

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: P584781

Luminaire Tested: **HCC8W50D010BZ-HM82555827-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W50D010BZ-HM82555827-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

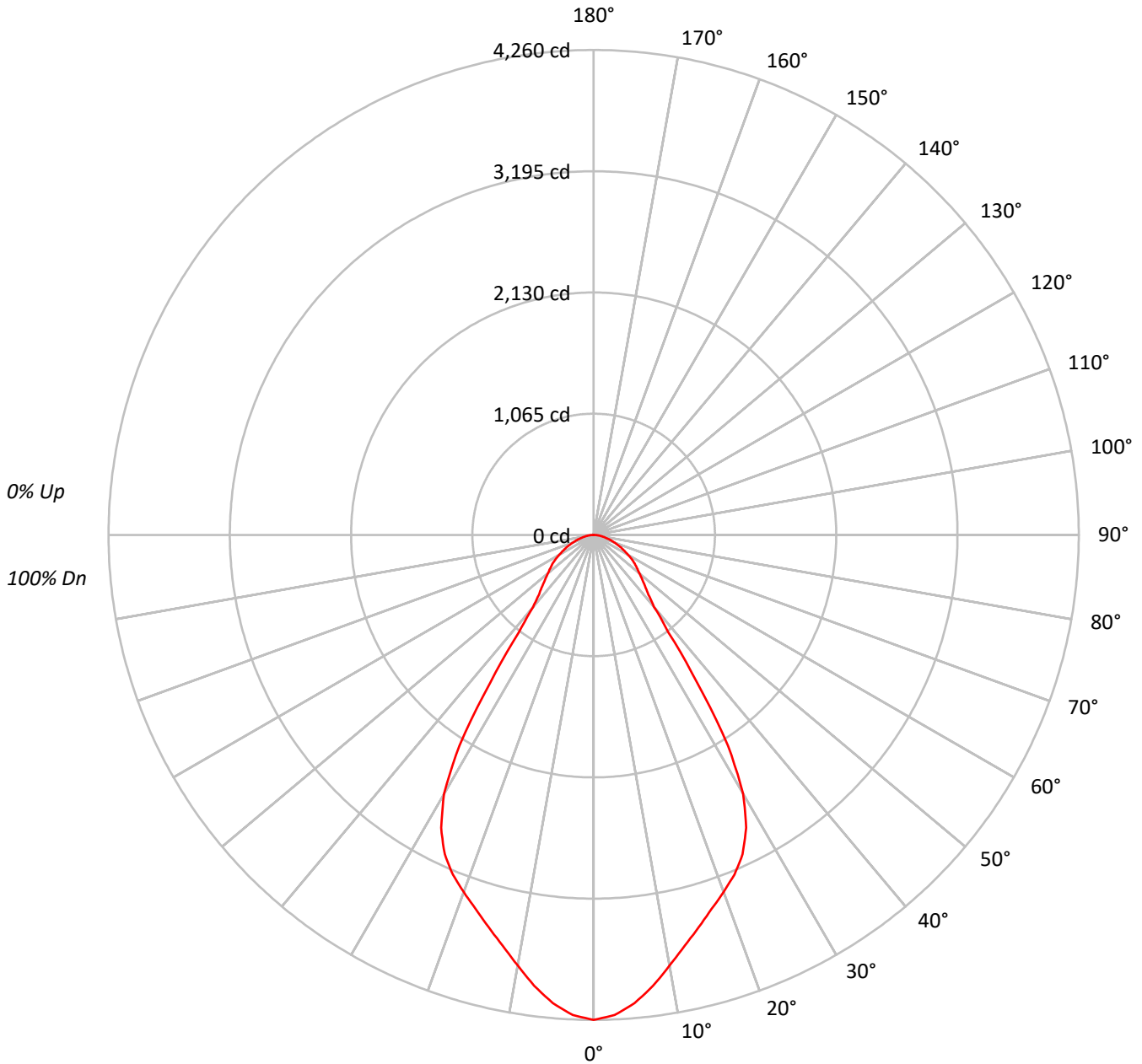
Lumens per Lamp: N/A  
Luminaire Lumens: 5137.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P584781  
CATALOG NUMBER: HCC8W50D010BZ-HM82555827-81MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584781

CATALOG NUMBER: HCC8W50D010BZ-HM82555827-81MDW

**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				
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

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

	0°
0°	131363
5°	127782
10°	120244
15°	113848
20°	109508
25°	105281
30°	93503
35°	59549
40°	33238
45°	27836
50°	25128
55°	23687
60°	21604
65°	19489
70°	17202
75°	15298
80°	13549
85°	12277



TEST NUMBER: P584781  
 CATALOG NUMBER: HCC8W50D010BZ-HM82555827-81MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.8	7.5
10°-20°	1005.7	19.6
20°-30°	1403.0	27.3
30°-40°	1009.6	19.7
40°-50°	500.3	9.7
50°-60°	391.5	7.6
60°-70°	265.0	5.2
70°-80°	137.7	2.7
80°-90°	39.6	0.8
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°	2793.6	54.4
0°-40°	3803.2	74.0
0°-60°	4695.0	91.4
0°-90°	5137.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4260	
5°	4128	385
15°	3566	1006
25°	3094	1403
35°	1582	1010
45°	638	500
55°	441	391
65°	267	265
75°	128	138
85°	35	40
90°	0	



TEST NUMBER: P584781  
CATALOG NUMBER: HCC8W50D010BZ-HM82555827-81MDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4260.0
2.5°	4221.7
5°	4128.1
7.5°	3996.2
10°	3840.2
12.5°	3694.5
15°	3566.2
17.5°	3444.7
20°	3337.1
22.5°	3229.6
25°	3094.3
27.5°	2900.1
30°	2626.0
32.5°	2195.8
35°	1581.9
37.5°	1078.9
40°	825.7
42.5°	711.1
45°	638.3
47.5°	575.8
50°	523.8
52.5°	478.7
55°	440.6
57.5°	395.5
60°	350.3
62.5°	305.2
65°	267.1
67.5°	229.0
70°	190.8
72.5°	159.6
75°	128.4
77.5°	100.7
80°	76.3
82.5°	55.5
85°	34.7
87.5°	17.3
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)