

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: P395197

Luminaire Tested: **2FSN6-SL1-CP250-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: P395197
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-CP250-L8SCT3-4000K-LO
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 4000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1132.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

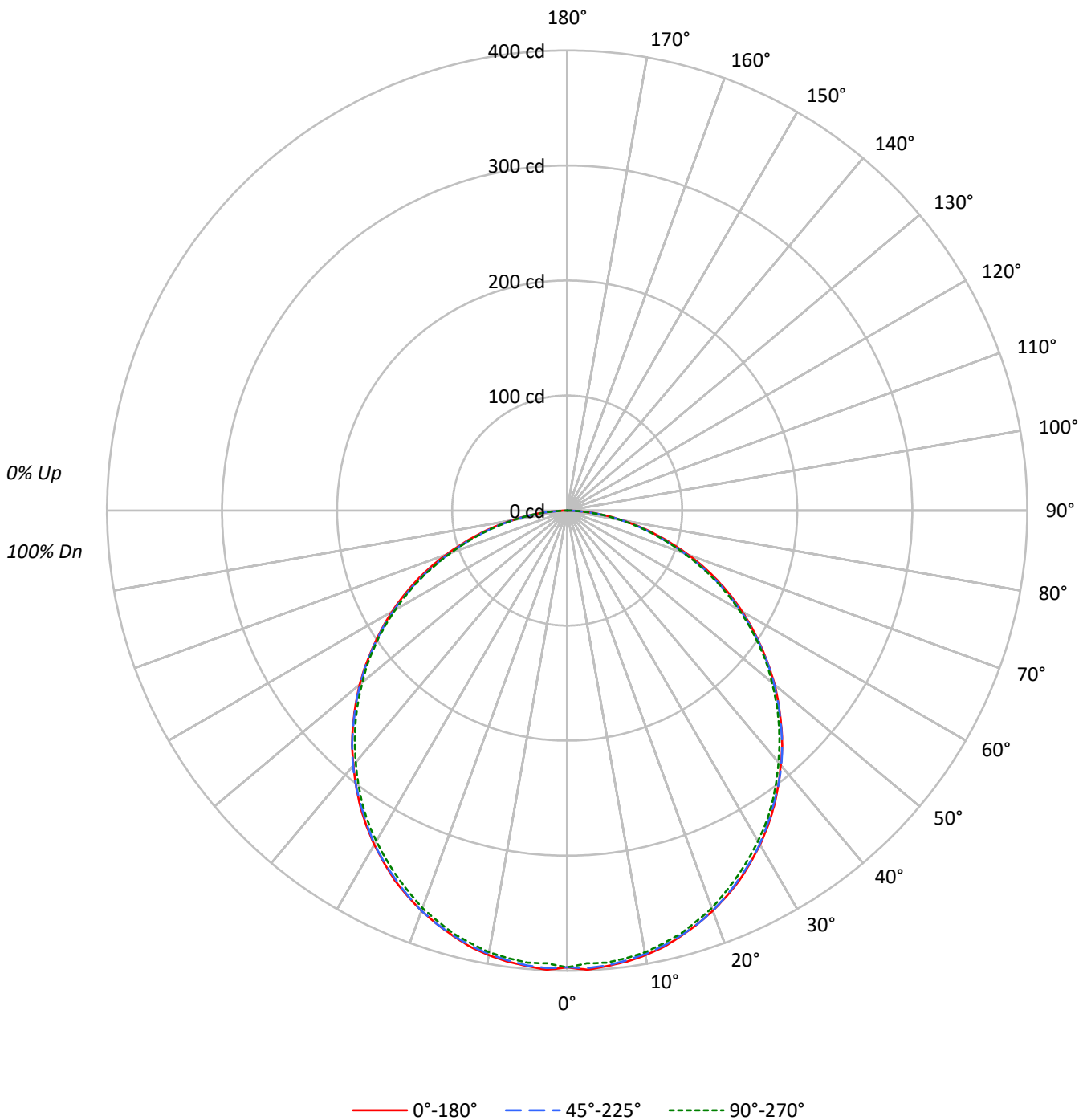
Input Watts (W): 10.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83	83	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69	69	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58	58	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50	50	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43	43	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37	37	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29	29	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4273	4273	4273
5°	4295	4290	4263
10°	4289	4278	4262
15°	4266	4260	4243
20°	4241	4241	4212
25°	4211	4198	4163
30°	4169	4163	4124
35°	4121	4108	4081
40°	4059	4066	4017
45°	4005	3997	3959
50°	3942	3934	3890
55°	3858	3849	3819
60°	3785	3750	3718
65°	3680	3614	3589
70°	3512	3418	3402
75°	3298	3194	3173
80°	3006	2944	2882
85°	2618	2495	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.3
10°-20°	107.5	9.5
20°-30°	162.2	14.3
30°-40°	194.8	17.2
40°-50°	201.8	17.8
50°-60°	182.8	16.1
60°-70°	140.3	12.4
70°-80°	81.8	7.2
80°-90°	23.3	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°	307.3	27.1
0°-40°	502.1	44.4
0°-60°	886.6	78.3
0°-90°	1132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	398	394	397	394	394	38
15°	383	380	382	380	381	108
25°	355	352	354	350	350	163
35°	314	312	313	309	311	196
45°	263	263	263	259	260	203
55°	206	206	205	202	204	184
65°	144	143	142	140	141	143
75°	79	78	77	76	76	84
85°	21	21	20	19	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	397.0	397.0	397.0	397.0	397.0
2.5°	399.5	396.0	398.0	396.0	394.0
5°	397.5	394.5	397.0	394.5	394.5
7.5°	395.5	392.4	394.5	391.9	392.4
10°	392.4	389.4	391.4	389.4	389.9
12.5°	388.4	384.9	387.4	385.4	385.4
15°	382.8	379.8	382.3	380.3	380.8
17.5°	376.8	373.8	376.8	374.3	374.3
20°	370.2	367.2	370.2	367.2	367.7
22.5°	362.6	360.1	362.1	358.6	359.1
25°	354.6	351.5	353.5	350.0	350.5
27.5°	345.0	342.4	344.5	340.9	341.4
30°	335.4	332.8	334.9	330.8	331.8
32.5°	324.8	322.2	323.8	320.7	321.7
35°	313.6	311.6	312.6	309.1	310.6
37.5°	301.5	300.0	301.5	297.5	298.5
40°	288.9	287.9	289.4	285.4	285.9
42.5°	276.8	275.3	276.8	272.7	273.2
45°	263.1	262.6	262.6	259.1	260.1
47.5°	249.5	249.0	249.0	245.5	246.5
50°	235.4	235.4	234.9	231.3	232.3
52.5°	220.7	220.7	220.2	217.2	218.7
55°	205.6	206.1	205.1	202.0	203.5
57.5°	190.9	190.9	189.9	187.4	188.4
60°	175.8	175.3	174.2	171.7	172.7
62.5°	160.6	159.6	158.1	156.1	157.1
65°	144.5	142.9	141.9	140.4	140.9
67.5°	128.8	126.8	125.3	123.2	124.2
70°	111.6	110.1	108.6	107.1	108.1
72.5°	95.5	93.9	92.4	91.4	91.9
75°	79.3	78.3	76.8	75.8	76.3
77.5°	64.1	62.6	62.1	60.6	61.1
80°	48.5	48.0	47.5	46.0	46.5
82.5°	34.3	34.3	33.3	32.3	32.8
85°	21.2	21.2	20.2	19.2	19.7
87.5°	9.1	8.6	8.6	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)