

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: P395189

Luminaire Tested: **2FSN6-SL1-CP187-L8SCT3-4000K-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: P395189  
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-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1686.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 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

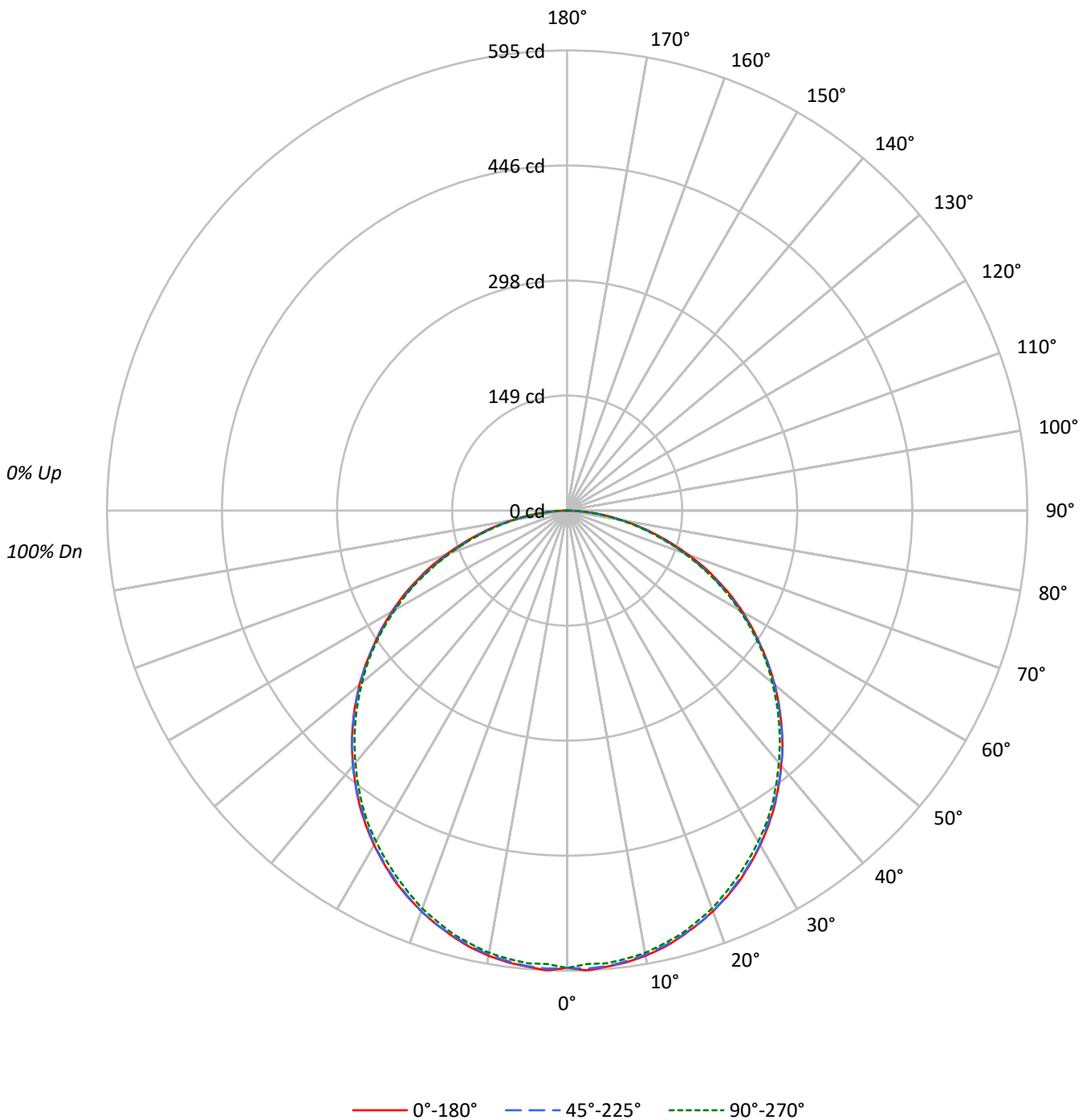
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6365	6365	6365
5°	6397	6389	6348
10°	6389	6372	6347
15°	6354	6346	6321
20°	6316	6316	6273
25°	6272	6254	6201
30°	6208	6198	6142
35°	6138	6118	6079
40°	6046	6056	5983
45°	5966	5955	5897
50°	5869	5858	5794
55°	5746	5731	5690
60°	5636	5586	5539
65°	5479	5384	5346
70°	5231	5089	5067
75°	4912	4754	4724
80°	4475	4382	4289
85°	3903	3717	3619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	3.3
10°-20°	160.1	9.5
20°-30°	241.6	14.3
30°-40°	290.1	17.2
40°-50°	300.5	17.8
50°-60°	272.2	16.1
60°-70°	208.9	12.4
70°-80°	121.8	7.2
80°-90°	34.7	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°	457.7	27.1
0°-40°	747.8	44.4
0°-60°	1320.5	78.3
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	592	588	591	588	588	56
15°	570	566	570	566	567	161
25°	528	524	527	521	522	243
35°	467	464	466	460	463	292
45°	392	391	391	386	387	302
55°	306	307	305	301	303	274
65°	215	213	211	209	210	213
75°	118	117	114	113	114	125
85°	32	32	30	29	29	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	591.3	591.3	591.3	591.3	591.3
2.5°	595.0	589.8	592.8	589.8	586.8
5°	592.0	587.5	591.3	587.5	587.5
7.5°	589.0	584.5	587.5	583.7	584.5
10°	584.5	580.0	583.0	580.0	580.7
12.5°	578.5	573.2	577.0	574.0	574.0
15°	570.2	565.7	569.5	566.4	567.2
17.5°	561.2	556.7	561.2	557.4	557.4
20°	551.4	546.9	551.4	546.9	547.6
22.5°	540.1	536.4	539.4	534.1	534.9
25°	528.1	523.6	526.6	521.3	522.1
27.5°	513.8	510.0	513.0	507.8	508.5
30°	499.5	495.7	498.7	492.7	494.2
32.5°	483.7	479.9	482.2	477.7	479.2
35°	467.1	464.1	465.6	460.4	462.6
37.5°	449.1	446.8	449.1	443.1	444.6
40°	430.3	428.8	431.0	425.0	425.8
42.5°	412.2	410.0	412.2	406.2	407.0
45°	391.9	391.2	391.2	385.9	387.4
47.5°	371.6	370.9	370.9	365.6	367.1
50°	350.5	350.5	349.8	344.5	346.0
52.5°	328.7	328.7	328.0	323.5	325.7
55°	306.2	306.9	305.4	300.9	303.2
57.5°	284.4	284.4	282.8	279.1	280.6
60°	261.8	261.0	259.5	255.8	257.3
62.5°	239.2	237.7	235.5	232.4	234.0
65°	215.1	212.9	211.4	209.1	209.9
67.5°	191.8	188.8	186.6	183.5	185.1
70°	166.2	164.0	161.7	159.5	161.0
72.5°	142.2	139.9	137.7	136.2	136.9
75°	118.1	116.6	114.3	112.8	113.6
77.5°	95.5	93.3	92.5	90.3	91.0
80°	72.2	71.5	70.7	68.5	69.2
82.5°	51.2	51.2	49.6	48.1	48.9
85°	31.6	31.6	30.1	28.6	29.3
87.5°	13.5	12.8	12.8	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)