

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: P395188

Luminaire Tested: **2FSN6-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: P395188  
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-LO  
Description: 2FT 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: 1152.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

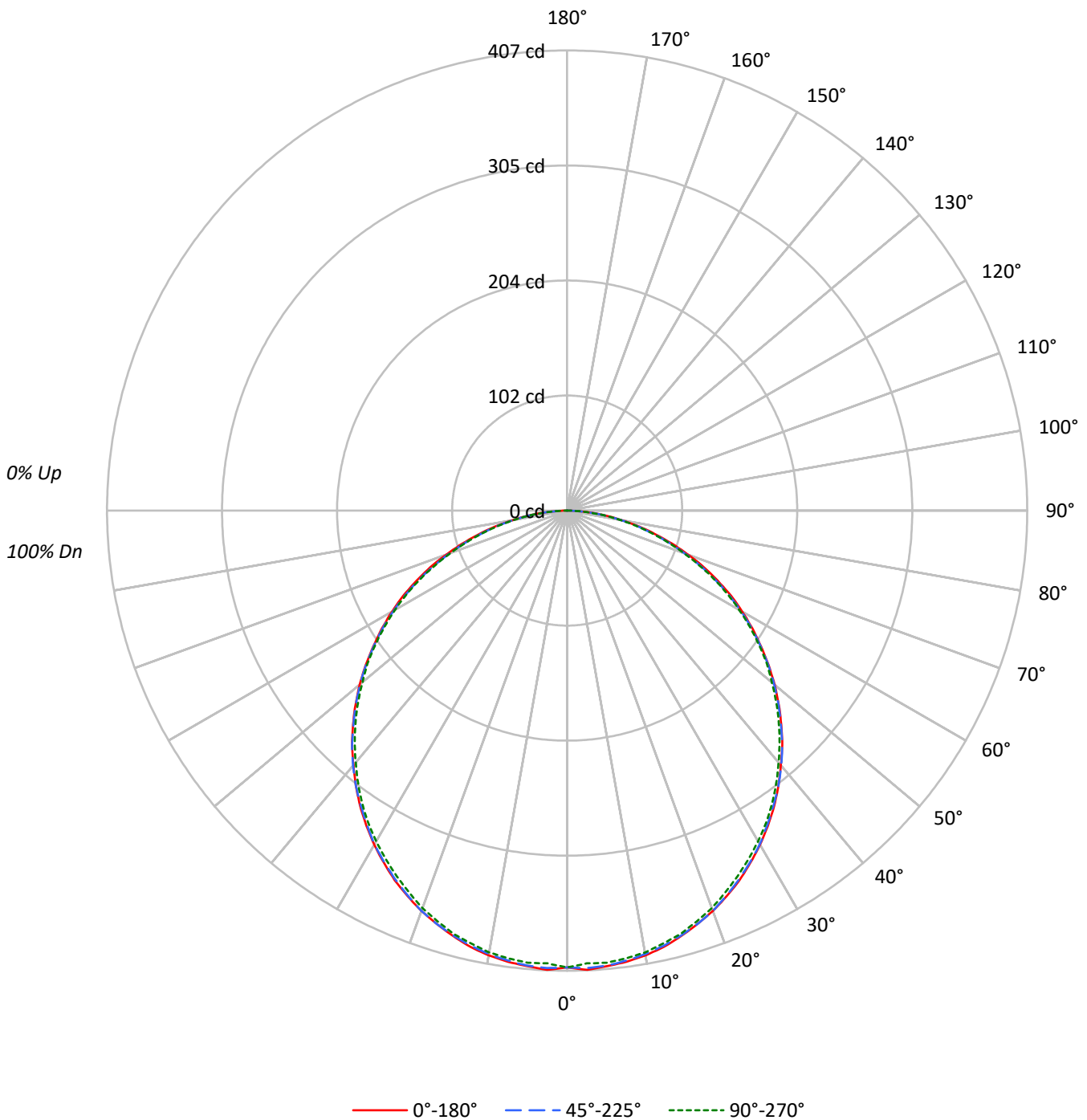
Input Watts (W): 10.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4349	4349	4349
5°	4371	4365	4337
10°	4365	4353	4337
15°	4342	4336	4319
20°	4316	4316	4286
25°	4285	4273	4236
30°	4242	4236	4197
35°	4194	4181	4154
40°	4131	4138	4088
45°	4077	4069	4029
50°	4011	4002	3959
55°	3926	3917	3887
60°	3851	3817	3785
65°	3744	3678	3652
70°	3575	3478	3462
75°	3356	3248	3227
80°	3056	2994	2932
85°	2668	2544	2470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.2	3.3
10°-20°	109.4	9.5
20°-30°	165.1	14.3
30°-40°	198.2	17.2
40°-50°	205.3	17.8
50°-60°	186.0	16.1
60°-70°	142.8	12.4
70°-80°	83.2	7.2
80°-90°	23.7	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°	312.7	27.1
0°-40°	511.0	44.4
0°-60°	902.3	78.3
0°-90°	1152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	404	401	404	401	401	38
15°	390	386	389	387	388	110
25°	361	358	360	356	357	166
35°	319	317	318	315	316	200
45°	268	267	267	264	265	207
55°	209	210	209	206	207	187
65°	147	146	144	143	143	145
75°	81	80	78	77	78	86
85°	22	22	21	20	20	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	404.0	404.0	404.0	404.0	404.0
2.5°	406.6	403.0	405.0	403.0	400.9
5°	404.5	401.4	404.0	401.4	401.4
7.5°	402.5	399.4	401.4	398.9	399.4
10°	399.4	396.3	398.3	396.3	396.8
12.5°	395.3	391.7	394.2	392.2	392.2
15°	389.6	386.5	389.1	387.0	387.6
17.5°	383.4	380.4	383.4	380.9	380.9
20°	376.8	373.7	376.8	373.7	374.2
22.5°	369.0	366.5	368.5	364.9	365.5
25°	360.8	357.7	359.8	356.2	356.7
27.5°	351.1	348.5	350.5	346.9	347.5
30°	341.3	338.7	340.8	336.7	337.7
32.5°	330.5	327.9	329.5	326.4	327.4
35°	319.2	317.1	318.2	314.6	316.1
37.5°	306.9	305.3	306.9	302.7	303.8
40°	294.0	293.0	294.5	290.4	290.9
42.5°	281.7	280.1	281.7	277.6	278.1
45°	267.8	267.3	267.3	263.7	264.7
47.5°	253.9	253.4	253.4	249.8	250.8
50°	239.5	239.5	239.0	235.4	236.4
52.5°	224.6	224.6	224.1	221.0	222.6
55°	209.2	209.7	208.7	205.6	207.1
57.5°	194.3	194.3	193.3	190.7	191.7
60°	178.9	178.4	177.3	174.8	175.8
62.5°	163.5	162.4	160.9	158.8	159.9
65°	147.0	145.5	144.4	142.9	143.4
67.5°	131.1	129.0	127.5	125.4	126.4
70°	113.6	112.1	110.5	109.0	110.0
72.5°	97.1	95.6	94.1	93.0	93.5
75°	80.7	79.7	78.1	77.1	77.6
77.5°	65.3	63.7	63.2	61.7	62.2
80°	49.3	48.8	48.3	46.8	47.3
82.5°	35.0	35.0	33.9	32.9	33.4
85°	21.6	21.6	20.6	19.5	20.0
87.5°	9.3	8.7	8.7	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)