

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: P395166

Luminaire Tested: **2FSN6-SL1-CA125-L8SCT3-3500K-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: P395166
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-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH 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: 2041.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

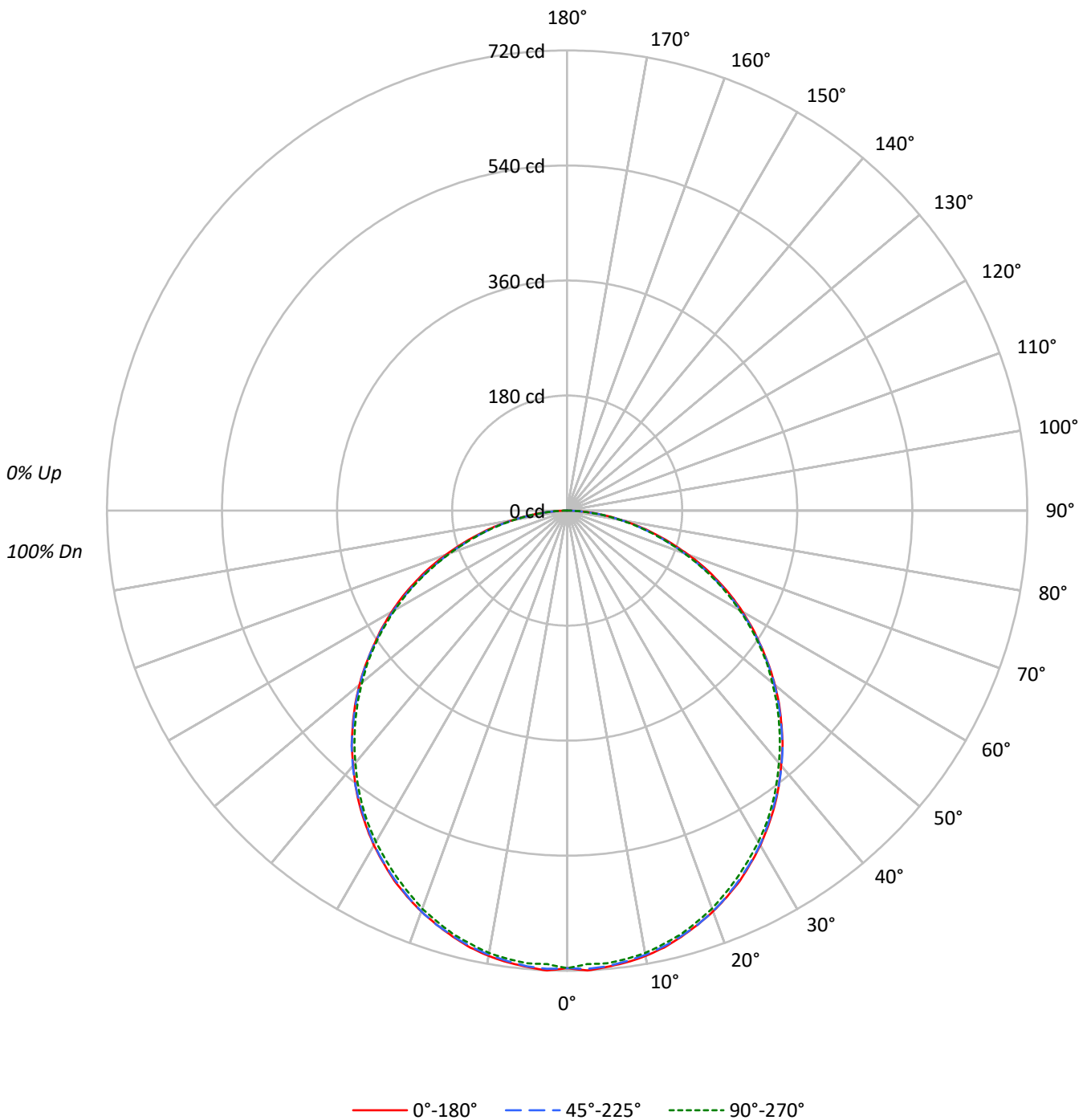
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7705	7705	7705
5°	7744	7734	7685
10°	7734	7714	7684
15°	7692	7682	7651
20°	7646	7646	7593
25°	7593	7571	7506
30°	7516	7505	7436
35°	7431	7407	7359
40°	7319	7332	7242
45°	7222	7208	7139
50°	7107	7092	7015
55°	6955	6938	6887
60°	6822	6764	6704
65°	6632	6518	6472
70°	6335	6162	6134
75°	5947	5756	5718
80°	5418	5306	5195
85°	4718	4495	4384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.3
10°-20°	193.9	9.5
20°-30°	292.4	14.3
30°-40°	351.2	17.2
40°-50°	363.8	17.8
50°-60°	329.5	16.1
60°-70°	252.9	12.4
70°-80°	147.4	7.2
80°-90°	42.0	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°	554.1	27.1
0°-40°	905.3	44.4
0°-60°	1598.6	78.3
0°-90°	2041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	717	711	716	711	711	68
15°	690	685	689	686	687	195
25°	639	634	638	631	632	294
35°	566	562	564	557	560	354
45°	474	474	474	467	469	366
55°	371	372	370	364	367	332
65°	260	258	256	253	254	258
75°	143	141	138	137	138	152
85°	38	38	36	35	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.8	715.8	715.8	715.8	715.8
2.5°	720.3	713.9	717.6	713.9	710.3
5°	716.7	711.2	715.8	711.2	711.2
7.5°	713.0	707.6	711.2	706.7	707.6
10°	707.6	702.1	705.8	702.1	703.0
12.5°	700.3	693.9	698.5	694.8	694.8
15°	690.3	684.8	689.4	685.7	686.6
17.5°	679.3	673.9	679.3	674.8	674.8
20°	667.5	662.0	667.5	662.0	662.9
22.5°	653.8	649.3	652.9	646.6	647.5
25°	639.3	633.8	637.5	631.1	632.0
27.5°	622.0	617.4	621.1	614.7	615.6
30°	604.7	600.1	603.8	596.5	598.3
32.5°	585.5	581.0	583.7	578.3	580.1
35°	565.5	561.9	563.7	557.3	560.0
37.5°	543.7	540.9	543.7	536.4	538.2
40°	520.9	519.1	521.8	514.5	515.4
42.5°	499.0	496.3	499.0	491.7	492.7
45°	474.4	473.5	473.5	467.2	469.0
47.5°	449.9	448.9	448.9	442.6	444.4
50°	424.4	424.4	423.5	417.1	418.9
52.5°	398.0	398.0	397.0	391.6	394.3
55°	370.6	371.5	369.7	364.3	367.0
57.5°	344.2	344.2	342.4	337.8	339.7
60°	316.9	316.0	314.2	309.6	311.4
62.5°	289.6	287.8	285.0	281.4	283.2
65°	260.4	257.7	255.9	253.2	254.1
67.5°	232.2	228.6	225.8	222.2	224.0
70°	201.3	198.5	195.8	193.1	194.9
72.5°	172.1	169.4	166.6	164.8	165.7
75°	143.0	141.2	138.4	136.6	137.5
77.5°	115.7	112.9	112.0	109.3	110.2
80°	87.4	86.5	85.6	82.9	83.8
82.5°	61.9	61.9	60.1	58.3	59.2
85°	38.2	38.2	36.4	34.6	35.5
87.5°	16.4	15.5	15.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)