

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: P593301

Luminaire Tested: **HCC6S40D010BZ-HM63040950-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593301  
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: HCC6S40D010BZ-HM63040950-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

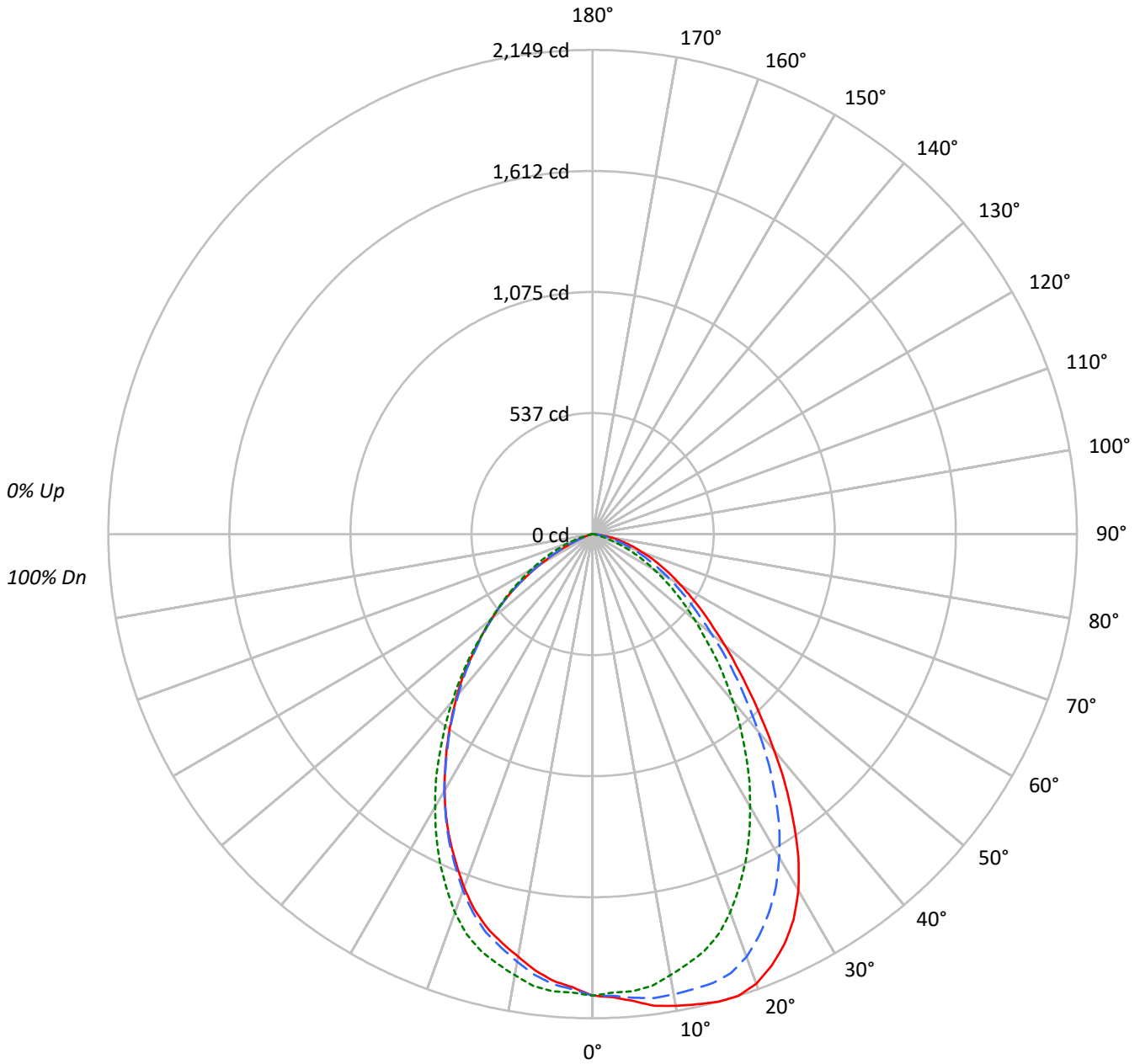
Lumens per Lamp: N/A  
Luminaire Lumens: 3650.4 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P593301  
CATALOG NUMBER: HCC6S40D010BZ-HM63040950-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593301

CATALOG NUMBER: HCC6S40D010BZ-HM63040950-61WWBB

**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
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°	112294	112294	112294
5°	114467	112090	109553
10°	118357	110664	106010
15°	121981	108729	102685
20°	123870	104210	97314
25°	121634	97064	90616
30°	115625	88450	83158
35°	103925	79056	75007
40°	89689	69273	67011
45°	75946	59634	58076
50°	65107	50369	49875
55°	56447	42407	40754
60°	49272	34438	29066
65°	43351	26540	16072
70°	37394	17551	7838
75°	31729	8557	3050
80°	24561	3631	1831
85°	14530	1824	1824



TEST NUMBER: P593301  
 CATALOG NUMBER: HCC6S40D010BZ-HM63040950-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	5.3
10°-20°	546.6	15.0
20°-30°	769.8	21.1
30°-40°	786.5	21.5
40°-50°	634.2	17.4
50°-60°	425.3	11.7
60°-70°	215.3	5.9
70°-80°	68.8	1.9
80°-90°	10.6	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°	1509.7	41.4
0°-40°	2296.3	62.9
0°-60°	3355.7	91.9
0°-90°	3650.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3650.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2048	2048	2048	2048	2048	
5°	2080	2066	2037	2005	1991	200
15°	2149	2063	1916	1830	1809	607
25°	2011	1852	1605	1507	1498	921
35°	1553	1412	1181	1115	1121	966
45°	980	902	769	743	749	762
55°	591	524	444	424	426	531
65°	334	277	205	136	124	334
75°	150	107	40	14	14	161
85°	23	12	3	3	3	31
90°	0	0	0	0	0	

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



TEST NUMBER: P593301

CATALOG NUMBER: HCC6S40D010BZ-HM63040950-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4	2048.4
2.5°	2057.1	2054.2	2051.3	2045.5	2036.9	2028.2	2022.6	2016.8	2013.8
5°	2080.1	2074.4	2065.7	2054.2	2036.9	2016.8	2005.3	1993.7	1990.8
7.5°	2111.9	2100.2	2077.3	2051.3	2022.6	1993.7	1973.5	1962.0	1953.3
10°	2126.2	2106.0	2074.4	2031.1	1988.0	1953.3	1927.5	1910.2	1904.4
12.5°	2137.7	2114.8	2068.6	2010.9	1953.3	1907.3	1878.4	1864.0	1858.3
15°	2149.3	2126.2	2062.8	1988.0	1915.8	1861.1	1829.5	1815.1	1809.3
17.5°	2149.3	2117.5	2042.7	1947.6	1861.1	1794.9	1763.2	1748.9	1746.0
20°	2123.3	2088.8	1996.6	1884.2	1786.3	1711.4	1682.5	1673.9	1668.1
22.5°	2074.4	2034.0	1930.4	1803.6	1696.9	1624.9	1593.2	1587.4	1581.7
25°	2010.9	1970.6	1852.5	1717.1	1604.7	1532.7	1506.8	1501.0	1498.1
27.5°	1930.4	1887.1	1763.2	1624.9	1503.9	1434.8	1411.7	1411.7	1408.8
30°	1826.6	1777.6	1656.7	1518.3	1397.3	1333.9	1316.6	1316.6	1313.7
32.5°	1699.8	1650.9	1541.4	1408.8	1293.5	1227.3	1213.0	1218.6	1215.9
35°	1552.9	1512.5	1411.7	1282.1	1181.3	1120.8	1115.0	1120.8	1120.8
37.5°	1405.9	1368.5	1282.1	1169.7	1074.6	1019.9	1019.9	1028.6	1025.7
40°	1253.3	1224.4	1143.8	1045.8	968.0	930.6	924.9	933.5	936.4
42.5°	1109.1	1086.2	1017.1	936.4	867.2	829.8	838.4	844.2	847.1
45°	979.6	956.5	901.8	818.2	769.2	743.3	743.3	752.0	749.1
47.5°	864.3	847.1	792.3	711.6	668.5	656.9	662.7	668.5	668.5
50°	763.4	737.6	685.7	622.3	590.6	576.3	581.9	584.8	584.8
52.5°	668.5	651.1	599.2	541.6	512.8	504.1	504.1	507.0	507.0
55°	590.6	570.5	524.3	466.8	443.7	432.1	423.5	420.6	426.4
57.5°	515.7	498.5	455.2	400.4	374.6	363.0	345.7	339.9	345.7
60°	449.4	435.0	391.9	339.9	314.1	291.0	270.8	259.3	265.1
62.5°	391.9	374.6	331.3	288.1	259.3	233.3	201.7	184.4	193.0
65°	334.2	319.9	276.6	233.3	204.6	172.9	135.5	123.9	123.9
67.5°	282.4	267.9	227.7	190.2	155.6	118.2	83.5	80.7	83.5
70°	233.3	219.0	184.4	146.9	109.5	72.0	48.9	48.9	48.9
72.5°	193.0	175.7	144.0	106.6	69.1	37.5	26.0	28.8	28.8
75°	149.8	135.5	106.6	72.0	40.4	17.3	14.4	14.4	14.4
77.5°	112.4	100.8	74.9	46.0	20.2	5.8	5.8	5.8	5.8
80°	77.8	66.2	48.9	28.8	11.5	5.8	5.8	5.8	5.8
82.5°	46.0	40.4	28.8	14.4	5.8	2.9	2.9	2.9	2.9
85°	23.1	20.2	11.5	5.8	2.9	2.9	2.9	2.9	2.9
87.5°	5.8	5.8	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)