

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: P395228

Luminaire Tested: **4FSN6-SL1-CP187-L8SCT3-3000K-MID**

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: P395228  
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-L8SCT3-3000K-MID  
Description: 4FT FSN LINEAR LED FIXTURE WITH MID 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: 3068.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

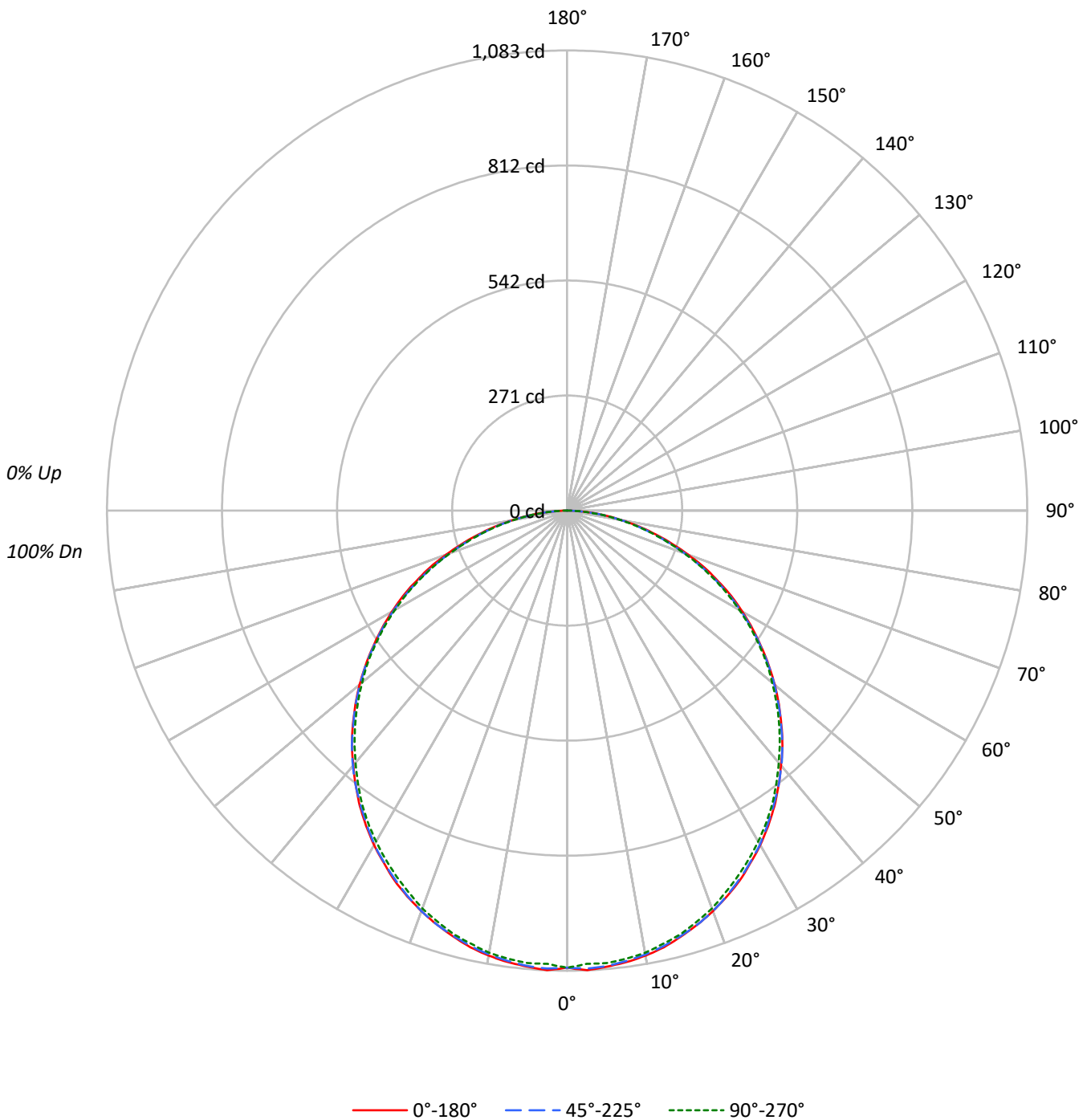
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5790	5790	5790
5°	5820	5813	5776
10°	5813	5798	5775
15°	5781	5774	5751
20°	5747	5747	5707
25°	5706	5690	5641
30°	5648	5640	5589
35°	5585	5567	5531
40°	5501	5511	5443
45°	5428	5418	5366
50°	5341	5329	5272
55°	5227	5215	5177
60°	5128	5084	5040
65°	4986	4899	4863
70°	4760	4631	4609
75°	4469	4327	4298
80°	4073	3989	3902
85°	3551	3384	3298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	3.3
10°-20°	291.4	9.5
20°-30°	439.6	14.3
30°-40°	527.9	17.2
40°-50°	546.8	17.8
50°-60°	495.4	16.1
60°-70°	380.2	12.4
70°-80°	221.6	7.2
80°-90°	63.2	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°	832.8	27.1
0°-40°	1360.8	44.4
0°-60°	2403.0	78.3
0°-90°	3068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1077	1069	1076	1069	1069	102
15°	1038	1029	1036	1031	1032	293
25°	961	953	958	949	950	442
35°	850	845	847	838	842	531
45°	713	712	712	702	705	550
55°	557	558	556	548	552	499
65°	392	387	385	380	382	387
75°	215	212	208	205	207	228
85°	58	58	55	52	53	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1082.8	1073.2	1078.7	1073.2	1067.7
5°	1077.3	1069.1	1075.9	1069.1	1069.1
7.5°	1071.8	1063.6	1069.1	1062.2	1063.6
10°	1063.6	1055.4	1060.9	1055.4	1056.8
12.5°	1052.7	1043.1	1049.9	1044.4	1044.4
15°	1037.6	1029.4	1036.2	1030.8	1032.1
17.5°	1021.2	1013.0	1021.2	1014.3	1014.3
20°	1003.4	995.2	1003.4	995.2	996.5
22.5°	982.8	976.0	981.5	971.9	973.3
25°	960.9	952.7	958.2	948.6	950.0
27.5°	934.9	928.1	933.6	924.0	925.4
30°	908.9	902.1	907.6	896.6	899.3
32.5°	880.2	873.3	877.4	869.2	872.0
35°	850.1	844.6	847.3	837.7	841.9
37.5°	817.2	813.1	817.2	806.3	809.0
40°	783.0	780.3	784.4	773.4	774.8
42.5°	750.1	746.0	750.1	739.2	740.6
45°	713.2	711.8	711.8	702.2	705.0
47.5°	676.2	674.9	674.9	665.3	668.0
50°	637.9	637.9	636.5	626.9	629.7
52.5°	598.2	598.2	596.8	588.6	592.7
55°	557.1	558.5	555.8	547.5	551.7
57.5°	517.4	517.4	514.7	507.9	510.6
60°	476.4	475.0	472.3	465.4	468.2
62.5°	435.3	432.6	428.5	423.0	425.7
65°	391.5	387.4	384.7	380.5	381.9
67.5°	349.1	343.6	339.5	334.0	336.7
70°	302.5	298.4	294.3	290.2	292.9
72.5°	258.7	254.6	250.5	247.8	249.1
75°	214.9	212.2	208.1	205.3	206.7
77.5°	173.8	169.7	168.4	164.3	165.6
80°	131.4	130.0	128.7	124.6	125.9
82.5°	93.1	93.1	90.3	87.6	89.0
85°	57.5	57.5	54.8	52.0	53.4
87.5°	24.6	23.3	23.3	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)