

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: P395175

Luminaire Tested: **2FSN6-SL1-CP125-L8SCT3-3500K-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: P395175  
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-HI  
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH 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: 1993.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

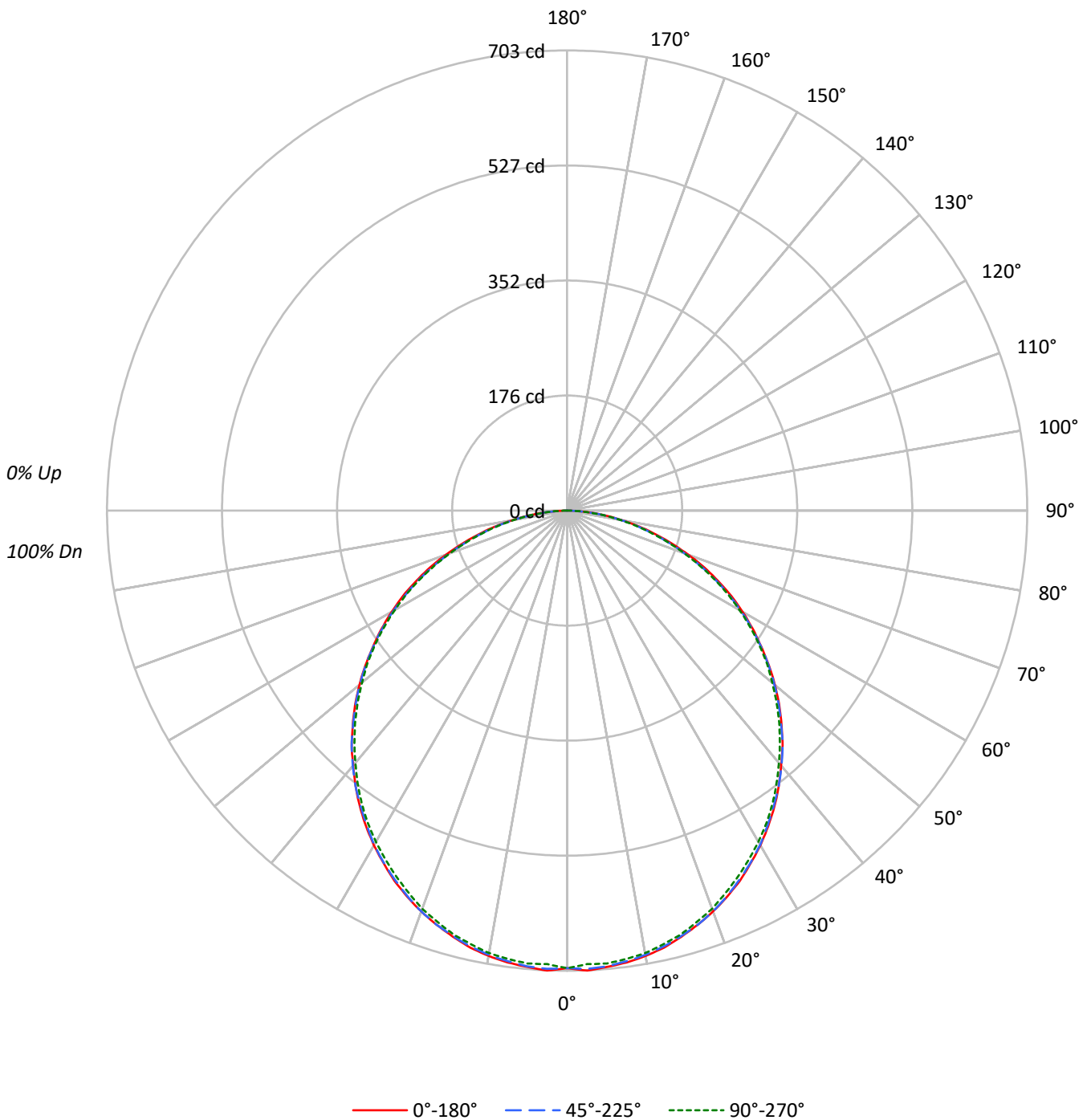
Input Watts (W): 19.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	7523	7523	7523
5°	7561	7552	7504
10°	7552	7533	7503
15°	7511	7501	7472
20°	7466	7466	7416
25°	7413	7393	7329
30°	7338	7328	7261
35°	7256	7232	7186
40°	7146	7159	7072
45°	7053	7039	6972
50°	6939	6924	6849
55°	6792	6775	6726
60°	6663	6605	6547
65°	6477	6365	6319
70°	6184	6017	5989
75°	5806	5623	5585
80°	5294	5182	5071
85°	4607	4397	4286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	3.3
10°-20°	189.3	9.5
20°-30°	285.6	14.3
30°-40°	343.0	17.2
40°-50°	355.2	17.8
50°-60°	321.8	16.1
60°-70°	247.0	12.4
70°-80°	144.0	7.2
80°-90°	41.1	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°	541.0	27.1
0°-40°	884.0	44.4
0°-60°	1561.0	78.3
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	700	694	699	694	694	67
15°	674	669	673	670	670	190
25°	624	619	622	616	617	287
35°	552	549	550	544	547	345
45°	463	462	462	456	458	357
55°	362	363	361	356	358	324
65°	254	252	250	247	248	252
75°	140	138	135	133	134	148
85°	37	37	36	34	35	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	698.9	698.9	698.9	698.9	698.9
2.5°	703.4	697.2	700.7	697.2	693.6
5°	699.8	694.5	698.9	694.5	694.5
7.5°	696.3	690.9	694.5	690.0	690.9
10°	690.9	685.6	689.2	685.6	686.5
12.5°	683.8	677.6	682.0	678.5	678.5
15°	674.0	668.7	673.1	669.6	670.5
17.5°	663.4	658.0	663.4	658.9	658.9
20°	651.8	646.5	651.8	646.5	647.4
22.5°	638.5	634.0	637.6	631.4	632.2
25°	624.2	618.9	622.5	616.2	617.1
27.5°	607.3	602.9	606.5	600.2	601.1
30°	590.4	586.0	589.6	582.4	584.2
32.5°	571.8	567.3	570.0	564.7	566.4
35°	552.2	548.7	550.4	544.2	546.9
37.5°	530.9	528.2	530.9	523.8	525.5
40°	508.6	506.9	509.5	502.4	503.3
42.5°	487.3	484.6	487.3	480.2	481.1
45°	463.3	462.4	462.4	456.2	458.0
47.5°	439.3	438.4	438.4	432.2	433.9
50°	414.4	414.4	413.5	407.3	409.0
52.5°	388.6	388.6	387.7	382.4	385.0
55°	361.9	362.8	361.0	355.7	358.4
57.5°	336.1	336.1	334.4	329.9	331.7
60°	309.5	308.6	306.8	302.3	304.1
62.5°	282.8	281.0	278.3	274.8	276.6
65°	254.3	251.7	249.9	247.2	248.1
67.5°	226.8	223.2	220.5	217.0	218.8
70°	196.5	193.9	191.2	188.5	190.3
72.5°	168.1	165.4	162.7	161.0	161.8
75°	139.6	137.8	135.2	133.4	134.3
77.5°	112.9	110.3	109.4	106.7	107.6
80°	85.4	84.5	83.6	80.9	81.8
82.5°	60.5	60.5	58.7	56.9	57.8
85°	37.3	37.3	35.6	33.8	34.7
87.5°	16.0	15.1	15.1	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)