

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: P395187

Luminaire Tested: **2FSN6-SL1-CP187-L8SCT3-4000K-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: P395187  
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-CP187-L8SCT3-4000K-HI  
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1984.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

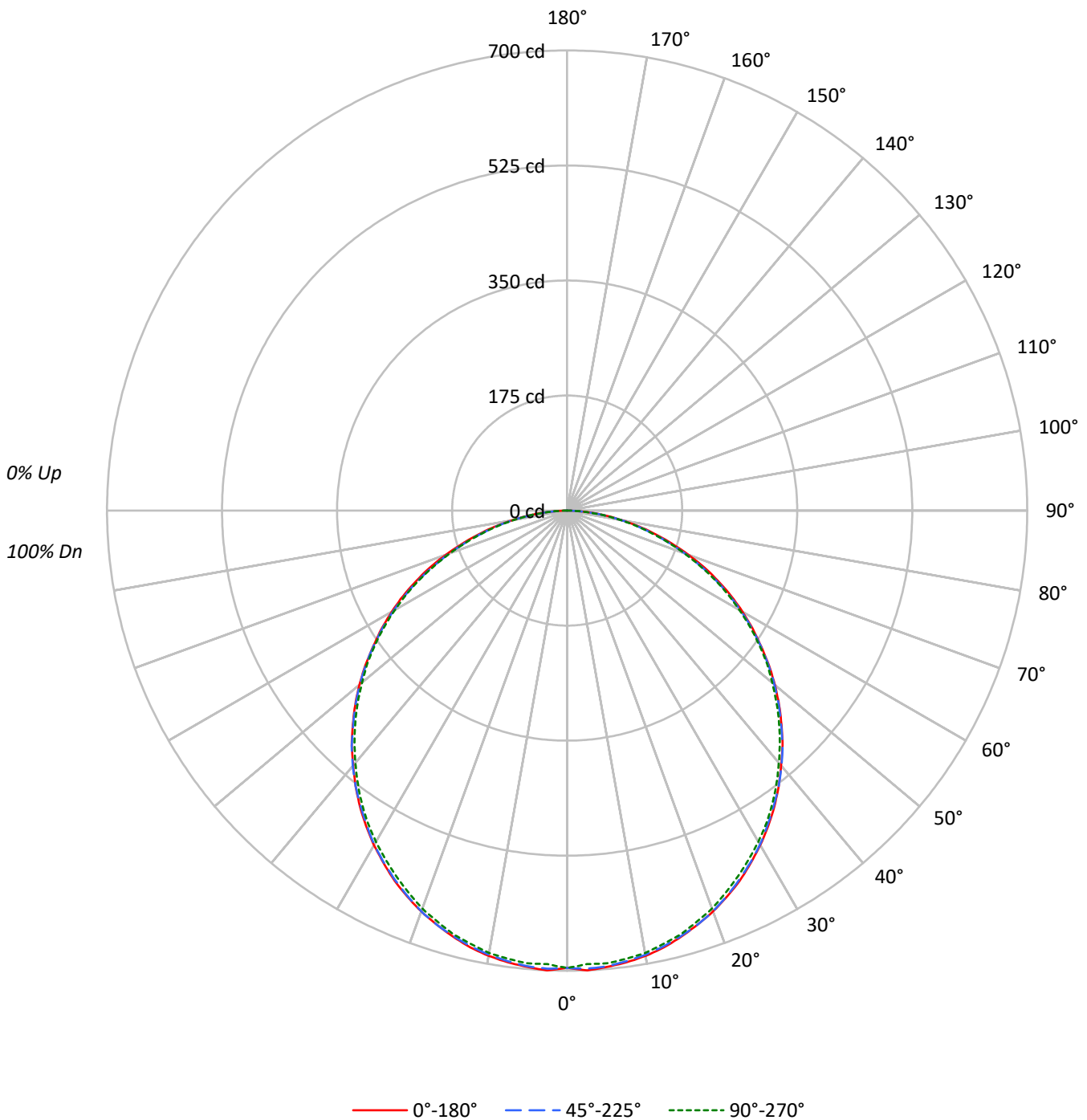
Input Watts (W): 19.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7490	7490	7490
5°	7528	7518	7471
10°	7518	7498	7470
15°	7477	7467	7438
20°	7433	7433	7381
25°	7380	7359	7296
30°	7306	7295	7229
35°	7223	7200	7154
40°	7114	7127	7040
45°	7021	7007	6940
50°	6908	6893	6819
55°	6762	6745	6694
60°	6633	6575	6516
65°	6449	6334	6291
70°	6156	5989	5961
75°	5781	5598	5560
80°	5269	5157	5046
85°	4594	4372	4261



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	3.3
10°-20°	188.4	9.5
20°-30°	284.3	14.3
30°-40°	341.4	17.2
40°-50°	353.6	17.8
50°-60°	320.3	16.1
60°-70°	245.9	12.4
70°-80°	143.3	7.2
80°-90°	40.9	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°	538.6	27.1
0°-40°	880.0	44.4
0°-60°	1553.9	78.3
0°-90°	1984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	691	696	691	691	66
15°	671	666	670	667	668	189
25°	621	616	620	614	614	286
35°	550	546	548	542	544	344
45°	461	460	460	454	456	356
55°	360	361	359	354	357	323
65°	253	250	249	246	247	250
75°	139	137	135	133	134	147
85°	37	37	35	34	34	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.8	695.8	695.8	695.8	695.8
2.5°	700.2	694.0	697.5	694.0	690.5
5°	696.7	691.4	695.8	691.4	691.4
7.5°	693.1	687.8	691.4	686.9	687.8
10°	687.8	682.5	686.0	682.5	683.4
12.5°	680.7	674.5	679.0	675.4	675.4
15°	671.0	665.7	670.1	666.6	667.5
17.5°	660.4	655.1	660.4	655.9	655.9
20°	648.9	643.6	648.9	643.6	644.4
22.5°	635.6	631.2	634.7	628.5	629.4
25°	621.4	616.1	619.6	613.5	614.3
27.5°	604.6	600.2	603.7	597.5	598.4
30°	587.8	583.4	586.9	579.8	581.6
32.5°	569.2	564.8	567.4	562.1	563.9
35°	549.7	546.2	547.9	541.8	544.4
37.5°	528.5	525.8	528.5	521.4	523.2
40°	506.3	504.6	507.2	500.1	501.0
42.5°	485.1	482.4	485.1	478.0	478.9
45°	461.2	460.3	460.3	454.1	455.9
47.5°	437.3	436.4	436.4	430.2	432.0
50°	412.5	412.5	411.6	405.4	407.2
52.5°	386.8	386.8	386.0	380.6	383.3
55°	360.3	361.2	359.4	354.1	356.7
57.5°	334.6	334.6	332.8	328.4	330.2
60°	308.1	307.2	305.4	301.0	302.7
62.5°	281.5	279.7	277.1	273.5	275.3
65°	253.2	250.5	248.7	246.1	247.0
67.5°	225.7	222.2	219.5	216.0	217.8
70°	195.6	193.0	190.3	187.7	189.4
72.5°	167.3	164.6	162.0	160.2	161.1
75°	139.0	137.2	134.6	132.8	133.7
77.5°	112.4	109.8	108.9	106.2	107.1
80°	85.0	84.1	83.2	80.6	81.4
82.5°	60.2	60.2	58.4	56.7	57.5
85°	37.2	37.2	35.4	33.6	34.5
87.5°	15.9	15.0	15.0	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)