

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: P582801

Luminaire Tested: **HCC6S50D010MW-HM64560930-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S50D010MW-HM64560930-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

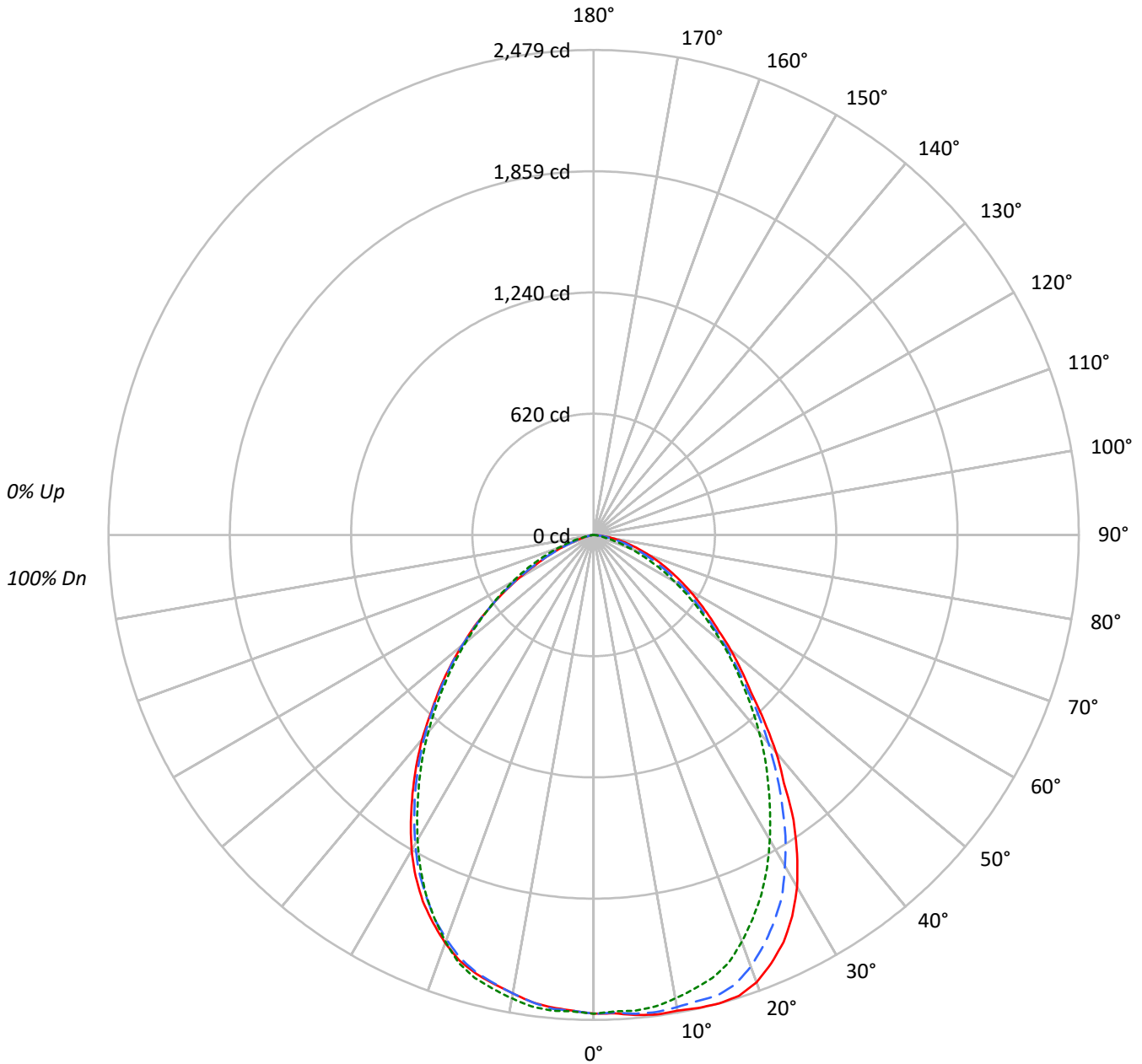
Lumens per Lamp: N/A
Luminaire Lumens: 4795.5 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P582801
CATALOG NUMBER: HCC6S50D010MW-HM64560930-61RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P582801

CATALOG NUMBER: HCC6S50D010MW-HM64560930-61RWWH

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	93	92	90	88								
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77								
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67								
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59								
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	61	55	50	60	54	49	58	53	49	47								
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	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°	134167	134167	134167
5°	135560	134322	133441
10°	137484	133915	132485
15°	140716	133077	131800
20°	142025	129115	129488
25°	138915	122620	124949
30°	131565	113910	117765
35°	119136	104106	107974
40°	103752	94105	97554
45°	88032	83303	86288
50°	77959	72765	74684
55°	68671	62230	61924
60°	61541	52408	48187
65°	54922	42015	34530
70°	48325	30326	21606
75°	40773	18343	12243
80°	31380	8082	5083
85°	18115	2013	2013



TEST NUMBER: P582801
 CATALOG NUMBER: HCC6S50D010MW-HM64560930-61RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	4.8
10°-20°	667.7	13.9
20°-30°	965.2	20.1
30°-40°	1015.5	21.2
40°-50°	853.7	17.8
50°-60°	599.2	12.5
60°-70°	329.6	6.9
70°-80°	117.0	2.4
80°-90°	15.3	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°	1865.1	38.9
0°-40°	2880.7	60.1
0°-60°	4333.6	90.4
0°-90°	4795.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4795.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2447	2447	2447	2447	2447	
5°	2463	2457	2441	2431	2425	235
15°	2479	2438	2345	2316	2322	700
25°	2297	2181	2027	2030	2066	1051
35°	1780	1678	1556	1588	1613	1103
45°	1136	1103	1074	1100	1113	891
55°	718	680	651	651	648	647
65°	423	378	324	266	266	421
75°	192	154	87	58	58	207
85°	29	16	3	3	3	40
90°	0	0	0	0	0	

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



TEST NUMBER: P582801

CATALOG NUMBER: HCC6S50D010MW-HM64560930-61RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2447.4	2447.4	2447.4	2447.4	2447.4	2447.4	2447.4	2447.4	2447.4
2.5°	2447.4	2447.4	2444.2	2444.2	2437.7	2437.7	2434.5	2434.5	2434.5
5°	2463.4	2463.4	2457.0	2447.4	2440.9	2431.3	2431.3	2428.1	2424.9
7.5°	2473.0	2469.8	2460.1	2447.4	2431.3	2415.3	2408.9	2412.1	2408.9
10°	2469.8	2463.4	2450.6	2424.9	2405.7	2383.3	2380.0	2376.8	2380.0
12.5°	2476.2	2466.6	2440.9	2408.9	2376.8	2351.1	2347.9	2347.9	2351.1
15°	2479.4	2469.8	2437.7	2389.6	2344.8	2319.0	2315.8	2319.0	2322.3
17.5°	2469.8	2457.0	2408.9	2344.8	2293.4	2267.8	2267.8	2274.1	2280.5
20°	2434.5	2415.3	2347.9	2270.9	2213.2	2193.9	2200.3	2213.2	2219.6
22.5°	2370.4	2347.9	2270.9	2184.4	2123.4	2107.4	2123.4	2139.4	2145.9
25°	2296.6	2270.9	2181.2	2091.3	2027.2	2007.9	2030.4	2056.0	2065.7
27.5°	2197.1	2168.3	2084.9	1982.3	1918.1	1908.5	1934.1	1963.1	1969.4
30°	2078.4	2046.4	1953.4	1857.1	1799.5	1796.2	1825.1	1850.7	1860.4
32.5°	1934.1	1905.3	1825.1	1728.9	1677.5	1677.5	1706.4	1728.9	1738.6
35°	1780.2	1748.1	1677.5	1597.3	1555.6	1558.9	1587.7	1603.8	1613.4
37.5°	1597.3	1587.7	1533.2	1465.9	1437.0	1443.4	1465.9	1478.7	1488.3
40°	1449.8	1424.2	1388.9	1334.3	1315.0	1321.5	1344.0	1356.9	1363.2
42.5°	1289.4	1273.4	1244.5	1206.0	1193.2	1202.8	1222.1	1231.7	1228.5
45°	1135.5	1132.2	1103.4	1081.0	1074.5	1087.3	1100.2	1109.8	1113.0
47.5°	1023.2	1010.3	984.7	968.7	962.3	975.2	987.9	994.3	994.3
50°	914.1	901.3	875.7	859.6	853.2	866.0	875.7	882.1	875.7
52.5°	805.1	792.2	769.8	750.5	747.3	753.8	757.0	760.2	766.6
55°	718.5	705.6	680.0	657.6	651.1	654.4	651.1	651.1	647.9
57.5°	635.1	622.3	596.6	570.9	561.3	558.1	548.5	545.3	542.1
60°	561.3	545.3	519.6	490.7	478.0	465.1	449.0	439.5	439.5
62.5°	490.7	474.8	445.8	420.2	400.9	378.5	352.9	340.0	340.0
65°	423.4	410.5	378.5	349.6	323.9	295.1	266.2	259.8	266.2
67.5°	359.3	346.4	314.4	285.4	253.4	218.1	192.5	192.5	198.9
70°	301.5	288.6	259.8	224.5	189.2	154.0	134.8	134.8	134.8
72.5°	246.9	234.2	202.1	169.9	134.8	99.4	89.8	93.1	89.8
75°	192.5	182.8	154.0	118.7	86.6	60.9	57.8	54.6	57.8
77.5°	144.3	134.8	109.0	77.0	48.1	35.3	32.1	32.1	32.1
80°	99.4	89.8	70.6	44.9	25.6	16.1	16.1	16.1	16.1
82.5°	60.9	51.4	38.5	22.4	9.6	9.6	9.6	9.6	9.6
85°	28.8	22.4	16.1	6.4	3.2	3.2	3.2	3.2	3.2
87.5°	6.4	6.4	3.2	3.2	0.0	3.2	3.2	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)