

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: P582754

Luminaire Tested: **HCC6W50D010SL-HM64560835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582754
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: HCC6W50D010SL-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

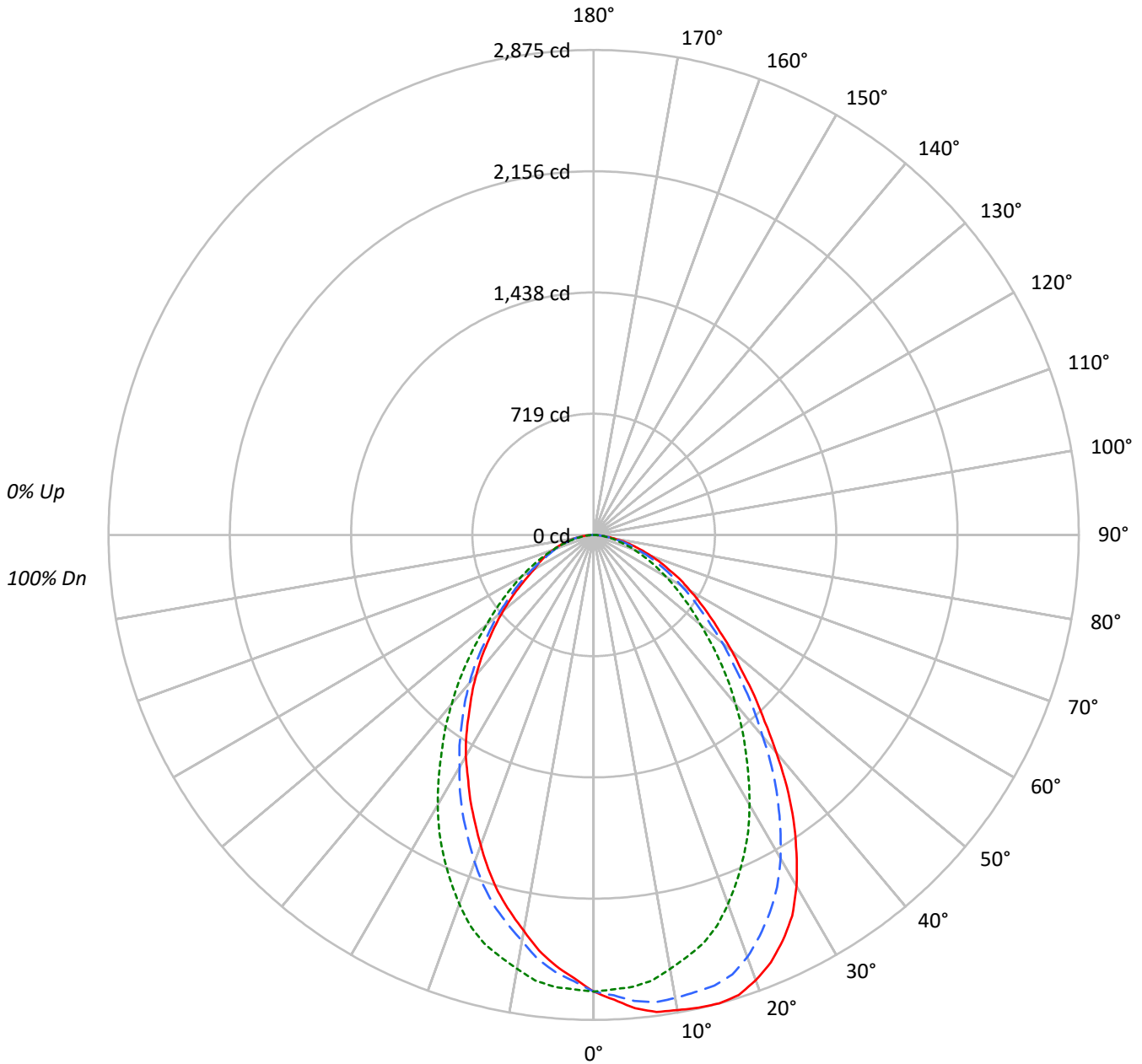
Lumens per Lamp: N/A
Luminaire Lumens: 5042.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P582754
CATALOG NUMBER: HCC6W50D010SL-HM64560835-61WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P582754

CATALOG NUMBER: HCC6W50D010SL-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°	148404	148404	148404
5°	154985	147969	141151
10°	159210	145421	132646
15°	163151	142271	124274
20°	163878	135823	114145
25°	160443	127163	104679
30°	152226	116929	95945
35°	138256	105096	86070
40°	120461	93611	77445
45°	104236	81915	68077
50°	91042	70539	59657
55°	80446	61981	51191
60°	72308	54327	44339
65°	64754	47255	43001
70°	57814	40295	40295
75°	50156	33953	37829
80°	40251	28760	34537
85°	27487	25160	29814



TEST NUMBER: P582754
 CATALOG NUMBER: HCC6W50D010SL-HM64560835-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	5.0
10°-20°	707.3	14.0
20°-30°	985.6	19.5
30°-40°	1015.6	20.1
40°-50°	841.7	16.7
50°-60°	604.9	12.0
60°-70°	385.2	7.6
70°-80°	197.8	3.9
80°-90°	50.3	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°	1947.3	38.6
0°-40°	2962.9	58.8
0°-60°	4409.4	87.4
0°-90°	5042.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2707	2707	2707	2707	2707	
5°	2816	2773	2689	2602	2565	270
15°	2875	2765	2507	2277	2190	810
25°	2652	2470	2102	1833	1731	1215
35°	2066	1898	1570	1363	1286	1283
45°	1344	1250	1057	922	878	1041
55°	842	772	648	576	536	758
65°	499	444	364	317	332	500
75°	237	204	160	168	179	253
85°	44	40	40	44	47	56
90°	0	0	0	0	0	



TEST NUMBER: P582754

CATALOG NUMBER: HCC6W50D010SL-HM64560835-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1
2.5°	2758.1	2747.2	2732.6	2718.1	2696.2	2670.7	2648.9	2641.5	2630.6
5°	2816.4	2801.8	2772.8	2736.3	2688.9	2641.5	2601.5	2576.0	2565.0
7.5°	2852.8	2834.6	2794.6	2732.6	2663.4	2594.2	2535.8	2499.5	2484.8
10°	2860.1	2842.0	2787.3	2703.4	2612.4	2517.7	2444.8	2401.1	2382.9
12.5°	2871.1	2845.6	2776.3	2678.0	2561.4	2452.1	2360.9	2306.4	2288.1
15°	2874.7	2845.6	2765.4	2645.2	2506.8	2375.6	2277.2	2211.7	2189.7
17.5°	2860.1	2827.3	2732.6	2586.9	2430.3	2291.7	2175.2	2106.0	2076.8
20°	2809.1	2772.8	2663.4	2499.5	2328.2	2182.5	2062.3	1989.4	1956.6
22.5°	2743.6	2696.2	2572.3	2397.4	2218.9	2065.9	1945.6	1872.7	1840.0
25°	2652.5	2608.7	2470.3	2284.5	2102.3	1942.0	1832.7	1756.1	1730.6
27.5°	2546.8	2495.8	2353.7	2167.8	1982.1	1821.8	1716.1	1646.9	1614.1
30°	2404.8	2357.4	2215.2	2029.4	1847.2	1697.9	1588.6	1530.2	1515.7
32.5°	2237.2	2197.0	2058.6	1883.7	1708.8	1570.4	1479.3	1417.3	1402.8
35°	2065.9	2018.4	1898.2	1734.3	1570.4	1446.5	1362.6	1308.1	1286.1
37.5°	1880.0	1836.3	1734.3	1588.6	1442.8	1326.3	1253.4	1206.0	1184.2
40°	1683.3	1650.6	1555.7	1439.2	1308.1	1206.0	1144.0	1104.0	1082.2
42.5°	1501.2	1468.3	1402.8	1293.4	1184.2	1093.0	1038.5	1002.0	983.8
45°	1344.5	1315.3	1249.7	1155.0	1056.6	980.1	921.8	896.3	878.1
47.5°	1187.7	1173.2	1114.9	1027.5	936.4	870.8	830.7	801.5	787.0
50°	1067.5	1049.3	994.6	903.6	827.1	776.0	739.7	714.2	699.5
52.5°	943.6	925.4	874.4	797.9	736.0	688.6	652.1	630.3	615.8
55°	841.7	827.1	772.4	703.2	648.5	608.5	575.6	550.2	535.6
57.5°	746.9	732.3	681.3	615.8	568.4	531.9	502.8	480.9	462.7
60°	659.5	648.5	597.6	535.6	495.5	459.1	433.5	415.4	404.4
62.5°	582.9	561.1	517.4	462.7	426.3	397.2	371.7	360.7	368.0
65°	499.2	488.2	444.5	397.2	364.3	335.2	317.0	324.3	331.5
67.5°	429.9	415.4	379.0	335.2	306.0	284.1	273.3	287.8	291.5
70°	360.7	346.2	313.3	276.9	251.4	236.8	236.8	247.8	251.4
72.5°	295.1	284.1	255.1	225.9	207.7	196.8	204.1	211.3	214.9
75°	236.8	225.9	204.1	178.6	160.3	160.3	167.6	174.9	178.6
77.5°	182.2	174.9	153.1	134.8	127.5	127.5	134.8	138.4	142.1
80°	127.5	120.2	109.4	98.4	91.1	98.4	105.7	105.7	109.4
82.5°	83.9	80.2	72.9	65.5	65.5	69.2	72.9	76.5	76.5
85°	43.7	43.7	40.0	36.5	40.0	43.7	43.7	47.4	47.4
87.5°	14.5	14.5	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)