

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: P584700

Luminaire Tested: **HCC8W45D010BZ-HM82555840-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584700  
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: HCC8W45D010BZ-HM82555840-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

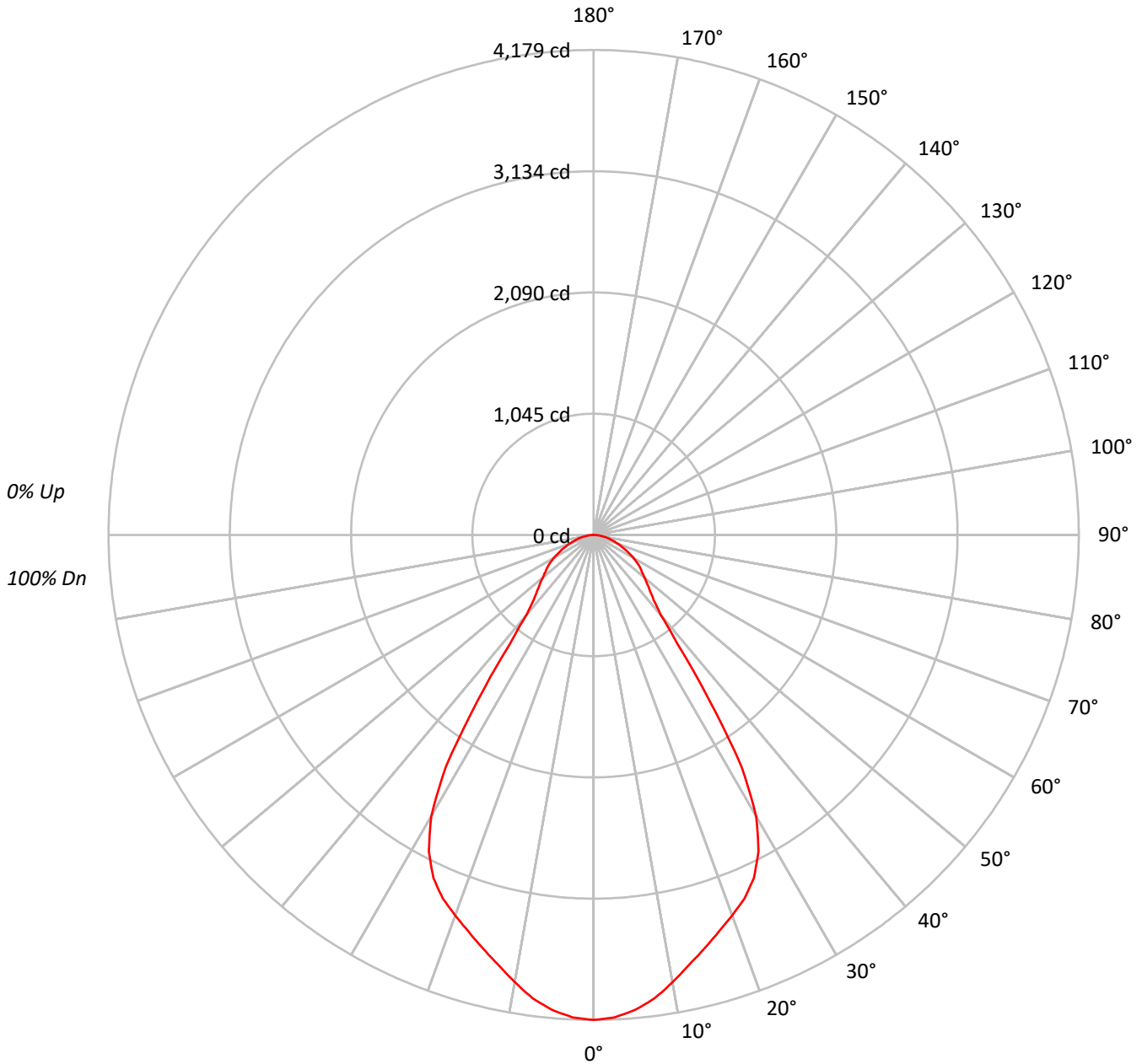
Lumens per Lamp: N/A  
Luminaire Lumens: 5490.0 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P584700  
CATALOG NUMBER: HCC8W45D010BZ-HM82555840-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584700  
 CATALOG NUMBER: HCC8W45D010BZ-HM82555840-81PSMDW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°
0°	128871
5°	127190
10°	122530
15°	117739
20°	114483
25°	111038
30°	99642
35°	65316
40°	36112
45°	30103
50°	27450
55°	26198
60°	24367
65°	22094
70°	19970
75°	18026
80°	16391
85°	15674



TEST NUMBER: P584700  
 CATALOG NUMBER: HCC8W45D010BZ-HM82555840-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.1	7.0
10°-20°	1040.5	19.0
20°-30°	1480.8	27.0
30°-40°	1096.0	20.0
40°-50°	542.8	9.9
50°-60°	433.2	7.9
60°-70°	300.8	5.5
70°-80°	162.1	3.0
80°-90°	47.7	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°	2907.4	53.0
0°-40°	4003.4	72.9
0°-60°	4979.4	90.7
0°-90°	5490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4179	
5°	4109	386
15°	3688	1041
25°	3264	1481
35°	1735	1096
45°	690	543
55°	487	433
65°	303	301
75°	151	162
85°	44	48
90°	0	



TEST NUMBER: P584700  
CATALOG NUMBER: HCC8W45D010BZ-HM82555840-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4179.2
2.5°	4160.6
5°	4109.0
7.5°	4027.7
10°	3913.2
12.5°	3795.1
15°	3688.1
17.5°	3584.7
20°	3488.7
22.5°	3392.8
25°	3263.5
27.5°	3075.3
30°	2798.4
32.5°	2373.8
35°	1735.1
37.5°	1185.1
40°	897.1
42.5°	767.8
45°	690.3
47.5°	627.6
50°	572.2
52.5°	524.2
55°	487.3
57.5°	443.0
60°	395.1
62.5°	347.0
65°	302.8
67.5°	258.4
70°	221.5
72.5°	184.6
75°	151.3
77.5°	121.9
80°	92.3
82.5°	66.5
85°	44.3
87.5°	18.4
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)