

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: P395233

Luminaire Tested: **4FSN6-SL1-CP187-L8SCT3-4000K-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: P395233
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: 4FSN6-SL1-CP187-L8SCT3-4000K-LO
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW 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: 2130.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

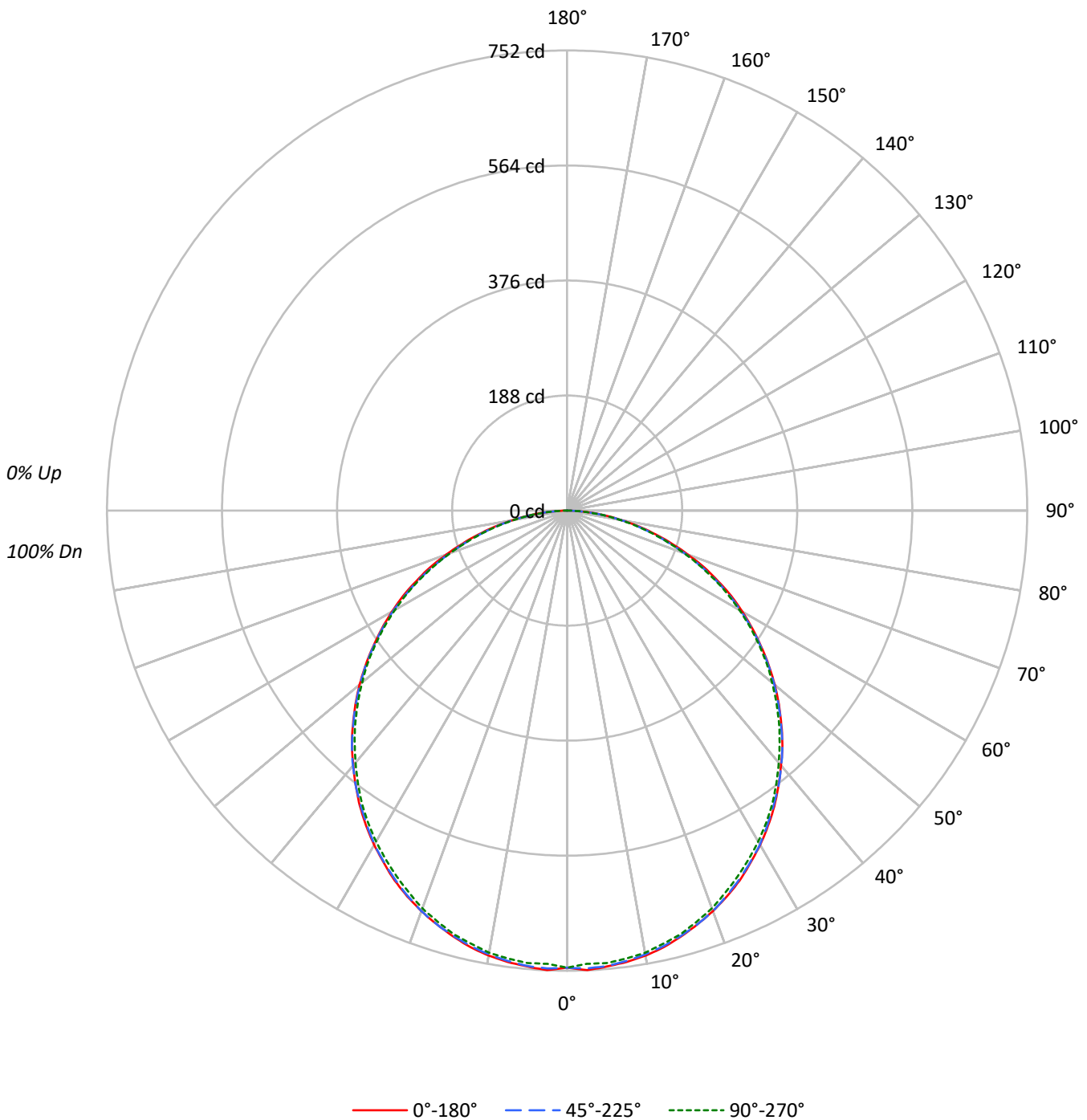
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4020	4020	4020
5°	4041	4036	4010
10°	4035	4025	4010
15°	4014	4008	3993
20°	3990	3990	3963
25°	3961	3950	3916
30°	3921	3916	3880
35°	3878	3865	3840
40°	3819	3826	3779
45°	3768	3761	3725
50°	3708	3700	3661
55°	3629	3620	3594
60°	3560	3529	3498
65°	3461	3400	3376
70°	3305	3215	3201
75°	3103	3005	2984
80°	2827	2768	2709
85°	2464	2347	2291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.3
10°-20°	202.3	9.5
20°-30°	305.2	14.3
30°-40°	366.5	17.2
40°-50°	379.6	17.8
50°-60°	343.9	16.1
60°-70°	264.0	12.4
70°-80°	153.9	7.2
80°-90°	43.9	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°	578.2	27.1
0°-40°	944.8	44.4
0°-60°	1668.3	78.3
0°-90°	2130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	748	742	747	742	742	71
15°	720	715	719	716	717	203
25°	667	661	665	659	660	307
35°	590	586	588	582	584	369
45°	495	494	494	488	489	382
55°	387	388	386	380	383	346
65°	272	269	267	264	265	269
75°	149	147	144	143	144	158
85°	40	40	38	36	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	751.7	745.1	748.9	745.1	741.3
5°	747.9	742.2	747.0	742.2	742.2
7.5°	744.1	738.4	742.2	737.5	738.4
10°	738.4	732.7	736.5	732.7	733.7
12.5°	730.8	724.2	728.9	725.1	725.1
15°	720.4	714.7	719.4	715.6	716.6
17.5°	709.0	703.3	709.0	704.2	704.2
20°	696.6	690.9	696.6	690.9	691.9
22.5°	682.4	677.6	681.4	674.8	675.7
25°	667.1	661.4	665.2	658.6	659.5
27.5°	649.1	644.3	648.1	641.5	642.4
30°	631.0	626.3	630.1	622.5	624.4
32.5°	611.1	606.3	609.2	603.5	605.4
35°	590.2	586.4	588.3	581.6	584.5
37.5°	567.4	564.5	567.4	559.8	561.7
40°	543.6	541.7	544.6	537.0	537.9
42.5°	520.8	517.9	520.8	513.2	514.1
45°	495.1	494.2	494.2	487.5	489.4
47.5°	469.5	468.5	468.5	461.9	463.8
50°	442.9	442.9	441.9	435.3	437.2
52.5°	415.3	415.3	414.4	408.7	411.5
55°	386.8	387.7	385.8	380.1	383.0
57.5°	359.2	359.2	357.3	352.6	354.5
60°	330.7	329.8	327.9	323.1	325.0
62.5°	302.2	300.3	297.5	293.7	295.6
65°	271.8	269.0	267.0	264.2	265.1
67.5°	242.3	238.5	235.7	231.9	233.8
70°	210.0	207.2	204.3	201.5	203.4
72.5°	179.6	176.8	173.9	172.0	173.0
75°	149.2	147.3	144.5	142.6	143.5
77.5°	120.7	117.8	116.9	114.0	115.0
80°	91.2	90.3	89.3	86.5	87.4
82.5°	64.6	64.6	62.7	60.8	61.8
85°	39.9	39.9	38.0	36.1	37.1
87.5°	17.1	16.2	16.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)