

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: P593282

Luminaire Tested: **HCC6W40D010MW-HM63040850-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593282
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: HCC6W40D010MW-HM63040850-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

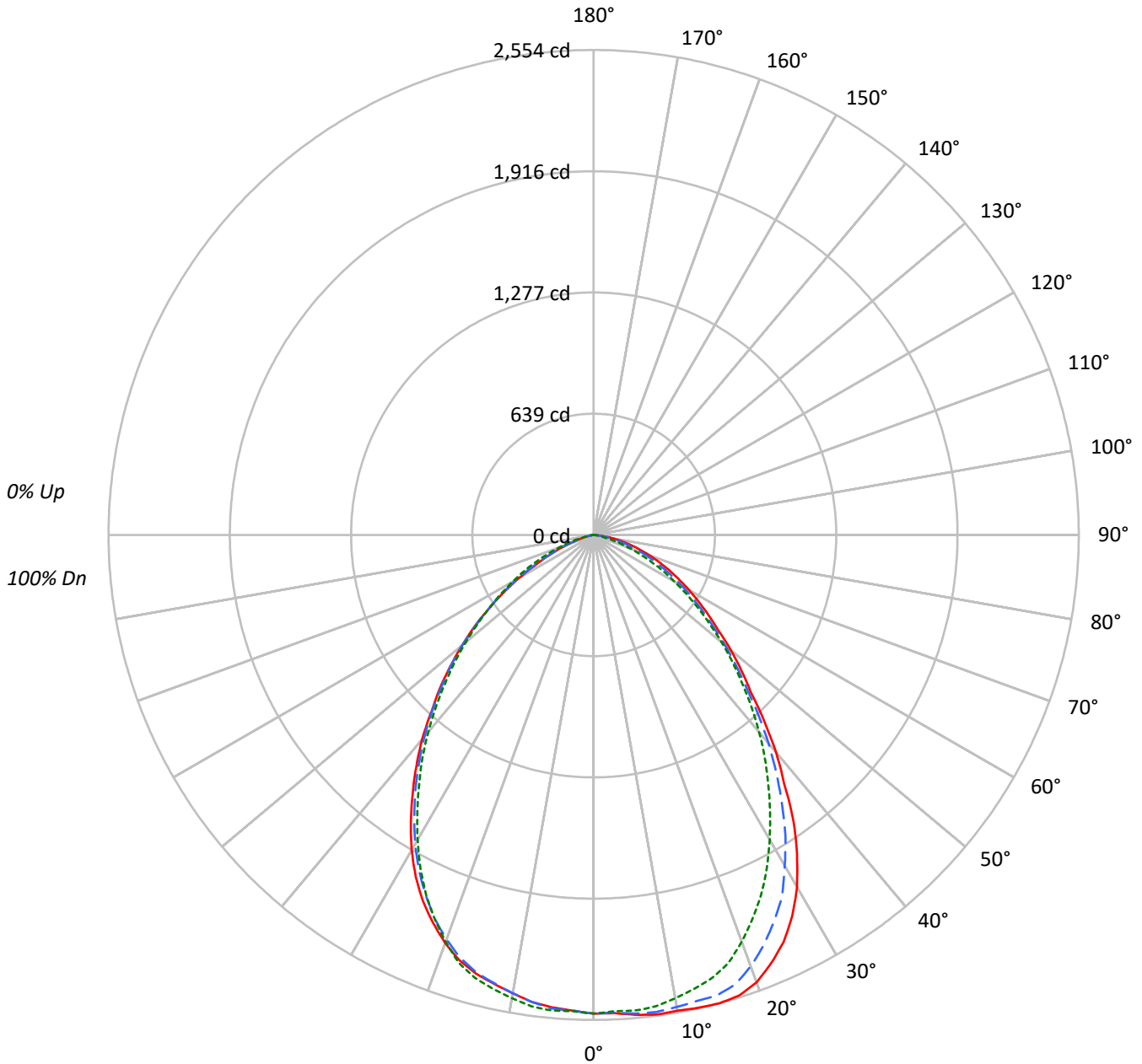
Lumens per Lamp: N/A
Luminaire Lumens: 4939.4 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P593282
CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P593282

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	138185	138185	138185
5°	139621	138350	137447
10°	141614	137934	136459
15°	144938	137067	135750
20°	146289	132988	133373
25°	143083	126298	128699
30°	135521	117328	121297
35°	122703	107231	111213
40°	106857	96932	100481
45°	90676	85807	88870
50°	80304	74948	76919
55°	70736	64103	63787
60°	63383	53976	49634
65°	56569	43286	35568
70°	49768	31239	22247
75°	41981	18893	12603
80°	32327	8334	5209
85°	18681	2076	2076

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P593282

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	4.8
10°-20°	687.7	13.9
20°-30°	994.1	20.1
30°-40°	1046.0	21.2
40°-50°	879.3	17.8
50°-60°	617.2	12.5
60°-70°	339.5	6.9
70°-80°	120.6	2.4
80°-90°	15.8	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°	1921.1	38.9
0°-40°	2967.1	60.1
0°-60°	4463.6	90.4
0°-90°	4939.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2521	2521	2521	2521	2521	
5°	2537	2531	2514	2504	2498	242
15°	2554	2511	2415	2385	2392	721
25°	2366	2246	2088	2091	2128	1082
35°	1834	1728	1602	1635	1662	1136
45°	1170	1136	1107	1133	1146	918
55°	740	700	671	671	667	666
65°	436	390	334	274	274	434
75°	198	158	89	60	60	213
85°	30	16	3	3	3	41
90°	0	0	0	0	0	

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



TEST NUMBER: P593282

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2520.7	2520.7	2520.7	2520.7	2520.7	2520.7	2520.7	2520.7	2520.7
2.5°	2520.7	2520.7	2517.4	2517.4	2510.8	2510.8	2507.6	2507.6	2507.6
5°	2537.2	2537.2	2530.6	2520.7	2514.1	2504.3	2504.3	2501.0	2497.7
7.5°	2547.3	2544.0	2533.9	2520.7	2504.3	2487.8	2481.2	2484.5	2481.2
10°	2544.0	2537.2	2524.0	2497.7	2477.9	2454.7	2451.4	2448.1	2451.4
12.5°	2550.6	2540.7	2514.1	2481.2	2448.1	2421.7	2418.4	2418.4	2421.7
15°	2553.8	2544.0	2510.8	2461.3	2415.1	2388.6	2385.3	2388.6	2391.9
17.5°	2544.0	2530.6	2481.2	2415.1	2362.2	2335.8	2335.8	2342.4	2349.0
20°	2507.6	2487.8	2418.4	2339.1	2279.6	2259.7	2266.4	2279.6	2286.2
22.5°	2441.5	2418.4	2339.1	2249.8	2187.0	2170.5	2187.0	2203.7	2210.2
25°	2365.5	2339.1	2246.5	2154.1	2088.0	2068.2	2091.3	2117.7	2127.7
27.5°	2263.1	2233.3	2147.5	2041.7	1975.6	1965.7	1992.2	2021.9	2028.5
30°	2140.9	2107.8	2012.0	1912.8	1853.5	1850.2	1879.8	1906.2	1916.2
32.5°	1992.2	1962.4	1879.8	1780.8	1727.9	1727.9	1757.6	1780.8	1790.7
35°	1833.5	1800.6	1727.9	1645.3	1602.3	1605.6	1635.4	1651.9	1661.8
37.5°	1645.3	1635.4	1579.2	1509.9	1480.0	1486.6	1509.9	1523.0	1532.9
40°	1493.2	1466.9	1430.6	1374.4	1354.5	1361.2	1384.3	1397.5	1404.1
42.5°	1328.1	1311.6	1281.8	1242.2	1229.0	1238.9	1258.7	1268.6	1265.3
45°	1169.6	1166.3	1136.5	1113.4	1106.8	1120.0	1133.2	1143.0	1146.3
47.5°	1053.9	1040.7	1014.3	997.7	991.1	1004.3	1017.6	1024.2	1024.2
50°	941.6	928.3	901.9	885.4	878.8	892.0	901.9	908.5	901.9
52.5°	829.3	816.1	792.9	773.1	769.8	776.4	779.7	783.0	789.6
55°	740.1	726.8	700.4	677.3	670.7	674.0	670.7	670.7	667.4
57.5°	654.1	640.9	614.5	588.0	578.1	574.8	564.9	561.6	558.3
60°	578.1	561.6	535.3	505.4	492.3	479.1	462.6	452.7	452.7
62.5°	505.4	489.0	459.3	432.8	413.0	389.9	363.4	350.2	350.2
65°	436.1	422.9	389.9	360.1	333.7	303.9	274.2	267.6	274.2
67.5°	370.0	356.8	323.8	294.0	261.0	224.6	198.2	198.2	204.8
70°	310.5	297.3	267.6	231.2	194.9	158.5	138.8	138.8	138.8
72.5°	254.4	241.1	208.1	175.2	138.8	102.4	92.5	95.8	92.5
75°	198.2	188.4	158.5	122.3	89.2	62.8	59.5	56.2	59.5
77.5°	148.7	138.8	112.4	79.3	49.6	36.4	33.0	33.0	33.0
80°	102.4	92.5	72.7	46.3	26.4	16.5	16.5	16.5	16.5
82.5°	62.8	52.9	39.7	23.1	9.9	9.9	9.9	9.9	9.9
85°	29.7	23.1	16.5	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)