

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: P395221

Luminaire Tested: **4FSN6-SL1-CP125-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: P395221
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-L8SCT3-3500K-LO
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2137.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

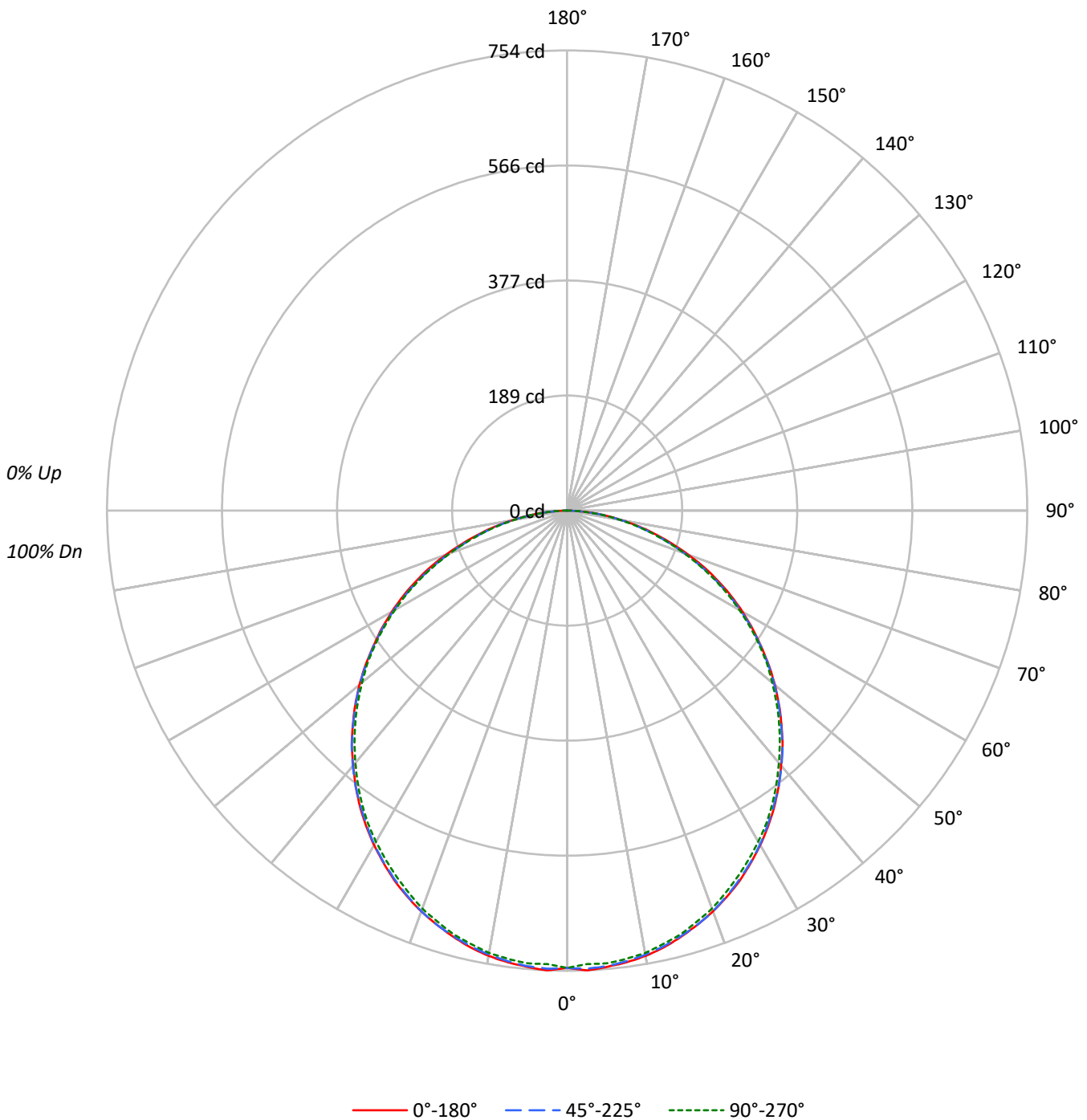
Input Watts (W): 18.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4033	4033	4033
5°	4054	4049	4023
10°	4049	4038	4023
15°	4027	4022	4006
20°	4003	4003	3975
25°	3975	3963	3929
30°	3934	3929	3893
35°	3890	3878	3853
40°	3832	3838	3792
45°	3781	3774	3737
50°	3720	3713	3672
55°	3642	3632	3606
60°	3571	3541	3510
65°	3473	3412	3387
70°	3316	3226	3210
75°	3113	3013	2994
80°	2836	2777	2718
85°	2470	2353	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.3
10°-20°	203.0	9.5
20°-30°	306.2	14.3
30°-40°	367.7	17.2
40°-50°	380.9	17.8
50°-60°	345.1	16.1
60°-70°	264.8	12.4
70°-80°	154.4	7.2
80°-90°	44.0	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°	580.1	27.1
0°-40°	947.8	44.4
0°-60°	1673.8	78.3
0°-90°	2137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	750	745	749	745	745	71
15°	723	717	722	718	719	204
25°	669	664	667	661	662	308
35°	592	588	590	584	586	370
45°	497	496	496	489	491	383
55°	388	389	387	381	384	347
65°	273	270	268	265	266	270
75°	150	148	145	143	144	159
85°	40	40	38	36	37	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.4	749.4	749.4	749.4	749.4
2.5°	754.2	747.5	751.3	747.5	743.7
5°	750.4	744.7	749.4	744.7	744.7
7.5°	746.6	740.9	744.7	739.9	740.9
10°	740.9	735.1	738.9	735.1	736.1
12.5°	733.2	726.6	731.3	727.5	727.5
15°	722.7	717.0	721.8	718.0	718.9
17.5°	711.3	705.6	711.3	706.5	706.5
20°	698.9	693.2	698.9	693.2	694.1
22.5°	684.6	679.8	683.6	677.0	677.9
25°	669.3	663.6	667.4	660.8	661.7
27.5°	651.2	646.5	650.3	643.6	644.6
30°	633.1	628.3	632.2	624.5	626.4
32.5°	613.1	608.3	611.2	605.5	607.4
35°	592.1	588.3	590.2	583.5	586.4
37.5°	569.2	566.4	569.2	561.6	563.5
40°	545.4	543.5	546.3	538.7	539.7
42.5°	522.5	519.6	522.5	514.9	515.8
45°	496.8	495.8	495.8	489.1	491.0
47.5°	471.0	470.1	470.1	463.4	465.3
50°	444.3	444.3	443.4	436.7	438.6
52.5°	416.7	416.7	415.7	410.0	412.9
55°	388.1	389.0	387.1	381.4	384.3
57.5°	360.4	360.4	358.5	353.7	355.6
60°	331.8	330.9	329.0	324.2	326.1
62.5°	303.2	301.3	298.4	294.6	296.5
65°	272.7	269.8	267.9	265.1	266.0
67.5°	243.1	239.3	236.5	232.6	234.6
70°	210.7	207.9	205.0	202.1	204.0
72.5°	180.2	177.3	174.5	172.6	173.5
75°	149.7	147.8	144.9	143.0	144.0
77.5°	121.1	118.2	117.3	114.4	115.4
80°	91.5	90.6	89.6	86.8	87.7
82.5°	64.8	64.8	62.9	61.0	62.0
85°	40.0	40.0	38.1	36.2	37.2
87.5°	17.2	16.2	16.2	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)