

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: P593303

Luminaire Tested: **HCC6S40D010MB-HM63040950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S40D010MB-HM63040950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

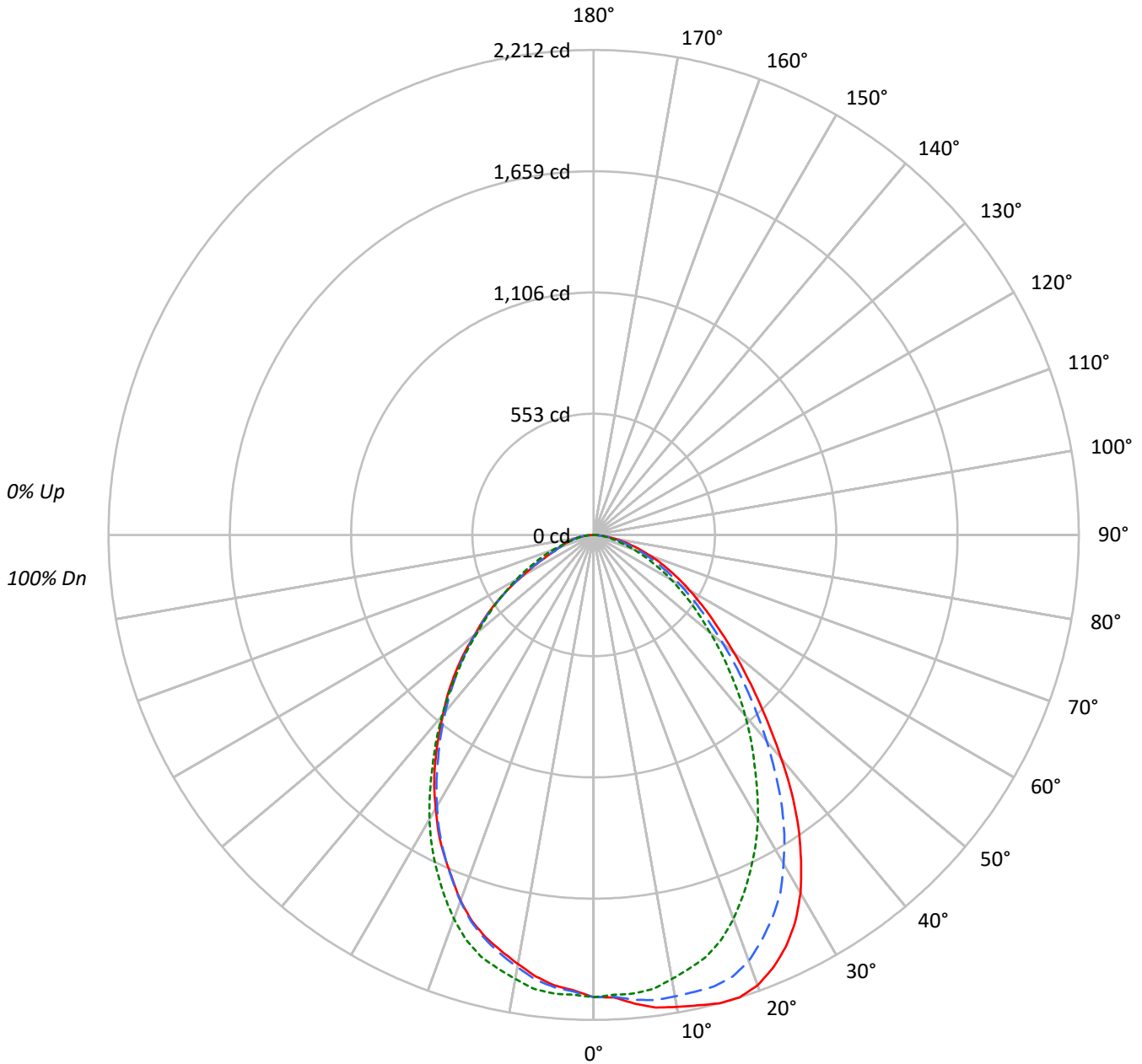
Lumens per Lamp: N/A
Luminaire Lumens: 4128.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P593303
CATALOG NUMBER: HCC6S40D010MB-HM63040950-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P593303

CATALOG NUMBER: HCC6S40D010MB-HM63040950-61WWWB

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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115572	115572	115572
5°	118071	115540	113476
10°	121686	114466	110619
15°	125529	112946	107878
20°	127528	108708	103504
25°	125427	102260	97560
30°	119411	94799	91160
35°	108904	85581	84229
40°	95221	76880	76465
45°	81946	67658	69216
50°	71230	58949	60186
55°	62210	51745	52309
60°	55259	44843	41060
65°	49305	37721	31378
70°	43405	30935	26319
75°	37215	24379	25015
80°	30023	20899	24561
85°	19939	18115	21763



TEST NUMBER: P593303
 CATALOG NUMBER: HCC6S40D010MB-HM63040950-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	4.8
10°-20°	568.2	13.8
20°-30°	811.2	19.6
30°-40°	849.7	20.6
40°-50°	715.4	17.3
50°-60°	509.2	12.3
60°-70°	298.0	7.2
70°-80°	141.0	3.4
80°-90°	36.3	0.9
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°	1579.0	38.2
0°-40°	2428.7	58.8
0°-60°	3653.3	88.5
0°-90°	4128.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2108	2108	2108	2108	2108	
5°	2146	2128	2100	2071	2062	206
15°	2212	2131	1990	1910	1901	624
25°	2074	1927	1691	1610	1613	949
35°	1627	1492	1279	1236	1259	1011
45°	1057	979	873	876	893	821
55°	651	596	541	541	547	587
65°	380	337	291	245	242	379
75°	176	147	115	112	118	189
85°	32	26	29	35	35	41
90°	0	0	0	0	0	

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



TEST NUMBER: P593303

CATALOG NUMBER: HCC6S40D010MB-HM63040950-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2108.2	2108.2	2108.2	2108.2	2108.2	2108.2	2108.2	2108.2	2108.2
2.5°	2111.1	2111.1	2108.2	2105.4	2099.6	2090.9	2085.2	2079.4	2079.4
5°	2145.6	2139.9	2128.3	2114.0	2099.6	2082.3	2070.8	2062.1	2062.1
7.5°	2174.5	2162.9	2139.9	2114.0	2088.1	2065.0	2044.8	2033.4	2030.5
10°	2186.0	2171.6	2137.0	2096.7	2056.3	2024.7	2001.7	1987.2	1987.2
12.5°	2197.5	2180.2	2134.1	2076.5	2024.7	1981.5	1958.5	1947.0	1944.1
15°	2211.8	2188.9	2131.2	2059.2	1990.1	1941.2	1909.5	1900.8	1900.8
17.5°	2211.8	2183.1	2111.1	2021.8	1935.4	1880.6	1851.9	1843.3	1846.1
20°	2186.0	2154.3	2067.9	1958.5	1863.4	1805.8	1777.0	1771.3	1774.2
22.5°	2137.0	2099.6	2001.7	1883.5	1779.9	1719.4	1693.5	1693.5	1690.6
25°	2073.6	2033.4	1926.8	1802.9	1690.6	1630.2	1610.0	1612.9	1612.9
27.5°	1990.1	1949.7	1843.3	1710.7	1598.5	1538.0	1523.6	1529.4	1532.2
30°	1886.4	1843.3	1730.9	1601.3	1497.6	1437.2	1428.5	1437.2	1440.1
32.5°	1759.7	1728.0	1618.5	1486.1	1388.2	1336.4	1333.5	1342.1	1353.7
35°	1627.3	1592.7	1491.9	1371.0	1278.8	1235.5	1235.5	1250.0	1258.6
37.5°	1483.2	1448.7	1356.5	1255.7	1178.0	1137.6	1143.4	1157.8	1160.7
40°	1330.6	1304.6	1226.9	1140.5	1074.3	1042.5	1051.2	1065.6	1068.5
42.5°	1186.6	1163.5	1100.2	1022.5	973.4	950.5	961.9	979.2	985.0
45°	1057.0	1031.1	979.2	913.0	872.7	861.2	875.6	887.0	892.8
47.5°	938.9	915.9	872.7	812.2	783.4	777.7	792.1	797.7	803.5
50°	835.2	812.2	769.0	714.2	691.2	691.2	702.8	708.4	705.7
52.5°	734.4	714.2	673.9	627.8	613.5	613.5	622.0	624.9	630.7
55°	650.9	630.7	596.2	552.9	541.4	535.6	541.4	541.4	547.3
57.5°	573.1	555.8	524.2	483.8	469.4	463.6	460.9	458.0	463.6
60°	504.0	489.6	455.1	420.5	409.0	394.5	383.0	371.6	374.5
62.5°	440.7	426.3	394.5	360.0	348.5	328.3	313.9	299.5	305.3
65°	380.1	365.8	337.0	308.1	290.8	267.9	244.8	236.1	241.9
67.5°	325.4	313.9	285.2	256.3	241.9	216.1	193.0	193.0	195.9
70°	270.8	259.2	236.1	210.2	193.0	169.9	161.3	164.2	164.2
72.5°	221.7	213.2	190.1	167.0	149.7	135.3	135.3	138.2	141.1
75°	175.7	169.9	146.9	126.8	115.1	106.6	112.4	115.1	118.1
77.5°	135.3	126.8	109.5	95.1	86.4	89.3	95.1	97.9	100.8
80°	95.1	92.2	77.8	69.1	66.2	69.1	74.9	77.8	77.8
82.5°	60.5	57.6	48.9	46.0	46.0	48.9	54.7	54.7	54.7
85°	31.7	28.8	26.0	26.0	28.8	31.7	34.6	34.6	34.6
87.5°	11.5	8.7	11.5	11.5	14.4	14.4	14.4	14.4	14.4
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)