

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: P395224

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-4000K-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: P395224  
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: 4FSN6-SL1-CP125-L8SCT3-4000K-LO  
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2157.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

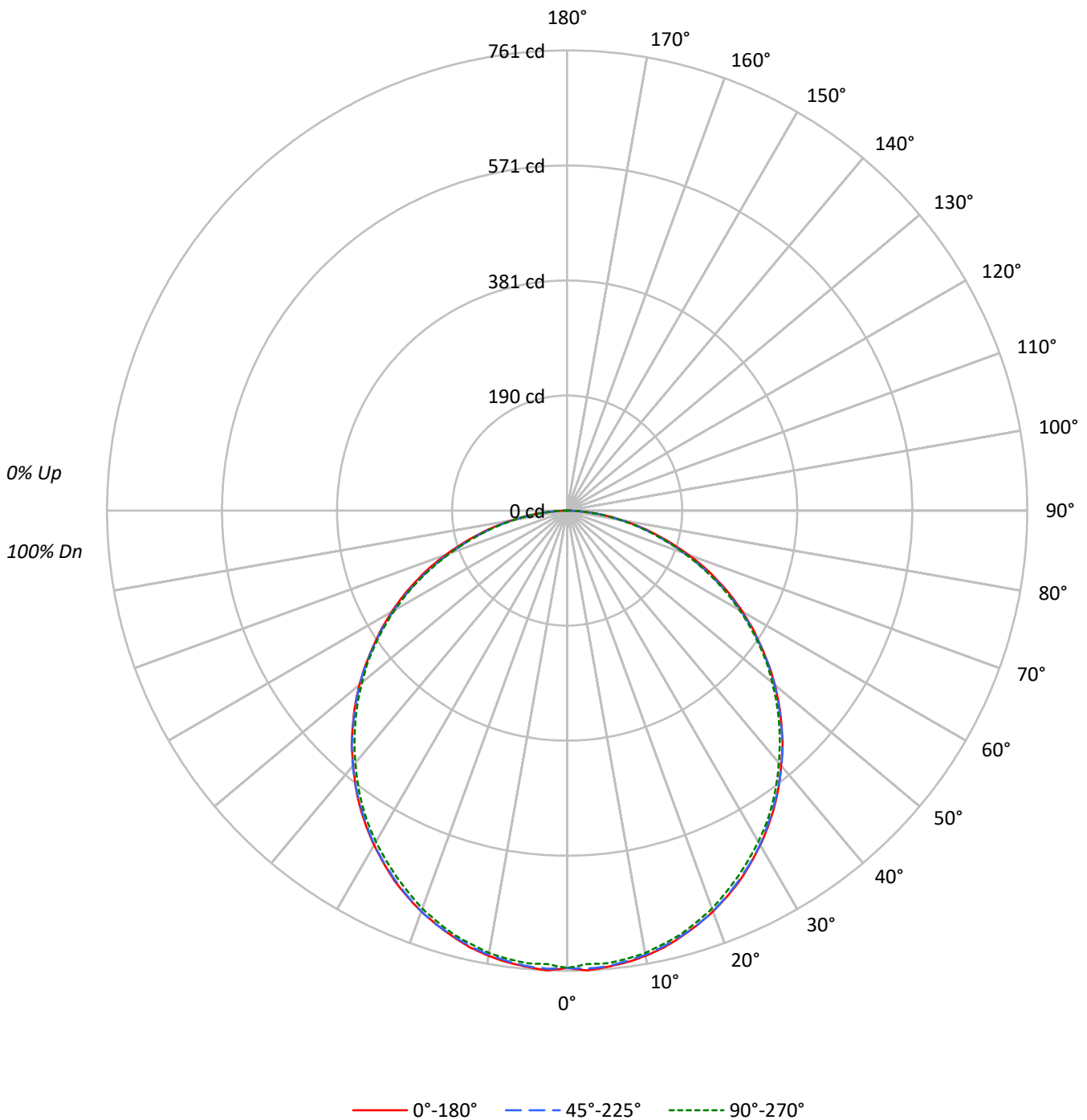
Input Watts (W): 18.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4071	4071	4071
5°	4092	4086	4061
10°	4087	4076	4060
15°	4065	4059	4043
20°	4040	4040	4013
25°	4012	4001	3966
30°	3971	3966	3929
35°	3927	3914	3889
40°	3868	3875	3827
45°	3816	3809	3772
50°	3755	3747	3707
55°	3675	3666	3639
60°	3605	3574	3542
65°	3505	3443	3419
70°	3347	3256	3242
75°	3142	3042	3021
80°	2864	2805	2743
85°	2495	2377	2316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	3.3
10°-20°	204.9	9.5
20°-30°	309.1	14.3
30°-40°	371.2	17.2
40°-50°	384.4	17.8
50°-60°	348.3	16.1
60°-70°	267.3	12.4
70°-80°	155.8	7.2
80°-90°	44.4	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°	585.5	27.1
0°-40°	956.7	44.4
0°-60°	1689.5	78.3
0°-90°	2157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	757	752	756	752	752	72
15°	730	724	728	725	726	206
25°	676	670	674	667	668	311
35°	598	594	596	589	592	374
45°	501	500	500	494	496	387
55°	392	393	391	385	388	351
65°	275	272	270	268	268	272
75°	151	149	146	144	145	160
85°	40	40	38	37	38	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	756.4	756.4	756.4	756.4	756.4
2.5°	761.3	754.5	758.4	754.5	750.7
5°	757.4	751.6	756.4	751.6	751.6
7.5°	753.6	747.8	751.6	746.8	747.8
10°	747.8	742.0	745.9	742.0	743.0
12.5°	740.1	733.4	738.2	734.3	734.3
15°	729.5	723.7	728.5	724.7	725.7
17.5°	718.0	712.2	718.0	713.1	713.1
20°	705.4	699.7	705.4	699.7	700.6
22.5°	691.0	686.2	690.0	683.3	684.3
25°	675.6	669.8	673.7	666.9	667.9
27.5°	657.3	652.5	656.4	649.6	650.6
30°	639.0	634.2	638.1	630.4	632.3
32.5°	618.8	614.0	616.9	611.1	613.1
35°	597.7	593.8	595.7	589.0	591.9
37.5°	574.6	571.7	574.6	566.9	568.8
40°	550.5	548.6	551.5	543.8	544.7
42.5°	527.4	524.5	527.4	519.7	520.7
45°	501.4	500.4	500.4	493.7	495.6
47.5°	475.4	474.5	474.5	467.7	469.7
50°	448.5	448.5	447.5	440.8	442.7
52.5°	420.6	420.6	419.6	413.8	416.7
55°	391.7	392.7	390.7	385.0	387.8
57.5°	363.8	363.8	361.9	357.1	359.0
60°	334.9	334.0	332.0	327.2	329.1
62.5°	306.0	304.1	301.2	297.4	299.3
65°	275.2	272.4	270.4	267.5	268.5
67.5°	245.4	241.6	238.7	234.8	236.8
70°	212.7	209.8	206.9	204.0	206.0
72.5°	181.9	179.0	176.1	174.2	175.2
75°	151.1	149.2	146.3	144.4	145.3
77.5°	122.2	119.3	118.4	115.5	116.5
80°	92.4	91.4	90.5	87.6	88.5
82.5°	65.4	65.4	63.5	61.6	62.6
85°	40.4	40.4	38.5	36.6	37.5
87.5°	17.3	16.4	16.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)