

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: P593281

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W40D010MW-HM63040850-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

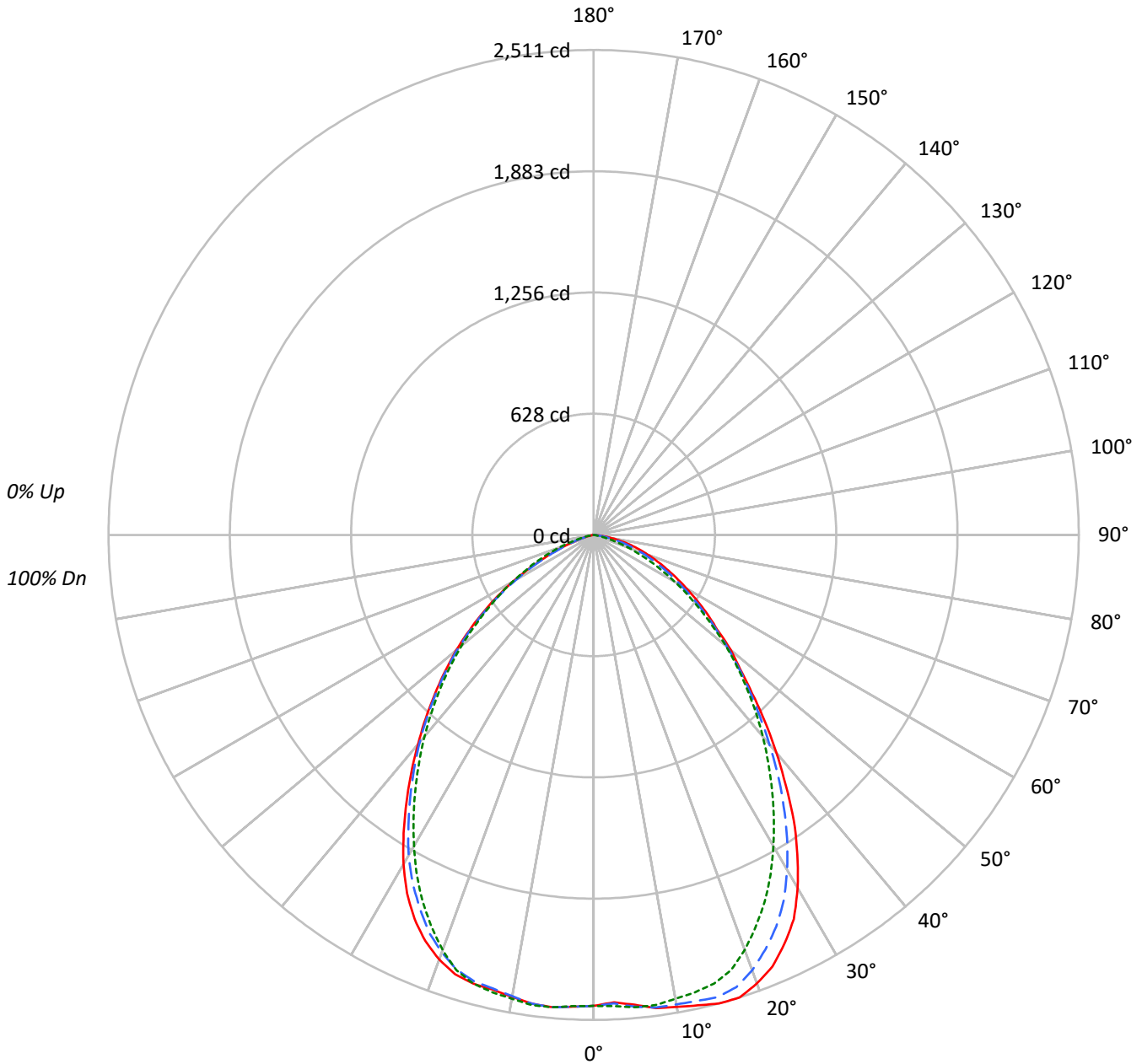
Lumens per Lamp: N/A
Luminaire Lumens: 4922.9 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P593281
CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P593281

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWC

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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
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	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	133674	133674	133674
5°	134366	135092	135092
10°	138129	135736	135185
15°	142515	136510	136510
20°	144178	133391	136465
25°	141292	126709	132703
30°	133647	117752	124658
35°	120950	107679	113000
40°	105219	97418	101197
45°	89916	86838	89916
50°	78897	76091	79179
55°	68843	64103	66636
60°	60850	53252	52529
65°	54001	42002	35996
70°	47668	29668	21718
75°	40604	16796	10506
80°	30244	5209	3125
85°	16605	2076	2076



TEST NUMBER: P593281

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	4.8
10°-20°	684.3	13.9
20°-30°	999.5	20.3
30°-40°	1048.2	21.3
40°-50°	883.1	17.9
50°-60°	618.7	12.6
60°-70°	331.7	6.7
70°-80°	111.3	2.3
80°-90°	12.1	0.2
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°	1917.7	39.0
0°-40°	2966.0	60.2
0°-60°	4467.8	90.8
0°-90°	4922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2438	2438	2438	2438	2438	
5°	2442	2452	2455	2455	2455	235
15°	2511	2478	2405	2392	2405	708
25°	2336	2237	2095	2131	2194	1070
35°	1807	1715	1609	1655	1688	1122
45°	1160	1140	1120	1150	1160	903
55°	720	697	671	684	697	648
65°	416	380	324	268	278	416
75°	192	149	79	50	50	203
85°	26	13	3	3	3	36
90°	0	0	0	0	0	

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



TEST NUMBER: P593281

CATALOG NUMBER: HCC6W40D010MW-HM63040850-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4	2438.4
2.5°	2421.9	2421.9	2428.5	2435.1	2441.7	2441.7	2445.0	2448.3	2445.0
5°	2441.7	2441.7	2451.6	2454.9	2454.9	2451.6	2454.9	2454.9	2454.9
7.5°	2471.4	2464.8	2468.1	2461.5	2454.9	2451.6	2448.3	2448.3	2448.3
10°	2481.4	2474.8	2468.1	2454.9	2438.4	2428.5	2425.2	2428.5	2428.5
12.5°	2494.6	2488.0	2471.4	2445.0	2425.2	2408.8	2405.3	2412.1	2412.1
15°	2511.1	2504.5	2478.1	2435.1	2405.3	2388.8	2392.1	2398.7	2405.3
17.5°	2511.1	2497.9	2454.9	2398.7	2362.5	2346.0	2359.2	2375.7	2385.5
20°	2471.4	2458.2	2398.7	2329.4	2286.5	2276.6	2299.7	2329.4	2339.2
22.5°	2418.7	2392.1	2322.8	2240.2	2193.9	2193.9	2227.0	2263.3	2276.6
25°	2335.9	2316.2	2236.9	2141.0	2094.8	2091.5	2131.1	2180.7	2193.9
27.5°	2243.5	2217.1	2131.1	2032.1	1982.5	1985.8	2028.8	2078.2	2091.5
30°	2111.3	2078.2	2002.2	1906.5	1860.2	1873.4	1916.4	1952.8	1969.3
32.5°	1962.7	1932.9	1863.5	1774.3	1734.6	1747.8	1784.2	1817.3	1830.5
35°	1807.3	1774.3	1714.8	1635.6	1609.0	1622.4	1655.3	1681.7	1688.5
37.5°	1632.3	1609.0	1566.2	1503.4	1483.5	1500.1	1526.5	1543.0	1549.6
40°	1470.3	1450.5	1414.1	1367.9	1361.3	1374.5	1400.9	1410.8	1414.1
42.5°	1311.7	1295.3	1272.0	1239.1	1239.1	1252.3	1275.3	1281.9	1285.2
45°	1159.8	1149.8	1139.9	1113.5	1120.1	1136.6	1149.8	1159.8	1159.8
47.5°	1027.6	1030.9	1017.6	997.8	1004.4	1020.9	1030.9	1040.8	1040.8
50°	925.1	915.3	902.1	882.1	892.2	905.4	918.6	925.1	928.4
52.5°	806.2	802.9	793.0	769.9	776.5	783.1	796.3	806.2	809.5
55°	720.3	710.4	697.2	670.7	670.7	677.3	683.9	690.5	697.2
57.5°	637.7	627.8	607.9	578.2	575.0	575.0	571.7	578.2	588.1
60°	555.0	551.7	522.1	495.7	485.7	475.8	462.6	465.9	479.1
62.5°	482.4	475.8	449.4	416.3	396.5	380.0	363.5	360.1	373.4
65°	416.3	409.7	380.0	346.9	323.8	294.0	267.6	267.6	277.5
67.5°	356.8	343.6	317.2	280.8	251.1	214.7	188.4	194.9	198.2
70°	297.4	287.4	257.7	221.3	185.1	148.7	132.2	135.5	135.5
72.5°	244.5	231.4	201.5	165.3	128.9	95.8	89.2	85.9	85.9
75°	191.7	178.5	148.7	112.4	79.3	56.2	49.6	49.6	49.6
77.5°	138.8	128.9	102.5	69.4	43.0	26.4	23.1	19.8	19.8
80°	95.8	85.9	62.8	36.4	16.5	9.9	9.9	9.9	9.9
82.5°	56.2	46.3	29.7	16.5	6.6	3.3	3.3	3.3	3.3
85°	26.4	19.8	13.2	6.6	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	0.0	0.0	0.0	0.0	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)