

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: P582519

Luminaire Tested: **HCC6S40D010SL-HM63040930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582519
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: HCC6S40D010SL-HM63040930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

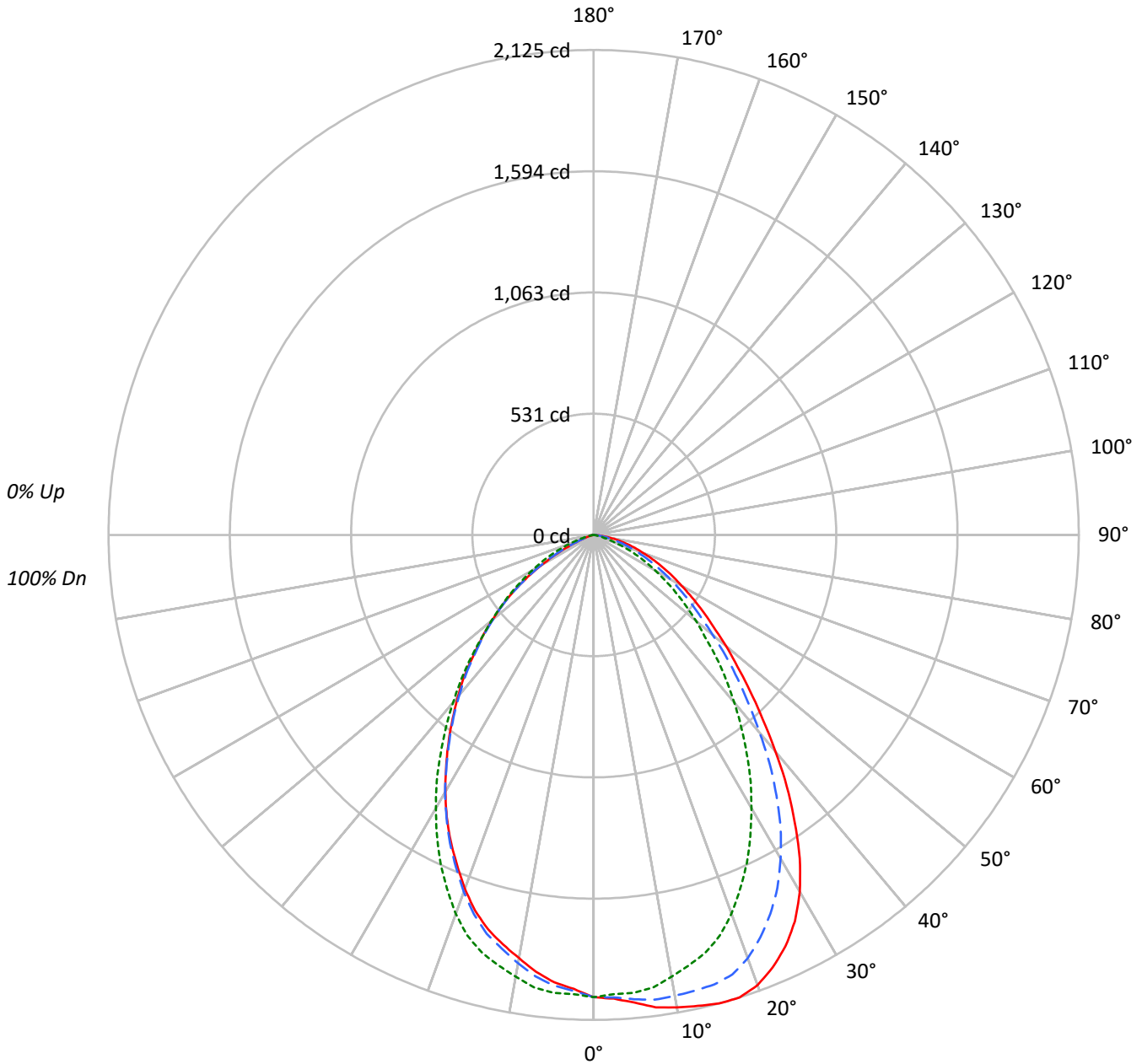
Lumens per Lamp: N/A
Luminaire Lumens: 3609.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (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: P582519
CATALOG NUMBER: HCC6S40D010SL-HM63040930-61WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P582519

CATALOG NUMBER: HCC6S40D010SL-HM63040930-61WWBB

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	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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69					69			
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61					61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54					54			
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44					44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37					37			
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	111027	111027	111027
5°	113174	110830	108315
10°	117021	109406	104813
15°	120602	107503	101522
20°	122470	103031	96218
25°	120267	95969	89594
30°	114321	87450	82228
35°	102747	78153	74157
40°	88673	68493	66253
45°	75085	58960	57417
50°	64382	49798	49312
55°	55807	41929	40295
60°	48724	34043	28737
65°	42858	26228	15890
70°	36977	17359	7758
75°	31369	8430	3008
80°	24277	3567	1799
85°	14341	1824	1824



TEST NUMBER: P582519

CATALOG NUMBER: HCC6S40D010SL-HM63040930-61WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	5.3
10°-20°	540.5	15.0
20°-30°	761.1	21.1
30°-40°	777.6	21.5
40°-50°	627.0	17.4
50°-60°	420.5	11.7
60°-70°	212.8	5.9
70°-80°	68.0	1.9
80°-90°	10.5	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°	1492.7	41.4
0°-40°	2270.3	62.9
0°-60°	3317.8	91.9
0°-90°	3609.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2025	2025	2025	2025	2025	
5°	2057	2042	2014	1983	1968	198
15°	2125	2040	1894	1809	1789	600
25°	1988	1832	1587	1490	1481	910
35°	1535	1396	1168	1102	1108	955
45°	968	892	760	735	741	753
55°	584	518	439	419	422	525
65°	330	273	202	134	122	330
75°	148	105	40	14	14	159
85°	23	11	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: P582519

CATALOG NUMBER: HCC6S40D010SL-HM63040930-61WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2033.9	2031.0	2028.1	2022.4	2014.0	2005.4	1999.7	1993.9	1991.2
5°	2056.6	2050.9	2042.3	2031.0	2014.0	1993.9	1982.6	1971.2	1968.3
7.5°	2088.0	2076.6	2053.8	2028.1	1999.7	1971.2	1951.2	1939.9	1931.3
10°	2102.2	2082.3	2050.9	2008.2	1965.4	1931.3	1905.7	1888.5	1882.9
12.5°	2113.6	2090.9	2045.2	1988.3	1931.3	1885.8	1857.3	1843.0	1837.4
15°	2125.0	2102.2	2039.6	1965.4	1894.2	1840.1	1808.9	1794.6	1788.8
17.5°	2125.0	2093.6	2019.7	1925.6	1840.1	1774.6	1743.3	1729.1	1726.2
20°	2099.3	2065.2	1974.0	1863.0	1766.1	1692.0	1663.5	1654.9	1649.3
22.5°	2050.9	2011.1	1908.5	1783.2	1677.8	1606.5	1575.3	1569.6	1563.8
25°	1988.3	1948.4	1831.6	1697.7	1586.6	1515.4	1489.8	1484.1	1481.2
27.5°	1908.5	1865.9	1743.3	1606.5	1486.9	1418.6	1395.8	1395.8	1393.0
30°	1806.0	1757.6	1637.9	1501.2	1381.5	1318.9	1301.7	1301.7	1299.0
32.5°	1680.7	1632.3	1524.0	1393.0	1279.0	1213.5	1199.2	1204.9	1202.1
35°	1535.3	1495.5	1395.8	1267.6	1167.8	1108.1	1102.4	1108.1	1108.1
37.5°	1390.1	1353.0	1267.6	1156.5	1062.5	1008.4	1008.4	1016.9	1014.0
40°	1239.1	1210.6	1130.9	1034.0	957.1	920.1	914.3	922.9	925.8
42.5°	1096.7	1073.9	1005.5	925.8	857.4	820.4	828.9	834.7	837.4
45°	968.5	945.7	891.6	808.9	760.5	734.9	734.9	743.5	740.6
47.5°	854.6	837.4	783.4	703.6	660.8	649.5	655.1	660.8	660.8
50°	754.9	729.3	678.0	615.3	583.9	569.7	575.3	578.2	578.2
52.5°	660.8	643.8	592.5	535.5	507.0	498.5	498.5	501.4	501.4
55°	583.9	564.0	518.5	461.5	438.7	427.2	418.8	415.9	421.6
57.5°	509.9	492.8	450.0	396.0	370.4	358.9	341.9	336.1	341.9
60°	444.4	430.1	387.4	336.1	310.5	287.7	267.8	256.4	262.1
62.5°	387.4	370.4	327.6	284.9	256.4	230.7	199.4	182.3	190.9
65°	330.4	316.2	273.4	230.7	202.2	170.9	133.9	122.5	122.5
67.5°	279.1	264.9	225.0	188.0	153.8	116.7	82.6	79.8	82.6
70°	230.7	216.4	182.3	145.2	108.3	71.2	48.4	48.4	48.4
72.5°	190.9	173.7	142.5	105.4	68.3	37.1	25.6	28.5	28.5
75°	148.1	133.9	105.4	71.2	39.8	17.1	14.2	14.2	14.2
77.5°	111.1	99.7	74.1	45.6	19.9	5.7	5.7	5.7	5.7
80°	76.9	65.6	48.4	28.5	11.3	5.7	5.7	5.7	5.7
82.5°	45.6	39.8	28.5	14.2	5.7	2.9	2.9	2.9	2.9
85°	22.8	19.9	11.3	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)