

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: P582729

Luminaire Tested: **HCC6S50D010SL-HM64560830-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S50D010SL-HM64560830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

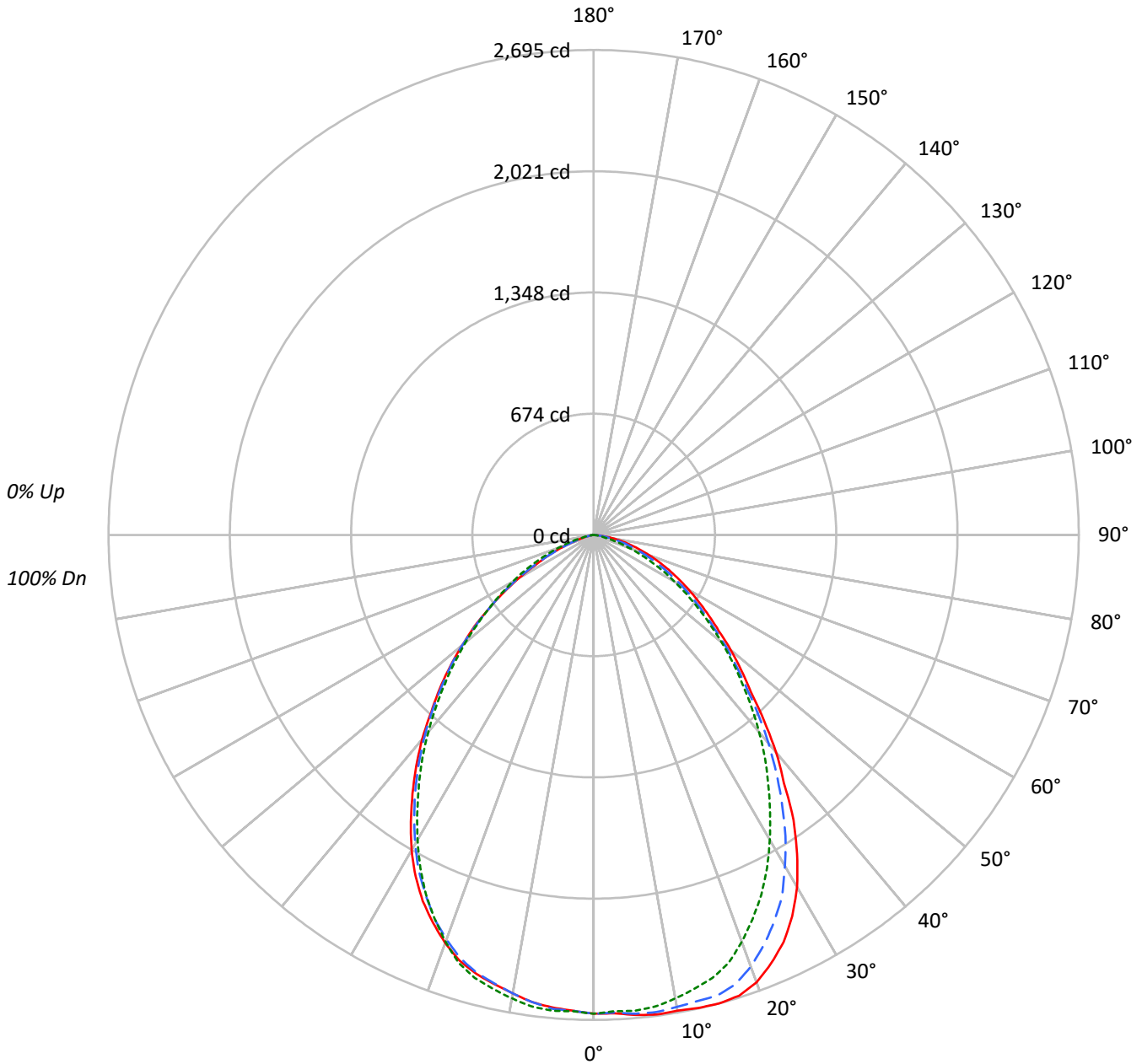
Lumens per Lamp: N/A
Luminaire Lumens: 5213.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582729
CATALOG NUMBER: HCC6S50D010SL-HM64560830-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P582729

CATALOG NUMBER: HCC6S50D010SL-HM64560830-61RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53								
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35								
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	145855	145855	145855
5°	147364	146026	145063
10°	149457	145577	144024
15°	152975	144666	143276
20°	154398	140356	140765
25°	151013	133296	135830
30°	143028	123829	128026
35°	129516	113180	117376
40°	112783	102306	106049
45°	95700	90560	93800
50°	84756	79110	81183
55°	74654	67658	67314
60°	66903	56958	52375
65°	59695	45686	37553
70°	52525	32970	23465
75°	44332	19931	13280
80°	34127	8808	5525
85°	19750	2201	2201



TEST NUMBER: P582729
 CATALOG NUMBER: HCC6S50D010SL-HM64560830-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	4.8
10°-20°	725.8	13.9
20°-30°	1049.2	20.1
30°-40°	1104.0	21.2
40°-50°	928.1	17.8
50°-60°	651.4	12.5
60°-70°	358.3	6.9
70°-80°	127.2	2.4
80°-90°	16.7	0.3
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°	2027.6	38.9
0°-40°	3131.6	60.1
0°-60°	4711.1	90.4
0°-90°	5213.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5213.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2661	2661	2661	2661	2661	
5°	2678	2671	2654	2643	2636	256
15°	2695	2650	2549	2518	2524	761
25°	2497	2371	2204	2207	2246	1142
35°	1935	1824	1691	1726	1754	1199
45°	1234	1200	1168	1196	1210	968
55°	781	739	708	708	704	703
65°	460	412	352	290	290	458
75°	209	167	94	63	63	225
85°	31	18	4	4	4	43
90°	0	0	0	0	0	

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



TEST NUMBER: P582729

CATALOG NUMBER: HCC6S50D010SL-HM64560830-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6	2660.6
2.5°	2660.6	2660.6	2657.0	2657.0	2650.0	2650.0	2646.6	2646.6	2646.6
5°	2677.9	2677.9	2670.9	2660.6	2653.6	2643.1	2643.1	2639.7	2636.1
7.5°	2688.4	2684.9	2674.5	2660.6	2643.1	2625.7	2618.6	2622.2	2618.6
10°	2684.9	2677.9	2664.0	2636.1	2615.2	2590.8	2587.3	2583.8	2587.3
12.5°	2691.9	2681.5	2653.6	2618.6	2583.8	2555.9	2552.4	2552.4	2555.9
15°	2695.4	2684.9	2650.0	2597.7	2549.0	2521.1	2517.5	2521.1	2524.5
17.5°	2684.9	2670.9	2618.6	2549.0	2493.2	2465.2	2465.2	2472.2	2479.2
20°	2646.6	2625.7	2552.4	2468.8	2405.9	2385.0	2392.0	2405.9	2412.9
22.5°	2576.8	2552.4	2468.8	2374.6	2308.4	2290.9	2308.4	2325.7	2332.7
25°	2496.6	2468.8	2371.1	2273.4	2203.7	2182.8	2207.2	2235.2	2245.6
27.5°	2388.6	2357.2	2266.5	2155.0	2085.2	2074.8	2102.7	2133.9	2140.9
30°	2259.5	2224.6	2123.6	2018.9	1956.2	1952.7	1984.1	2012.0	2022.5
32.5°	2102.7	2071.2	1984.1	1879.4	1823.7	1823.7	1855.0	1879.4	1890.0
35°	1935.3	1900.3	1823.7	1736.5	1691.2	1694.6	1726.0	1743.5	1753.9
37.5°	1736.5	1726.0	1666.7	1593.5	1562.1	1569.1	1593.5	1607.5	1618.0
40°	1576.0	1548.2	1509.8	1450.6	1429.6	1436.6	1461.0	1475.0	1481.9
42.5°	1401.7	1384.4	1353.0	1311.0	1297.1	1307.6	1328.5	1339.0	1335.5
45°	1234.4	1230.8	1199.5	1175.1	1168.1	1182.1	1196.0	1206.5	1209.9
47.5°	1112.4	1098.3	1070.5	1053.1	1046.1	1060.1	1074.0	1081.0	1081.0
50°	993.8	979.9	951.9	934.5	927.6	941.5	951.9	958.9	951.9
52.5°	875.2	861.3	836.9	816.0	812.4	819.4	822.9	826.3	833.4
55°	781.1	767.2	739.2	714.9	707.9	711.3	707.9	707.9	704.3
57.5°	690.4	676.5	648.6	620.6	610.2	606.7	596.3	592.7	589.3
60°	610.2	592.7	564.9	533.5	519.5	505.6	488.2	477.7	477.7
62.5°	533.5	516.1	484.7	456.8	435.9	411.5	383.6	369.7	369.7
65°	460.2	446.3	411.5	380.0	352.2	320.8	289.5	282.5	289.5
67.5°	390.6	376.6	341.7	310.4	275.4	237.1	209.3	209.3	216.2
70°	327.7	313.8	282.5	244.1	205.7	167.3	146.4	146.4	146.4
72.5°	268.4	254.5	219.7	184.8	146.4	108.1	97.7	101.1	97.7
75°	209.3	198.8	167.3	129.0	94.1	66.3	62.7	59.3	62.7
77.5°	157.0	146.4	118.6	83.7	52.3	38.4	34.8	34.8	34.8
80°	108.1	97.7	76.8	48.8	27.9	17.5	17.5	17.5	17.5
82.5°	66.3	55.7	41.8	24.4	10.5	10.5	10.5	10.5	10.5
85°	31.4	24.4	17.5	7.0	3.5	3.5	3.5	3.5	3.5
87.5°	7.0	7.0	3.5	3.5	0.0	3.5	3.5	0.0	0.0
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)