

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: P582735

Luminaire Tested: **HCC6S50D010MB-HM64560830-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582735
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: HCC6S50D010MB-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

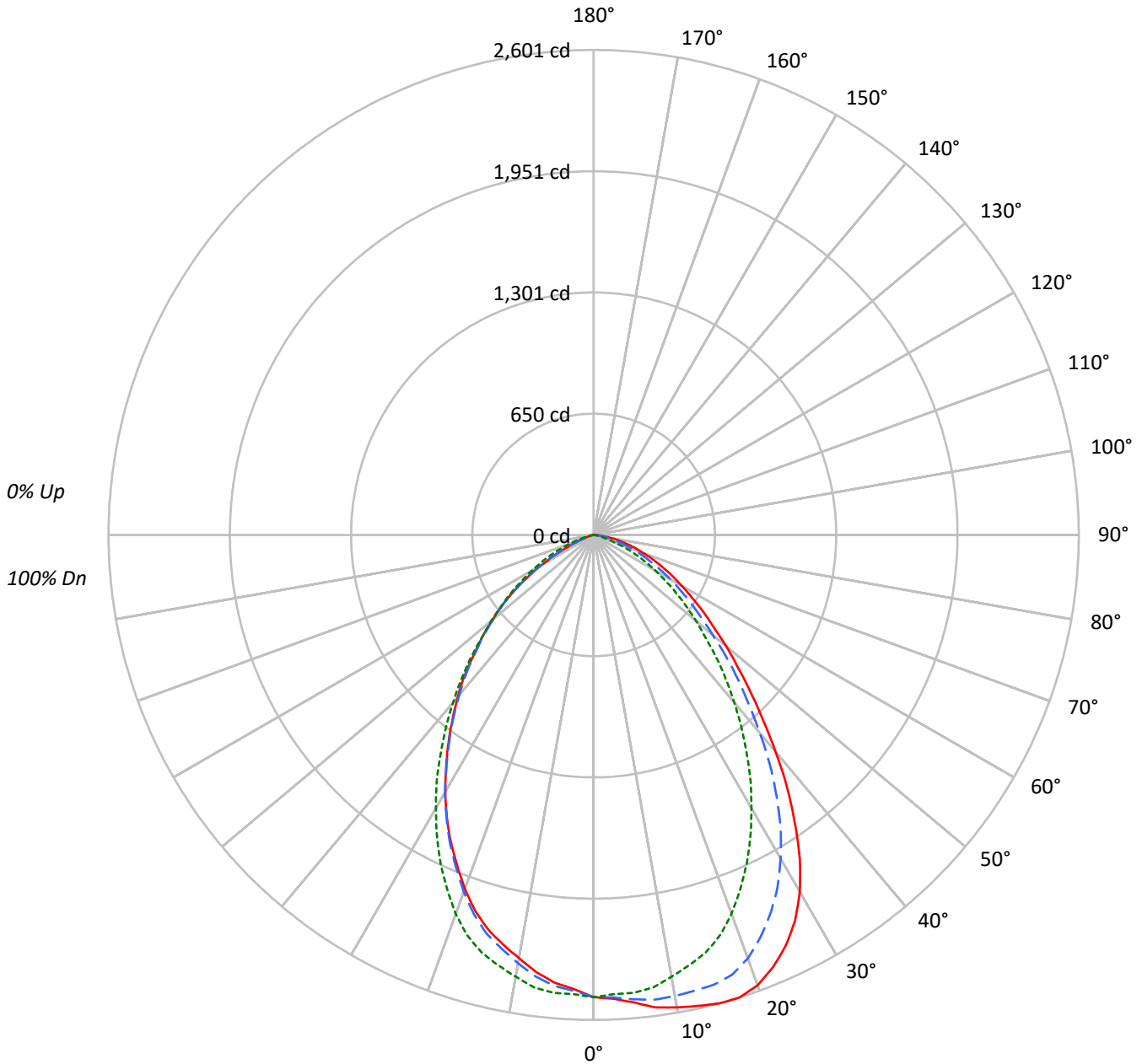
Lumens per Lamp: N/A
Luminaire Lumens: 4418.2 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P582735
CATALOG NUMBER: HCC6S50D010MB-HM64560830-61WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582735

CATALOG NUMBER: HCC6S50D010MB-HM64560830-61WWBB

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	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°	135916	135916	135916
5°	138548	135664	132599
10°	143251	133938	128310
15°	147640	131607	124286
20°	149930	126122	117785
25°	147220	117485	109682
30°	139946	107054	100655
35°	125789	95680	90781
40°	108553	83850	81102
45°	91917	72186	70294
50°	78803	60970	60373
55°	68327	51324	49327
60°	59644	41663	35173
65°	52470	32105	19457
70°	45280	21238	9505
75°	38401	10336	3707
80°	29707	4388	2210
85°	17549	2201	2201



TEST NUMBER: P582735

CATALOG NUMBER: HCC6S50D010MB-HM64560830-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	5.3
10°-20°	661.6	15.0
20°-30°	931.7	21.1
30°-40°	951.9	21.5
40°-50°	767.5	17.4
50°-60°	514.8	11.7
60°-70°	260.5	5.9
70°-80°	83.3	1.9
80°-90°	12.8	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°	1827.3	41.4
0°-40°	2779.2	62.9
0°-60°	4061.6	91.9
0°-90°	4418.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2479	2479	2479	2479	2479	
5°	2518	2500	2465	2427	2410	242
15°	2601	2497	2319	2214	2190	734
25°	2434	2242	1942	1824	1813	1114
35°	1880	1709	1430	1350	1356	1170
45°	1186	1092	931	900	907	922
55°	715	635	537	513	516	643
65°	404	335	248	164	150	404
75°	181	129	49	18	18	195
85°	28	14	4	4	4	37
90°	0	0	0	0	0	

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



TEST NUMBER: P582735

CATALOG NUMBER: HCC6S50D010MB-HM64560830-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2479.3	2479.3	2479.3	2479.3	2479.3	2479.3	2479.3	2479.3	2479.3
2.5°	2489.8	2486.2	2482.8	2475.8	2465.3	2454.9	2447.9	2440.9	2437.5
5°	2517.7	2510.7	2500.2	2486.2	2465.3	2440.9	2427.0	2413.0	2409.6
7.5°	2556.0	2542.1	2514.1	2482.8	2447.9	2413.0	2388.7	2374.6	2364.2
10°	2573.4	2549.1	2510.7	2458.4	2406.1	2364.2	2332.8	2311.9	2305.0
12.5°	2587.5	2559.5	2503.7	2433.9	2364.2	2308.4	2273.5	2256.2	2249.1
15°	2601.4	2573.4	2496.8	2406.1	2318.9	2252.6	2214.3	2196.9	2189.9
17.5°	2601.4	2563.0	2472.3	2357.3	2252.6	2172.4	2134.1	2116.6	2113.2
20°	2570.0	2528.2	2416.6	2280.5	2161.9	2071.4	2036.4	2026.0	2019.0
22.5°	2510.7	2461.9	2336.4	2182.8	2053.9	1966.7	1928.3	1921.4	1914.4
25°	2433.9	2385.1	2242.1	2078.3	1942.3	1855.1	1823.7	1816.7	1813.3
27.5°	2336.4	2284.1	2134.1	1966.7	1820.3	1736.5	1708.7	1708.7	1705.1
30°	2210.8	2151.5	2005.1	1837.6	1691.2	1614.5	1593.6	1593.6	1590.1
32.5°	2057.4	1998.1	1865.6	1705.1	1565.7	1485.5	1468.1	1475.1	1471.5
35°	1879.6	1830.7	1708.7	1551.7	1429.7	1356.5	1349.5	1356.5	1356.5
37.5°	1701.7	1656.4	1551.7	1415.8	1300.6	1234.4	1234.4	1244.9	1241.3
40°	1516.9	1482.0	1384.4	1265.8	1171.7	1126.3	1119.4	1129.9	1133.3
42.5°	1342.6	1314.6	1231.0	1133.3	1049.6	1004.3	1014.7	1021.7	1025.2
45°	1185.6	1157.7	1091.5	990.3	931.1	899.7	899.7	910.1	906.7
47.5°	1046.1	1025.2	959.0	861.3	809.0	795.0	802.0	809.0	809.0
50°	924.0	892.7	829.9	753.2	714.9	697.4	704.3	707.9	707.9
52.5°	809.0	788.1	725.3	655.6	620.7	610.2	610.2	613.8	613.8
55°	714.9	690.4	634.7	564.9	537.0	523.1	512.6	509.1	516.1
57.5°	624.2	603.3	550.9	484.7	453.3	439.3	418.4	411.5	418.4
60°	544.0	526.5	474.3	411.5	380.0	352.2	327.7	313.8	320.8
62.5°	474.3	453.3	401.1	348.7	313.8	282.5	244.1	223.2	233.6
65°	404.5	387.0	334.8	282.5	247.5	209.3	163.9	150.0	150.0
67.5°	341.8	324.3	275.5	230.2	188.3	143.0	101.1	97.7	101.1
70°	282.5	265.0	223.2	177.9	132.5	87.2	59.3	59.3	59.3
72.5°	233.6	212.7	174.3	129.0	83.7	45.4	31.4	34.8	34.8
75°	181.3	163.9	129.0	87.2	48.8	20.9	17.5	17.5	17.5
77.5°	136.1	122.0	90.7	55.7	24.4	7.0	7.0	7.0	7.0
80°	94.1	80.2	59.3	34.8	13.9	7.0	7.0	7.0	7.0
82.5°	55.7	48.8	34.8	17.5	7.0	3.5	3.5	3.5	3.5
85°	27.9	24.4	13.9	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)