

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: P582681

Luminaire Tested: **HCC6S45D010SL-HM64560935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010SL-HM64560935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

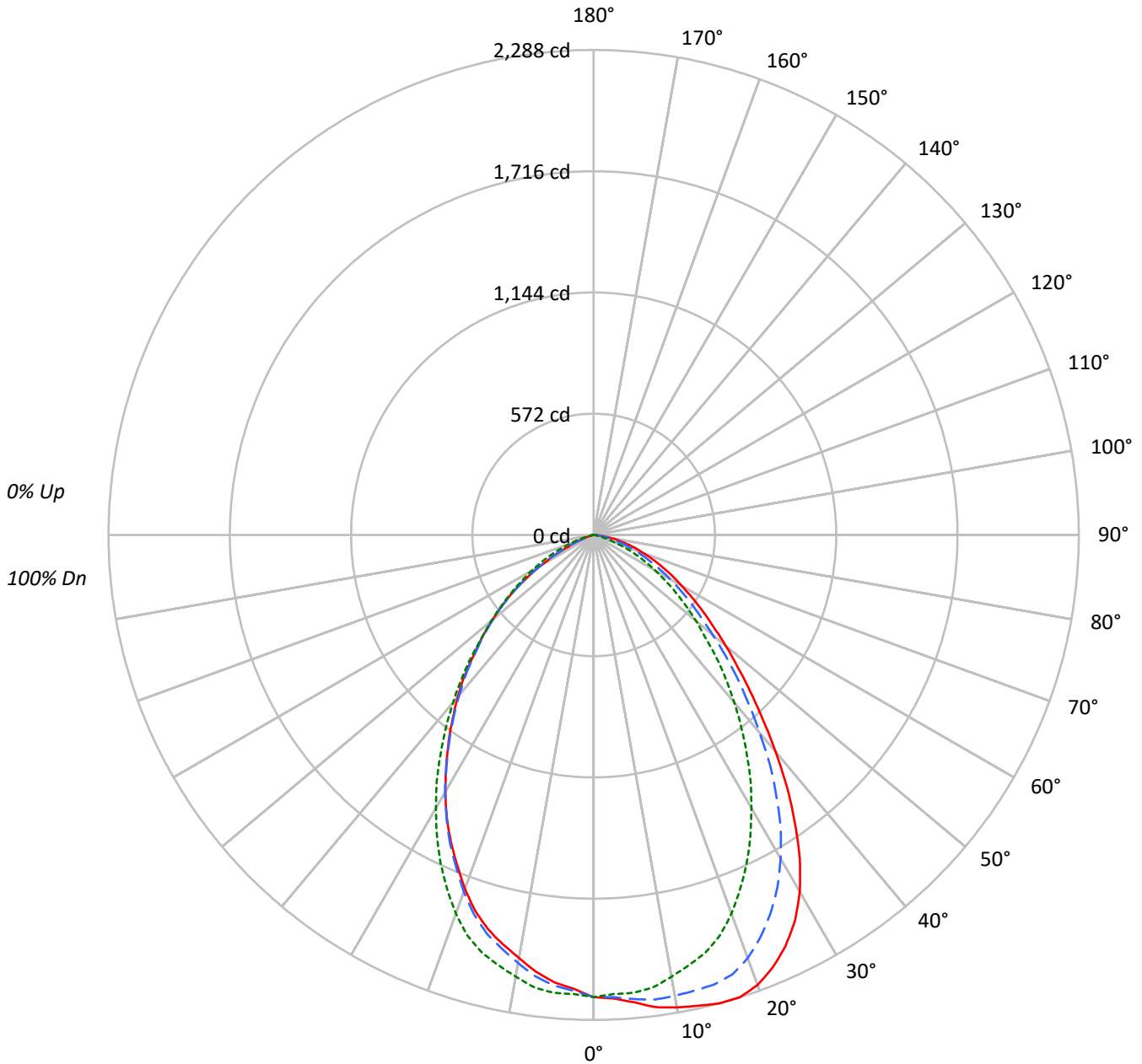
Lumens per Lamp: N/A
Luminaire Lumens: 3885.4 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P582681
CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582681

CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49								
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44								
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40								
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37								
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	119530	119530	119530
5°	121835	119310	116608
10°	125977	117789	112829
15°	129836	115738	109297
20°	131845	110919	103586
25°	129473	103318	96453
30°	123070	94141	88514
35°	110617	84142	79833
40°	95457	73738	71319
45°	80838	63479	61813
50°	69311	53610	53090
55°	60079	45131	43372
60°	52441	36653	30930
65°	46153	28239	17097
70°	39814	18673	8351
75°	33762	9087	3262
80°	26140	3883	1926
85°	15410	1887	1887

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P582681

CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	5.3
10°-20°	581.8	15.0
20°-30°	819.4	21.1
30°-40°	837.2	21.5
40°-50°	675.0	17.4
50°-60°	452.7	11.7
60°-70°	229.1	5.9
70°-80°	73.2	1.9
80°-90°	11.2	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°	1607.0	41.4
0°-40°	2444.1	62.9
0°-60°	3571.8	91.9
0°-90°	3885.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2180	2180	2180	2180	2180	
5°	2214	2199	2168	2134	2119	213
15°	2288	2196	2039	1947	1926	646
25°	2140	1972	1708	1604	1595	980
35°	1653	1503	1257	1187	1193	1029
45°	1043	960	819	791	797	811
55°	629	558	472	451	454	566
65°	356	294	218	144	132	355
75°	159	113	43	15	15	171
85°	24	12	3	3	3	33
90°	0	0	0	0	0	

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



TEST NUMBER: P582681

CATALOG NUMBER: HCC6S45D010SL-HM64560935-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2189.5	2186.5	2183.4	2177.2	2168.1	2158.9	2152.7	2146.6	2143.5
5°	2214.0	2207.9	2198.7	2186.5	2168.1	2146.6	2134.3	2122.1	2119.0
7.5°	2247.8	2235.5	2211.0	2183.4	2152.7	2122.1	2100.6	2088.3	2079.1
10°	2263.1	2241.6	2207.9	2162.0	2116.0	2079.1	2051.6	2033.2	2026.9
12.5°	2275.4	2250.9	2201.8	2140.5	2079.1	2030.1	1999.4	1984.0	1977.9
15°	2287.7	2263.1	2195.6	2116.0	2039.3	1981.0	1947.3	1931.9	1925.8
17.5°	2287.7	2253.9	2174.2	2073.0	1981.0	1910.5	1876.7	1861.4	1858.4
20°	2260.0	2223.3	2125.1	2005.5	1901.3	1821.6	1790.8	1781.7	1775.6
22.5°	2207.9	2165.0	2054.6	1919.6	1806.2	1729.6	1695.8	1689.7	1683.5
25°	2140.5	2097.6	1971.8	1827.7	1708.1	1631.4	1603.8	1597.6	1594.6
27.5°	2054.6	2008.6	1876.7	1729.6	1600.8	1527.1	1502.6	1502.6	1499.6
30°	1944.2	1892.0	1763.3	1616.0	1487.2	1419.8	1401.4	1401.4	1398.3
32.5°	1809.2	1757.2	1640.6	1499.6	1376.9	1306.4	1291.0	1297.1	1294.1
35°	1652.9	1609.9	1502.6	1364.7	1257.3	1192.9	1186.7	1192.9	1192.9
37.5°	1496.5	1456.6	1364.7	1245.0	1143.8	1085.6	1085.6	1094.8	1091.7
40°	1333.9	1303.3	1217.5	1113.2	1030.4	990.5	984.4	993.5	996.6
42.5°	1180.6	1156.1	1082.4	996.6	923.0	883.2	892.4	898.5	901.6
45°	1042.7	1018.0	959.9	871.0	818.8	791.2	791.2	800.3	797.3
47.5°	920.0	901.6	843.3	757.4	711.4	699.2	705.3	711.4	711.4
50°	812.7	785.1	729.8	662.4	628.6	613.4	619.5	622.5	622.5
52.5°	711.4	693.0	637.9	576.5	545.8	536.6	536.6	539.7	539.7
55°	628.6	607.1	558.1	496.8	472.2	459.9	450.8	447.7	453.8
57.5°	549.0	530.5	484.6	426.3	398.7	386.4	368.0	361.9	368.0
60°	478.3	463.1	417.0	361.9	334.3	309.7	288.2	276.0	282.1
62.5°	417.0	398.7	352.6	306.6	276.0	248.4	214.7	196.2	205.5
65°	355.8	340.4	294.4	248.4	217.7	184.0	144.2	131.8	131.8
67.5°	300.5	285.2	242.2	202.3	165.6	125.7	88.9	85.9	88.9
70°	248.4	233.1	196.2	156.4	116.5	76.7	52.1	52.1	52.1
72.5°	205.5	187.1	153.3	113.4	73.5	39.9	27.6	30.6	30.6
75°	159.4	144.2	113.4	76.7	42.9	18.4	15.4	15.4	15.4
77.5°	119.6	107.3	79.8	49.0	21.5	6.1	6.1	6.1	6.1
80°	82.8	70.5	52.1	30.6	12.3	6.1	6.1	6.1	6.1
82.5°	49.0	42.9	30.6	15.4	6.1	3.0	3.0	3.0	3.0
85°	24.5	21.5	12.3	6.1	3.0	3.0	3.0	3.0	3.0
87.5°	6.1	6.1	3.0	3.0	0.0	3.0	3.0	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)