

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: P582800

Luminaire Tested: **HCC6S50D010SL-HM64560930-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S50D010SL-HM64560930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

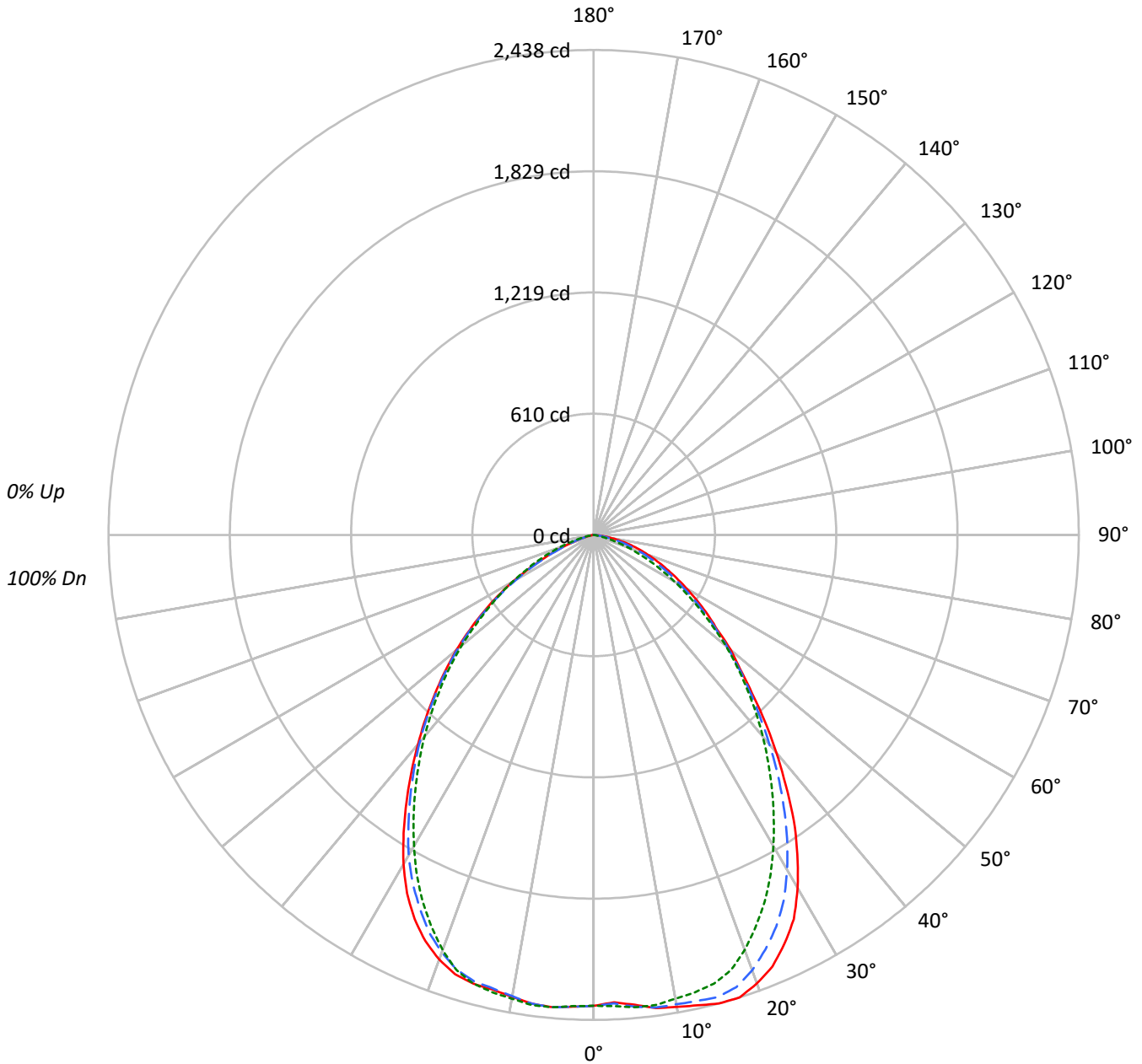
Lumens per Lamp: N/A
Luminaire Lumens: 4779.5 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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: P582800
CATALOG NUMBER: HCC6S50D010SL-HM64560930-61RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P582800

CATALOG NUMBER: HCC6S50D010SL-HM64560930-61RWWC

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	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68								
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60								
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	62	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	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°	129781	129781	129781
5°	130453	131163	131163
10°	134105	131783	131243
15°	138361	132538	132538
20°	139977	129500	132498
25°	137185	123019	128844
30°	129760	114321	121025
35°	117430	104547	109700
40°	102156	94584	98256
45°	87296	84311	87296
50°	76603	73865	76884
55°	66836	62239	64686
60°	59085	51706	51005
65°	52418	40783	34958
70°	46290	28787	21093
75°	39396	16309	10188
80°	29391	5083	3031
85°	16102	2013	2013



TEST NUMBER: P582800
 CATALOG NUMBER: HCC6S50D010SL-HM64560930-61RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	4.8
10°-20°	664.4	13.9
20°-30°	970.4	20.3
30°-40°	1017.7	21.3
40°-50°	857.4	17.9
50°-60°	600.7	12.6
60°-70°	322.0	6.7
70°-80°	108.0	2.3
80°-90°	11.8	0.2
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°	1861.9	39.0
0°-40°	2879.6	60.2
0°-60°	4337.7	90.8
0°-90°	4779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4779.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2367	2367	2367	2367	2367	
5°	2371	2380	2384	2384	2384	228
15°	2438	2406	2335	2323	2335	688
25°	2268	2172	2034	2069	2130	1039
35°	1755	1665	1562	1607	1639	1089
45°	1126	1107	1088	1116	1126	877
55°	699	677	651	664	677	629
65°	404	369	314	260	270	404
75°	186	144	77	48	48	197
85°	26	13	3	3	3	35
90°	0	0	0	0	0	

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



TEST NUMBER: P582800

CATALOG NUMBER: HCC6S50D010SL-HM64560930-61RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4	2367.4
2.5°	2351.4	2351.4	2357.7	2364.2	2370.6	2370.6	2373.8	2377.0	2373.8
5°	2370.6	2370.6	2380.3	2383.5	2383.5	2380.3	2383.5	2383.5	2383.5
7.5°	2399.4	2393.1	2396.2	2389.9	2383.5	2380.3	2377.0	2377.0	2377.0
10°	2409.1	2402.7	2396.2	2383.5	2367.4	2357.7	2354.6	2357.7	2357.7
12.5°	2422.0	2415.5	2399.4	2373.8	2354.6	2338.5	2335.3	2341.8	2341.8
15°	2437.9	2431.6	2405.9	2364.2	2335.3	2319.2	2322.6	2328.9	2335.3
17.5°	2437.9	2425.2	2383.5	2328.9	2293.6	2277.6	2290.4	2306.5	2316.1
20°	2399.4	2386.7	2328.9	2261.6	2219.8	2210.2	2232.7	2261.6	2271.2
22.5°	2348.2	2322.6	2255.1	2174.9	2130.1	2130.1	2162.1	2197.4	2210.2
25°	2268.0	2248.7	2171.7	2078.7	2033.8	2030.6	2069.1	2117.2	2130.1
27.5°	2178.1	2152.5	2069.1	1972.9	1924.7	1928.0	1969.7	2017.7	2030.6
30°	2049.9	2017.7	1943.9	1851.0	1806.0	1818.9	1860.5	1895.9	1911.9
32.5°	1905.4	1876.6	1809.3	1722.6	1684.1	1697.0	1732.3	1764.3	1777.2
35°	1754.7	1722.6	1664.9	1587.9	1562.2	1575.1	1607.1	1632.9	1639.2
37.5°	1584.7	1562.2	1520.5	1459.6	1440.3	1456.4	1482.0	1498.1	1504.5
40°	1427.5	1408.2	1373.0	1328.0	1321.7	1334.5	1360.2	1369.7	1373.0
42.5°	1273.5	1257.5	1235.1	1203.0	1203.0	1215.8	1238.3	1244.7	1247.8
45°	1126.0	1116.4	1106.7	1081.1	1087.5	1103.5	1116.4	1126.0	1126.0
47.5°	997.7	1000.9	988.0	968.8	975.2	991.2	1000.9	1010.5	1010.5
50°	898.2	888.6	875.7	856.5	866.1	879.0	891.8	898.2	901.5
52.5°	782.8	779.5	769.9	747.5	753.8	760.2	773.1	782.8	786.0
55°	699.3	689.7	676.8	651.2	651.2	657.6	664.1	670.5	676.8
57.5°	619.1	609.5	590.3	561.3	558.1	558.1	555.0	561.3	571.0
60°	538.9	535.7	506.9	481.1	471.6	461.9	449.1	452.3	465.2
62.5°	468.4	461.9	436.3	404.1	384.9	368.9	352.9	349.7	362.4
65°	404.1	397.8	368.9	336.8	314.4	285.4	259.8	259.8	269.5
67.5°	346.5	333.6	308.0	272.7	243.8	208.6	182.8	189.3	192.5
70°	288.8	279.1	250.3	214.9	179.6	144.3	128.3	131.6	131.6
72.5°	237.4	224.5	195.7	160.4	125.1	93.1	86.6	83.4	83.4
75°	186.0	173.3	144.3	109.1	77.0	54.6	48.1	48.1	48.1
77.5°	134.8	125.1	99.4	67.3	41.7	25.6	22.4	19.3	19.3
80°	93.1	83.4	60.9	35.3	16.1	9.6	9.6	9.6	9.6
82.5°	54.6	44.9	28.8	16.1	6.4	3.2	3.2	3.2	3.2
85°	25.6	19.3	12.9	6.4	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	0.0	0.0	0.0	0.0	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)