

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P395176

Luminaire Tested: **2FSN6-SL1-CP125-L8SCT3-3500K-LO**

Issue Date: 5/5/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P395176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-099-13)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 5/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 2FSN6-SL1-CP125-L8SCT3-3500K-LO
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1151.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Direct

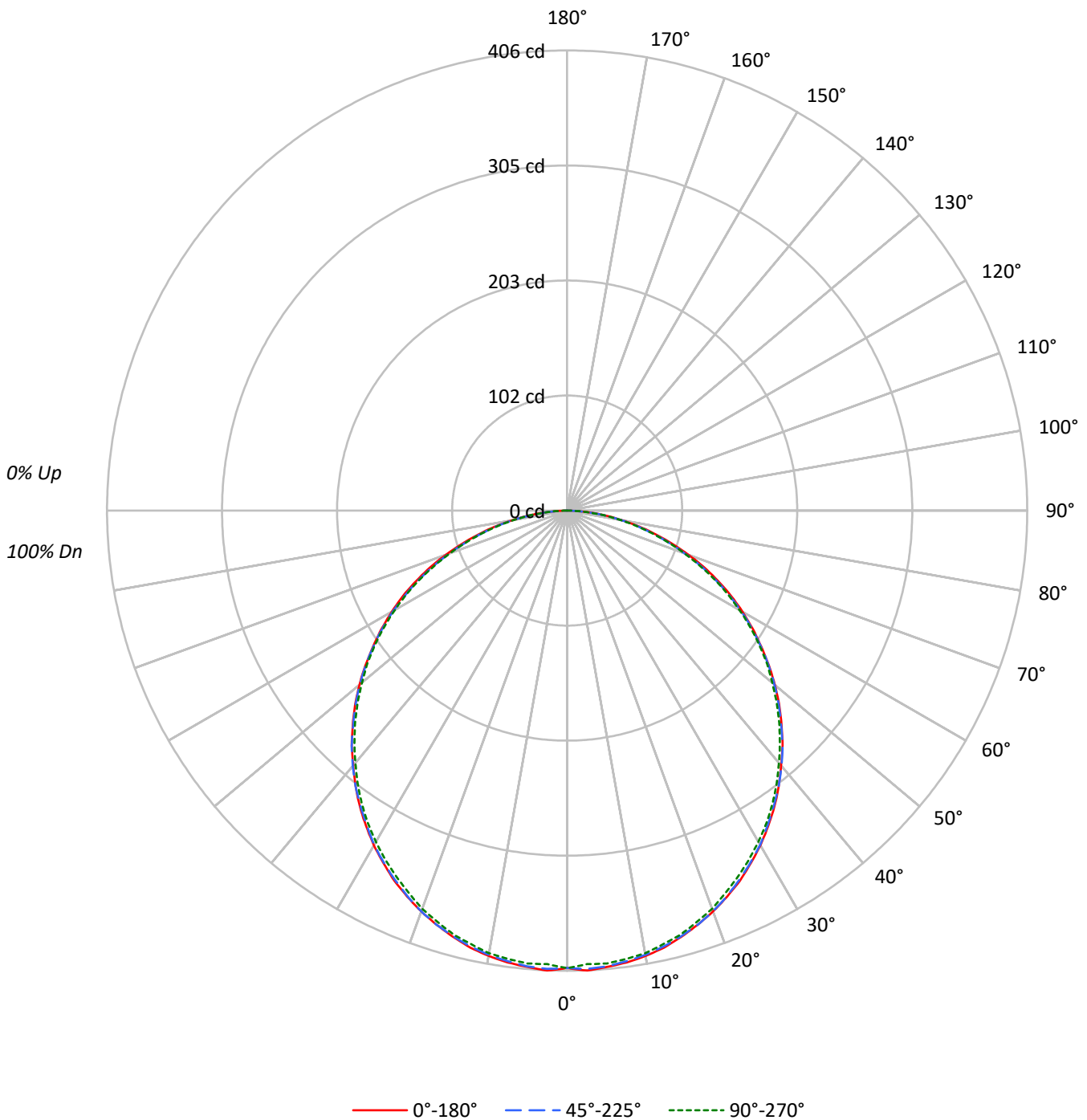
Input Watts (W): 10.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395176

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3500K-LO

Luminous Intensity Polar Plot





TEST NUMBER: P395176

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3500K-LO

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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4344	4344	4344
5°	4367	4361	4334
10°	4361	4350	4334
15°	4338	4333	4315
20°	4312	4312	4283
25°	4282	4270	4233
30°	4238	4232	4194
35°	4190	4177	4150
40°	4127	4135	4085
45°	4074	4064	4026
50°	4007	3999	3955
55°	3922	3913	3885
60°	3847	3815	3780
65°	3741	3675	3650
70°	3572	3474	3459
75°	3352	3248	3223
80°	3056	2994	2926
85°	2668	2532	2470



TEST NUMBER: P395176

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3500K-LO

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	3.3
10°-20°	109.3	9.5
20°-30°	164.9	14.3
30°-40°	198.1	17.2
40°-50°	205.1	17.8
50°-60°	185.8	16.1
60°-70°	142.6	12.4
70°-80°	83.1	7.2
80°-90°	23.7	2.1
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°	312.4	27.1
0°-40°	510.5	44.4
0°-60°	901.5	78.3
0°-90°	1151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	404	401	404	401	401	38
15°	389	386	389	387	387	110
25°	360	357	360	356	356	166
35°	319	317	318	314	316	199
45°	268	267	267	264	264	206
55°	209	210	208	205	207	187
65°	147	145	144	143	143	145
75°	81	80	78	77	78	86
85°	22	22	20	20	20	25
90°	0	0	0	0	0	



TEST NUMBER: P395176

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3500K-LO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	403.6	403.6	403.6	403.6	403.6
2.5°	406.2	402.6	404.7	402.6	400.6
5°	404.2	401.1	403.6	401.1	401.1
7.5°	402.1	399.0	401.1	398.5	399.0
10°	399.0	395.9	398.0	395.9	396.5
12.5°	394.9	391.3	393.9	391.8	391.8
15°	389.3	386.2	388.8	386.7	387.2
17.5°	383.1	380.0	383.1	380.5	380.5
20°	376.4	373.3	376.4	373.3	373.9
22.5°	368.7	366.2	368.2	364.6	365.1
25°	360.5	357.4	359.5	355.9	356.4
27.5°	350.8	348.2	350.2	346.6	347.2
30°	341.0	338.4	340.5	336.4	337.4
32.5°	330.2	327.6	329.2	326.1	327.1
35°	318.9	316.9	317.9	314.3	315.8
37.5°	306.6	305.0	306.6	302.5	303.5
40°	293.7	292.7	294.3	290.2	290.7
42.5°	281.4	279.9	281.4	277.3	277.8
45°	267.6	267.0	267.0	263.5	264.5
47.5°	253.7	253.2	253.2	249.6	250.6
50°	239.3	239.3	238.8	235.2	236.2
52.5°	224.4	224.4	223.9	220.8	222.4
55°	209.0	209.5	208.5	205.4	207.0
57.5°	194.1	194.1	193.1	190.5	191.6
60°	178.7	178.2	177.2	174.6	175.6
62.5°	163.3	162.3	160.7	158.7	159.7
65°	146.9	145.3	144.3	142.8	143.3
67.5°	131.0	128.9	127.4	125.3	126.3
70°	113.5	112.0	110.4	108.9	109.9
72.5°	97.1	95.5	94.0	93.0	93.5
75°	80.6	79.6	78.1	77.0	77.5
77.5°	65.2	63.7	63.2	61.6	62.1
80°	49.3	48.8	48.3	46.7	47.2
82.5°	34.9	34.9	33.9	32.9	33.4
85°	21.6	21.6	20.5	19.5	20.0
87.5°	9.2	8.7	8.7	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)