

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: P582827

Luminaire Tested: **HCC6W50D010BZ-HM64560935-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582827  
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: HCC6W50D010BZ-HM64560935-61WWWB  
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**

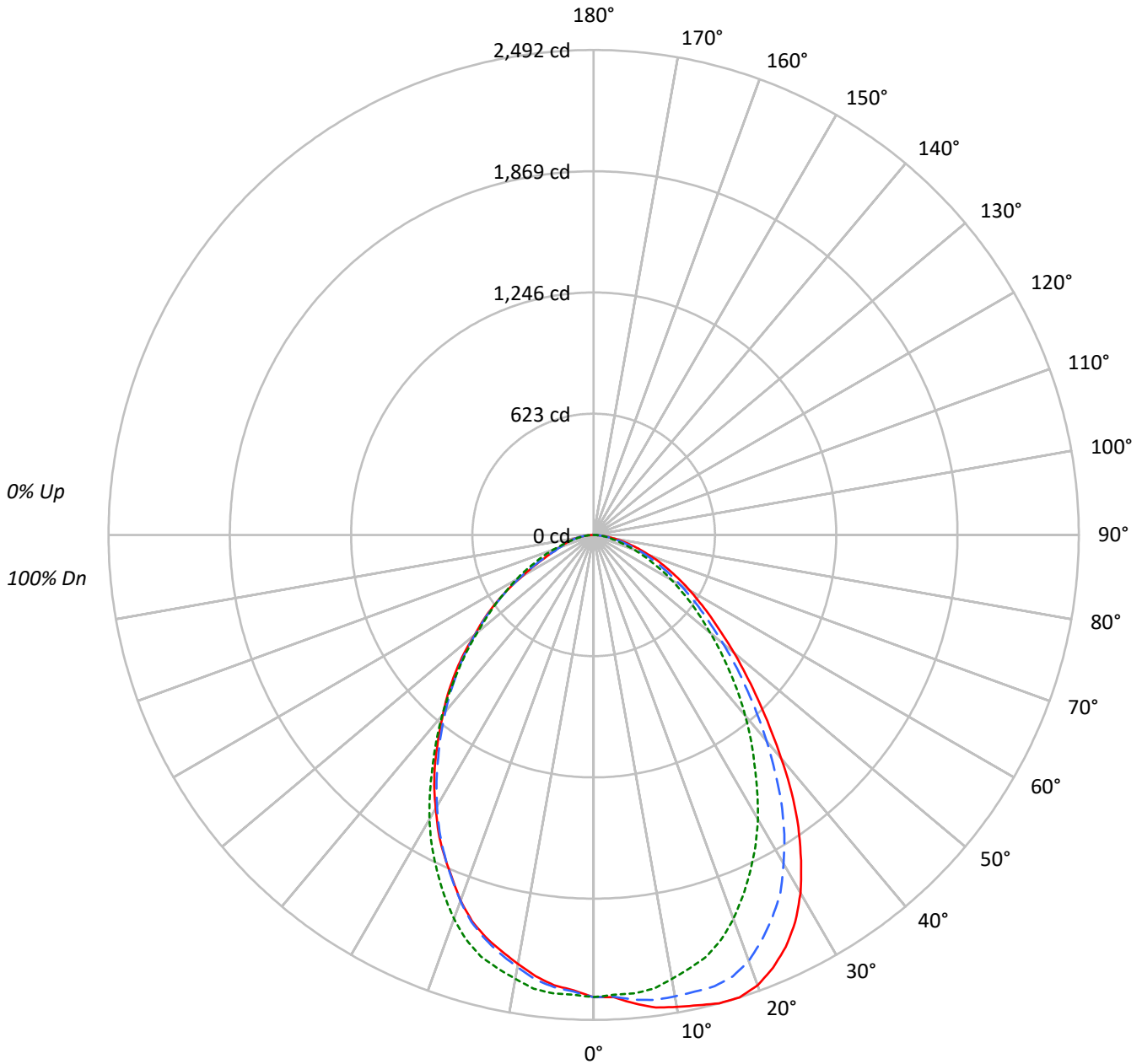
Lumens per Lamp: N/A  
Luminaire Lumens: 4650.7 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): 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: P582827  
CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582827

CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WWWB

**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	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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	130187	130187	130187
5°	133001	130150	127828
10°	137072	128944	124614
15°	141408	127231	121522
20°	143652	122452	116589
25°	141292	115192	109887
30°	134514	106795	102680
35°	122670	96403	94884
40°	107258	86598	86133
45°	92312	76202	77969
50°	80236	66403	67785
55°	70076	58292	58913
60°	62243	50511	46235
65°	55544	42495	35360
70°	48870	34846	29636
75°	41917	27493	28171
80°	33811	23551	27655
85°	22455	20442	24531



TEST NUMBER: P582827  
 CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	4.8
10°-20°	640.1	13.8
20°-30°	913.8	19.6
30°-40°	957.1	20.6
40°-50°	805.8	17.3
50°-60°	573.6	12.3
60°-70°	335.7	7.2
70°-80°	158.9	3.4
80°-90°	40.9	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°	1778.7	38.2
0°-40°	2735.8	58.8
0°-60°	4115.3	88.5
0°-90°	4650.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4650.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2375	2375	2375	2375	2375	
5°	2417	2398	2365	2333	2323	232
15°	2492	2401	2242	2151	2141	703
25°	2336	2170	1904	1814	1817	1069
35°	1833	1681	1440	1392	1418	1138
45°	1191	1103	983	986	1006	924
55°	733	672	610	610	616	661
65°	428	380	328	276	273	427
75°	198	166	130	126	133	212
85°	36	29	32	39	39	46
90°	0	0	0	0	0	

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



TEST NUMBER: P582827

CATALOG NUMBER: HCC6W50D010BZ-HM64560935-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8	2374.8
2.5°	2378.1	2378.1	2374.8	2371.6	2365.1	2355.3	2348.8	2342.4	2342.4
5°	2416.9	2410.4	2397.5	2381.3	2365.1	2345.6	2332.6	2322.9	2322.9
7.5°	2449.4	2436.4	2410.4	2381.3	2352.1	2326.1	2303.4	2290.4	2287.2
10°	2462.4	2446.2	2407.2	2361.8	2316.4	2280.7	2254.8	2238.6	2238.6
12.5°	2475.4	2455.9	2403.9	2339.1	2280.7	2232.1	2206.1	2193.1	2189.8
15°	2491.6	2465.6	2400.7	2319.6	2241.8	2186.6	2151.0	2141.2	2141.2
17.5°	2491.6	2459.1	2378.1	2277.4	2180.1	2118.5	2086.0	2076.3	2079.5
20°	2462.4	2426.7	2329.4	2206.1	2099.0	2034.2	2001.7	1995.2	1998.5
22.5°	2407.2	2365.1	2254.8	2121.8	2005.0	1936.8	1907.7	1907.7	1904.4
25°	2335.9	2290.4	2170.4	2030.8	1904.4	1836.2	1813.5	1816.7	1816.7
27.5°	2241.8	2196.3	2076.3	1927.0	1800.6	1732.4	1716.2	1722.7	1725.9
30°	2125.0	2076.3	1949.8	1803.7	1687.1	1618.9	1609.1	1618.9	1622.1
32.5°	1982.2	1946.5	1823.2	1674.1	1563.8	1505.3	1502.1	1511.8	1524.8
35°	1833.0	1794.1	1680.6	1544.3	1440.5	1391.8	1391.8	1408.0	1417.8
37.5°	1670.8	1631.9	1528.1	1414.5	1326.9	1281.5	1288.0	1304.2	1307.5
40°	1498.8	1469.6	1382.0	1284.7	1210.1	1174.4	1184.2	1200.4	1203.6
42.5°	1336.7	1310.7	1239.3	1151.7	1096.6	1070.6	1083.6	1103.1	1109.5
45°	1190.7	1161.4	1103.1	1028.4	982.9	970.1	986.3	999.2	1005.7
47.5°	1057.6	1031.7	982.9	914.9	882.4	875.9	892.1	898.6	905.1
50°	940.8	914.9	866.3	804.6	778.6	778.6	791.6	798.1	794.8
52.5°	827.3	804.6	759.1	707.3	691.0	691.0	700.8	704.0	710.5
55°	733.2	710.5	671.5	622.9	609.9	603.4	609.9	609.9	616.4
57.5°	645.7	626.2	590.5	545.0	528.9	522.4	519.0	515.9	522.4
60°	567.7	551.5	512.6	473.7	460.7	444.4	431.5	418.5	421.7
62.5°	496.4	480.2	444.4	405.6	392.6	369.9	353.6	337.4	343.9
65°	428.2	412.1	379.6	347.1	327.6	301.7	275.8	266.1	272.6
67.5°	366.6	353.6	321.2	288.8	272.6	243.3	217.4	217.4	220.6
70°	304.9	291.9	266.1	236.8	217.4	191.4	181.6	184.9	184.9
72.5°	249.8	240.1	214.1	188.1	168.6	152.5	152.5	155.8	159.0
75°	197.9	191.4	165.5	142.8	129.8	120.0	126.5	129.8	133.0
77.5°	152.5	142.8	123.3	107.1	97.3	100.6	107.1	110.3	113.5
80°	107.1	103.8	87.6	77.8	74.6	77.8	84.3	87.6	87.6
82.5°	68.1	64.8	55.2	52.0	52.0	55.2	61.6	61.6	61.6
85°	35.7	32.5	29.2	29.2	32.5	35.7	39.0	39.0	39.0
87.5°	13.0	9.7	13.0	13.0	16.2	16.2	16.2	16.2	16.2
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)