

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: P395184

Luminaire Tested: **2FSN6-SL1-CP187-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: P395184
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-L8SCT3-3500K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1968.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

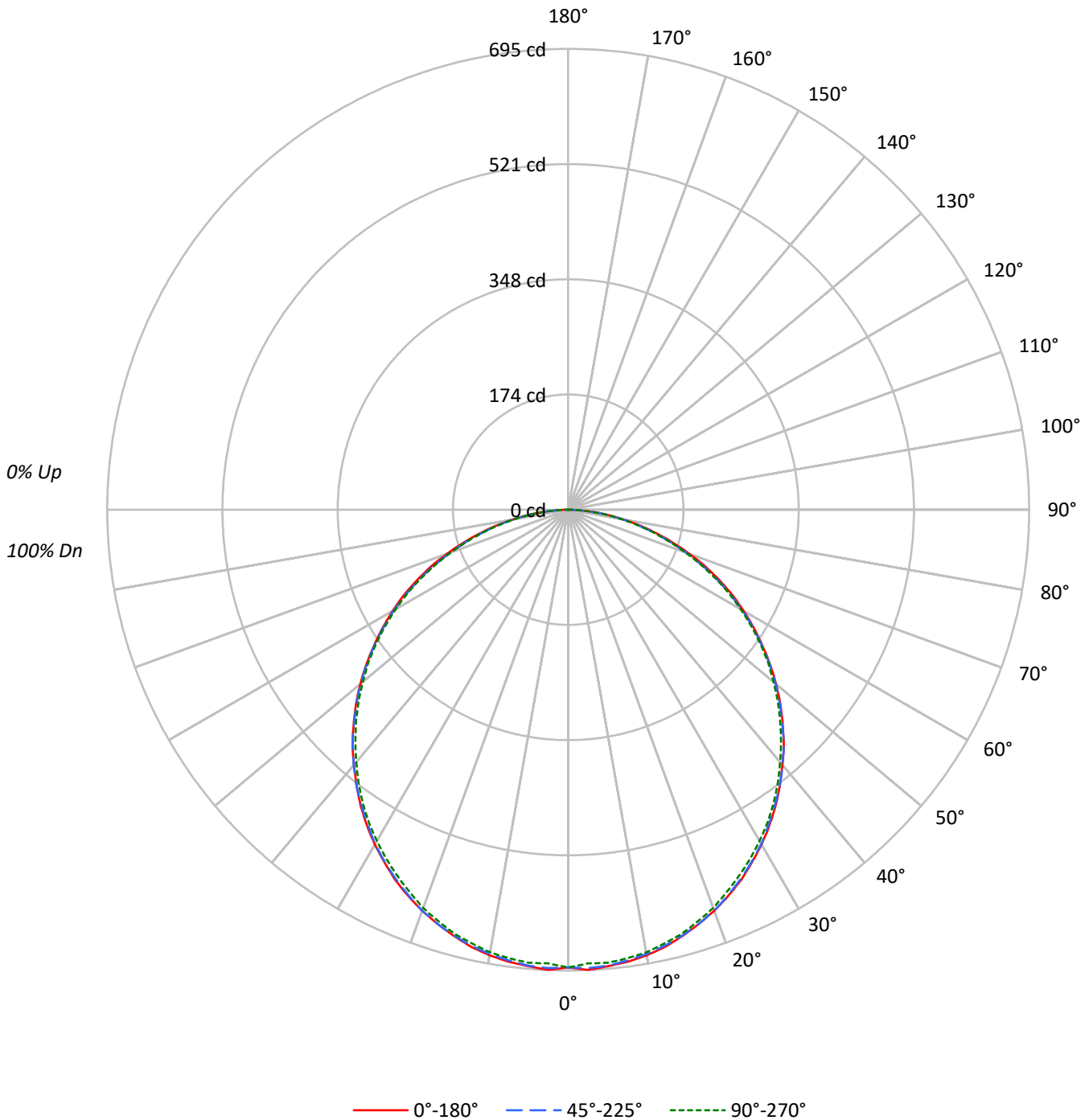
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7429	7429	7429
5°	7466	7458	7410
10°	7458	7438	7409
15°	7417	7407	7378
20°	7372	7372	7322
25°	7321	7301	7238
30°	7246	7236	7170
35°	7165	7142	7096
40°	7058	7069	6983
45°	6964	6951	6884
50°	6852	6837	6764
55°	6707	6690	6641
60°	6579	6521	6465
65°	6395	6283	6240
70°	6109	5942	5914
75°	5735	5552	5515
80°	5225	5114	5009
85°	4557	4335	4224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.3
10°-20°	186.9	9.5
20°-30°	282.0	14.3
30°-40°	338.7	17.2
40°-50°	350.8	17.8
50°-60°	317.8	16.1
60°-70°	243.9	12.4
70°-80°	142.2	7.2
80°-90°	40.5	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°	534.2	27.1
0°-40°	872.9	44.4
0°-60°	1541.4	78.3
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	691	686	690	686	686	66
15°	666	660	665	661	662	188
25°	616	611	615	608	609	284
35°	545	542	544	537	540	341
45°	458	457	457	450	452	353
55°	357	358	356	351	354	320
65°	251	248	247	244	245	248
75°	138	136	134	132	133	146
85°	37	37	35	33	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.2	690.2	690.2	690.2	690.2
2.5°	694.6	688.4	691.9	688.4	684.9
5°	691.0	685.8	690.2	685.8	685.8
7.5°	687.5	682.3	685.8	681.4	682.3
10°	682.3	677.0	680.5	677.0	677.9
12.5°	675.2	669.1	673.5	670.0	670.0
15°	665.6	660.3	664.7	661.2	662.1
17.5°	655.0	649.8	655.0	650.7	650.7
20°	643.6	638.4	643.6	638.4	639.2
22.5°	630.5	626.1	629.6	623.4	624.3
25°	616.4	611.1	614.7	608.5	609.4
27.5°	599.7	595.3	598.8	592.7	593.6
30°	583.0	578.7	582.2	575.1	576.9
32.5°	564.6	560.2	562.8	557.6	559.3
35°	545.3	541.8	543.5	537.4	540.0
37.5°	524.2	521.6	524.2	517.2	518.9
40°	502.3	500.5	503.1	496.1	497.0
42.5°	481.2	478.6	481.2	474.2	475.0
45°	457.5	456.6	456.6	450.5	452.2
47.5°	433.8	432.9	432.9	426.7	428.5
50°	409.2	409.2	408.3	402.2	403.9
52.5°	383.7	383.7	382.8	377.6	380.2
55°	357.4	358.3	356.5	351.2	353.9
57.5°	331.9	331.9	330.2	325.8	327.5
60°	305.6	304.7	302.9	298.5	300.3
62.5°	279.2	277.5	274.8	271.3	273.1
65°	251.1	248.5	246.7	244.1	245.0
67.5°	223.9	220.4	217.8	214.3	216.0
70°	194.1	191.4	188.8	186.2	187.9
72.5°	166.0	163.3	160.7	158.9	159.8
75°	137.9	136.1	133.5	131.7	132.6
77.5°	111.5	108.9	108.0	105.4	106.2
80°	84.3	83.4	82.5	79.9	80.8
82.5°	59.7	59.7	58.0	56.2	57.1
85°	36.9	36.9	35.1	33.4	34.2
87.5°	15.8	14.9	14.9	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)