

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: P395181

Luminaire Tested: **2FSN6-SL1-CP187-L8SCT3-3000K-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: P395181
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-L8SCT3-3000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

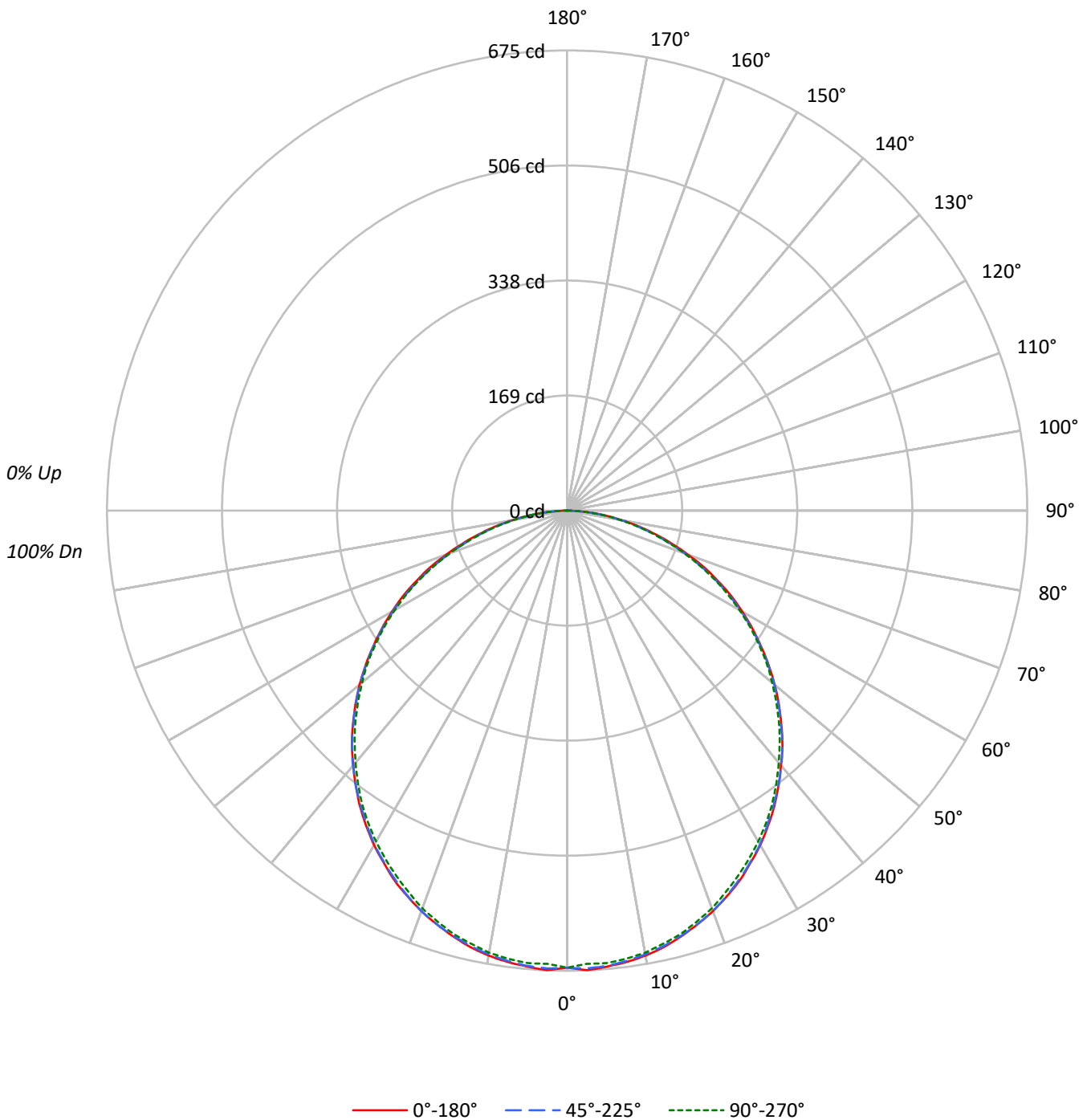
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7217	7217	7217
5°	7254	7245	7199
10°	7245	7226	7198
15°	7205	7197	7168
20°	7163	7163	7113
25°	7113	7093	7031
30°	7041	7030	6967
35°	6962	6939	6893
40°	6857	6868	6784
45°	6766	6753	6687
50°	6656	6643	6571
55°	6516	6501	6452
60°	6392	6336	6282
65°	6215	6105	6062
70°	5932	5772	5747
75°	5569	5394	5357
80°	5077	4971	4866
85°	4421	4211	4113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.3
10°-20°	181.6	9.5
20°-30°	274.0	14.3
30°-40°	329.0	17.2
40°-50°	340.8	17.8
50°-60°	308.7	16.1
60°-70°	237.0	12.4
70°-80°	138.1	7.2
80°-90°	39.4	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°	519.0	27.1
0°-40°	848.1	44.4
0°-60°	1497.6	78.3
0°-90°	1912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	671	666	670	666	666	64
15°	647	642	646	642	643	183
25°	599	594	597	591	592	276
35°	530	526	528	522	525	331
45°	444	444	444	438	439	343
55°	347	348	346	341	344	311
65°	244	241	240	237	238	241
75°	134	132	130	128	129	142
85°	36	36	34	32	33	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.5	670.5	670.5	670.5	670.5
2.5°	674.8	668.8	672.2	668.8	665.4
5°	671.4	666.3	670.5	666.3	666.3
7.5°	668.0	662.9	666.3	662.0	662.9
10°	662.9	657.7	661.1	657.7	658.6
12.5°	656.0	650.1	654.3	650.9	650.9
15°	646.6	641.5	645.8	642.4	643.2
17.5°	636.4	631.3	636.4	632.1	632.1
20°	625.3	620.2	625.3	620.2	621.0
22.5°	612.5	608.3	611.7	605.7	606.5
25°	598.9	593.7	597.2	591.2	592.0
27.5°	582.7	578.4	581.8	575.8	576.7
30°	566.5	562.2	565.6	558.8	560.5
32.5°	548.5	544.3	546.8	541.7	543.4
35°	529.8	526.4	528.1	522.1	524.6
37.5°	509.3	506.7	509.3	502.5	504.2
40°	488.0	486.3	488.8	482.0	482.8
42.5°	467.5	464.9	467.5	460.7	461.5
45°	444.5	443.6	443.6	437.6	439.3
47.5°	421.4	420.6	420.6	414.6	416.3
50°	397.5	397.5	396.7	390.7	392.4
52.5°	372.8	372.8	371.9	366.8	369.4
55°	347.2	348.1	346.4	341.2	343.8
57.5°	322.5	322.5	320.8	316.5	318.2
60°	296.9	296.0	294.3	290.1	291.8
62.5°	271.3	269.6	267.0	263.6	265.3
65°	244.0	241.4	239.7	237.2	238.0
67.5°	217.5	214.1	211.6	208.2	209.9
70°	188.5	186.0	183.4	180.9	182.6
72.5°	161.2	158.7	156.1	154.4	155.3
75°	133.9	132.2	129.7	128.0	128.8
77.5°	108.3	105.8	104.9	102.4	103.2
80°	81.9	81.0	80.2	77.6	78.5
82.5°	58.0	58.0	56.3	54.6	55.5
85°	35.8	35.8	34.1	32.4	33.3
87.5°	15.4	14.5	14.5	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)