

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: P584876

Luminaire Tested: **HCC8W50D010BZ-HM82555930-81WDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584876  
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: HCC8W50D010BZ-HM82555930-81WDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

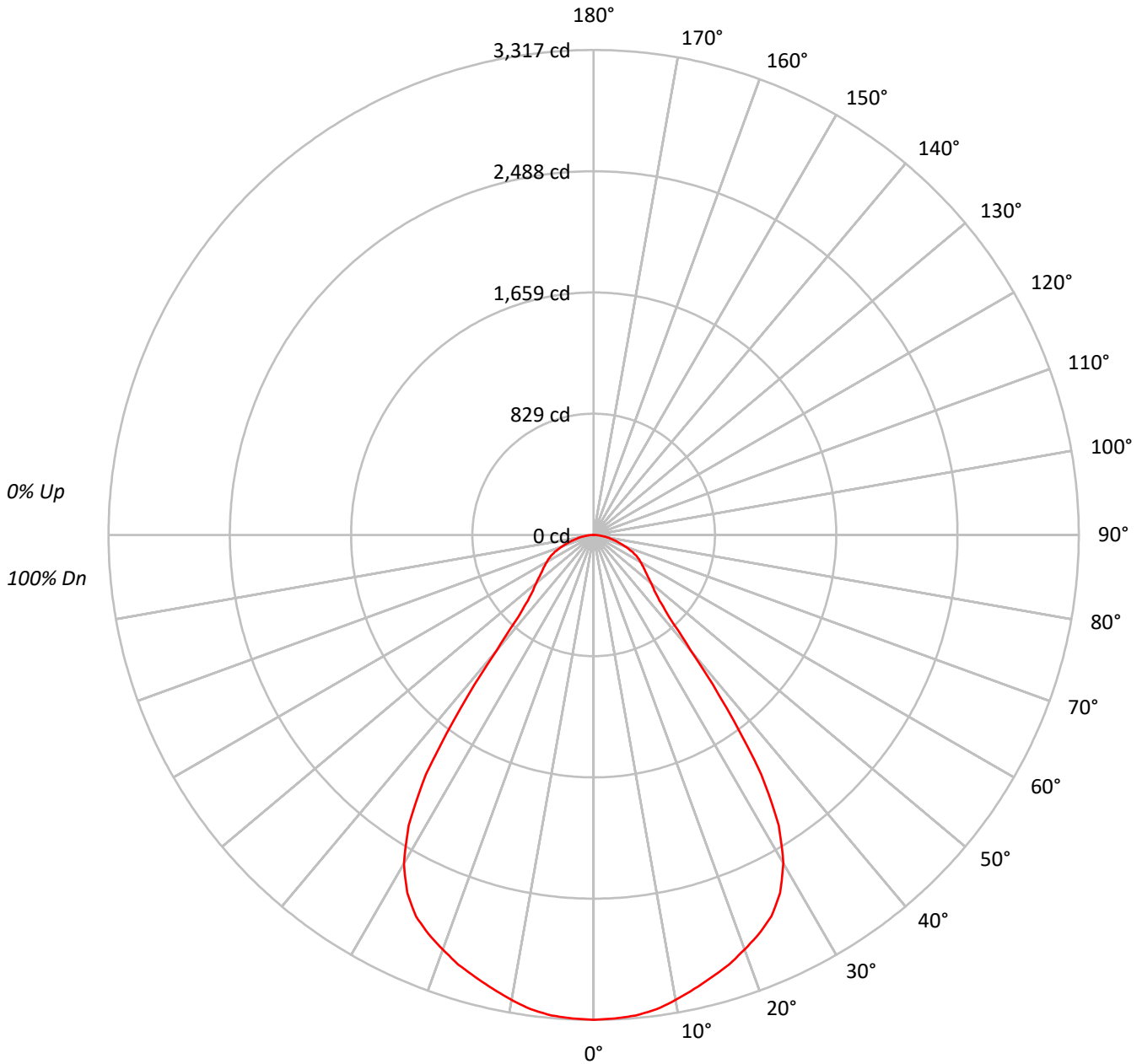
Lumens per Lamp: N/A  
Luminaire Lumens: 5115.6 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584876  
CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584876

CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDW

**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	56	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°	102275
5°	102149
10°	101141
15°	99929
20°	99004
25°	97891
30°	92364
35°	75209
40°	41554
45°	27740
50°	24600
55°	23096
60°	22794
65°	22597
70°	20412
75°	18241
80°	15964
85°	14152



TEST NUMBER: P584876  
 CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.8	6.1
10°-20°	883.8	17.3
20°-30°	1313.3	25.7
30°-40°	1182.7	23.1
40°-50°	524.3	10.2
50°-60°	388.3	7.6
60°-70°	301.9	5.9
70°-80°	163.7	3.2
80°-90°	44.8	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°	2509.9	49.1
0°-40°	3692.5	72.2
0°-60°	4605.2	90.0
0°-90°	5115.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5115.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3317	
5°	3300	313
15°	3130	884
25°	2877	1313
35°	1998	1183
45°	636	524
55°	430	388
65°	310	302
75°	153	164
85°	40	45
90°	0	



TEST NUMBER: P584876  
CATALOG NUMBER: HCC8W50D010BZ-HM82555930-81WDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3316.7
2.5°	3310.0
5°	3300.0
7.5°	3273.3
10°	3230.1
12.5°	3180.1
15°	3130.2
17.5°	3080.2
20°	3017.0
22.5°	2953.7
25°	2877.1
27.5°	2760.6
30°	2594.0
32.5°	2354.2
35°	1997.9
37.5°	1491.9
40°	1032.3
42.5°	762.5
45°	636.1
47.5°	562.8
50°	512.8
52.5°	466.2
55°	429.6
57.5°	399.6
60°	369.6
62.5°	343.0
65°	309.7
67.5°	269.7
70°	226.4
72.5°	189.8
75°	153.1
77.5°	119.8
80°	89.9
82.5°	63.2
85°	40.0
87.5°	16.6
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)