

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: P582777

Luminaire Tested: **HCC6S50D010BZ-HM64560927-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010BZ-HM64560927-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

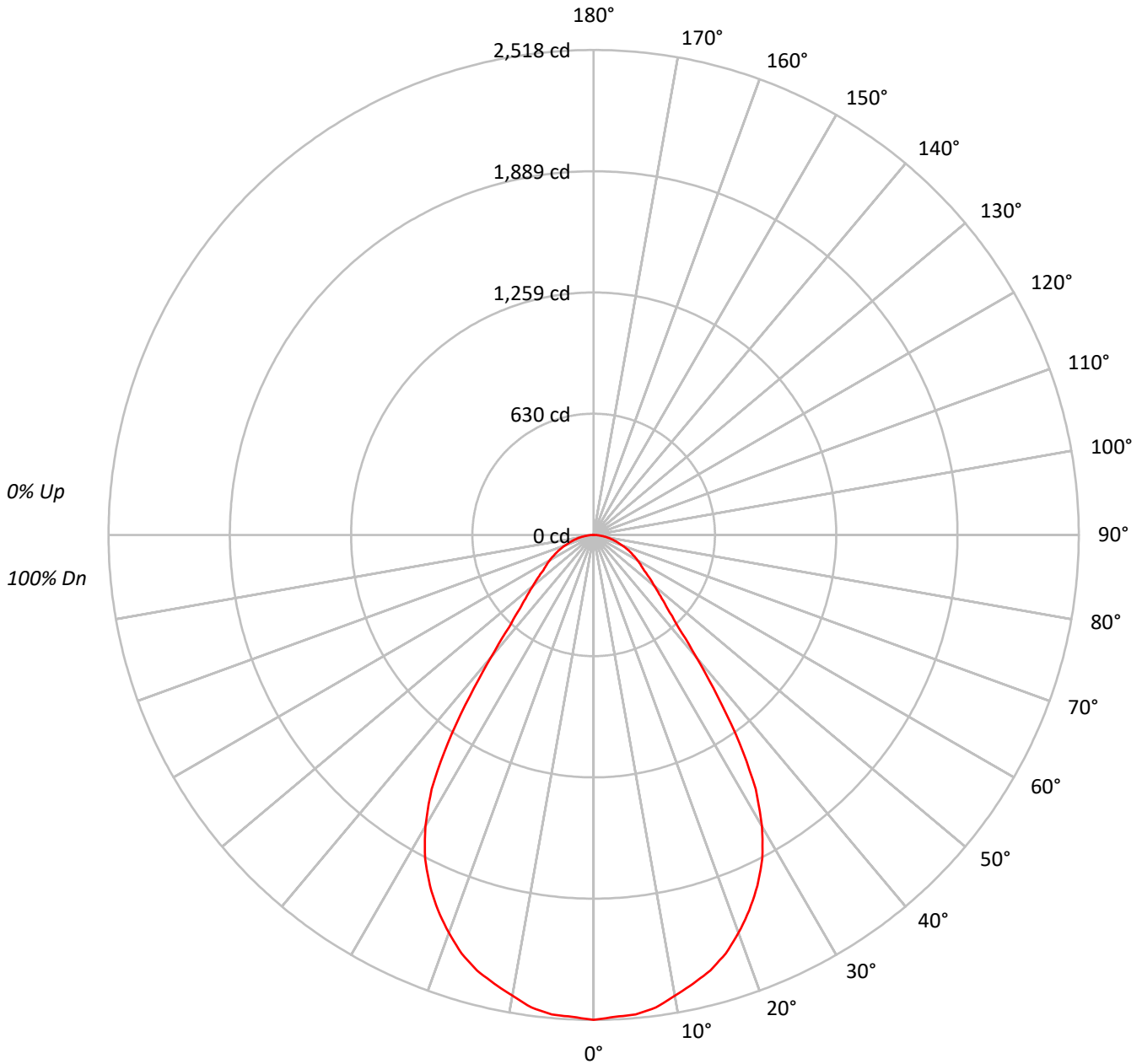
Lumens per Lamp: N/A  
Luminaire Lumens: 3708.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582777  
CATALOG NUMBER: HCC6S50D010BZ-HM64560927-61MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582777  
 CATALOG NUMBER: HCC6S50D010BZ-HM64560927-61MDW

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

RF	20									20									20									20									
RC	80									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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																			

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

	0°
0°	138032
5°	137524
10°	135229
15°	132844
20°	128251
25°	121610
30°	110618
35°	88385
40°	58975
45°	42035
50°	35035
55°	30537
60°	28835
65°	27162
70°	24956
75°	23320
80°	21183
85°	18555



TEST NUMBER: P582777  
 CATALOG NUMBER: HCC6S50D010BZ-HM64560927-61MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.4	6.4
10°-20°	657.2	17.7
20°-30°	918.4	24.8
30°-40°	809.0	21.8
40°-50°	437.1	11.8
50°-60°	292.2	7.9
60°-70°	207.2	5.6
70°-80°	116.5	3.1
80°-90°	34.0	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°	1812.0	48.9
0°-40°	2621.0	70.7
0°-60°	3350.4	90.4
0°-90°	3708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2518	
5°	2499	236
15°	2341	657
25°	2010	918
35°	1321	809
45°	542	437
55°	320	292
65°	209	207
75°	110	116
85°	30	34
90°	0	



TEST NUMBER: P582777  
CATALOG NUMBER: HCC6S50D010BZ-HM64560927-61MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2517.9
2.5°	2504.5
5°	2499.1
7.5°	2475.0
10°	2429.3
12.5°	2386.3
15°	2340.7
17.5°	2279.0
20°	2198.4
22.5°	2109.9
25°	2010.5
27.5°	1895.2
30°	1747.5
32.5°	1564.9
35°	1320.7
37.5°	1055.0
40°	824.1
42.5°	649.7
45°	542.2
47.5°	469.8
50°	410.8
52.5°	362.3
55°	319.5
57.5°	289.9
60°	263.0
62.5°	236.2
65°	209.4
67.5°	182.6
70°	155.7
72.5°	131.6
75°	110.1
77.5°	88.6
80°	67.1
82.5°	48.3
85°	29.5
87.5°	13.5
90°	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°

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)