

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: **HC845D010-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: HC845D010-HM82555840-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
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

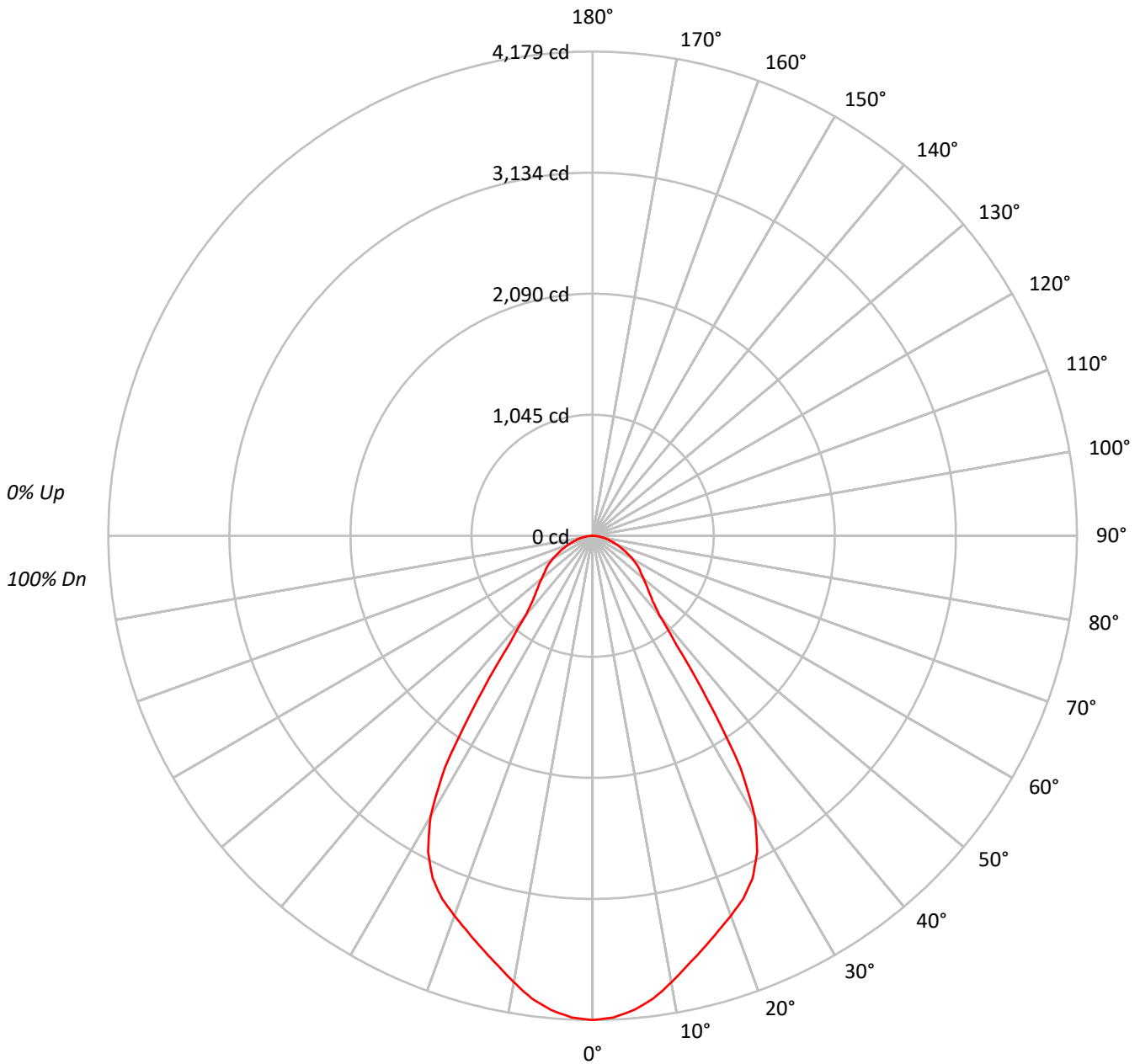
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584700

CATALOG NUMBER: HC845D010-HM82555840-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P584700

CATALOG NUMBER: HC845D010-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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			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: HC845D010-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: HC845D010-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



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)