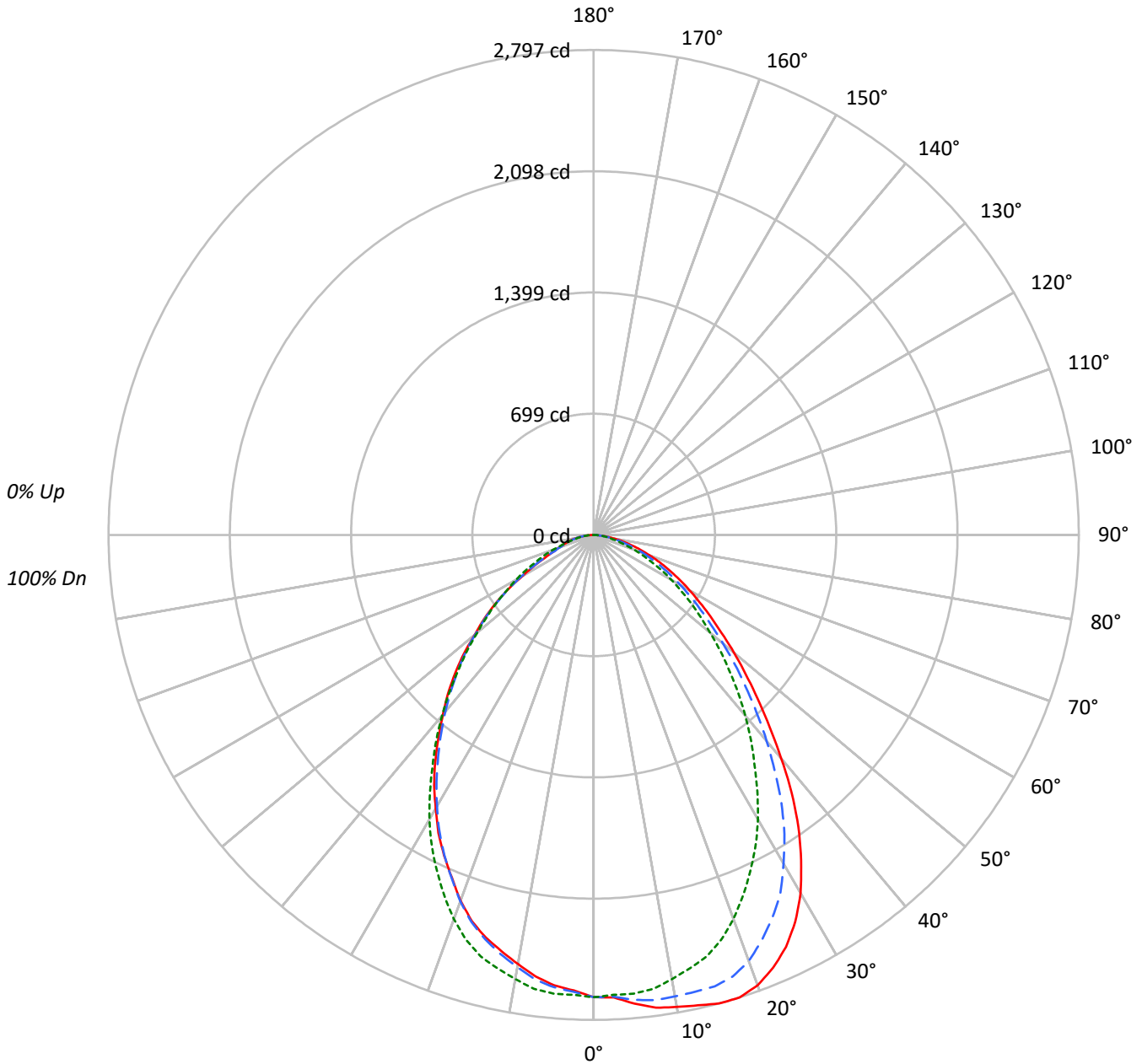
Lumens per Lamp: N/A
Luminaire Lumens: 5221.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P582755
CATALOG NUMBER: HCC6W50D010MB-HM64560835-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582755

CATALOG NUMBER: HCC6W50D010MB-HM64560835-61WWWB

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	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			
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146156	146156	146156
5°	149323	146115	143512
10°	153888	144765	139899
15°	158758	142839	136431
20°	161277	137480	130894
25°	158622	129328	123376
30°	151017	119892	115277
35°	137721	108221	106515
40°	120418	97225	96703
45°	103639	85559	87544
50°	90087	74556	76108
55°	78678	65441	66148
60°	69885	56706	51915
65°	62367	47722	39693
70°	54881	39109	33275
75°	47043	30861	31623
80°	37947	26424	31065
85°	25160	22895	27487



TEST NUMBER: P582755
 CATALOG NUMBER: HCC6W50D010MB-HM64560835-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	4.8
10°-20°	718.6	13.8
20°-30°	1025.9	19.6
30°-40°	1074.6	20.6
40°-50°	904.7	17.3
50°-60°	643.9	12.3
60°-70°	376.9	7.2
70°-80°	178.4	3.4
80°-90°	45.9	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°	1996.9	38.2
0°-40°	3071.5	58.8
0°-60°	4620.2	88.5
0°-90°	5221.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5221.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2666	2666	2666	2666	2666	
5°	2714	2692	2655	2619	2608	261
15°	2797	2695	2517	2415	2404	790
25°	2622	2437	2138	2036	2040	1200
35°	2058	1887	1617	1563	1592	1278
45°	1337	1238	1104	1107	1129	1038
55°	823	754	685	685	692	742
65°	481	426	368	310	306	479
75°	222	186	146	142	149	239
85°	40	33	36	44	44	52
90°	0	0	0	0	0	

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



TEST NUMBER: P582755

CATALOG NUMBER: HCC6W50D010MB-HM64560835-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1	2666.1
2.5°	2669.8	2669.8	2666.1	2662.6	2655.2	2644.3	2637.1	2629.7	2629.7
5°	2713.5	2706.3	2691.6	2673.4	2655.2	2633.4	2618.9	2607.9	2607.9
7.5°	2750.0	2735.3	2706.3	2673.4	2640.7	2611.5	2586.0	2571.5	2567.8
10°	2764.5	2746.3	2702.6	2651.6	2600.6	2560.5	2531.4	2513.2	2513.2
12.5°	2779.1	2757.2	2698.9	2626.1	2560.5	2505.8	2476.8	2462.1	2458.6
15°	2797.3	2768.1	2695.3	2604.2	2516.8	2454.9	2414.8	2403.9	2403.9
17.5°	2797.3	2760.8	2669.8	2556.9	2447.6	2378.4	2342.0	2331.1	2334.7
20°	2764.5	2724.4	2615.2	2476.8	2356.6	2283.7	2247.3	2240.0	2243.7
22.5°	2702.6	2655.2	2531.4	2382.1	2251.0	2174.5	2141.6	2141.6	2138.1
25°	2622.4	2571.5	2436.6	2280.0	2138.1	2061.6	2036.0	2039.7	2039.7
27.5°	2516.8	2465.8	2331.1	2163.5	2021.5	1945.0	1926.8	1934.0	1937.7
30°	2385.7	2331.1	2189.0	2025.1	1894.0	1817.6	1806.6	1817.6	1821.1
32.5°	2225.5	2185.3	2047.0	1879.4	1755.6	1690.0	1686.3	1697.3	1711.9
35°	2057.9	2014.2	1886.8	1733.7	1617.1	1562.6	1562.6	1580.8	1591.6
37.5°	1875.8	1832.1	1715.5	1588.1	1489.7	1438.7	1446.0	1464.2	1467.9
40°	1682.7	1650.0	1551.6	1442.4	1358.6	1318.5	1329.5	1347.6	1351.3
42.5°	1500.6	1471.5	1391.3	1293.0	1231.1	1201.9	1216.5	1238.4	1245.7
45°	1336.8	1303.9	1238.4	1154.7	1103.6	1089.0	1107.3	1121.8	1129.2
47.5°	1187.4	1158.2	1103.6	1027.1	990.7	983.4	1001.6	1008.9	1016.3
50°	1056.3	1027.1	972.4	903.3	874.2	874.2	888.7	896.0	892.4
52.5°	928.7	903.3	852.3	794.0	775.8	775.8	786.8	790.3	797.6
55°	823.2	797.6	754.0	699.3	684.7	677.4	684.7	684.7	692.1
57.5°	724.8	702.9	662.9	611.9	593.7	586.4	582.8	579.2	586.4
60°	637.4	619.2	575.5	531.8	517.2	499.0	484.4	469.8	473.5
62.5°	557.3	539.0	499.0	455.3	440.7	415.2	397.1	378.7	386.1
65°	480.8	462.6	426.1	389.7	367.9	338.7	309.5	298.7	306.0
67.5°	411.6	397.1	360.6	324.2	306.0	273.2	244.0	244.0	247.7
70°	342.4	327.8	298.7	265.8	244.0	214.9	204.0	207.6	207.6
72.5°	280.5	269.5	240.3	211.3	189.4	171.2	171.2	174.8	178.4
75°	222.1	214.9	185.8	160.3	145.7	134.8	142.1	145.7	149.3
77.5°	171.2	160.3	138.4	120.2	109.2	112.9	120.2	123.9	127.4
80°	120.2	116.6	98.4	87.4	83.7	87.4	94.7	98.4	98.4
82.5°	76.5	72.9	61.9	58.2	58.2	61.9	69.2	69.2	69.2
85°	40.0	36.4	32.8	32.8	36.4	40.0	43.7	43.7	43.7
87.5°	14.5	11.0	14.5	14.5	18.2	18.2	18.2	18.2	18.2
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)