

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: P582591

Luminaire Tested: **HCC6S45D010SL-HM64560830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582591
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-HM64560830-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

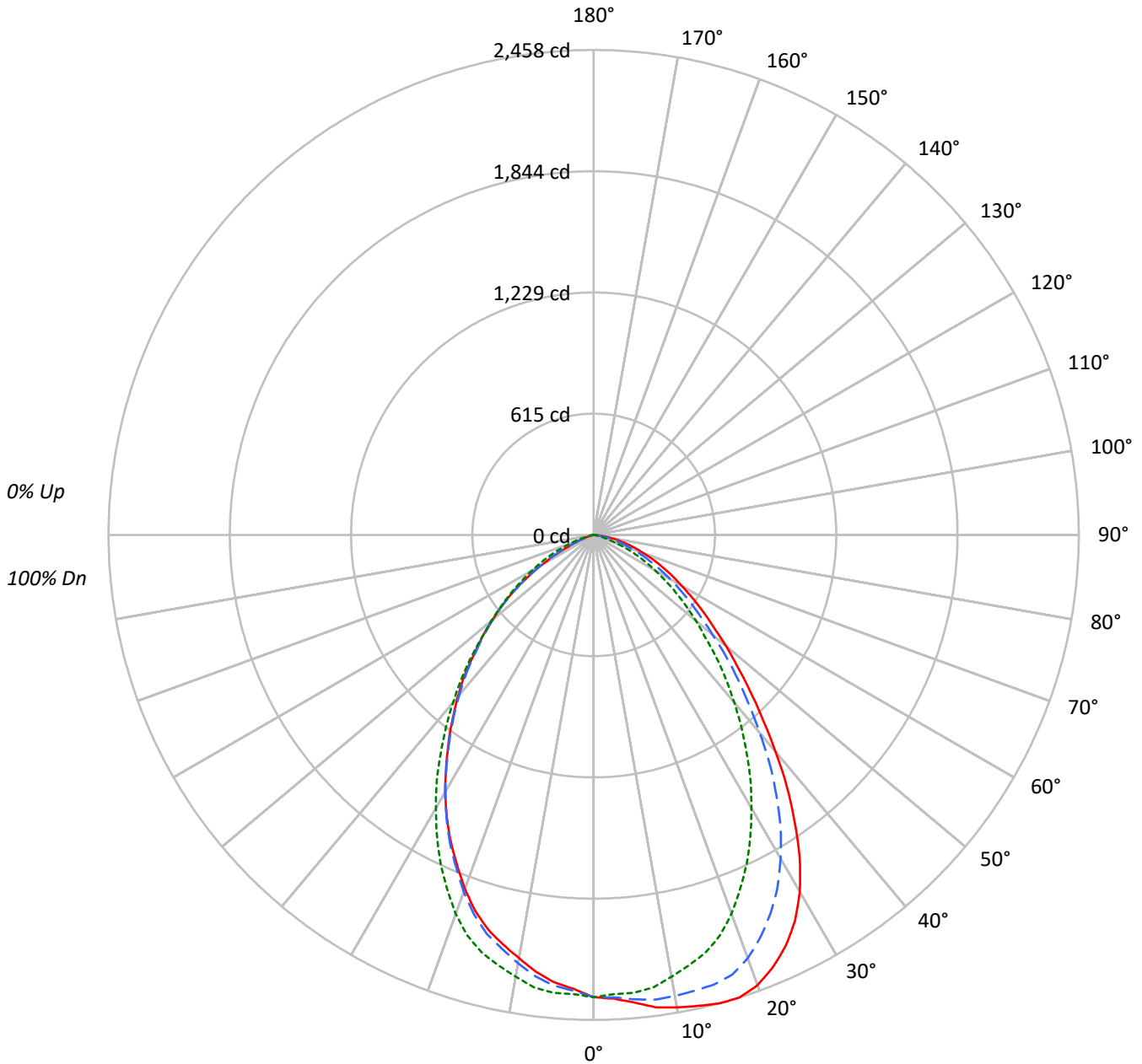
Lumens per Lamp: N/A
Luminaire Lumens: 4174.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582591
CATALOG NUMBER: HCC6S45D010SL-HM64560830-61WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582591

CATALOG NUMBER: HCC6S45D010SL-HM64560830-61WWBB

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	66	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°	128427	128427	128427
5°	130915	128197	125291
10°	135357	126556	121235
15°	139501	124359	117435
20°	141663	119180	111298
25°	139115	111012	103639
30°	132236	101161	95110
35°	118849	90406	85775
40°	102571	79227	76629
45°	86854	68209	66410
50°	74471	57602	57039
55°	64552	48495	46603
60°	56355	39383	33232
65°	49577	30340	18381
70°	42780	20067	8992
75°	36304	9764	3474
80°	28065	4136	2084
85°	16605	2076	2076



TEST NUMBER: P582591
 CATALOG NUMBER: HCC6S45D010SL-HM64560830-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	5.3
10°-20°	625.2	15.0
20°-30°	880.4	21.1
30°-40°	899.5	21.5
40°-50°	725.2	17.4
50°-60°	486.4	11.7
60°-70°	246.2	5.9
70°-80°	78.7	1.9
80°-90°	12.1	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°	1726.6	41.4
0°-40°	2626.1	62.9
0°-60°	3837.8	91.9
0°-90°	4174.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2343	2343	2343	2343	2343	
5°	2379	2362	2330	2293	2277	229
15°	2458	2359	2191	2092	2069	694
25°	2300	2119	1835	1723	1713	1053
35°	1776	1614	1351	1275	1282	1105
45°	1120	1031	880	850	857	871
55°	675	600	507	484	488	608
65°	382	316	234	155	142	381
75°	171	122	46	16	16	184
85°	26	13	3	3	3	35
90°	0	0	0	0	0	

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



TEST NUMBER: P582591

CATALOG NUMBER: HCC6S45D010SL-HM64560830-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7	2342.7
2.5°	2352.6	2349.3	2346.0	2339.4	2329.6	2319.6	2313.0	2306.5	2303.2
5°	2379.0	2372.4	2362.4	2349.3	2329.6	2306.5	2293.3	2280.1	2276.8
7.5°	2415.2	2402.1	2375.7	2346.0	2313.0	2280.1	2257.1	2243.8	2234.0
10°	2431.6	2408.6	2372.4	2322.9	2273.5	2234.0	2204.3	2184.6	2177.9
12.5°	2444.9	2418.5	2365.8	2299.9	2234.0	2181.2	2148.3	2131.8	2125.2
15°	2458.0	2431.6	2359.1	2273.5	2191.2	2128.5	2092.3	2075.9	2069.2
17.5°	2458.0	2421.8	2336.1	2227.4	2128.5	2052.8	2016.5	2000.1	1996.7
20°	2428.3	2388.8	2283.4	2154.9	2042.9	1957.2	1924.2	1914.3	1907.8
22.5°	2372.4	2326.2	2207.6	2062.6	1940.7	1858.4	1822.1	1815.6	1808.9
25°	2299.9	2253.7	2118.7	1963.8	1835.3	1752.9	1723.3	1716.7	1713.4
27.5°	2207.6	2158.2	2016.5	1858.4	1720.0	1640.9	1614.5	1614.5	1611.2
30°	2089.0	2032.9	1894.6	1736.4	1598.1	1525.6	1505.8	1505.8	1502.5
32.5°	1944.0	1887.9	1762.8	1611.2	1479.4	1403.6	1387.2	1393.8	1390.5
35°	1775.9	1729.8	1614.5	1466.2	1350.9	1281.7	1275.2	1281.7	1281.7
37.5°	1607.9	1565.1	1466.2	1337.7	1229.1	1166.4	1166.4	1176.3	1173.0
40°	1433.3	1400.3	1308.1	1196.1	1107.1	1064.3	1057.7	1067.5	1070.8
42.5°	1268.6	1242.2	1163.1	1070.8	991.8	949.0	958.8	965.4	968.7
45°	1120.3	1093.9	1031.3	935.8	879.8	850.1	850.1	859.9	856.6
47.5°	988.5	968.7	906.1	813.8	764.4	751.2	757.9	764.4	764.4
50°	873.2	843.5	784.2	711.7	675.4	659.0	665.6	668.8	668.8
52.5°	764.4	744.6	685.4	619.5	586.5	576.6	576.6	579.9	579.9
55°	675.4	652.4	599.6	533.8	507.4	494.2	484.3	481.0	487.6
57.5°	589.8	570.1	520.6	457.9	428.4	415.1	395.4	388.8	395.4
60°	514.0	497.6	448.1	388.8	359.2	332.8	309.7	296.5	303.1
62.5°	448.1	428.4	378.9	329.5	296.5	266.9	230.6	210.9	220.8
65°	382.2	365.7	316.4	266.9	233.9	197.7	154.8	141.7	141.7
67.5°	322.9	306.4	260.3	217.5	177.9	135.1	95.6	92.3	95.6
70°	266.9	250.4	210.9	168.1	125.2	82.3	56.1	56.1	56.1
72.5°	220.8	200.9	164.7	121.9	79.1	42.8	29.7	33.0	33.0
75°	171.4	154.8	121.9	82.3	46.1	19.8	16.4	16.4	16.4
77.5°	128.6	115.3	85.6	52.7	23.1	6.6	6.6	6.6	6.6
80°	88.9	75.8	56.1	33.0	13.1	6.6	6.6	6.6	6.6
82.5°	52.7	46.1	33.0	16.4	6.6	3.3	3.3	3.3	3.3
85°	26.4	23.1	13.1	6.6	3.3	3.3	3.3	3.3	3.3
87.5°	6.6	6.6	3.3	3.3	0.0	3.3	3.3	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)