

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: P584887

Luminaire Tested: **HCC8W50D010MW-HM82555935-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010MW-HM82555935-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

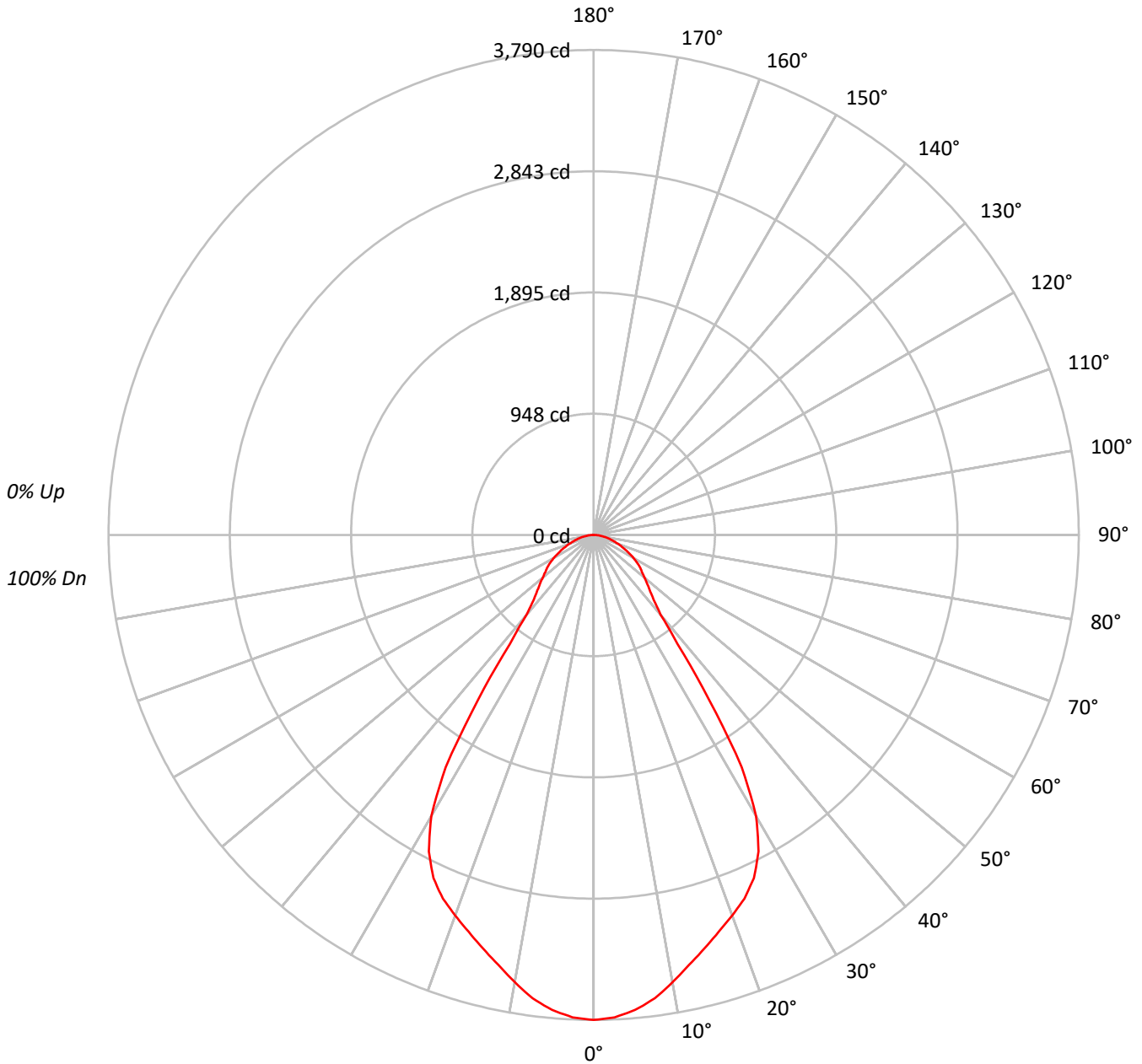
Lumens per Lamp: N/A  
Luminaire Lumens: 4979.2 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584887  
CATALOG NUMBER: HCC8W50D010MW-HM82555935-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584887

CATALOG NUMBER: HCC8W50D010MW-HM82555935-81PSMDW

**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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

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

	0°
0°	116876
5°	115357
10°	111133
15°	106783
20°	103831
25°	100708
30°	90370
35°	59241
40°	32751
45°	27304
50°	24898
55°	23763
60°	22097
65°	20036
70°	18122
75°	16346
80°	14863
85°	14223



TEST NUMBER: P584887

CATALOG NUMBER: HCC8W50D010MW-HM82555935-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.1	7.0
10°-20°	943.7	19.0
20°-30°	1343.0	27.0
30°-40°	994.0	20.0
40°-50°	492.3	9.9
50°-60°	392.9	7.9
60°-70°	272.8	5.5
70°-80°	147.0	3.0
80°-90°	43.3	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°	2636.9	53.0
0°-40°	3630.9	72.9
0°-60°	4516.1	90.7
0°-90°	4979.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4979.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3790	
5°	3727	350
15°	3345	944
25°	2960	1343
35°	1574	994
45°	626	492
55°	442	393
65°	275	273
75°	137	147
85°	40	43
90°	0	



TEST NUMBER: P584887

CATALOG NUMBER: HCC8W50D010MW-HM82555935-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3790.2
2.5°	3773.5
5°	3726.7
7.5°	3652.9
10°	3549.2
12.5°	3442.0
15°	3344.9
17.5°	3251.1
20°	3164.1
22.5°	3077.0
25°	2959.9
27.5°	2789.1
30°	2538.0
32.5°	2152.9
35°	1573.7
37.5°	1074.8
40°	813.6
42.5°	696.5
45°	626.1
47.5°	569.2
50°	519.0
52.5°	475.4
55°	442.0
57.5°	401.8
60°	358.3
62.5°	314.7
65°	274.6
67.5°	234.4
70°	201.0
72.5°	167.4
75°	137.2
77.5°	110.5
80°	83.7
82.5°	60.3
85°	40.2
87.5°	16.7
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)