

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: P395170

Luminaire Tested: **2FSN6-SL1-CA125-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: P395170
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-L8SCT3-4000K-LO
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 4000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1194.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

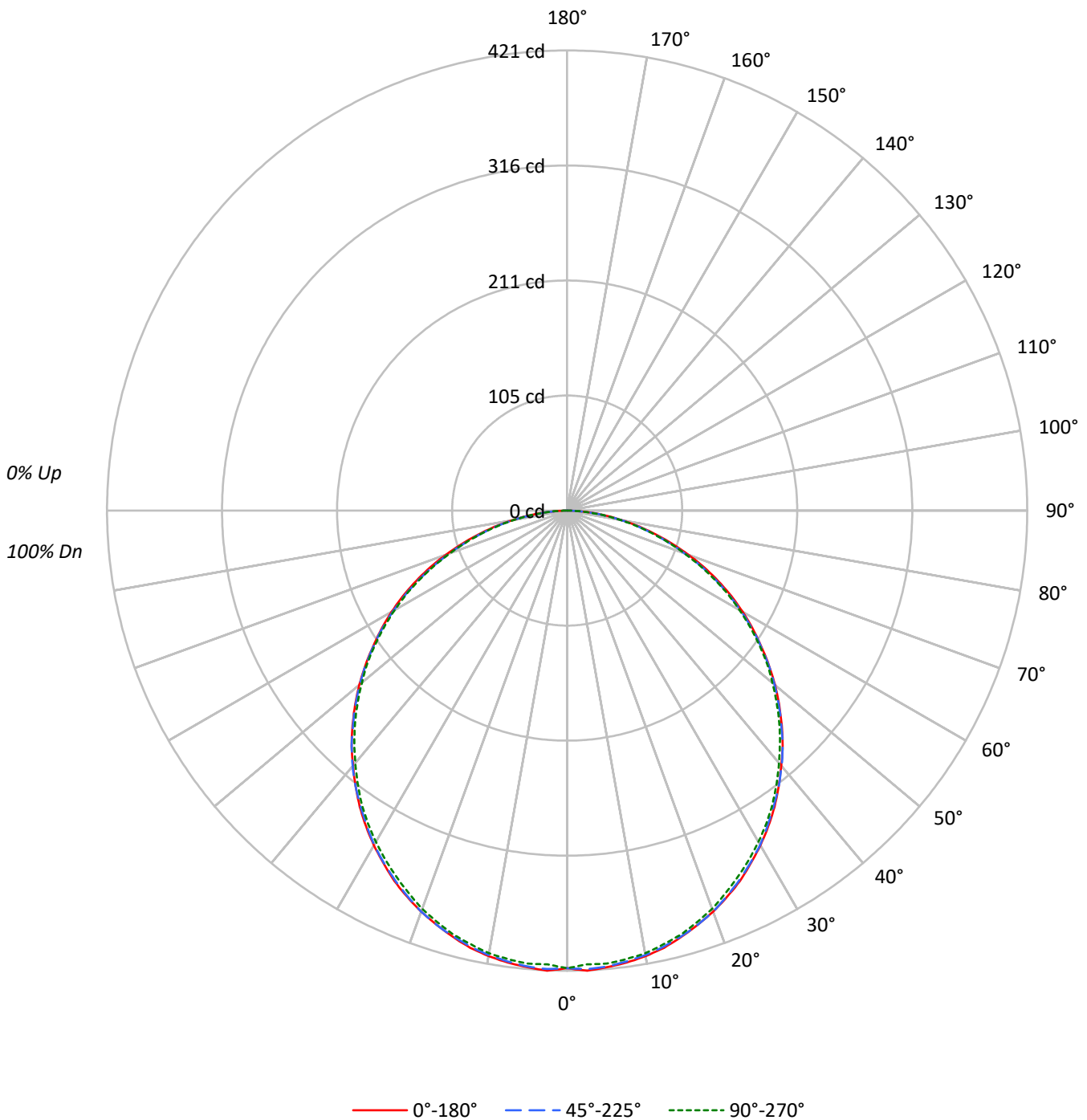
Input Watts (W): 10.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4507	4507	4507
5°	4531	4524	4496
10°	4524	4513	4495
15°	4500	4494	4476
20°	4473	4473	4442
25°	4442	4429	4391
30°	4396	4390	4350
35°	4347	4334	4305
40°	4281	4290	4236
45°	4226	4217	4177
50°	4158	4148	4104
55°	4069	4059	4029
60°	3991	3957	3922
65°	3882	3813	3785
70°	3704	3603	3588
75°	3477	3369	3344
80°	3168	3106	3037
85°	2766	2631	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	3.3
10°-20°	113.4	9.5
20°-30°	171.1	14.3
30°-40°	205.5	17.2
40°-50°	212.8	17.8
50°-60°	192.8	16.1
60°-70°	148.0	12.4
70°-80°	86.2	7.2
80°-90°	24.6	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°	324.1	27.1
0°-40°	529.6	44.4
0°-60°	935.2	78.3
0°-90°	1194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	419	416	419	416	416	40
15°	404	401	403	401	402	114
25°	374	371	373	369	370	172
35°	331	329	330	326	328	207
45°	278	277	277	273	274	214
55°	217	217	216	213	215	194
65°	152	151	150	148	149	151
75°	84	83	81	80	80	89
85°	22	22	21	20	21	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.7	418.7	418.7	418.7	418.7
2.5°	421.4	417.7	419.8	417.7	415.5
5°	419.3	416.1	418.7	416.1	416.1
7.5°	417.1	413.9	416.1	413.4	413.9
10°	413.9	410.7	412.9	410.7	411.3
12.5°	409.7	405.9	408.6	406.5	406.5
15°	403.8	400.6	403.3	401.1	401.7
17.5°	397.4	394.2	397.4	394.8	394.8
20°	390.5	387.3	390.5	387.3	387.8
22.5°	382.5	379.8	382.0	378.2	378.8
25°	374.0	370.8	372.9	369.2	369.7
27.5°	363.9	361.2	363.3	359.6	360.1
30°	353.7	351.1	353.2	348.9	350.0
32.5°	342.5	339.9	341.5	338.3	339.4
35°	330.8	328.7	329.8	326.0	327.6
37.5°	318.0	316.4	318.0	313.8	314.8
40°	304.7	303.7	305.3	301.0	301.5
42.5°	291.9	290.3	291.9	287.7	288.2
45°	277.6	277.0	277.0	273.3	274.4
47.5°	263.2	262.6	262.6	258.9	260.0
50°	248.3	248.3	247.7	244.0	245.1
52.5°	232.8	232.8	232.3	229.1	230.7
55°	216.8	217.4	216.3	213.1	214.7
57.5°	201.4	201.4	200.3	197.6	198.7
60°	185.4	184.9	183.8	181.1	182.2
62.5°	169.4	168.3	166.7	164.6	165.7
65°	152.4	150.8	149.7	148.1	148.6
67.5°	135.8	133.7	132.1	130.0	131.1
70°	117.7	116.1	114.5	112.9	114.0
72.5°	100.7	99.1	97.5	96.4	97.0
75°	83.6	82.6	81.0	79.9	80.4
77.5°	67.7	66.1	65.5	63.9	64.5
80°	51.1	50.6	50.1	48.5	49.0
82.5°	36.2	36.2	35.2	34.1	34.6
85°	22.4	22.4	21.3	20.2	20.8
87.5°	9.6	9.1	9.1	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)