

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: P395193

Luminaire Tested: **2FSN6-SL1-CP250-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: P395193  
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-L8SCT3-3500K-HI  
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1934.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

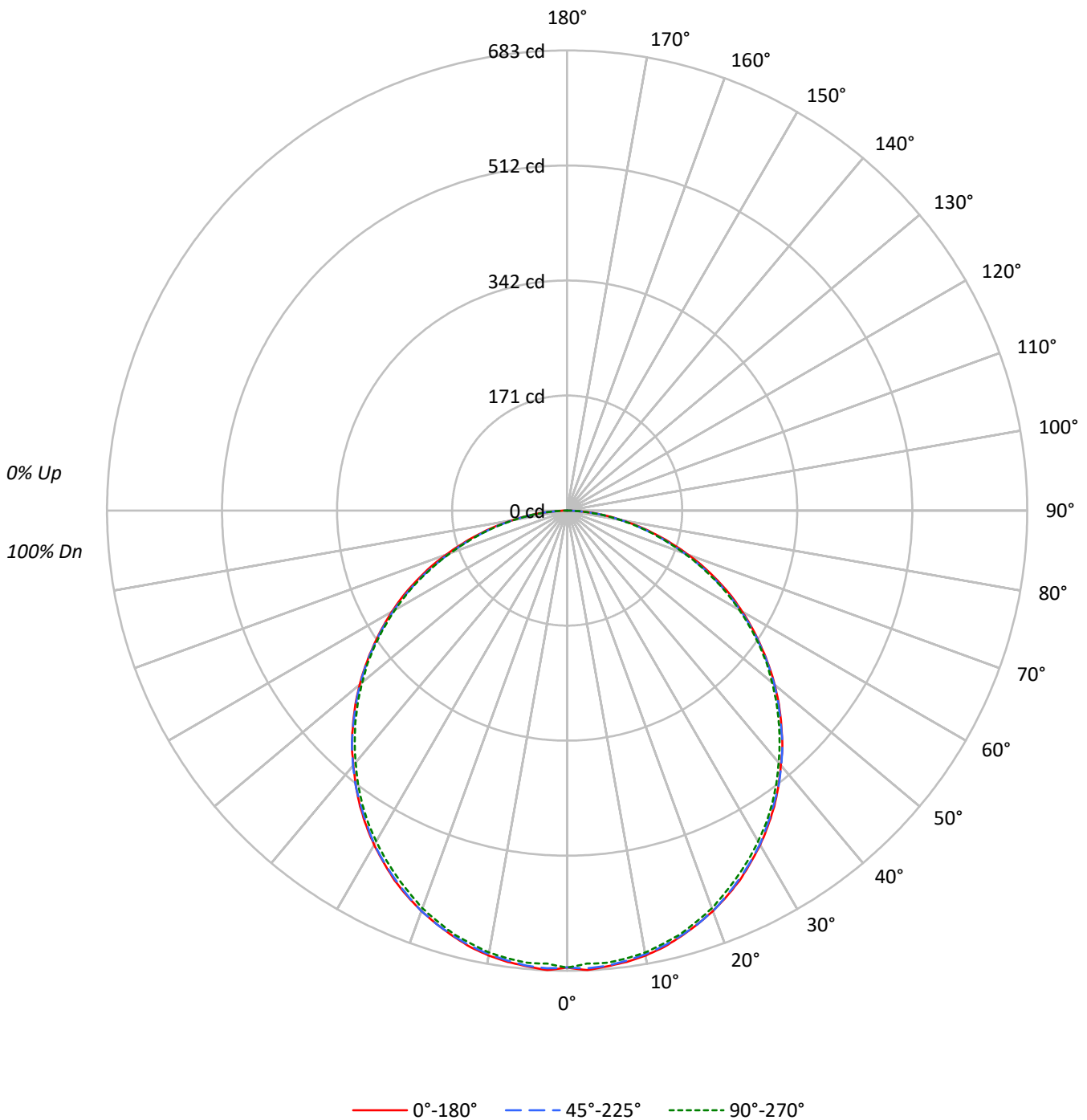
Input Watts (W): 19.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7300	7300	7300
5°	7338	7328	7282
10°	7329	7310	7282
15°	7289	7279	7250
20°	7245	7245	7196
25°	7195	7174	7113
30°	7122	7111	7046
35°	7042	7018	6974
40°	6936	6947	6863
45°	6844	6830	6765
50°	6733	6720	6646
55°	6591	6574	6527
60°	6465	6409	6353
65°	6286	6176	6133
70°	6002	5838	5813
75°	5635	5456	5419
80°	5133	5027	4922
85°	4471	4261	4162



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	3.3
10°-20°	183.7	9.5
20°-30°	277.1	14.3
30°-40°	332.8	17.2
40°-50°	344.7	17.8
50°-60°	312.3	16.1
60°-70°	239.7	12.4
70°-80°	139.7	7.2
80°-90°	39.8	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°	525.0	27.1
0°-40°	857.8	44.4
0°-60°	1514.8	78.3
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	679	674	678	674	674	65
15°	654	649	653	650	651	185
25°	606	601	604	598	599	279
35°	536	532	534	528	531	335
45°	450	449	449	443	444	347
55°	351	352	350	345	348	314
65°	247	244	242	240	241	244
75°	136	134	131	129	130	144
85°	36	36	34	33	34	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	678.2	678.2	678.2	678.2	678.2
2.5°	682.6	676.5	680.0	676.5	673.1
5°	679.1	673.9	678.2	673.9	673.9
7.5°	675.7	670.5	673.9	669.6	670.5
10°	670.5	665.3	668.8	665.3	666.2
12.5°	663.6	657.5	661.8	658.4	658.4
15°	654.1	648.9	653.2	649.8	650.6
17.5°	643.7	638.5	643.7	639.4	639.4
20°	632.5	627.3	632.5	627.3	628.2
22.5°	619.6	615.3	618.7	612.7	613.5
25°	605.8	600.6	604.0	598.0	598.9
27.5°	589.4	585.0	588.5	582.5	583.3
30°	573.0	568.7	572.1	565.2	566.9
32.5°	554.8	550.5	553.1	547.9	549.7
35°	535.9	532.4	534.1	528.1	530.7
37.5°	515.2	512.6	515.2	508.3	510.0
40°	493.6	491.9	494.4	487.5	488.4
42.5°	472.9	470.3	472.9	466.0	466.8
45°	449.6	448.7	448.7	442.7	444.4
47.5°	426.3	425.4	425.4	419.4	421.1
50°	402.1	402.1	401.3	395.2	396.9
52.5°	377.1	377.1	376.2	371.0	373.6
55°	351.2	352.1	350.3	345.2	347.8
57.5°	326.2	326.2	324.5	320.1	321.9
60°	300.3	299.4	297.7	293.4	295.1
62.5°	274.4	272.7	270.1	266.6	268.4
65°	246.8	244.2	242.5	239.9	240.8
67.5°	220.0	216.6	214.0	210.5	212.3
70°	190.7	188.1	185.5	182.9	184.7
72.5°	163.1	160.5	157.9	156.2	157.0
75°	135.5	133.8	131.2	129.4	130.3
77.5°	109.6	107.0	106.1	103.5	104.4
80°	82.8	82.0	81.1	78.5	79.4
82.5°	58.7	58.7	57.0	55.2	56.1
85°	36.2	36.2	34.5	32.8	33.7
87.5°	15.5	14.7	14.7	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)