

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: P584807

Luminaire Tested: **HCC8W50D010MB-HM82555830-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010MB-HM82555830-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

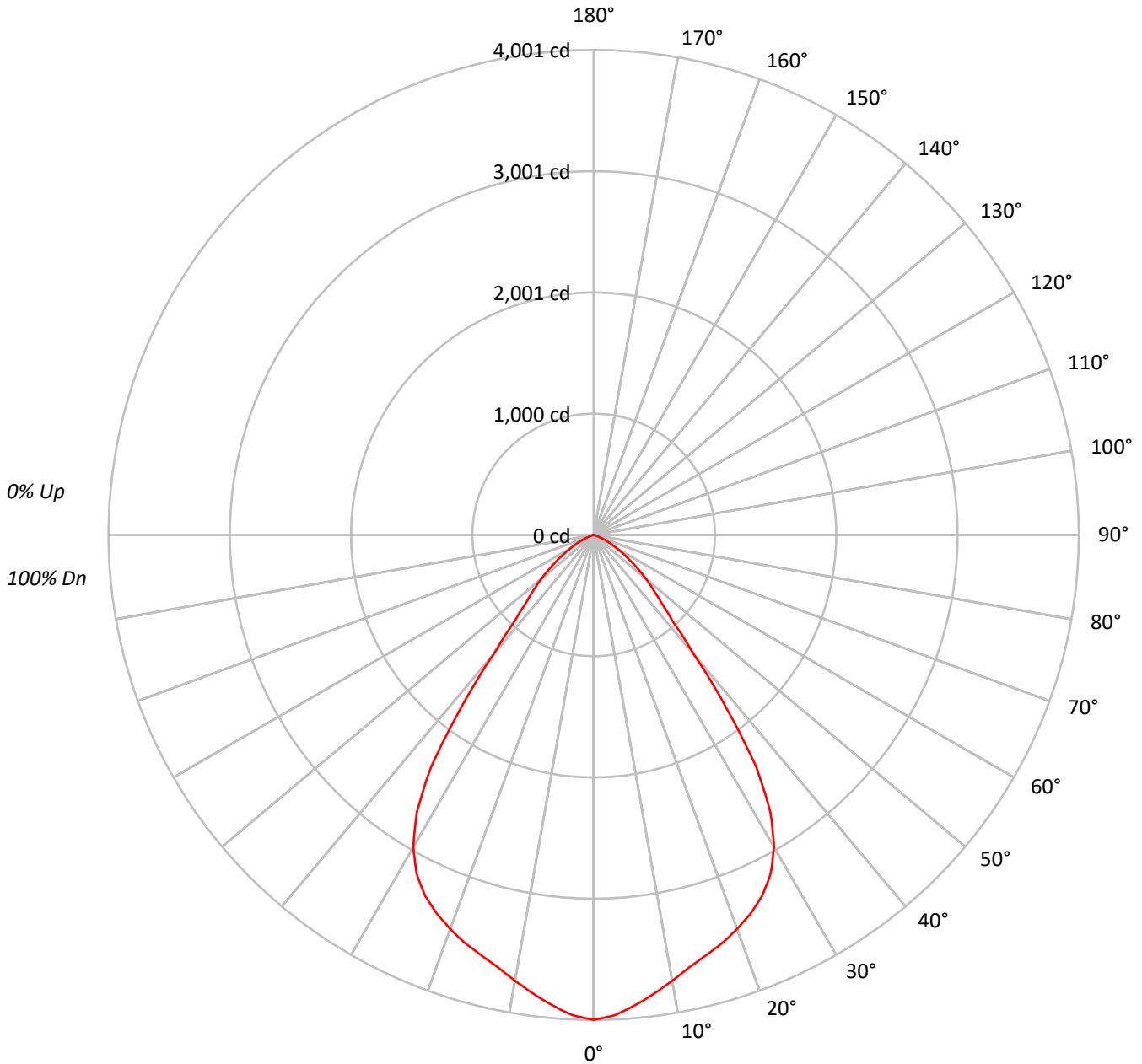
Lumens per Lamp: N/A  
Luminaire Lumens: 5389.2 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584807  
CATALOG NUMBER: HCC8W50D010MB-HM82555830-81WDH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584807

CATALOG NUMBER: HCC8W50D010MB-HM82555830-81WDH

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

RF	20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68				68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62				62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57				57
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52				52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41				41

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

	0°
0°	123379
5°	120603
10°	116907
15°	114537
20°	113511
25°	111813
30°	105916
35°	87997
40°	51823
45°	34277
50°	26980
55°	19854
60°	13790
65°	8398
70°	3669
75°	1620
80°	1208
85°	0



TEST NUMBER: P584807  
 CATALOG NUMBER: HCC8W50D010MB-HM82555830-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.9	6.8
10°-20°	1014.3	18.8
20°-30°	1502.8	27.9
30°-40°	1388.6	25.8
40°-50°	640.3	11.9
50°-60°	336.7	6.2
60°-70°	119.0	2.2
70°-80°	18.7	0.3
80°-90°	1.8	0.0
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°	2884.0	53.5
0°-40°	4272.7	79.3
0°-60°	5249.7	97.4
0°-90°	5389.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5389.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4001	
5°	3896	367
15°	3588	1014
25°	3286	1503
35°	2338	1389
45°	786	640
55°	369	337
65°	115	119
75°	14	19
85°	0	2
90°	0	



TEST NUMBER: P584807  
CATALOG NUMBER: HCC8W50D010MB-HM82555830-81WDH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4001.1
2.5°	3967.2
5°	3896.2
7.5°	3818.2
10°	3733.6
12.5°	3652.2
15°	3587.8
17.5°	3530.3
20°	3459.1
22.5°	3381.1
25°	3286.3
27.5°	3157.6
30°	2974.6
32.5°	2713.7
35°	2337.6
37.5°	1795.6
40°	1287.4
42.5°	965.6
45°	786.0
47.5°	667.4
50°	562.4
52.5°	460.7
55°	369.3
57.5°	291.3
60°	223.6
62.5°	169.4
65°	115.1
67.5°	67.8
70°	40.7
72.5°	23.7
75°	13.6
77.5°	10.2
80°	6.8
82.5°	3.4
85°	0.0
87.5°	0.0
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)