

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: P593356

Luminaire Tested: **HCC6S50D010SL-HM64560850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593356
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: HCC6S50D010SL-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

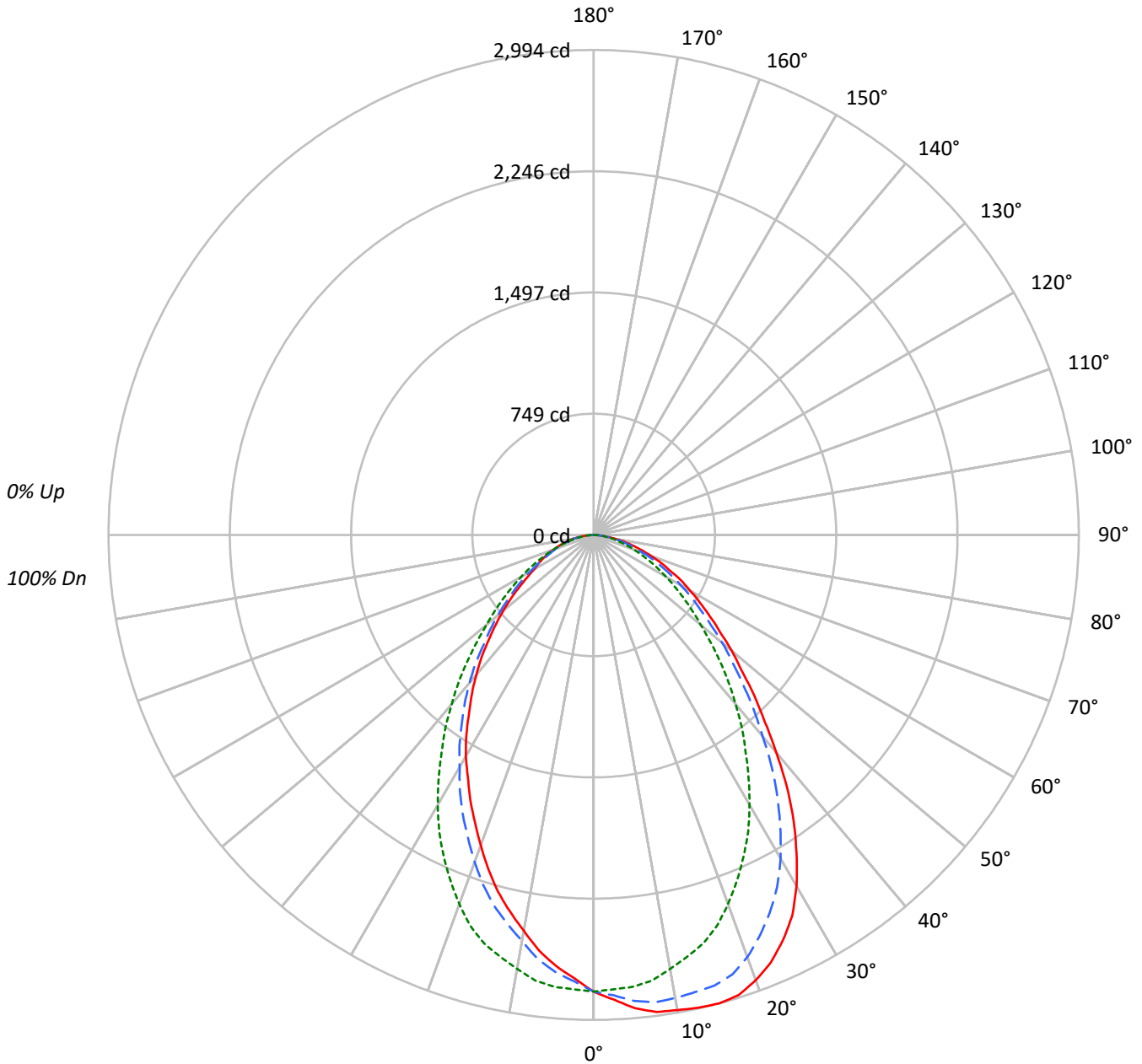
Lumens per Lamp: N/A
Luminaire Lumens: 5251.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P593356
CATALOG NUMBER: HCC6S50D010SL-HM64560850-61WWW

Luminous Intensity Polar Plot





TEST NUMBER: P593356

CATALOG NUMBER: HCC6S50D010SL-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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76					76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58					58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51					51			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	154549	154549	154549
5°	161402	154094	146995
10°	165801	151433	138129
15°	169904	148156	129422
20°	170657	141447	118865
25°	167078	132425	109016
30°	158518	121772	99914
35°	143972	109439	89637
40°	125449	97483	80644
45°	108546	85303	70891
50°	94811	73456	62122
55°	83763	64552	53312
60°	75301	56574	46170
65°	67426	49227	44791
70°	60218	41962	41962
75°	52232	35372	39375
80°	41893	29928	35926
85°	28682	26229	31072



TEST NUMBER: P593356
 CATALOG NUMBER: HCC6S50D010SL-HM64560850-61WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	5.0
10°-20°	736.5	14.0
20°-30°	1026.4	19.5
30°-40°	1057.6	20.1
40°-50°	876.5	16.7
50°-60°	629.9	12.0
60°-70°	401.2	7.6
70°-80°	206.0	3.9
80°-90°	52.4	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°	2027.9	38.6
0°-40°	3085.5	58.8
0°-60°	4591.9	87.4
0°-90°	5251.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2819	2819	2819	2819	2819	
5°	2933	2887	2800	2709	2671	281
15°	2994	2880	2610	2371	2280	844
25°	2762	2572	2189	1908	1802	1266
35°	2151	1977	1635	1419	1339	1336
45°	1400	1302	1100	960	914	1084
55°	876	804	675	600	558	790
65°	520	463	380	330	345	521
75°	247	212	167	175	186	263
85°	46	42	42	46	49	58
90°	0	0	0	0	0	

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



TEST NUMBER: P593356

CATALOG NUMBER: HCC6S50D010SL-HM64560850-61WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2	2819.2
2.5°	2872.3	2860.9	2845.7	2830.5	2807.7	2781.1	2758.5	2750.8	2739.4
5°	2933.0	2917.8	2887.4	2849.5	2800.2	2750.8	2709.1	2682.5	2671.2
7.5°	2970.9	2951.9	2910.2	2845.7	2773.6	2701.5	2640.8	2602.8	2587.7
10°	2978.5	2959.5	2902.7	2815.4	2720.4	2621.8	2546.0	2500.4	2481.4
12.5°	2989.9	2963.4	2891.2	2788.8	2667.4	2553.6	2458.7	2401.8	2382.8
15°	2993.7	2963.4	2879.9	2754.7	2610.5	2473.8	2371.4	2303.1	2280.4
17.5°	2978.5	2944.4	2845.7	2694.0	2530.8	2386.6	2265.2	2193.1	2162.8
20°	2925.3	2887.4	2773.6	2602.8	2424.6	2272.7	2147.5	2071.7	2037.5
22.5°	2857.1	2807.7	2678.7	2496.6	2310.7	2151.3	2026.1	1950.3	1916.1
25°	2762.2	2716.7	2572.5	2379.0	2189.3	2022.3	1908.5	1828.8	1802.3
27.5°	2652.2	2599.0	2451.0	2257.6	2064.0	1897.2	1787.1	1715.0	1680.9
30°	2504.2	2454.9	2307.0	2113.4	1923.7	1768.1	1654.3	1593.6	1578.4
32.5°	2329.6	2288.0	2143.8	1961.6	1779.5	1635.3	1540.5	1476.0	1460.8
35°	2151.3	2102.1	1976.8	1806.1	1635.3	1506.4	1419.1	1362.2	1339.4
37.5°	1957.9	1912.3	1806.1	1654.3	1502.6	1381.1	1305.2	1255.9	1233.1
40°	1753.0	1718.8	1620.1	1498.7	1362.2	1255.9	1191.4	1149.7	1126.9
42.5°	1563.3	1529.0	1460.8	1346.9	1233.1	1138.2	1081.3	1043.4	1024.4
45°	1400.1	1369.7	1301.5	1202.7	1100.3	1020.6	959.9	933.3	914.4
47.5°	1237.0	1221.7	1161.0	1070.0	975.2	906.8	865.1	834.7	819.6
50°	1111.7	1092.8	1035.9	941.0	861.3	808.2	770.2	743.7	728.4
52.5°	982.7	963.7	910.7	831.0	766.5	717.1	679.2	656.4	641.3
55°	876.4	861.3	804.4	732.3	675.4	633.6	599.5	572.9	557.8
57.5°	777.8	762.7	709.5	641.3	591.9	554.0	523.7	500.9	481.8
60°	686.8	675.4	622.3	557.8	516.0	478.1	451.5	432.6	421.1
62.5°	607.0	584.4	538.8	481.8	443.9	413.6	387.0	375.7	383.2
65°	519.8	508.4	463.0	413.6	379.5	349.1	330.1	337.6	345.3
67.5°	447.7	432.6	394.6	349.1	318.8	296.0	284.6	299.7	303.5
70°	375.7	360.4	326.3	288.4	261.8	246.6	246.6	258.0	261.8
72.5°	307.3	296.0	265.6	235.3	216.2	204.9	212.5	220.0	223.9
75°	246.6	235.3	212.5	185.9	167.0	167.0	174.6	182.1	185.9
77.5°	189.7	182.1	159.3	140.4	132.7	132.7	140.4	144.2	148.0
80°	132.7	125.2	113.8	102.4	94.8	102.4	110.1	110.1	113.8
82.5°	87.3	83.5	75.9	68.3	68.3	72.0	75.9	79.7	79.7
85°	45.6	45.6	41.7	37.9	41.7	45.6	45.6	49.4	49.4
87.5°	15.2	15.2	15.2	15.2	19.0	19.0	19.0	19.0	19.0
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)