

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: P582539

Luminaire Tested: **HCC6S40D010BZ-HM63040935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582539
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: HCC6S40D010BZ-HM63040935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

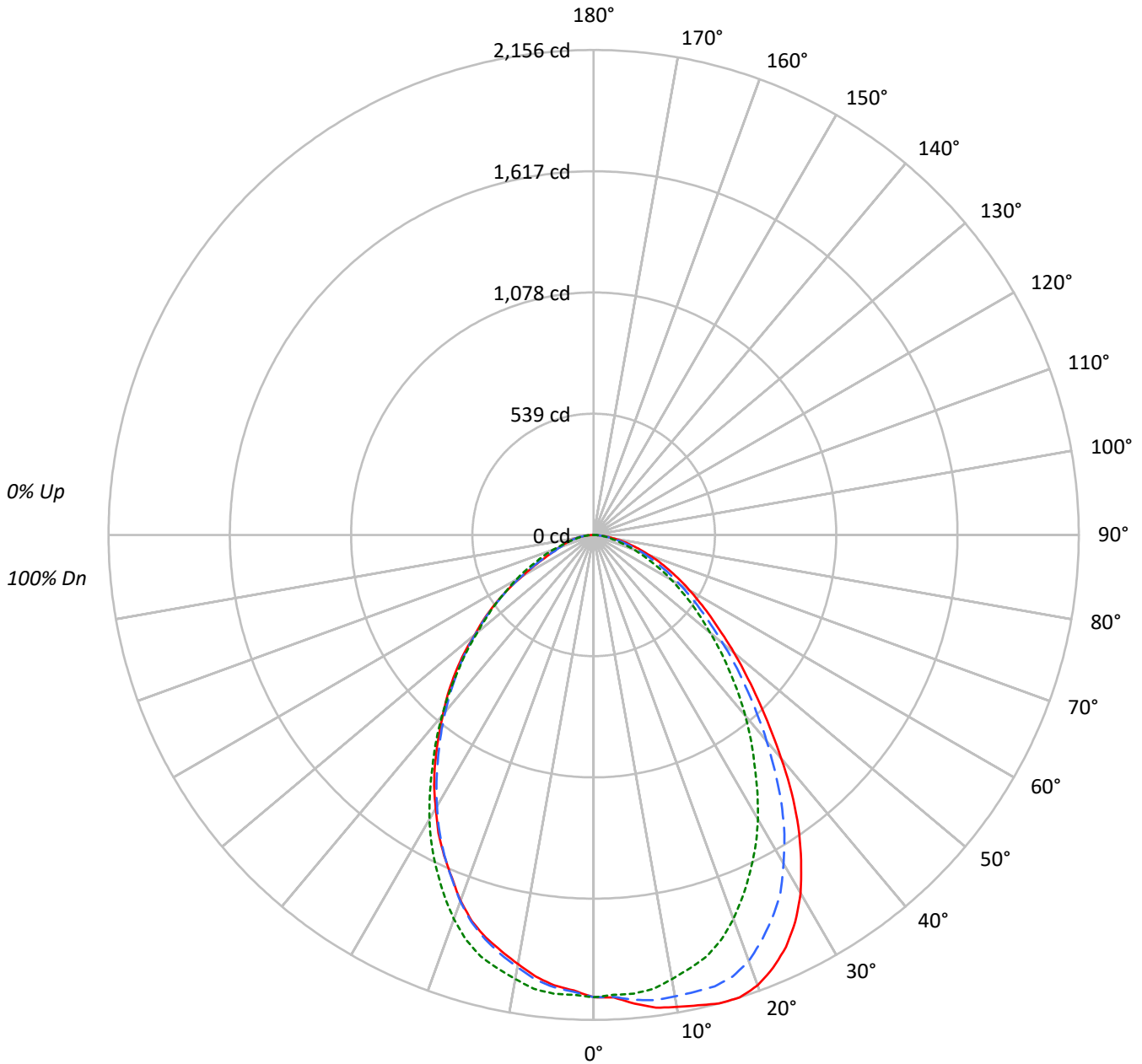
Lumens per Lamp: N/A
Luminaire Lumens: 4024.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582539
CATALOG NUMBER: HCC6S40D010BZ-HM63040935-61WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582539

CATALOG NUMBER: HCC6S40D010BZ-HM63040935-61WWWB

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	112672	112672	112672
5°	115111	112635	110626
10°	118630	111593	107841
15°	122379	110108	105171
20°	124325	105972	100902
25°	122275	99689	95110
30°	116417	92419	88862
35°	106167	83426	82108
40°	92824	74948	74540
45°	79884	65960	67480
50°	69439	57474	58668
55°	60653	50455	50980
60°	53866	43714	40019
65°	48073	36787	30587
70°	42299	30149	25645
75°	36262	23765	24379
80°	29234	20394	23930
85°	19436	17675	21134



TEST NUMBER: P582539
 CATALOG NUMBER: HCC6S40D010BZ-HM63040935-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	4.8
10°-20°	554.0	13.8
20°-30°	790.8	19.6
30°-40°	828.3	20.6
40°-50°	697.4	17.3
50°-60°	496.4	12.3
60°-70°	290.5	7.2
70°-80°	137.5	3.4
80°-90°	35.4	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°	1539.4	38.2
0°-40°	2367.7	58.8
0°-60°	3561.5	88.5
0°-90°	4024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2055	2055	2055	2055	2055	
5°	2092	2075	2047	2019	2010	201
15°	2156	2078	1940	1862	1853	609
25°	2022	1878	1648	1570	1572	925
35°	1586	1454	1247	1204	1227	985
45°	1030	955	851	854	870	800
55°	635	581	528	528	533	572
65°	371	329	284	239	236	370
75°	171	143	112	110	115	184
85°	31	25	28	34	34	40
90°	0	0	0	0	0	

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



TEST NUMBER: P582539

CATALOG NUMBER: HCC6S40D010BZ-HM63040935-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3
2.5°	2058.0	2058.0	2055.3	2052.5	2046.8	2038.4	2032.8	2027.2	2027.2
5°	2091.8	2086.1	2074.9	2060.8	2046.8	2029.9	2018.7	2010.3	2010.3
7.5°	2119.8	2108.6	2086.1	2060.8	2035.6	2013.2	1993.4	1982.2	1979.4
10°	2131.1	2117.0	2083.4	2044.1	2004.7	1973.8	1951.3	1937.3	1937.3
12.5°	2142.3	2125.4	2080.5	2024.4	1973.8	1931.7	1909.3	1898.0	1895.1
15°	2156.3	2133.9	2077.7	2007.5	1940.1	1892.4	1861.5	1853.1	1853.1
17.5°	2156.3	2128.2	2058.0	1971.0	1886.8	1833.4	1805.3	1796.9	1799.8
20°	2131.1	2100.1	2016.0	1909.3	1816.5	1760.5	1732.4	1726.7	1729.6
22.5°	2083.4	2046.8	1951.3	1836.2	1735.1	1676.2	1651.0	1651.0	1648.1
25°	2021.5	1982.2	1878.4	1757.6	1648.1	1589.1	1569.5	1572.4	1572.4
27.5°	1940.1	1900.8	1796.9	1667.7	1558.3	1499.3	1485.3	1490.9	1493.6
30°	1839.1	1796.9	1687.4	1561.0	1460.0	1401.0	1392.6	1401.0	1403.8
32.5°	1715.5	1684.6	1577.9	1448.8	1353.3	1302.8	1300.0	1308.4	1319.7
35°	1586.4	1552.6	1454.3	1336.4	1246.6	1204.5	1204.5	1218.5	1226.9
37.5°	1446.0	1412.3	1322.4	1224.2	1148.3	1109.0	1114.7	1128.7	1131.6
40°	1297.1	1271.9	1196.1	1111.8	1047.3	1016.4	1024.9	1038.8	1041.6
42.5°	1156.8	1134.3	1072.5	996.8	949.0	926.6	937.8	954.6	960.2
45°	1030.4	1005.2	954.6	890.1	850.8	839.5	853.5	864.7	870.4
47.5°	915.3	892.8	850.8	791.8	763.7	758.0	772.1	777.7	783.4
50°	814.2	791.8	749.7	696.3	673.9	673.9	685.1	690.8	687.9
52.5°	716.0	696.3	657.0	612.0	598.0	598.0	606.5	609.2	614.9
55°	634.6	614.9	581.2	539.1	527.9	522.2	527.9	527.9	533.4
57.5°	558.7	541.8	511.0	471.7	457.7	452.0	449.3	446.5	452.0
60°	491.3	477.3	443.6	409.9	398.7	384.6	373.4	362.2	365.0
62.5°	429.6	415.5	384.6	351.0	339.8	320.1	306.0	292.0	297.6
65°	370.6	356.5	328.6	300.5	283.6	261.2	238.6	230.3	235.8
67.5°	317.2	306.0	277.9	250.0	235.8	210.5	188.1	188.1	190.9
70°	263.9	252.7	230.3	205.0	188.1	165.7	157.2	160.0	160.0
72.5°	216.2	207.7	185.3	162.9	146.0	131.9	131.9	134.8	137.6
75°	171.2	165.7	143.2	123.6	112.2	103.9	109.5	112.2	115.1
77.5°	131.9	123.6	106.7	92.6	84.3	87.1	92.6	95.5	98.3
80°	92.6	89.8	75.8	67.4	64.6	67.4	72.9	75.8	75.8
82.5°	59.0	56.2	47.7	45.0	45.0	47.7	53.3	53.3	53.3
85°	30.9	28.1	25.3	25.3	28.1	30.9	33.6	33.6	33.6
87.5°	11.2	8.4	11.2	11.2	14.0	14.0	14.0	14.0	14.0
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)