

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: P395167

Luminaire Tested: **2FSN6-SL1-CA125-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: P395167  
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-CA125-L8SCT3-3500K-LO  
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1179.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

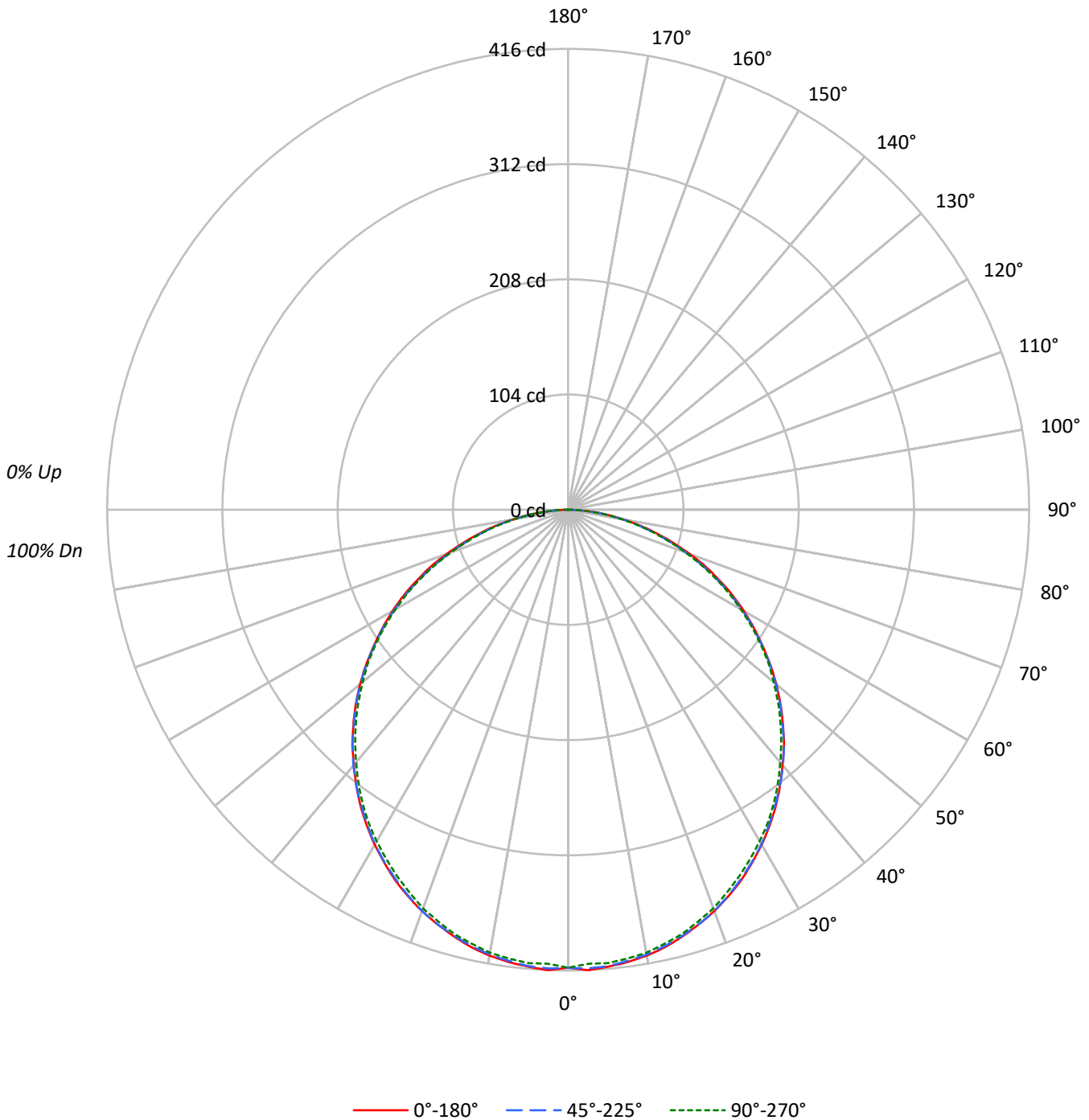
Input Watts (W): 10.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4451	4451	4451
5°	4473	4468	4439
10°	4467	4456	4439
15°	4443	4437	4420
20°	4417	4417	4387
25°	4386	4373	4336
30°	4341	4335	4295
35°	4293	4278	4251
40°	4228	4235	4183
45°	4172	4163	4124
50°	4104	4096	4052
55°	4018	4008	3978
60°	3942	3907	3873
65°	3831	3764	3739
70°	3660	3559	3544
75°	3435	3327	3302
80°	3130	3062	3000
85°	2729	2594	2532



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	3.3
10°-20°	112.0	9.5
20°-30°	168.9	14.3
30°-40°	202.9	17.2
40°-50°	210.1	17.8
50°-60°	190.4	16.1
60°-70°	146.1	12.4
70°-80°	85.2	7.2
80°-90°	24.3	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°	320.1	27.1
0°-40°	522.9	44.4
0°-60°	923.4	78.3
0°-90°	1179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	411	414	411	411	39
15°	399	396	398	396	397	113
25°	369	366	368	364	365	170
35°	327	325	326	322	324	204
45°	274	274	274	270	271	211
55°	214	215	214	210	212	192
65°	150	149	148	146	147	149
75°	83	82	80	79	79	88
85°	22	22	21	20	20	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	413.5	413.5	413.5	413.5	413.5
2.5°	416.1	412.4	414.5	412.4	410.3
5°	414.0	410.8	413.5	410.8	410.8
7.5°	411.9	408.7	410.8	408.2	408.7
10°	408.7	405.6	407.7	405.6	406.1
12.5°	404.5	400.8	403.5	401.4	401.4
15°	398.7	395.6	398.2	396.1	396.6
17.5°	392.4	389.3	392.4	389.8	389.8
20°	385.6	382.4	385.6	382.4	383.0
22.5°	377.7	375.1	377.2	373.5	374.0
25°	369.3	366.1	368.2	364.5	365.1
27.5°	359.3	356.7	358.8	355.1	355.6
30°	349.3	346.7	348.8	344.6	345.6
32.5°	338.2	335.6	337.2	334.0	335.1
35°	326.7	324.6	325.6	321.9	323.5
37.5°	314.0	312.5	314.0	309.8	310.9
40°	300.9	299.8	301.4	297.2	297.7
42.5°	288.3	286.7	288.3	284.1	284.6
45°	274.1	273.5	273.5	269.9	270.9
47.5°	259.9	259.3	259.3	255.7	256.7
50°	245.1	245.1	244.6	240.9	242.0
52.5°	229.9	229.9	229.4	226.2	227.8
55°	214.1	214.6	213.6	210.4	212.0
57.5°	198.8	198.8	197.8	195.2	196.2
60°	183.1	182.5	181.5	178.9	179.9
62.5°	167.3	166.2	164.7	162.5	163.6
65°	150.4	148.9	147.8	146.2	146.8
67.5°	134.1	132.0	130.5	128.4	129.4
70°	116.3	114.7	113.1	111.5	112.6
72.5°	99.4	97.8	96.3	95.2	95.7
75°	82.6	81.5	80.0	78.9	79.4
77.5°	66.8	65.2	64.7	63.1	63.7
80°	50.5	50.0	49.4	47.9	48.4
82.5°	35.8	35.8	34.7	33.7	34.2
85°	22.1	22.1	21.0	20.0	20.5
87.5°	9.5	8.9	8.9	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)