

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: P582818

Luminaire Tested: **HCC6W50D010SL-HM64560935-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582818  
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: HCC6W50D010SL-HM64560935-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

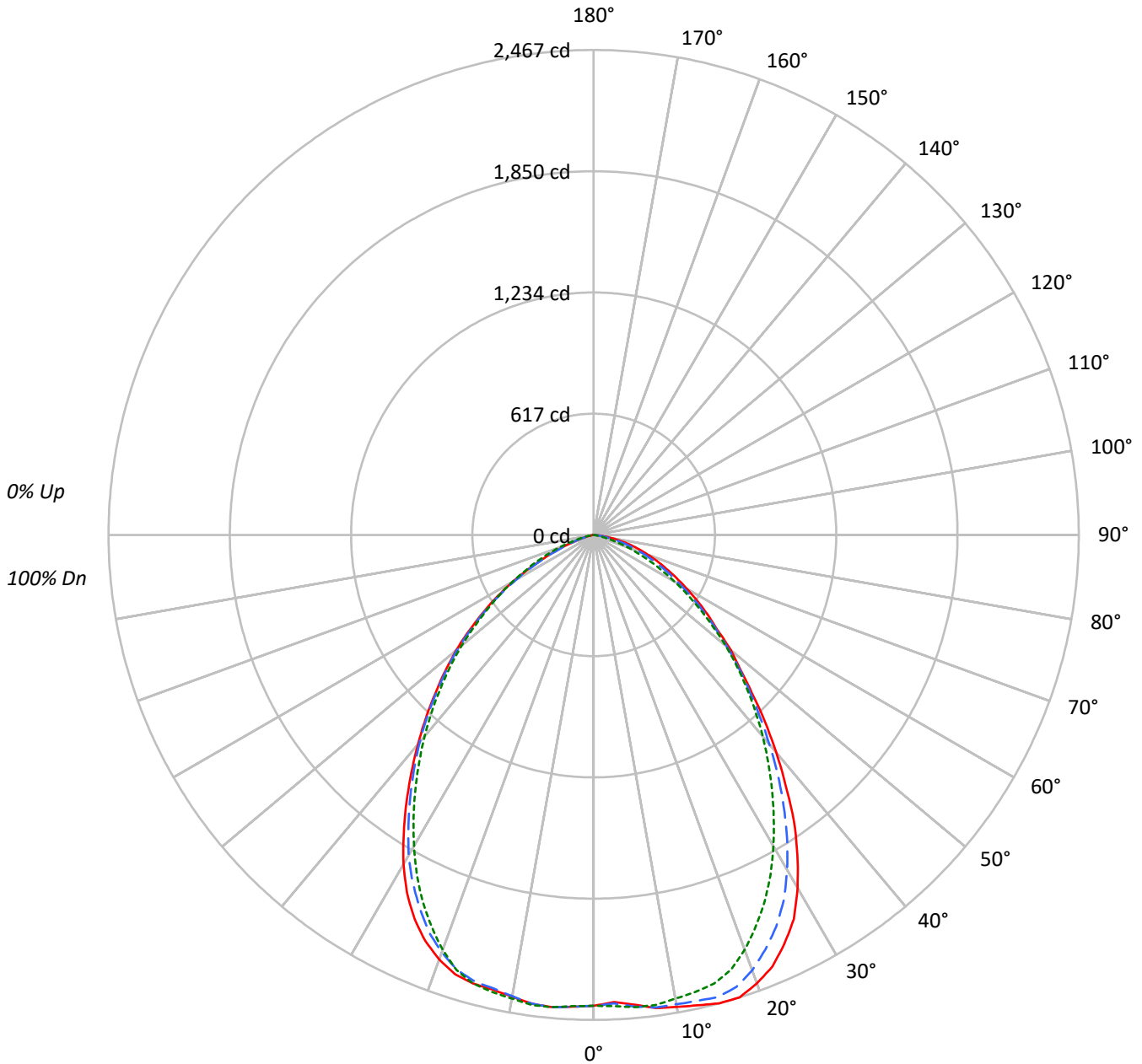
Lumens per Lamp: N/A  
Luminaire Lumens: 4835.7 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<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: P582818  
CATALOG NUMBER: HCC6W50D010SL-HM64560935-61RWWC

### Luminous Intensity Polar Plot





TEST NUMBER: P582818

CATALOG NUMBER: HCC6W50D010SL-HM64560935-61RWWC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	131305	131305	131305
5°	131988	132704	132704
10°	135686	133331	132791
15°	139989	134098	134098
20°	141628	131022	134056
25°	138794	124465	130356
30°	131286	115663	122449
35°	118809	105785	110992
40°	103351	95686	99408
45°	88319	85296	88319
50°	77507	74735	77780
55°	67620	62975	65460
60°	59787	52309	51597
65°	53054	41250	35360
70°	46819	29140	21334
75°	39884	16500	10315
80°	29707	5114	3062
85°	16354	2013	2013



TEST NUMBER: P582818

CATALOG NUMBER: HCC6W50D010SL-HM64560935-61RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.8	4.8
10°-20°	672.2	13.9
20°-30°	981.8	20.3
30°-40°	1029.7	21.3
40°-50°	867.4	17.9
50°-60°	607.8	12.6
60°-70°	325.8	6.7
70°-80°	109.3	2.3
80°-90°	11.9	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°	1883.8	39.0
0°-40°	2913.4	60.2
0°-60°	4388.7	90.8
0°-90°	4835.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4835.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2395	2395	2395	2395	2395	
5°	2398	2408	2412	2412	2412	231
15°	2467	2434	2363	2350	2363	696
25°	2295	2197	2058	2093	2155	1051
35°	1775	1684	1581	1626	1658	1102
45°	1139	1120	1100	1130	1139	887
55°	708	685	659	672	685	637
65°	409	373	318	263	273	408
75°	188	146	78	49	49	200
85°	26	13	3	3	3	36
90°	0	0	0	0	0	

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



TEST NUMBER: P582818

CATALOG NUMBER: HCC6W50D010SL-HM64560935-61RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2	2395.2
2.5°	2379.0	2379.0	2385.5	2392.0	2398.5	2398.5	2401.7	2405.0	2401.7
5°	2398.5	2398.5	2408.2	2411.5	2411.5	2408.2	2411.5	2411.5	2411.5
7.5°	2427.7	2421.2	2424.5	2418.0	2411.5	2408.2	2405.0	2405.0	2405.0
10°	2437.5	2431.0	2424.5	2411.5	2395.2	2385.5	2382.2	2385.5	2385.5
12.5°	2450.5	2444.0	2427.7	2401.7	2382.2	2366.0	2362.8	2369.3	2369.3
15°	2466.6	2460.1	2434.2	2392.0	2362.8	2346.5	2349.8	2356.3	2362.8
17.5°	2466.6	2453.6	2411.5	2356.3	2320.5	2304.4	2317.4	2333.5	2343.3
20°	2427.7	2414.7	2356.3	2288.2	2245.9	2236.2	2258.9	2288.2	2297.9
22.5°	2375.8	2349.8	2281.7	2200.6	2155.1	2155.1	2187.6	2223.2	2236.2
25°	2294.6	2275.2	2197.3	2103.1	2057.7	2054.5	2093.4	2142.1	2155.1
27.5°	2203.7	2177.8	2093.4	1996.0	1947.4	1950.5	1992.8	2041.5	2054.5
30°	2074.0	2041.5	1966.8	1872.7	1827.2	1840.2	1882.4	1918.2	1934.4
32.5°	1927.9	1898.7	1830.6	1742.9	1703.9	1716.9	1752.6	1785.1	1798.1
35°	1775.3	1742.9	1684.5	1606.5	1580.7	1593.5	1626.0	1652.0	1658.5
37.5°	1603.3	1580.7	1538.4	1476.7	1457.2	1473.5	1499.4	1515.7	1522.2
40°	1444.2	1424.8	1389.1	1343.6	1337.1	1350.1	1376.1	1385.9	1389.1
42.5°	1288.5	1272.3	1249.5	1217.1	1217.1	1230.1	1252.8	1259.3	1262.5
45°	1139.2	1129.5	1119.7	1093.7	1100.2	1116.5	1129.5	1139.2	1139.2
47.5°	1009.4	1012.6	999.6	980.1	986.6	1002.9	1012.6	1022.4	1022.4
50°	908.8	899.0	886.0	866.6	876.3	889.3	902.3	908.8	912.0
52.5°	792.0	788.7	779.0	756.2	762.7	769.2	782.2	792.0	795.2
55°	707.5	697.9	684.9	658.9	658.9	665.4	671.9	678.4	684.9
57.5°	626.4	616.6	597.2	567.9	564.8	564.8	561.4	567.9	577.7
60°	545.3	542.0	512.8	486.8	477.1	467.3	454.3	457.6	470.6
62.5°	473.8	467.3	441.3	409.0	389.5	373.2	357.0	353.7	366.7
65°	409.0	402.5	373.2	340.8	318.0	288.9	262.9	262.9	272.6
67.5°	350.5	337.5	311.5	275.9	246.7	210.9	184.9	191.4	194.7
70°	292.1	282.4	253.2	217.4	181.8	146.1	129.8	133.1	133.1
72.5°	240.2	227.2	197.9	162.3	126.6	94.1	87.6	84.4	84.4
75°	188.3	175.3	146.1	110.3	77.9	55.2	48.7	48.7	48.7
77.5°	136.3	126.6	100.6	68.1	42.2	26.0	22.7	19.5	19.5
80°	94.1	84.4	61.6	35.7	16.2	9.7	9.7	9.7	9.7
82.5°	55.2	45.5	29.2	16.2	6.5	3.2	3.2	3.2	3.2
85°	26.0	19.5	13.0	6.5	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)