

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: P582771

Luminaire Tested: **HCC6S50D010MW-HM64560840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582771
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: HCC6S50D010MW-HM64560840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

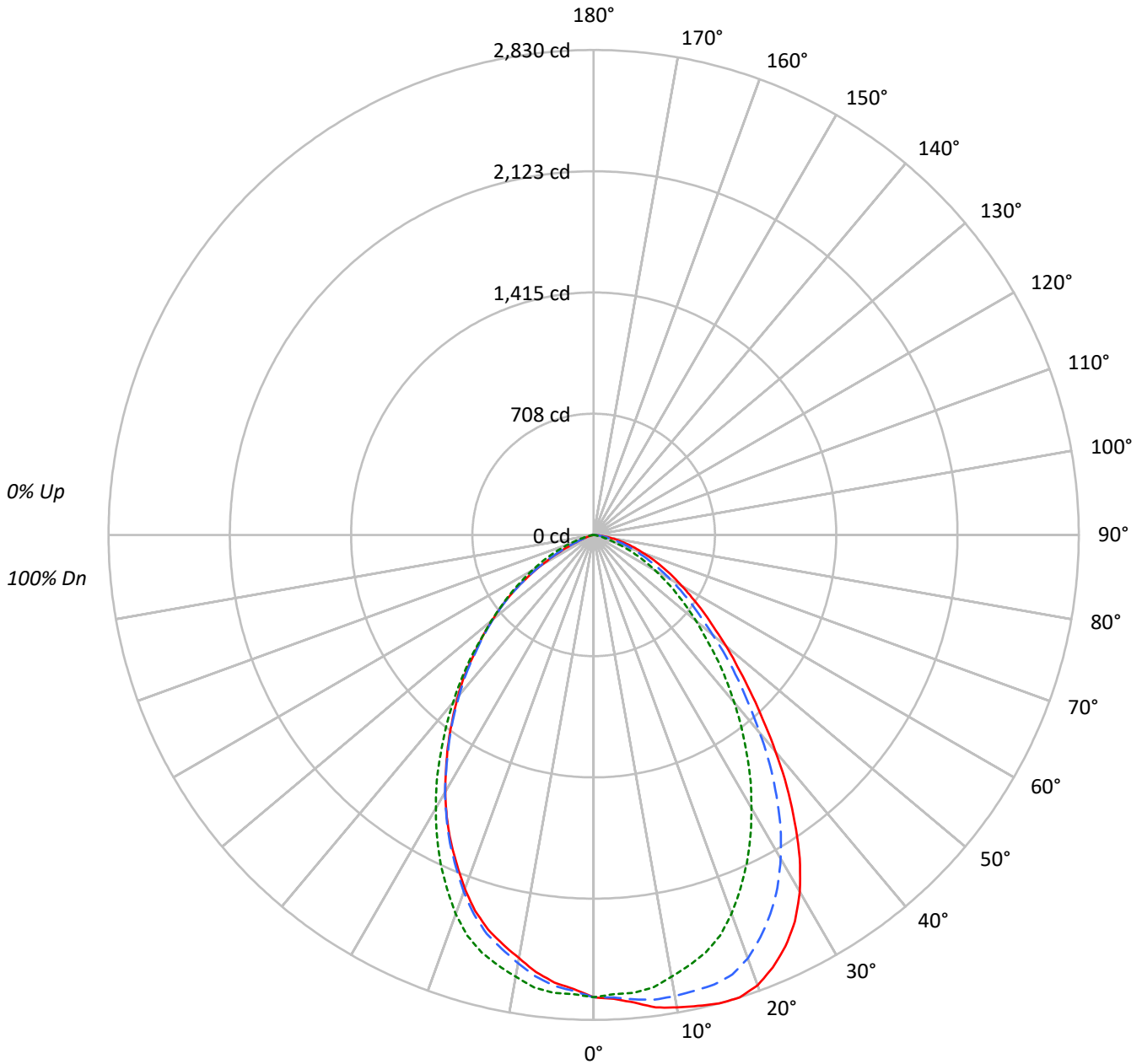
Lumens per Lamp: N/A
Luminaire Lumens: 4807.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582771
CATALOG NUMBER: HCC6S50D010MW-HM64560840-61WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P582771

CATALOG NUMBER: HCC6S50D010MW-HM64560840-61WWBB

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°	147894	147894	147894
5°	150748	147617	144277
10°	155876	145733	139616
15°	160642	143202	135233
20°	163138	137235	128164
25°	160195	127834	119348
30°	152277	116486	109523
35°	136864	104106	98778
40°	118121	91235	88251
45°	100010	78543	76481
50°	85754	66335	65687
55°	74339	55855	53676
60°	64896	45347	38275
65°	57101	34945	21170
70°	49255	23113	10338
75°	41790	11247	4024
80°	32327	4799	2399
85°	19121	2390	2390



TEST NUMBER: P582771
 CATALOG NUMBER: HCC6S50D010MW-HM64560840-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	5.3
10°-20°	719.9	15.0
20°-30°	1013.8	21.1
30°-40°	1035.8	21.5
40°-50°	835.2	17.4
50°-60°	560.2	11.7
60°-70°	283.5	5.9
70°-80°	90.6	1.9
80°-90°	14.0	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°	1988.3	41.4
0°-40°	3024.1	62.9
0°-60°	4419.4	91.9
0°-90°	4807.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2698	2698	2698	2698	2698	
5°	2739	2721	2682	2641	2622	264
15°	2830	2717	2523	2409	2383	799
25°	2648	2440	2113	1984	1973	1213
35°	2045	1859	1556	1468	1476	1273
45°	1290	1188	1013	979	986	1003
55°	778	690	584	558	562	700
65°	440	364	269	178	163	439
75°	197	140	53	19	19	212
85°	30	15	4	4	4	41
90°	0	0	0	0	0	



TEST NUMBER: P582771

CATALOG NUMBER: HCC6S50D010MW-HM64560840-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2697.8	2697.8	2697.8	2697.8	2697.8	2697.8	2697.8	2697.8	2697.8
2.5°	2709.1	2705.3	2701.5	2694.0	2682.5	2671.2	2663.6	2656.1	2652.2
5°	2739.4	2731.9	2720.6	2705.3	2682.5	2656.1	2640.8	2625.7	2621.8
7.5°	2781.3	2766.0	2735.7	2701.5	2663.6	2625.7	2599.1	2583.9	2572.6
10°	2800.2	2773.7	2731.9	2675.0	2618.0	2572.6	2538.4	2515.6	2508.1
12.5°	2815.4	2785.0	2724.3	2648.4	2572.6	2511.9	2473.8	2454.9	2447.4
15°	2830.5	2800.2	2716.8	2618.0	2523.2	2451.2	2409.4	2390.5	2382.8
17.5°	2830.5	2788.8	2690.2	2564.9	2451.2	2363.9	2322.1	2303.2	2299.4
20°	2796.4	2750.9	2629.5	2481.5	2352.4	2253.8	2215.9	2204.5	2196.9
22.5°	2731.9	2678.7	2542.2	2375.2	2234.8	2140.0	2098.3	2090.6	2083.0
25°	2648.4	2595.2	2439.7	2261.4	2113.4	2018.6	1984.4	1976.9	1973.1
27.5°	2542.2	2485.3	2322.1	2140.0	1980.7	1889.6	1859.2	1859.2	1855.5
30°	2405.6	2341.1	2181.8	1999.6	1840.2	1756.7	1733.9	1733.9	1730.2
32.5°	2238.6	2174.1	2029.9	1855.5	1703.6	1616.3	1597.4	1605.0	1601.2
35°	2045.1	1992.0	1859.2	1688.5	1555.6	1476.0	1468.5	1476.0	1476.0
37.5°	1851.6	1802.3	1688.5	1540.5	1415.3	1343.2	1343.2	1354.6	1350.8
40°	1650.6	1612.5	1506.4	1377.3	1274.9	1225.5	1218.0	1229.3	1233.2
42.5°	1460.8	1430.4	1339.4	1233.2	1142.1	1092.8	1104.1	1111.7	1115.6
45°	1290.0	1259.7	1187.6	1077.5	1013.1	978.9	978.9	990.3	986.5
47.5°	1138.2	1115.6	1043.4	937.2	880.3	865.1	872.6	880.3	880.3
50°	1005.5	971.4	903.0	819.6	777.8	758.9	766.5	770.2	770.2
52.5°	880.3	857.5	789.3	713.3	675.4	664.0	664.0	667.9	667.9
55°	777.8	751.2	690.5	614.7	584.4	569.1	557.8	554.0	561.6
57.5°	679.2	656.4	599.5	527.4	493.3	478.1	455.3	447.7	455.3
60°	591.9	572.9	516.0	447.7	413.6	383.2	356.7	341.5	349.1
62.5°	516.0	493.3	436.4	379.5	341.5	307.3	265.6	242.8	254.3
65°	440.2	421.1	364.2	307.3	269.4	227.7	178.3	163.2	163.2
67.5°	371.9	352.9	299.7	250.4	204.9	155.5	110.1	106.3	110.1
70°	307.3	288.4	242.8	193.6	144.2	94.8	64.5	64.5	64.5
72.5°	254.3	231.5	189.7	140.4	91.1	49.4	34.1	37.9	37.9
75°	197.3	178.3	140.4	94.8	53.1	22.8	19.0	19.0	19.0
77.5°	148.0	132.7	98.6	60.7	26.6	7.6	7.6	7.6	7.6
80°	102.4	87.3	64.5	37.9	15.2	7.6	7.6	7.6	7.6
82.5°	60.7	53.1	37.9	19.0	7.6	3.8	3.8	3.8	3.8
85°	30.4	26.6	15.2	7.6	3.8	3.8	3.8	3.8	3.8
87.5°	7.6	7.6	3.8	3.8	0.0	3.8	3.8	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)