

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: P395215

Luminaire Tested: **4FSN6-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: P395215
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-CA125-L8SCT3-4000K-LO
Description: 4FT 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: 2209.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

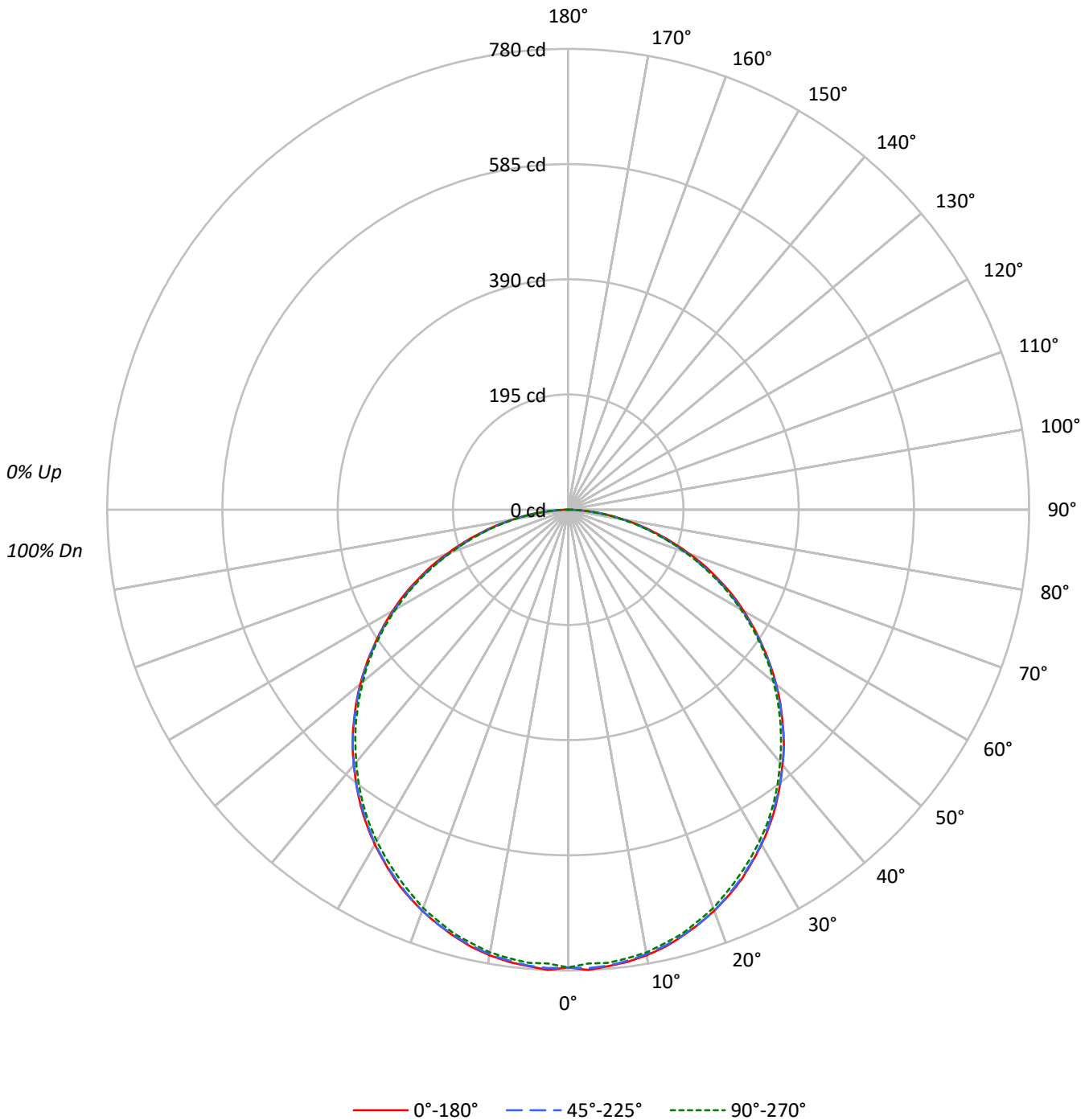
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4169	4169	4169
5°	4191	4185	4159
10°	4185	4174	4158
15°	4163	4157	4140
20°	4137	4137	4109
25°	4109	4097	4062
30°	4067	4061	4024
35°	4022	4008	3982
40°	3961	3968	3920
45°	3908	3901	3863
50°	3846	3837	3796
55°	3764	3755	3727
60°	3692	3660	3629
65°	3590	3528	3502
70°	3427	3334	3319
75°	3217	3115	3094
80°	2932	2870	2811
85°	2556	2433	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.3
10°-20°	209.8	9.5
20°-30°	316.5	14.3
30°-40°	380.1	17.2
40°-50°	393.7	17.8
50°-60°	356.7	16.1
60°-70°	273.8	12.4
70°-80°	159.6	7.2
80°-90°	45.5	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°	599.7	27.1
0°-40°	979.8	44.4
0°-60°	1730.2	78.3
0°-90°	2209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	776	770	775	770	770	74
15°	747	741	746	742	743	211
25°	692	686	690	683	684	319
35°	612	608	610	603	606	383
45°	514	512	512	506	508	396
55°	401	402	400	394	397	359
65°	282	279	277	274	275	279
75°	155	153	150	148	149	164
85°	41	41	39	38	38	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.7	774.7	774.7	774.7	774.7
2.5°	779.6	772.7	776.7	772.7	768.8
5°	775.7	769.8	774.7	769.8	769.8
7.5°	771.7	765.8	769.8	764.8	765.8
10°	765.8	759.9	763.8	759.9	760.9
12.5°	757.9	751.0	756.0	752.0	752.0
15°	747.1	741.2	746.1	742.2	743.1
17.5°	735.3	729.3	735.3	730.3	730.3
20°	722.4	716.5	722.4	716.5	717.5
22.5°	707.7	702.7	706.7	699.8	700.8
25°	691.9	686.0	689.9	683.0	684.0
27.5°	673.2	668.2	672.2	665.3	666.3
30°	654.4	649.5	653.5	645.6	647.5
32.5°	633.7	628.8	631.8	625.9	627.8
35°	612.1	608.1	610.1	603.2	606.1
37.5°	588.4	585.4	588.4	580.5	582.5
40°	563.8	561.8	564.8	556.9	557.9
42.5°	540.1	537.2	540.1	532.2	533.2
45°	513.5	512.5	512.5	505.6	507.6
47.5°	486.9	485.9	485.9	479.0	481.0
50°	459.3	459.3	458.3	451.4	453.4
52.5°	430.7	430.7	429.7	423.8	426.8
55°	401.1	402.1	400.2	394.2	397.2
57.5°	372.6	372.6	370.6	365.7	367.6
60°	343.0	342.0	340.0	335.1	337.1
62.5°	313.4	311.5	308.5	304.6	306.5
65°	281.9	278.9	277.0	274.0	275.0
67.5°	251.3	247.4	244.4	240.5	242.5
70°	217.8	214.9	211.9	208.9	210.9
72.5°	186.3	183.3	180.4	178.4	179.4
75°	154.7	152.8	149.8	147.8	148.8
77.5°	125.2	122.2	121.2	118.3	119.3
80°	94.6	93.6	92.6	89.7	90.7
82.5°	67.0	67.0	65.0	63.1	64.1
85°	41.4	41.4	39.4	37.5	38.4
87.5°	17.7	16.8	16.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)