

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: P584870

Luminaire Tested: **HC850D010-HM82555930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584870
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: HC850D010-HM82555930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4952.5 lumens
Efficiency: N/A
Efficacy: 103.2 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

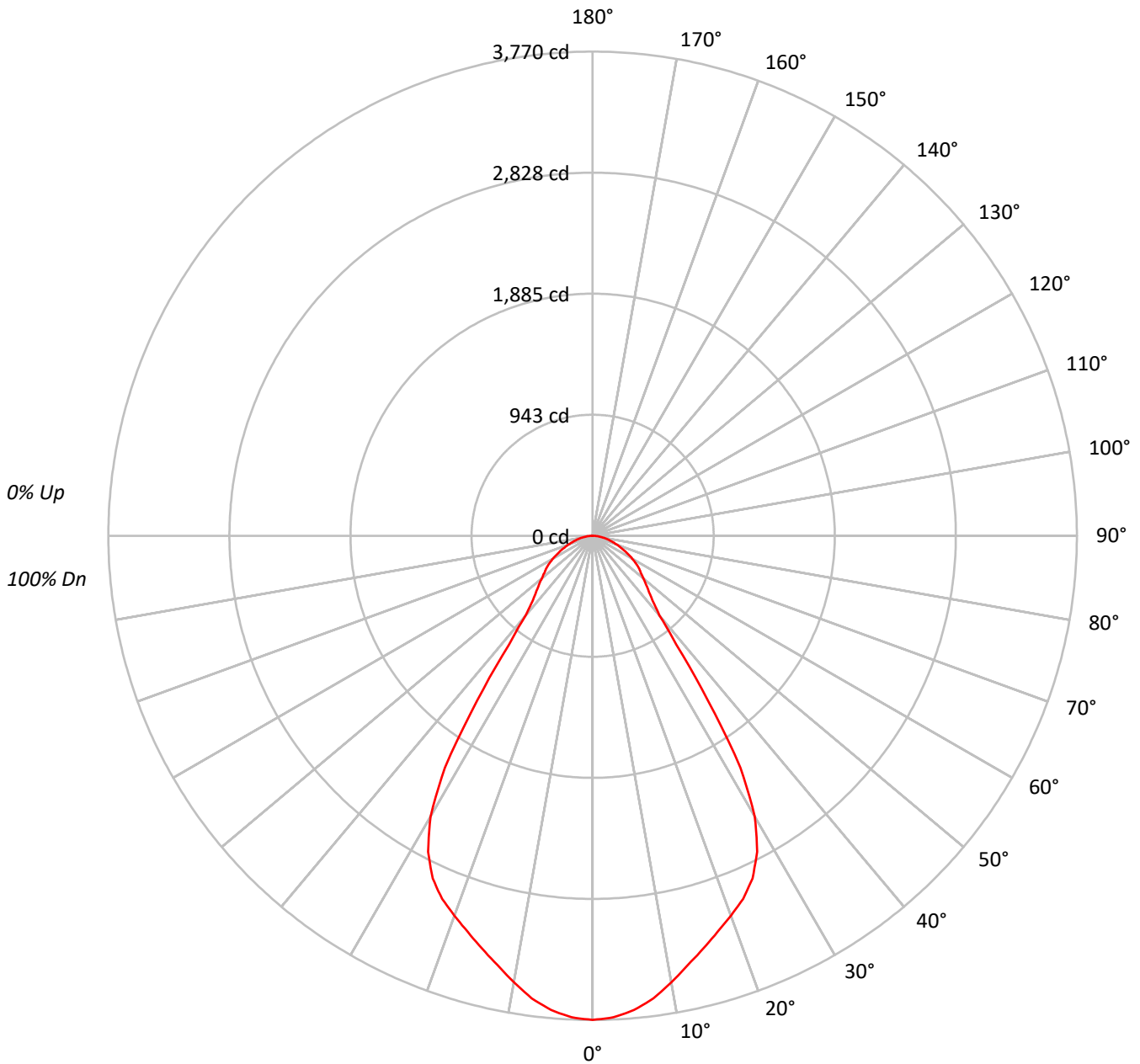
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584870

CATALOG NUMBER: HC850D010-HM82555930-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P584870

CATALOG NUMBER: HC850D010-HM82555930-81PSMDW

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°	116250
5°	114738
10°	110535
15°	106211
20°	103276
25°	100167
30°	89882
35°	58924
40°	32578
45°	27155
50°	24764
55°	23628
60°	21974
65°	19927
70°	18014
75°	16263
80°	14775
85°	14152



TEST NUMBER: P584870

CATALOG NUMBER: HC850D010-HM82555930-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	7.0
10°-20°	938.6	19.0
20°-30°	1335.8	27.0
30°-40°	988.7	20.0
40°-50°	489.7	9.9
50°-60°	390.8	7.9
60°-70°	271.3	5.5
70°-80°	146.2	3.0
80°-90°	43.0	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°	2622.7	53.0
0°-40°	3611.4	72.9
0°-60°	4491.9	90.7
0°-90°	4952.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4952.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3770	
5°	3707	348
15°	3327	939
25°	2944	1336
35°	1565	989
45°	623	490
55°	440	391
65°	273	271
75°	136	146
85°	40	43
90°	0	



TEST NUMBER: P584870

CATALOG NUMBER: HC850D010-HM82555930-81PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3769.9
2.5°	3753.3
5°	3706.7
7.5°	3633.4
10°	3530.1
12.5°	3423.5
15°	3327.0
17.5°	3233.7
20°	3147.2
22.5°	3060.6
25°	2944.0
27.5°	2774.2
30°	2524.3
32.5°	2141.4
35°	1565.3
37.5°	1069.1
40°	809.3
42.5°	692.7
45°	622.7
47.5°	566.1
50°	516.2
52.5°	472.9
55°	439.5
57.5°	399.7
60°	356.3
62.5°	313.1
65°	273.1
67.5°	233.1
70°	199.8
72.5°	166.5
75°	136.5
77.5°	109.9
80°	83.2
82.5°	60.0
85°	40.0
87.5°	16.6
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)