

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: P395169

Luminaire Tested: **2FSN6-SL1-CA125-L8SCT3-4000K-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: P395169
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-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH 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: 2058.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

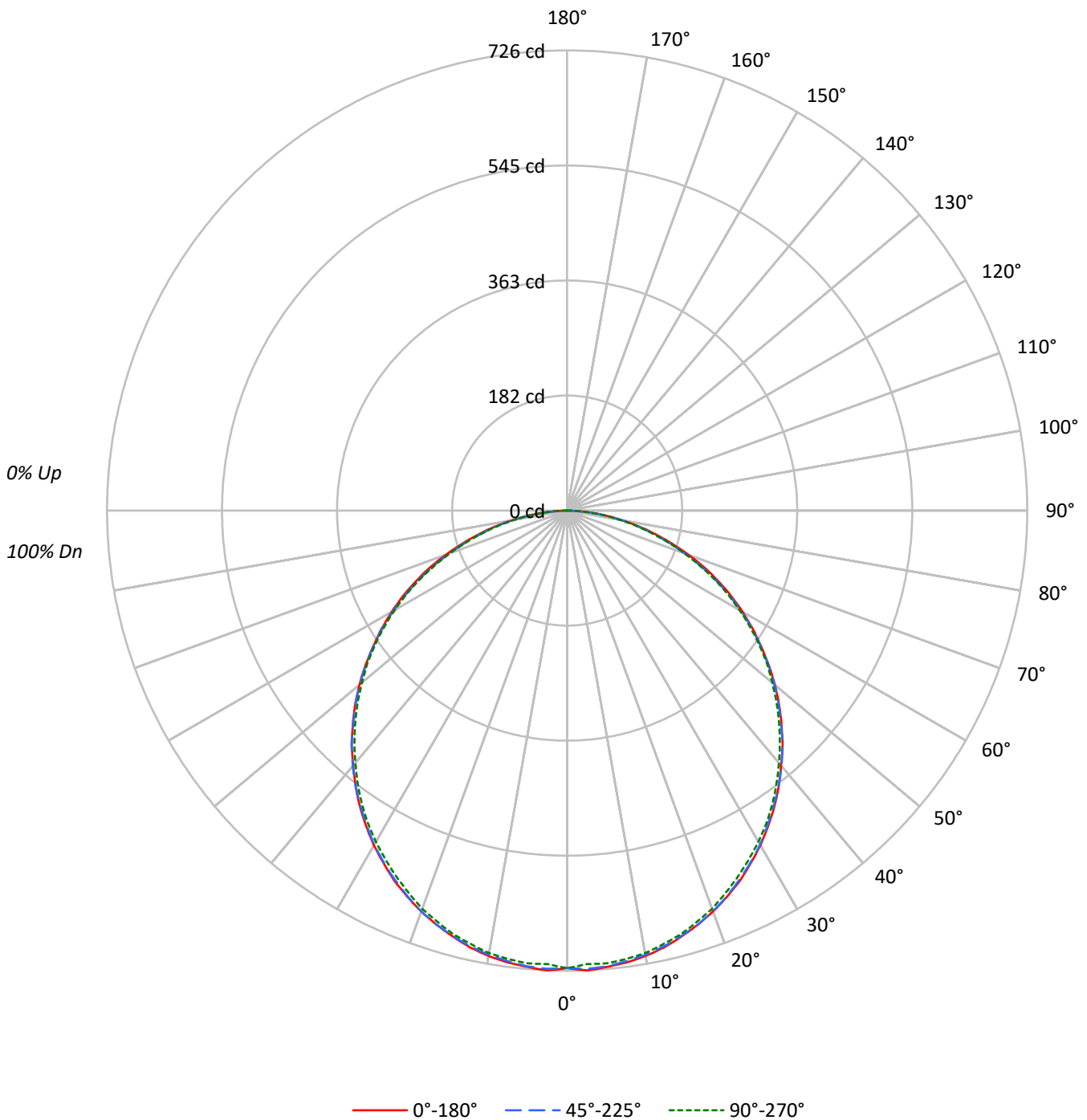
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7768	7768	7768
5°	7808	7798	7748
10°	7799	7778	7748
15°	7756	7746	7715
20°	7710	7710	7657
25°	7656	7634	7569
30°	7578	7567	7498
35°	7493	7469	7420
40°	7380	7392	7302
45°	7282	7269	7199
50°	7165	7150	7073
55°	7013	6996	6944
60°	6878	6820	6760
65°	6688	6571	6525
70°	6386	6212	6184
75°	5997	5806	5768
80°	5467	5349	5238
85°	4767	4533	4421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.3
10°-20°	195.5	9.5
20°-30°	294.9	14.3
30°-40°	354.1	17.2
40°-50°	366.8	17.8
50°-60°	332.3	16.1
60°-70°	255.0	12.4
70°-80°	148.7	7.2
80°-90°	42.4	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°	558.7	27.1
0°-40°	912.8	44.4
0°-60°	1611.9	78.3
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	723	717	722	717	717	69
15°	696	690	695	691	692	196
25°	645	639	643	636	637	297
35°	570	566	568	562	565	356
45°	478	478	478	471	473	369
55°	374	375	373	367	370	335
65°	263	260	258	255	256	260
75°	144	142	140	138	139	153
85°	39	39	37	35	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.7	721.7	721.7	721.7	721.7
2.5°	726.3	719.9	723.6	719.9	716.2
5°	722.6	717.1	721.7	717.1	717.1
7.5°	719.0	713.5	717.1	712.5	713.5
10°	713.5	708.0	711.6	708.0	708.9
12.5°	706.1	699.7	704.3	700.6	700.6
15°	696.0	690.5	695.1	691.4	692.3
17.5°	685.0	679.5	685.0	680.4	680.4
20°	673.1	667.6	673.1	667.6	668.5
22.5°	659.3	654.7	658.4	651.9	652.9
25°	644.6	639.1	642.8	636.3	637.3
27.5°	627.2	622.6	626.2	619.8	620.7
30°	609.7	605.1	608.8	601.4	603.3
32.5°	590.4	585.8	588.6	583.1	584.9
35°	570.2	566.5	568.4	562.0	564.7
37.5°	548.2	545.4	548.2	540.8	542.7
40°	525.2	523.4	526.1	518.8	519.7
42.5°	503.2	500.4	503.2	495.8	496.8
45°	478.4	477.5	477.5	471.1	472.9
47.5°	453.6	452.7	452.7	446.3	448.1
50°	427.9	427.9	427.0	420.5	422.4
52.5°	401.3	401.3	400.3	394.8	397.6
55°	373.7	374.6	372.8	367.3	370.0
57.5°	347.1	347.1	345.3	340.7	342.5
60°	319.5	318.6	316.8	312.2	314.0
62.5°	292.0	290.2	287.4	283.7	285.6
65°	262.6	259.9	258.0	255.3	256.2
67.5°	234.1	230.5	227.7	224.0	225.9
70°	202.9	200.2	197.4	194.7	196.5
72.5°	173.5	170.8	168.0	166.2	167.1
75°	144.2	142.3	139.6	137.7	138.7
77.5°	116.6	113.9	112.9	110.2	111.1
80°	88.2	87.2	86.3	83.6	84.5
82.5°	62.4	62.4	60.6	58.8	59.7
85°	38.6	38.6	36.7	34.9	35.8
87.5°	16.5	15.6	15.6	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)