

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: P582513

Luminaire Tested: **HCC6S40D010MB-HM63040930-61RWWH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582513  
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: HCC6S40D010MB-HM63040930-61RWWH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

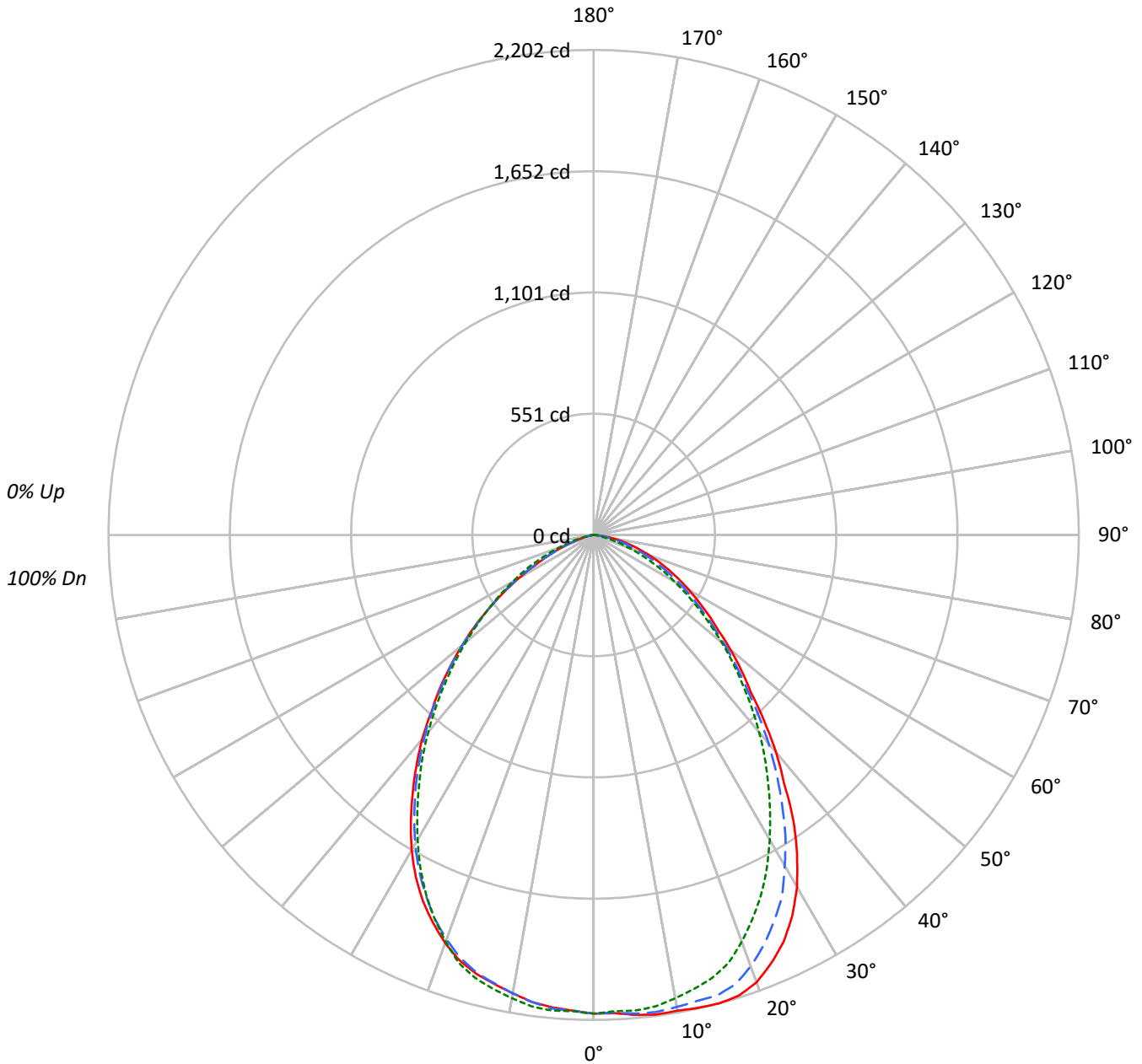
Lumens per Lamp: N/A  
Luminaire Lumens: 4258.7 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P582513  
CATALOG NUMBER: HCC6S40D010MB-HM63040930-61RWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P582513

CATALOG NUMBER: HCC6S40D010MB-HM63040930-61RWWH

**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	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°	119141	119141	119141
5°	120383	119282	118501
10°	122086	118925	117655
15°	124961	118173	117044
20°	126128	114658	114991
25°	123358	108889	110952
30°	116841	101155	104573
35°	105792	92454	95881
40°	92137	83571	86634
45°	78179	73977	76636
50°	69234	64612	66326
55°	60978	55262	54985
60°	54656	46542	42793
65°	48773	37319	30665
70°	42924	26928	19170
75°	36198	16288	10866
80°	27844	7198	4483
85°	16102	1824	1824



TEST NUMBER: P582513  
 CATALOG NUMBER: HCC6S40D010MB-HM63040930-61RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.3	4.8
10°-20°	592.9	13.9
20°-30°	857.1	20.1
30°-40°	901.8	21.2
40°-50°	758.1	17.8
50°-60°	532.1	12.5
60°-70°	292.7	6.9
70°-80°	103.9	2.4
80°-90°	13.6	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°	1656.3	38.9
0°-40°	2558.2	60.1
0°-60°	3848.4	90.4
0°-90°	4258.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2173	2173	2173	2173	2173	
5°	2188	2182	2168	2159	2153	209
15°	2202	2165	2082	2057	2062	621
25°	2039	1937	1800	1803	1834	933
35°	1581	1490	1382	1410	1433	980
45°	1008	980	954	977	988	791
55°	638	604	578	578	575	574
65°	376	336	288	236	236	374
75°	171	137	77	51	51	183
85°	26	14	3	3	3	35
90°	0	0	0	0	0	



TEST NUMBER: P582513

CATALOG NUMBER: HCC6S40D010MB-HM63040930-61RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2173.3	2173.3	2173.3	2173.3	2173.3	2173.3	2173.3	2173.3	2173.3
2.5°	2173.3	2173.3	2170.5	2170.5	2164.9	2164.9	2162.0	2162.0	2162.0
5°	2187.6	2187.6	2181.9	2173.3	2167.6	2159.1	2159.1	2156.3	2153.4
7.5°	2196.1	2193.2	2184.8	2173.3	2159.1	2144.8	2139.2	2142.1	2139.2
10°	2193.2	2187.6	2176.2	2153.4	2136.4	2116.3	2113.6	2110.7	2113.6
12.5°	2199.0	2190.5	2167.6	2139.2	2110.7	2087.8	2085.1	2085.1	2087.8
15°	2201.8	2193.2	2164.9	2122.1	2082.2	2059.4	2056.6	2059.4	2062.3
17.5°	2193.2	2181.9	2139.2	2082.2	2036.7	2013.8	2013.8	2019.5	2025.2
20°	2162.0	2144.8	2085.1	2016.8	1965.4	1948.3	1954.0	1965.4	1971.1
22.5°	2105.0	2085.1	2016.8	1939.7	1885.6	1871.4	1885.6	1899.9	1905.6
25°	2039.4	2016.8	1937.0	1857.2	1800.2	1783.2	1803.1	1825.9	1834.3
27.5°	1951.2	1925.5	1851.5	1760.3	1703.4	1694.8	1717.6	1743.2	1749.0
30°	1845.8	1817.3	1734.7	1649.3	1598.0	1595.1	1620.8	1643.6	1652.0
32.5°	1717.6	1692.0	1620.8	1535.3	1489.7	1489.7	1515.4	1535.3	1543.9
35°	1580.8	1552.3	1489.7	1418.6	1381.5	1384.3	1410.0	1424.3	1432.7
37.5°	1418.6	1410.0	1361.6	1301.7	1276.1	1281.8	1301.7	1313.1	1321.6
40°	1287.5	1264.7	1233.4	1185.0	1167.8	1173.5	1193.4	1204.9	1210.6
42.5°	1145.0	1130.8	1105.2	1071.0	1059.6	1068.1	1085.3	1093.8	1090.9
45°	1008.4	1005.5	979.9	960.0	954.2	965.6	977.0	985.6	988.5
47.5°	908.7	897.3	874.5	860.3	854.6	865.9	877.3	883.1	883.1
50°	811.8	800.4	777.7	763.4	757.6	769.1	777.7	783.4	777.7
52.5°	714.9	703.6	683.6	666.5	663.7	669.4	672.3	675.1	680.7
55°	638.0	626.7	603.8	583.9	578.2	581.0	578.2	578.2	575.3
57.5°	564.0	552.7	529.8	507.0	498.5	495.7	487.1	484.2	481.4
60°	498.5	484.2	461.4	435.8	424.5	413.0	398.7	390.3	390.3
62.5°	435.8	421.6	396.0	373.1	356.0	336.1	313.3	301.9	301.9
65°	376.0	364.6	336.1	310.5	287.7	262.1	236.4	230.7	236.4
67.5°	319.1	307.6	279.1	253.5	225.0	193.6	170.9	170.9	176.6
70°	267.8	256.4	230.7	199.4	168.0	136.8	119.6	119.6	119.6
72.5°	219.3	207.9	179.5	151.0	119.6	88.2	79.8	82.6	79.8
75°	170.9	162.4	136.8	105.4	76.9	54.1	51.3	48.4	51.3
77.5°	128.2	119.6	96.8	68.3	42.7	31.4	28.5	28.5	28.5
80°	88.2	79.8	62.7	39.8	22.8	14.2	14.2	14.2	14.2
82.5°	54.1	45.6	34.2	19.9	8.6	8.6	8.6	8.6	8.6
85°	25.6	19.9	14.2	5.7	2.9	2.9	2.9	2.9	2.9
87.5°	5.7	5.7	2.9	2.9	0.0	2.9	2.9	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)