

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: P584842

Luminaire Tested: **HCC8W50D010SL-HM82555840-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010SL-HM82555840-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

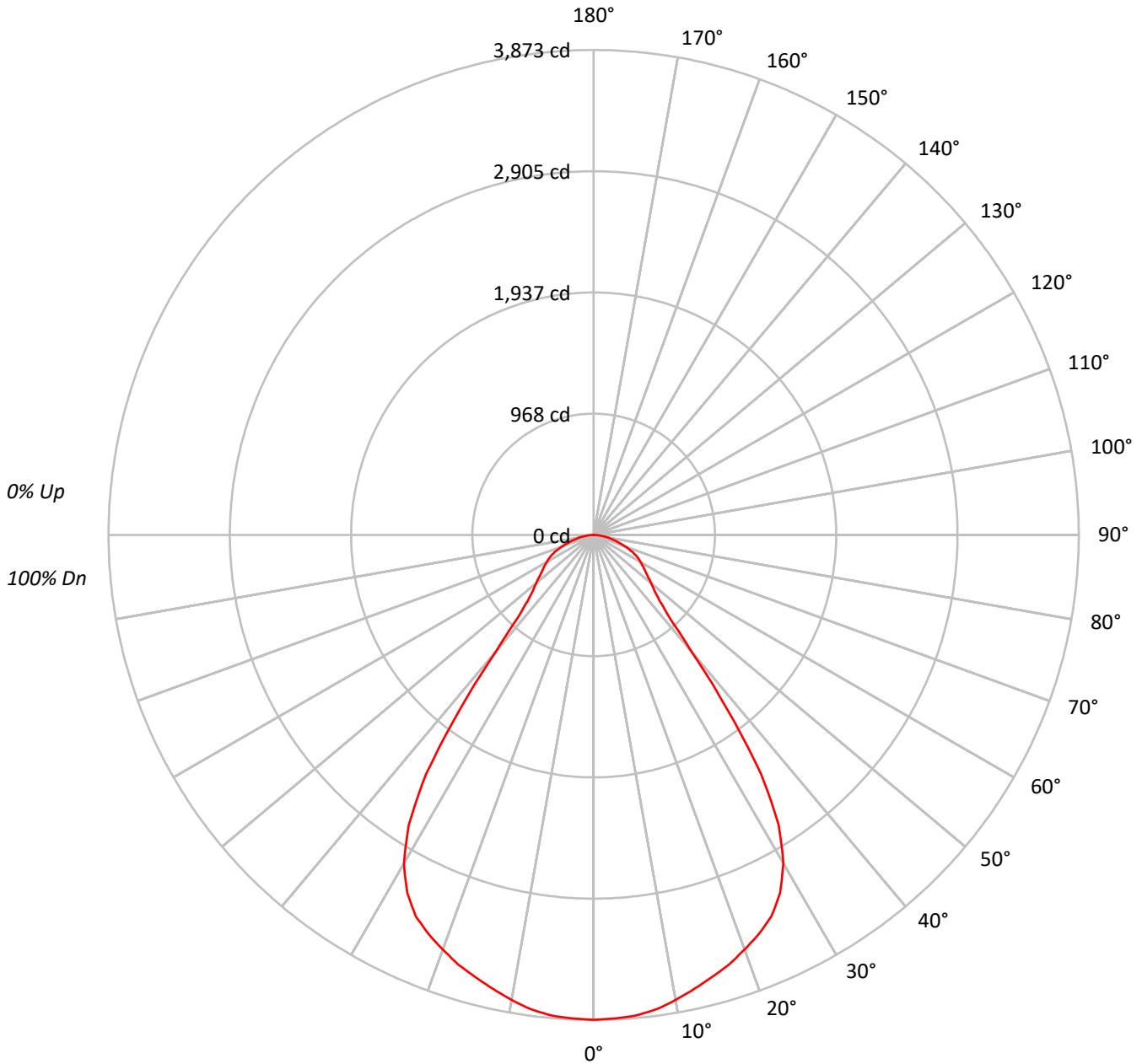
Lumens per Lamp: N/A  
Luminaire Lumens: 5973.3 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584842  
CATALOG NUMBER: HCC8W50D010SL-HM82555840-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584842

CATALOG NUMBER: HCC8W50D010SL-HM82555840-81WDW

**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	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

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

	0°
0°	119420
5°	119275
10°	118093
15°	116679
20°	115599
25°	114304
30°	107849
35°	87824
40°	48522
45°	32389
50°	28726
55°	26967
60°	26618
65°	26384
70°	23838
75°	21315
80°	18646
85°	16487



TEST NUMBER: P584842  
 CATALOG NUMBER: HCC8W50D010SL-HM82555840-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	6.1
10°-20°	1032.0	17.3
20°-30°	1533.4	25.7
30°-40°	1381.0	23.1
40°-50°	612.2	10.2
50°-60°	453.4	7.6
60°-70°	352.6	5.9
70°-80°	191.1	3.2
80°-90°	52.3	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°	2930.6	49.1
0°-40°	4311.6	72.2
0°-60°	5377.2	90.0
0°-90°	5973.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5973.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3873	
5°	3853	365
15°	3655	1032
25°	3360	1533
35°	2333	1381
45°	743	612
55°	502	453
65°	362	353
75°	179	191
85°	47	52
90°	0	



TEST NUMBER: P584842  
CATALOG NUMBER: HCC8W50D010SL-HM82555840-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3872.7
2.5°	3864.8
5°	3853.3
7.5°	3822.2
10°	3771.5
12.5°	3713.2
15°	3654.9
17.5°	3596.5
20°	3522.7
22.5°	3448.9
25°	3359.5
27.5°	3223.3
30°	3028.9
32.5°	2749.0
35°	2333.0
37.5°	1741.9
40°	1205.4
42.5°	890.4
45°	742.7
47.5°	657.1
50°	598.8
52.5°	544.4
55°	501.6
57.5°	466.5
60°	431.6
62.5°	400.5
65°	361.6
67.5°	314.9
70°	264.4
72.5°	221.6
75°	178.9
77.5°	139.9
80°	105.0
82.5°	73.9
85°	46.6
87.5°	19.4
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)