

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: P395161

Luminaire Tested: **2FSN6-SL1-CA08-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: P395161  
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-CA08-L8SCT3-4000K-LO  
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1196.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

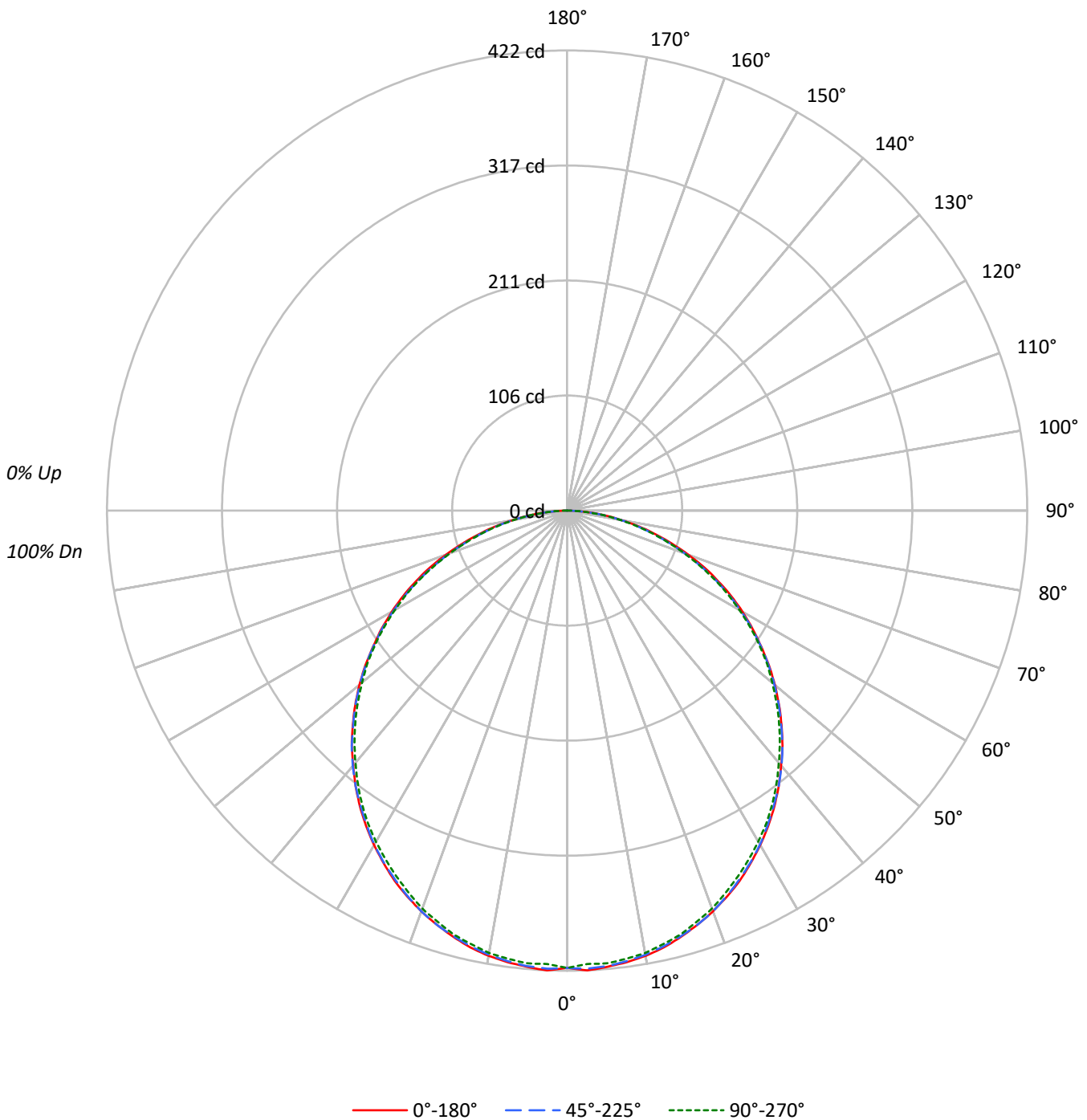
Input Watts (W): 10.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4514	4514	4514
5°	4538	4532	4504
10°	4532	4521	4503
15°	4508	4502	4484
20°	4480	4480	4450
25°	4449	4436	4398
30°	4404	4397	4358
35°	4355	4340	4313
40°	4288	4297	4243
45°	4232	4224	4183
50°	4165	4155	4111
55°	4076	4067	4037
60°	3998	3963	3929
65°	3887	3818	3792
70°	3710	3610	3594
75°	3485	3373	3352
80°	3174	3112	3044
85°	2766	2631	2569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	3.3
10°-20°	113.6	9.5
20°-30°	171.4	14.3
30°-40°	205.8	17.2
40°-50°	213.2	17.8
50°-60°	193.1	16.1
60°-70°	148.2	12.4
70°-80°	86.4	7.2
80°-90°	24.6	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°	324.7	27.1
0°-40°	530.5	44.4
0°-60°	936.8	78.3
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	420	417	419	417	417	40
15°	404	401	404	402	402	114
25°	375	371	374	370	370	172
35°	331	329	330	327	328	207
45°	278	278	278	274	275	214
55°	217	218	217	214	215	194
65°	153	151	150	148	149	151
75°	84	83	81	80	81	89
85°	22	22	21	20	21	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	419.4	419.4	419.4	419.4	419.4
2.5°	422.1	418.4	420.5	418.4	416.2
5°	420.0	416.8	419.4	416.8	416.8
7.5°	417.8	414.6	416.8	414.1	414.6
10°	414.6	411.4	413.6	411.4	412.0
12.5°	410.4	406.6	409.3	407.2	407.2
15°	404.5	401.3	404.0	401.8	402.4
17.5°	398.1	394.9	398.1	395.4	395.4
20°	391.1	387.9	391.1	387.9	388.5
22.5°	383.1	380.5	382.6	378.9	379.4
25°	374.6	371.4	373.5	369.8	370.3
27.5°	364.5	361.8	363.9	360.2	360.7
30°	354.3	351.7	353.8	349.5	350.6
32.5°	343.1	340.5	342.1	338.9	339.9
35°	331.4	329.2	330.3	326.6	328.2
37.5°	318.6	317.0	318.6	314.3	315.4
40°	305.2	304.2	305.8	301.5	302.0
42.5°	292.4	290.8	292.4	288.2	288.7
45°	278.0	277.5	277.5	273.8	274.8
47.5°	263.6	263.1	263.1	259.3	260.4
50°	248.7	248.7	248.1	244.4	245.5
52.5°	233.2	233.2	232.7	229.5	231.1
55°	217.2	217.7	216.7	213.5	215.1
57.5°	201.7	201.7	200.6	198.0	199.0
60°	185.7	185.2	184.1	181.4	182.5
62.5°	169.7	168.6	167.0	164.9	166.0
65°	152.6	151.0	149.9	148.3	148.9
67.5°	136.1	133.9	132.3	130.2	131.3
70°	117.9	116.3	114.7	113.1	114.2
72.5°	100.9	99.3	97.7	96.6	97.1
75°	83.8	82.7	81.1	80.0	80.6
77.5°	67.8	66.2	65.6	64.0	64.6
80°	51.2	50.7	50.2	48.6	49.1
82.5°	36.3	36.3	35.2	34.2	34.7
85°	22.4	22.4	21.3	20.3	20.8
87.5°	9.6	9.1	9.1	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)