

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: P395191

Luminaire Tested: **2FSN6-SL1-CP250-L8SCT3-3000K-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: P395191  
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-L8SCT3-3000K-LO  
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1088.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

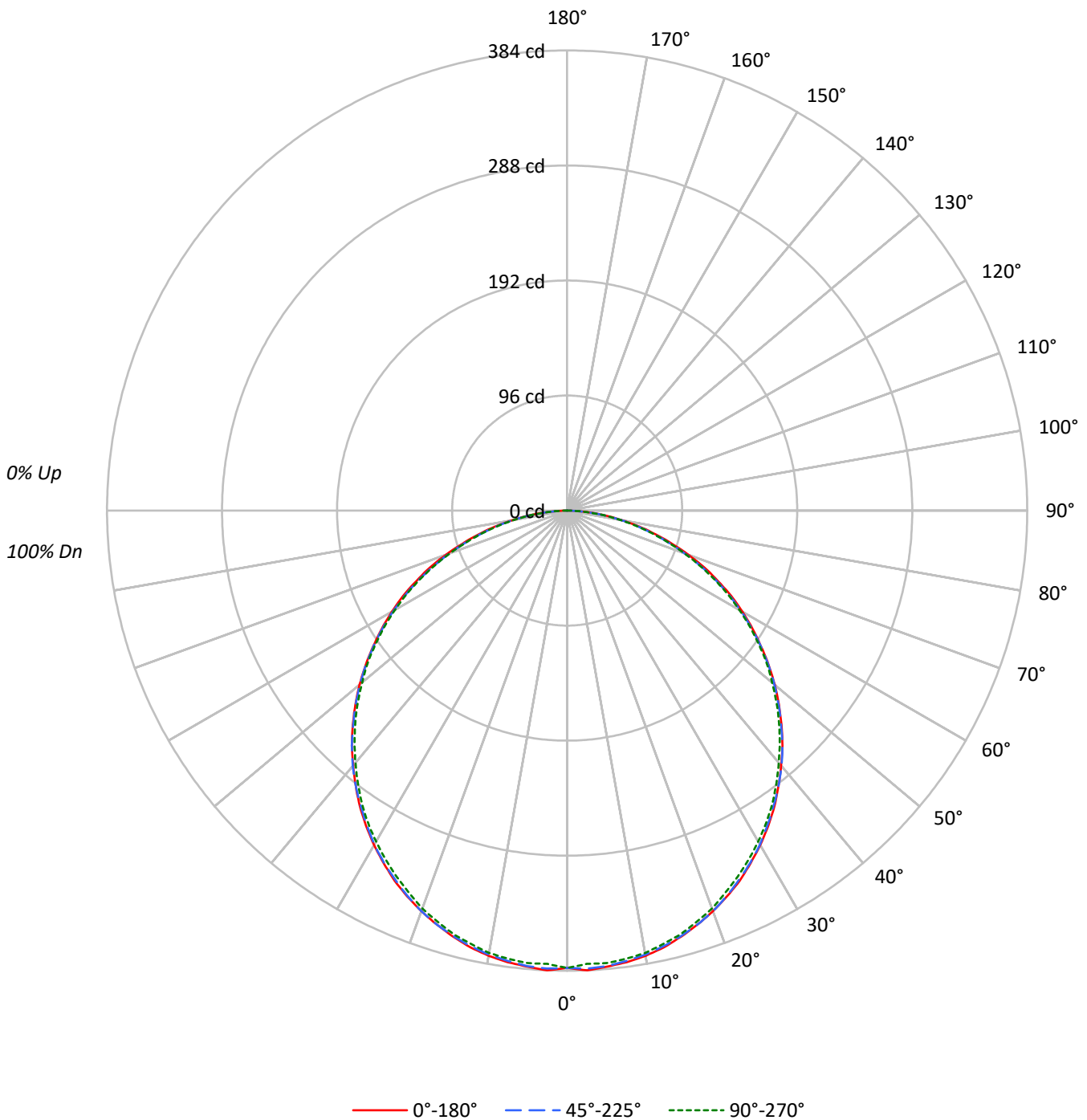
Input Watts (W): 10.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4108	4108	4108
5°	4128	4123	4096
10°	4123	4112	4097
15°	4101	4095	4079
20°	4076	4076	4048
25°	4048	4036	4001
30°	4006	4000	3964
35°	3962	3949	3922
40°	3902	3909	3861
45°	3850	3842	3806
50°	3788	3779	3739
55°	3708	3699	3671
60°	3636	3606	3574
65°	3535	3474	3449
70°	3377	3286	3270
75°	3169	3069	3048
80°	2889	2827	2771
85°	2519	2396	2334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.1	3.3
10°-20°	103.3	9.5
20°-30°	155.9	14.3
30°-40°	187.2	17.2
40°-50°	193.9	17.8
50°-60°	175.7	16.1
60°-70°	134.8	12.4
70°-80°	78.6	7.2
80°-90°	22.4	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°	295.3	27.1
0°-40°	482.6	44.4
0°-60°	852.1	78.3
0°-90°	1088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	382	382	382	382	382	
5°	382	379	382	379	379	36
15°	368	365	368	366	366	104
25°	341	338	340	336	337	157
35°	302	300	300	297	298	188
45°	253	252	252	249	250	195
55°	198	198	197	194	196	177
65°	139	137	136	135	135	137
75°	76	75	74	73	73	81
85°	20	20	19	18	19	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	381.6	381.6	381.6	381.6	381.6
2.5°	384.0	380.6	382.5	380.6	378.6
5°	382.0	379.1	381.6	379.1	379.1
7.5°	380.1	377.2	379.1	376.7	377.2
10°	377.2	374.3	376.2	374.3	374.8
12.5°	373.3	369.9	372.3	370.4	370.4
15°	368.0	365.1	367.5	365.5	366.0
17.5°	362.1	359.2	362.1	359.7	359.7
20°	355.8	352.9	355.8	352.9	353.4
22.5°	348.5	346.1	348.1	344.7	345.1
25°	340.8	337.9	339.8	336.4	336.9
27.5°	331.6	329.1	331.1	327.7	328.2
30°	322.3	319.9	321.8	318.0	318.9
32.5°	312.1	309.7	311.2	308.3	309.2
35°	301.5	299.5	300.5	297.1	298.5
37.5°	289.8	288.4	289.8	285.9	286.9
40°	277.7	276.7	278.2	274.3	274.8
42.5°	266.0	264.6	266.0	262.1	262.6
45°	252.9	252.4	252.4	249.0	250.0
47.5°	239.8	239.3	239.3	235.9	236.9
50°	226.2	226.2	225.7	222.3	223.3
52.5°	212.1	212.1	211.7	208.7	210.2
55°	197.6	198.1	197.1	194.2	195.6
57.5°	183.5	183.5	182.5	180.1	181.1
60°	168.9	168.4	167.5	165.0	166.0
62.5°	154.4	153.4	151.9	150.0	151.0
65°	138.8	137.4	136.4	135.0	135.4
67.5°	123.8	121.8	120.4	118.4	119.4
70°	107.3	105.8	104.4	102.9	103.9
72.5°	91.7	90.3	88.8	87.9	88.4
75°	76.2	75.2	73.8	72.8	73.3
77.5°	61.7	60.2	59.7	58.3	58.7
80°	46.6	46.1	45.6	44.2	44.7
82.5°	33.0	33.0	32.0	31.1	31.6
85°	20.4	20.4	19.4	18.4	18.9
87.5°	8.7	8.3	8.3	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)