

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: P582603

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582603
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: HCC6S45D010MB-HM64560835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

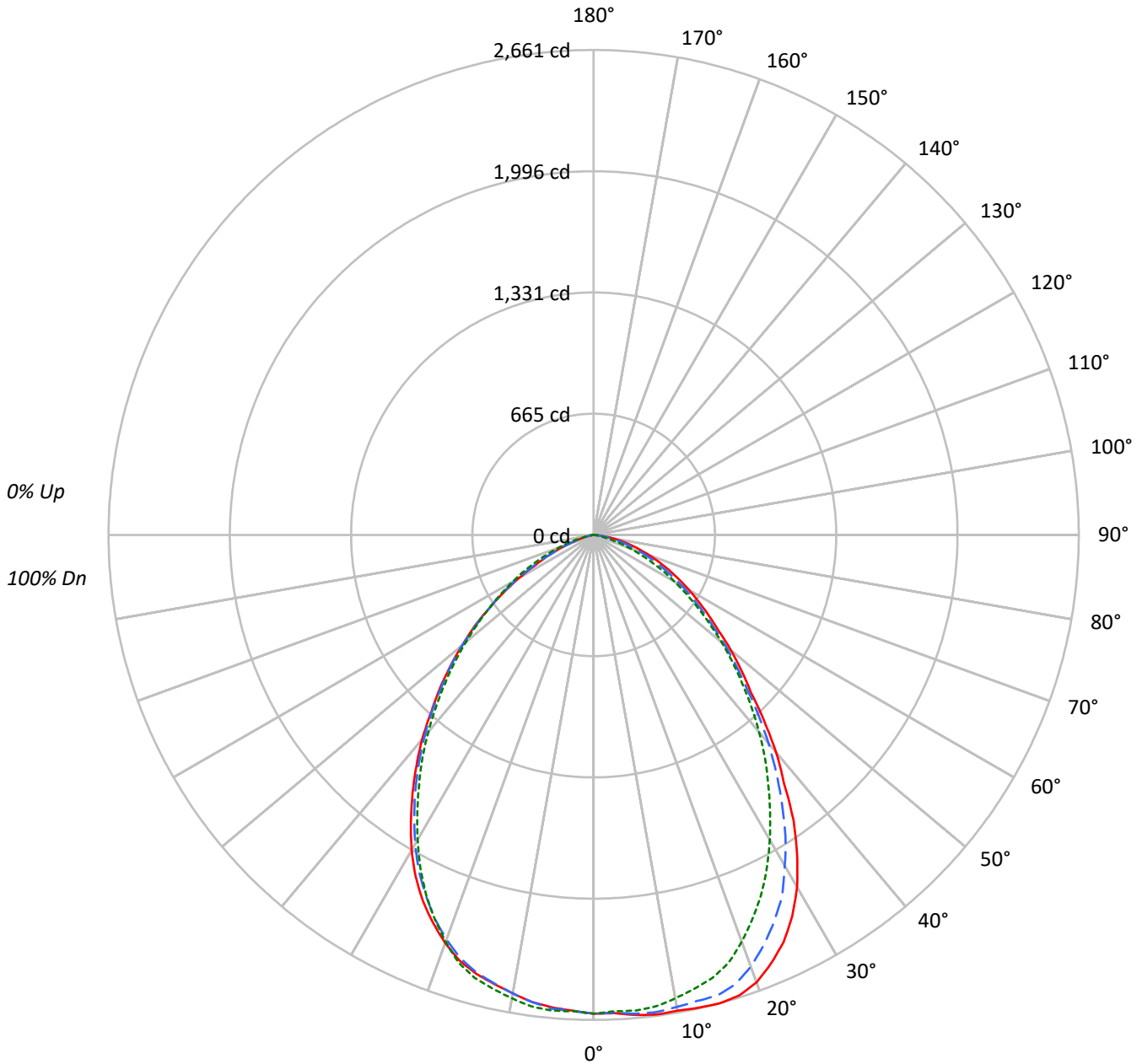
Lumens per Lamp: N/A
Luminaire Lumens: 5147.1 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): 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: P582603
CATALOG NUMBER: HCC6S45D010MB-HM64560835-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P582603

CATALOG NUMBER: HCC6S45D010MB-HM64560835-61RWWH

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77					77			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67					67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59					59			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53					53			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47					47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35					35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	144002	144002	144002
5°	145493	144172	143225
10°	147565	143729	142193
15°	151034	142827	141459
20°	152438	138577	138985
25°	149095	131608	134107
30°	141212	122253	126399
35°	127870	111735	115891
40°	111359	101011	104703
45°	94483	89412	92614
50°	83682	78104	80151
55°	73699	66798	66473
60°	66058	56245	51717
65°	58943	45102	37060
70°	51868	32570	23177
75°	43760	19677	13111
80°	33685	8713	5430
85°	19499	2139	2139



TEST NUMBER: P582603
 CATALOG NUMBER: HCC6S45D010MB-HM64560835-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	4.8
10°-20°	716.6	13.9
20°-30°	1035.9	20.1
30°-40°	1090.0	21.2
40°-50°	916.3	17.8
50°-60°	643.1	12.5
60°-70°	353.8	6.9
70°-80°	125.6	2.4
80°-90°	16.4	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°	2001.9	38.9
0°-40°	3091.9	60.1
0°-60°	4651.3	90.4
0°-90°	5147.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5147.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2627	2627	2627	2627	2627	
5°	2644	2637	2620	2610	2603	253
15°	2661	2616	2517	2486	2492	751
25°	2465	2341	2176	2179	2217	1128
35°	1911	1801	1670	1704	1732	1184
45°	1219	1184	1153	1181	1195	956
55°	771	730	699	699	696	694
65°	454	406	348	286	286	452
75°	207	165	93	62	62	222
85°	31	17	3	3	3	43
90°	0	0	0	0	0	



TEST NUMBER: P582603

CATALOG NUMBER: HCC6S45D010MB-HM64560835-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2626.8	2626.8	2626.8	2626.8	2626.8	2626.8	2626.8	2626.8	2626.8
2.5°	2626.8	2626.8	2623.3	2623.3	2616.5	2616.5	2613.0	2613.0	2613.0
5°	2643.9	2643.9	2637.1	2626.8	2619.9	2609.6	2609.6	2606.1	2602.7
7.5°	2654.3	2650.9	2640.5	2626.8	2609.6	2592.3	2585.4	2588.9	2585.4
10°	2650.9	2643.9	2630.2	2602.7	2582.0	2558.0	2554.4	2551.0	2554.4
12.5°	2657.8	2647.5	2619.9	2585.4	2551.0	2523.5	2520.1	2520.1	2523.5
15°	2661.2	2650.9	2616.5	2564.8	2516.6	2489.1	2485.6	2489.1	2492.5
17.5°	2650.9	2637.1	2585.4	2516.6	2461.5	2434.0	2434.0	2440.9	2447.7
20°	2613.0	2592.3	2520.1	2437.4	2375.4	2354.8	2361.7	2375.4	2382.4
22.5°	2544.1	2520.1	2437.4	2344.5	2279.0	2261.9	2279.0	2296.3	2303.2
25°	2464.9	2437.4	2341.1	2244.7	2175.8	2155.2	2179.2	2206.8	2217.1
27.5°	2358.2	2327.2	2237.7	2127.6	2058.7	2048.4	2076.0	2106.9	2113.9
30°	2230.8	2196.4	2096.6	1993.3	1931.3	1927.9	1958.9	1986.5	1996.8
32.5°	2076.0	2045.0	1958.9	1855.6	1800.6	1800.6	1831.5	1855.6	1865.9
35°	1910.7	1876.2	1800.6	1714.5	1669.6	1673.2	1704.1	1721.4	1731.7
37.5°	1714.5	1704.1	1645.6	1573.3	1542.4	1549.2	1573.3	1587.1	1597.4
40°	1556.1	1528.5	1490.6	1432.1	1411.5	1418.4	1442.4	1456.3	1463.1
42.5°	1383.9	1366.8	1335.8	1294.4	1280.7	1291.0	1311.6	1322.0	1318.6
45°	1218.7	1215.2	1184.3	1160.2	1153.3	1167.0	1180.9	1191.2	1194.6
47.5°	1098.2	1084.4	1056.9	1039.7	1032.8	1046.6	1060.4	1067.2	1067.2
50°	981.2	967.4	939.8	922.7	915.8	929.5	939.8	946.7	939.8
52.5°	864.1	850.3	826.3	805.6	802.1	809.0	812.4	815.9	822.9
55°	771.1	757.4	729.8	705.8	698.9	702.3	698.9	698.9	695.5
57.5°	681.6	667.9	640.3	612.8	602.5	599.1	588.7	585.2	581.8
60°	602.5	585.2	557.8	526.7	513.0	499.2	482.0	471.7	471.7
62.5°	526.7	509.6	478.6	451.0	430.4	406.2	378.6	364.9	364.9
65°	454.4	440.7	406.2	375.2	347.7	316.7	285.7	278.8	285.7
67.5°	385.6	371.8	337.4	306.4	272.0	234.1	206.6	206.6	213.5
70°	323.6	309.8	278.8	240.9	203.2	165.3	144.6	144.6	144.6
72.5°	265.1	251.4	216.9	182.5	144.6	106.7	96.4	99.8	96.4
75°	206.6	196.2	165.3	127.4	92.9	65.5	61.9	58.5	61.9
77.5°	155.0	144.6	117.1	82.6	51.6	37.9	34.4	34.4	34.4
80°	106.7	96.4	75.8	48.2	27.6	17.2	17.2	17.2	17.2
82.5°	65.5	55.1	41.3	24.0	10.3	10.3	10.3	10.3	10.3
85°	31.0	24.0	17.2	6.9	3.4	3.4	3.4	3.4	3.4
87.5°	6.9	6.9	3.4	3.4	0.0	3.4	3.4	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)