

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: P582611

Luminaire Tested: **HCC6S45D010MB-HM64560835-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010MB-HM64560835-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

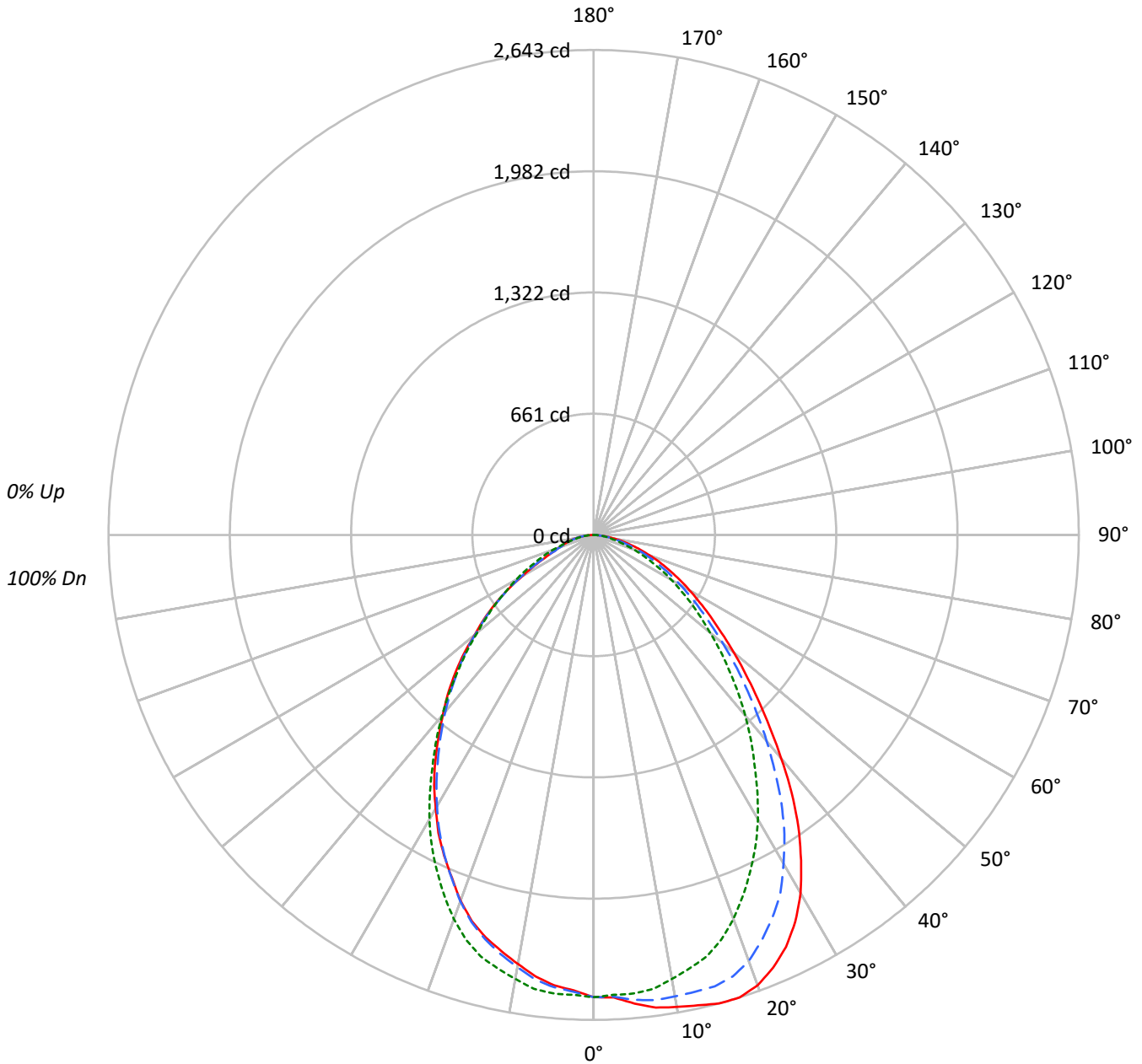
Lumens per Lamp: N/A  
Luminaire Lumens: 4933.6 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P582611  
CATALOG NUMBER: HCC6S45D010MB-HM64560835-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582611

CATALOG NUMBER: HCC6S45D010MB-HM64560835-61WWWB

**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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	138108	138108	138108
5°	141101	138064	135604
10°	145410	136788	132190
15°	150007	134967	128917
20°	152392	129902	123683
25°	149888	122203	116583
30°	142699	113283	108928
35°	130132	102265	100652
40°	113785	91865	91371
45°	97925	80846	82722
50°	85123	70445	71912
55°	74339	61838	62497
60°	66036	53581	49053
65°	58930	45089	37501
70°	51852	36961	31432
75°	44480	29166	29886
80°	35832	25003	29328
85°	23839	21637	25977



TEST NUMBER: P582611  
 CATALOG NUMBER: HCC6S45D010MB-HM64560835-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	4.8
10°-20°	679.0	13.8
20°-30°	969.4	19.6
30°-40°	1015.4	20.6
40°-50°	854.9	17.3
50°-60°	608.5	12.3
60°-70°	356.1	7.2
70°-80°	168.5	3.4
80°-90°	43.3	0.9
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°	1886.9	38.2
0°-40°	2902.3	58.8
0°-60°	4365.6	88.5
0°-90°	4933.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2519	2519	2519	2519	2519	
5°	2564	2543	2509	2475	2464	246
15°	2643	2547	2378	2282	2272	746
25°	2478	2302	2020	1924	1927	1134
35°	1944	1783	1528	1476	1504	1208
45°	1263	1170	1043	1046	1067	981
55°	778	712	647	647	654	701
65°	454	403	348	292	289	453
75°	210	176	138	134	141	225
85°	38	31	34	41	41	49
90°	0	0	0	0	0	

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



TEST NUMBER: P582611

CATALOG NUMBER: HCC6S45D010MB-HM64560835-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2519.3	2519.3	2519.3	2519.3	2519.3	2519.3	2519.3	2519.3	2519.3
2.5°	2522.7	2522.7	2519.3	2515.9	2508.9	2498.6	2491.7	2484.9	2484.9
5°	2564.1	2557.1	2543.4	2526.2	2508.9	2488.3	2474.6	2464.2	2464.2
7.5°	2598.4	2584.7	2557.1	2526.2	2495.2	2467.6	2443.6	2429.8	2426.4
10°	2612.2	2595.0	2553.7	2505.5	2457.3	2419.4	2392.0	2374.7	2374.7
12.5°	2626.0	2605.4	2550.2	2481.4	2419.4	2367.8	2340.3	2326.5	2323.1
15°	2643.1	2615.7	2546.8	2460.7	2378.1	2319.6	2281.8	2271.5	2271.5
17.5°	2643.1	2608.8	2522.7	2416.0	2312.8	2247.4	2213.0	2202.7	2206.1
20°	2612.2	2574.4	2471.0	2340.3	2226.7	2157.9	2123.5	2116.6	2120.1
22.5°	2553.7	2508.9	2392.0	2250.9	2126.9	2054.6	2023.7	2023.7	2020.3
25°	2478.0	2429.8	2302.5	2154.4	2020.3	1948.0	1923.8	1927.4	1927.4
27.5°	2378.1	2329.9	2202.7	2044.3	1910.1	1837.9	1820.6	1827.5	1830.9
30°	2254.3	2202.7	2068.5	1913.5	1789.6	1717.4	1707.1	1717.4	1720.8
32.5°	2102.8	2064.9	1934.2	1775.9	1658.9	1596.9	1593.5	1603.8	1617.6
35°	1944.5	1903.2	1782.7	1638.2	1528.1	1476.5	1476.5	1493.7	1504.0
37.5°	1772.4	1731.1	1621.0	1500.5	1407.6	1359.4	1366.3	1383.6	1387.0
40°	1590.0	1559.0	1466.1	1362.9	1283.7	1245.8	1256.2	1273.4	1276.8
42.5°	1417.9	1390.5	1314.7	1221.8	1163.3	1135.7	1149.5	1170.2	1177.0
45°	1263.1	1232.1	1170.2	1091.0	1042.8	1029.1	1046.2	1060.0	1067.0
47.5°	1122.0	1094.4	1042.8	970.5	936.2	929.3	946.5	953.3	960.2
50°	998.1	970.5	918.9	853.5	826.0	826.0	839.8	846.7	843.2
52.5°	877.6	853.5	805.4	750.3	733.1	733.1	743.4	746.8	753.8
55°	777.8	753.8	712.4	660.8	647.0	640.1	647.0	647.0	653.9
57.5°	684.9	664.3	626.4	578.2	560.9	554.1	550.6	547.2	554.1
60°	602.3	585.1	543.8	502.5	488.7	471.5	457.7	444.0	447.4
62.5°	526.6	509.3	471.5	430.3	416.4	392.4	375.1	357.9	364.8
65°	454.3	437.1	402.7	368.2	347.6	320.1	292.5	282.2	289.1
67.5°	388.8	375.1	340.8	306.3	289.1	258.2	230.6	230.6	234.0
70°	323.5	309.8	282.2	251.3	230.6	203.0	192.7	196.1	196.1
72.5°	265.0	254.7	227.1	199.6	179.0	161.8	161.8	165.2	168.7
75°	210.0	203.0	175.5	151.4	137.7	127.4	134.2	137.7	141.1
77.5°	161.8	151.4	130.8	113.5	103.2	106.7	113.5	117.1	120.5
80°	113.5	110.1	92.9	82.6	79.2	82.6	89.5	92.9	92.9
82.5°	72.3	68.9	58.5	55.0	55.0	58.5	65.3	65.3	65.3
85°	37.9	34.4	31.0	31.0	34.4	37.9	41.3	41.3	41.3
87.5°	13.7	10.3	13.7	13.7	17.2	17.2	17.2	17.2	17.2
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)