

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: P593349

Luminaire Tested: **HCC6S50D010SL-HM64560850-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593349  
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: HCC6S50D010SL-HM64560850-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

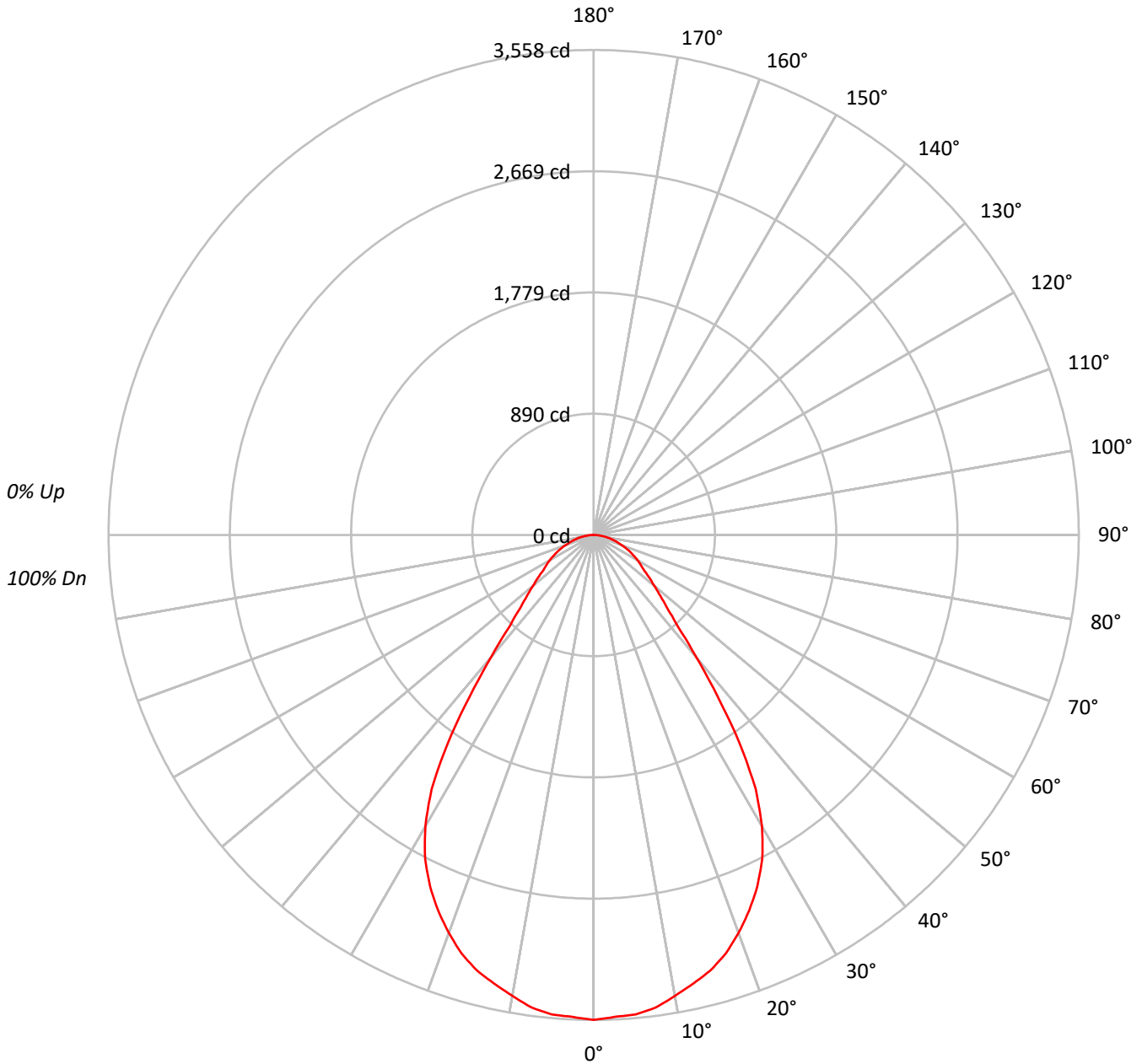
Lumens per Lamp: N/A  
Luminaire Lumens: 5240.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P593349  
CATALOG NUMBER: HCC6S50D010SL-HM64560850-61MDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593349

CATALOG NUMBER: HCC6S50D010SL-HM64560850-61MDW

**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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	195061
5°	194353
10°	191101
15°	187737
20°	181252
25°	171869
30°	156328
35°	124899
40°	83342
45°	59402
50°	49491
55°	43143
60°	40764
65°	38370
70°	35262
75°	32936
80°	29928
85°	26229



TEST NUMBER: P593349  
 CATALOG NUMBER: HCC6S50D010SL-HM64560850-61MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.0	6.4
10°-20°	928.8	17.7
20°-30°	1297.9	24.8
30°-40°	1143.3	21.8
40°-50°	617.6	11.8
50°-60°	413.0	7.9
60°-70°	292.7	5.6
70°-80°	164.6	3.1
80°-90°	48.0	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°	2560.7	48.9
0°-40°	3704.0	70.7
0°-60°	4734.7	90.4
0°-90°	5240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3558	
5°	3532	334
15°	3308	929
25°	2841	1298
35°	1866	1143
45°	766	618
55°	451	413
65°	296	293
75°	156	165
85°	42	48
90°	0	



TEST NUMBER: P593349

CATALOG NUMBER: HCC6S50D010SL-HM64560850-61MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3558.2
2.5°	3539.3
5°	3531.8
7.5°	3497.5
10°	3433.0
12.5°	3372.3
15°	3307.9
17.5°	3220.7
20°	3106.9
22.5°	2981.7
25°	2841.4
27.5°	2678.2
30°	2469.6
32.5°	2211.5
35°	1866.3
37.5°	1490.9
40°	1164.6
42.5°	918.0
45°	766.2
47.5°	663.8
50°	580.3
52.5°	512.1
55°	451.4
57.5°	409.7
60°	371.8
62.5°	333.9
65°	295.8
67.5°	257.9
70°	220.0
72.5°	185.9
75°	155.5
77.5°	125.2
80°	94.8
82.5°	68.3
85°	41.7
87.5°	19.0
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)