

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: P582520

Luminaire Tested: **HCC6S40D010BZ-HM63040930-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S40D010BZ-HM63040930-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

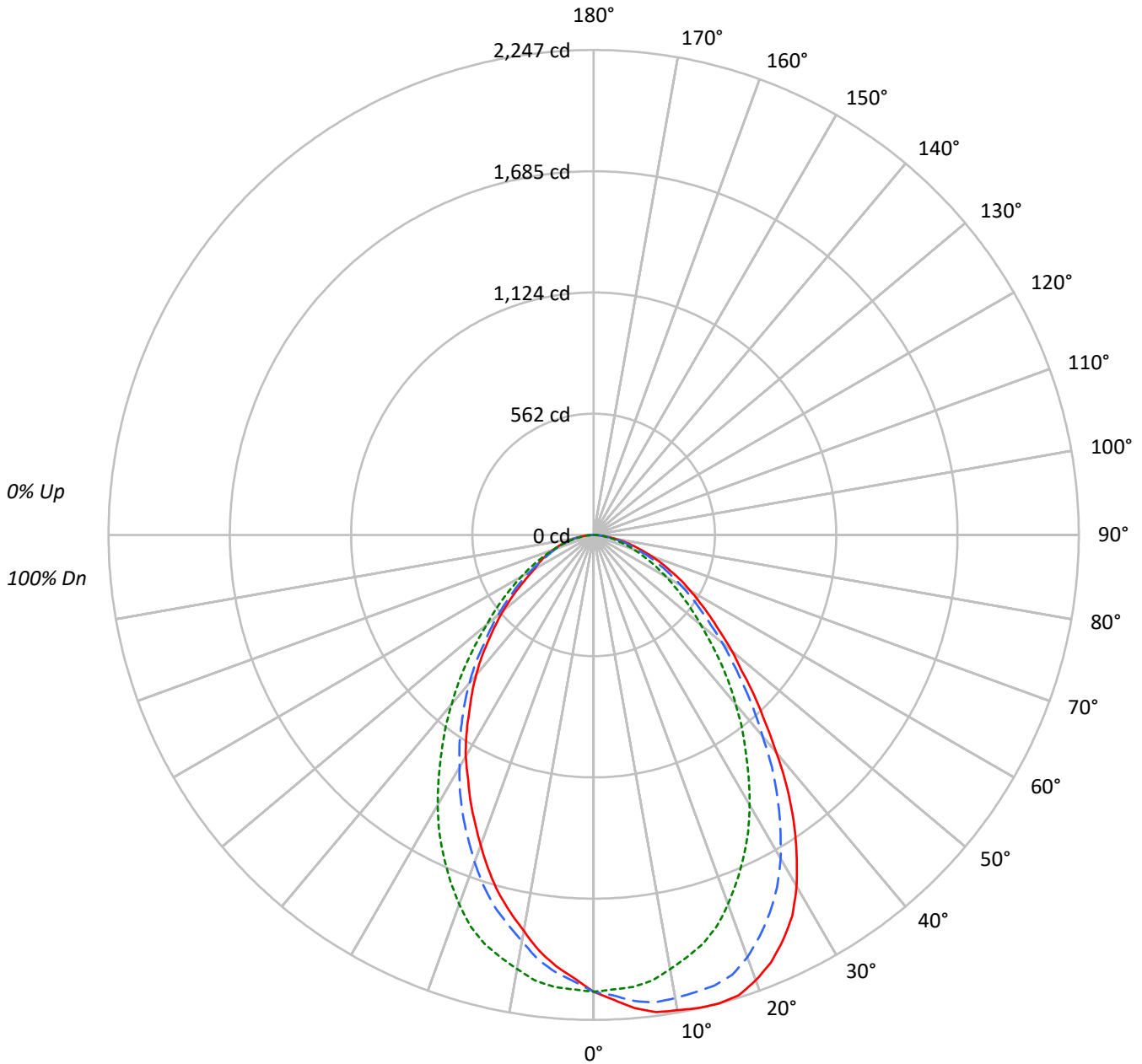
Lumens per Lamp: N/A  
Luminaire Lumens: 3942.5 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (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: P582520  
CATALOG NUMBER: HCC6S40D010BZ-HM63040930-61WWW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582520

CATALOG NUMBER: HCC6S40D010BZ-HM63040930-61WWW

**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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42								
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38								
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34								
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	116027	116027	116027
5°	121170	115683	110356
10°	124474	113686	103705
15°	127549	111227	97157
20°	128117	106188	89234
25°	125433	99417	81839
30°	119006	91419	75012
35°	108087	82161	67291
40°	94176	73180	60542
45°	81489	64045	53223
50°	71187	55145	46642
55°	62889	48457	40027
60°	56531	42475	34668
65°	50628	36956	33622
70°	45200	31496	31496
75°	39227	26540	29569
80°	31475	22478	26992
85°	21511	19750	23336



TEST NUMBER: P582520  
 CATALOG NUMBER: HCC6S40D010BZ-HM63040930-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.9	5.0
10°-20°	552.9	14.0
20°-30°	770.6	19.5
30°-40°	794.0	20.1
40°-50°	658.0	16.7
50°-60°	472.9	12.0
60°-70°	301.2	7.6
70°-80°	154.7	3.9
80°-90°	39.3	1.0
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°	1522.4	38.6
0°-40°	2316.4	58.8
0°-60°	3447.3	87.4
0°-90°	3942.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2116	2116	2116	2116	2116	
5°	2202	2168	2102	2034	2005	211
15°	2247	2162	1960	1780	1712	633
25°	2074	1931	1644	1433	1353	950
35°	1615	1484	1228	1065	1006	1003
45°	1051	977	826	721	686	814
55°	658	604	507	450	419	593
65°	390	348	285	248	259	391
75°	185	160	125	131	140	197
85°	34	31	31	34	37	44
90°	0	0	0	0	0	



TEST NUMBER: P582520

CATALOG NUMBER: HCC6S40D010BZ-HM63040930-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5	2116.5
2.5°	2156.3	2147.7	2136.4	2125.0	2107.9	2088.0	2070.8	2065.2	2056.6
5°	2201.9	2190.5	2167.8	2139.3	2102.2	2065.2	2033.9	2013.8	2005.4
7.5°	2230.4	2216.2	2184.8	2136.4	2082.3	2028.1	1982.6	1954.1	1942.6
10°	2236.1	2221.9	2179.1	2113.6	2042.3	1968.3	1911.4	1877.2	1863.0
12.5°	2244.7	2224.6	2170.5	2093.6	2002.5	1917.0	1845.8	1803.1	1788.8
15°	2247.4	2224.6	2162.0	2068.1	1959.8	1857.3	1780.3	1729.1	1711.9
17.5°	2236.1	2210.4	2136.4	2022.4	1900.0	1791.7	1700.6	1646.4	1623.7
20°	2196.1	2167.8	2082.3	1954.1	1820.2	1706.3	1612.2	1555.2	1529.6
22.5°	2145.0	2107.9	2011.1	1874.3	1734.7	1615.1	1521.1	1464.1	1438.5
25°	2073.7	2039.6	1931.3	1786.1	1643.6	1518.3	1432.8	1372.9	1353.0
27.5°	1991.2	1951.2	1840.1	1694.9	1549.6	1424.3	1341.7	1287.5	1261.9
30°	1880.0	1843.0	1731.8	1586.6	1444.2	1327.4	1242.0	1196.3	1185.0
32.5°	1749.0	1717.6	1609.4	1472.7	1336.0	1227.7	1156.5	1108.1	1096.6
35°	1615.1	1578.1	1484.0	1355.9	1227.7	1130.9	1065.4	1022.6	1005.5
37.5°	1469.9	1435.6	1355.9	1242.0	1128.0	1036.9	979.9	942.8	925.8
40°	1316.0	1290.4	1216.2	1125.1	1022.6	942.8	894.4	863.2	846.0
42.5°	1173.6	1147.9	1096.6	1011.3	925.8	854.6	811.8	783.4	769.1
45°	1051.1	1028.3	977.0	903.0	826.1	766.2	720.7	700.8	686.5
47.5°	928.6	917.2	871.6	803.3	732.0	680.7	649.5	626.7	615.3
50°	834.7	820.4	777.7	706.5	646.6	606.7	578.2	558.3	546.9
52.5°	737.7	723.5	683.6	623.9	575.3	538.4	509.9	492.8	481.4
55°	658.0	646.6	603.8	549.8	507.0	475.8	450.0	430.1	418.8
57.5°	583.9	572.6	532.6	481.4	444.4	415.9	393.1	376.0	361.8
60°	515.6	507.0	467.2	418.8	387.4	358.9	339.0	324.7	316.2
62.5°	455.7	438.7	404.5	361.8	333.3	310.5	290.6	282.0	287.7
65°	390.3	381.7	347.6	310.5	284.9	262.1	247.8	253.5	259.2
67.5°	336.1	324.7	296.2	262.1	239.3	222.1	213.7	225.0	227.9
70°	282.0	270.7	244.9	216.4	196.5	185.2	185.2	193.8	196.5
72.5°	230.7	222.1	199.4	176.6	162.4	153.8	159.5	165.3	168.0
75°	185.2	176.6	159.5	139.6	125.3	125.3	131.0	136.8	139.6
77.5°	142.5	136.8	119.6	105.4	99.7	99.7	105.4	108.3	111.1
80°	99.7	94.0	85.5	76.9	71.2	76.9	82.6	82.6	85.5
82.5°	65.6	62.7	57.0	51.3	51.3	54.1	57.0	59.9	59.9
85°	34.2	34.2	31.4	28.5	31.4	34.2	34.2	37.1	37.1
87.5°	11.3	11.3	11.3	11.3	14.2	14.2	14.2	14.2	14.2
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)