

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: P395172

Luminaire Tested: **2FSN6-SL1-CP125-L8SCT3-3000K-HI**

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: P395172
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-L8SCT3-3000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1937.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

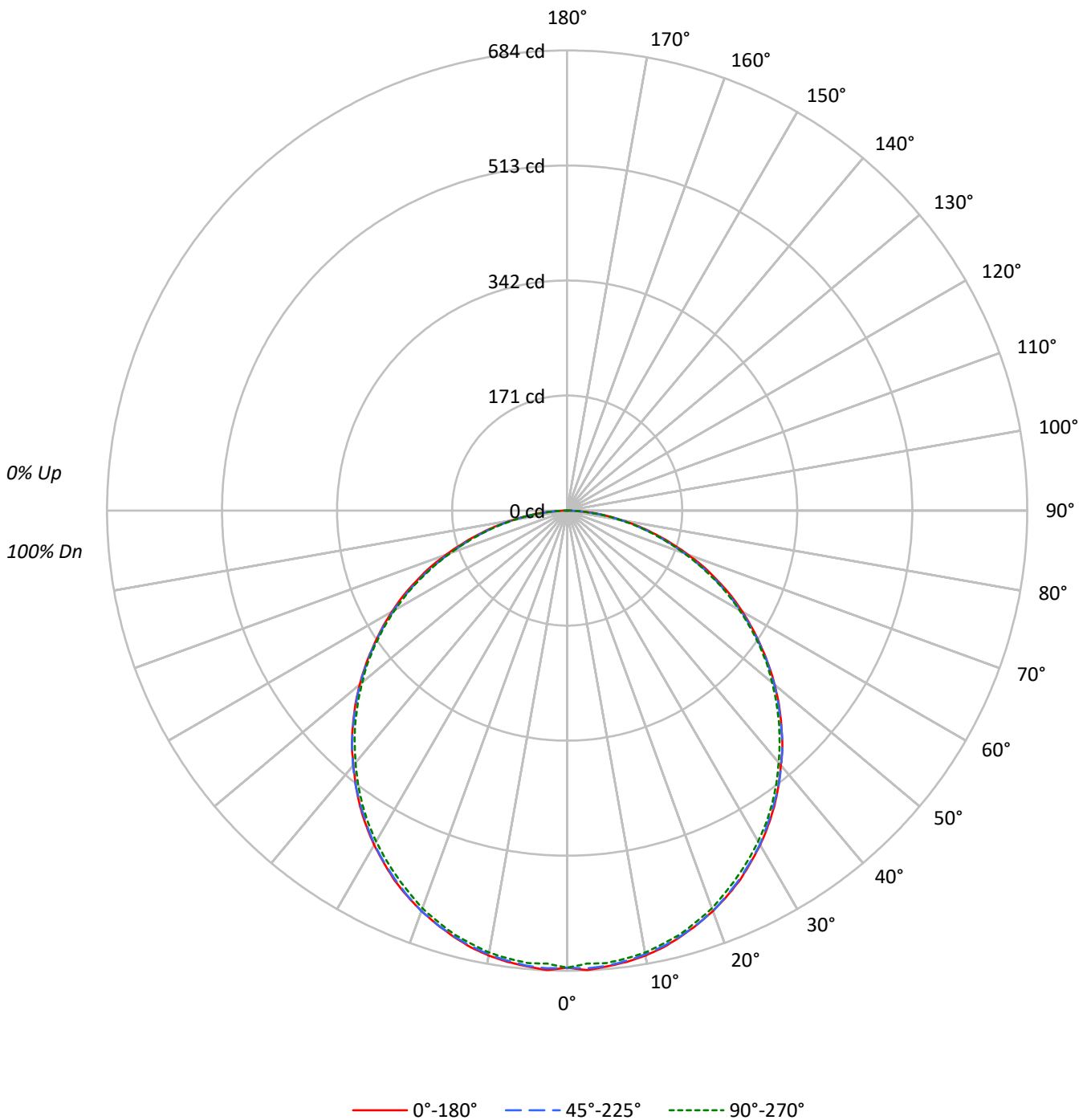
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395172

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P395172

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3000K-HI

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°	7312	7312	7312
5°	7350	7340	7293
10°	7339	7321	7292
15°	7300	7290	7261
20°	7257	7257	7207
25°	7206	7185	7124
30°	7133	7122	7057
35°	7052	7030	6984
40°	6946	6958	6874
45°	6855	6841	6776
50°	6743	6730	6658
55°	6600	6585	6536
60°	6476	6420	6364
65°	6296	6187	6141
70°	6011	5847	5819
75°	5644	5465	5427
80°	5145	5033	4928
85°	4483	4273	4162



TEST NUMBER: P395172

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.3
10°-20°	184.0	9.5
20°-30°	277.5	14.3
30°-40°	333.3	17.2
40°-50°	345.2	17.8
50°-60°	312.8	16.1
60°-70°	240.1	12.4
70°-80°	139.9	7.2
80°-90°	39.9	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°	525.8	27.1
0°-40°	859.1	44.4
0°-60°	1517.1	78.3
0°-90°	1937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	680	675	679	675	675	65
15°	655	650	654	651	652	185
25°	607	602	605	599	600	279
35°	537	533	535	529	532	336
45°	450	449	449	443	445	347
55°	352	353	351	346	348	315
65°	247	245	243	240	241	245
75°	136	134	131	130	130	144
85°	36	36	35	33	34	41
90°	0	0	0	0	0	



TEST NUMBER: P395172

CATALOG NUMBER: 2FSN6-SL1-CP125-L8SCT3-3000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	679.3	679.3	679.3	679.3	679.3
2.5°	683.6	677.6	681.0	677.6	674.1
5°	680.2	675.0	679.3	675.0	675.0
7.5°	676.7	671.5	675.0	670.7	671.5
10°	671.5	666.3	669.8	666.3	667.2
12.5°	664.6	658.6	662.9	659.4	659.4
15°	655.1	649.9	654.2	650.8	651.6
17.5°	644.7	639.5	644.7	640.4	640.4
20°	633.5	628.3	633.5	628.3	629.2
22.5°	620.5	616.2	619.7	613.6	614.5
25°	606.7	601.5	605.0	598.9	599.8
27.5°	590.3	586.0	589.4	583.4	584.2
30°	573.9	569.5	573.0	566.1	567.8
32.5°	555.7	551.4	554.0	548.8	550.5
35°	536.7	533.2	535.0	528.9	531.5
37.5°	516.0	513.4	516.0	509.0	510.8
40°	494.3	492.6	495.2	488.3	489.2
42.5°	473.6	471.0	473.6	466.7	467.6
45°	450.3	449.4	449.4	443.4	445.1
47.5°	426.9	426.1	426.1	420.0	421.8
50°	402.7	402.7	401.9	395.8	397.6
52.5°	377.7	377.7	376.8	371.6	374.2
55°	351.7	352.6	350.9	345.7	348.3
57.5°	326.7	326.7	325.0	320.6	322.4
60°	300.8	299.9	298.2	293.8	295.6
62.5°	274.8	273.1	270.5	267.1	268.8
65°	247.2	244.6	242.9	240.3	241.1
67.5°	220.4	216.9	214.3	210.9	212.6
70°	191.0	188.4	185.8	183.2	184.9
72.5°	163.3	160.7	158.2	156.4	157.3
75°	135.7	134.0	131.4	129.6	130.5
77.5°	109.8	107.2	106.3	103.7	104.6
80°	83.0	82.1	81.2	78.6	79.5
82.5°	58.8	58.8	57.0	55.3	56.2
85°	36.3	36.3	34.6	32.8	33.7
87.5°	15.6	14.7	14.7	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)