

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: P395158

Luminaire Tested: **2FSN6-SL1-CA08-L8SCT3-3500K-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: P395158  
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-L8SCT3-3500K-LO  
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CA08 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1181.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

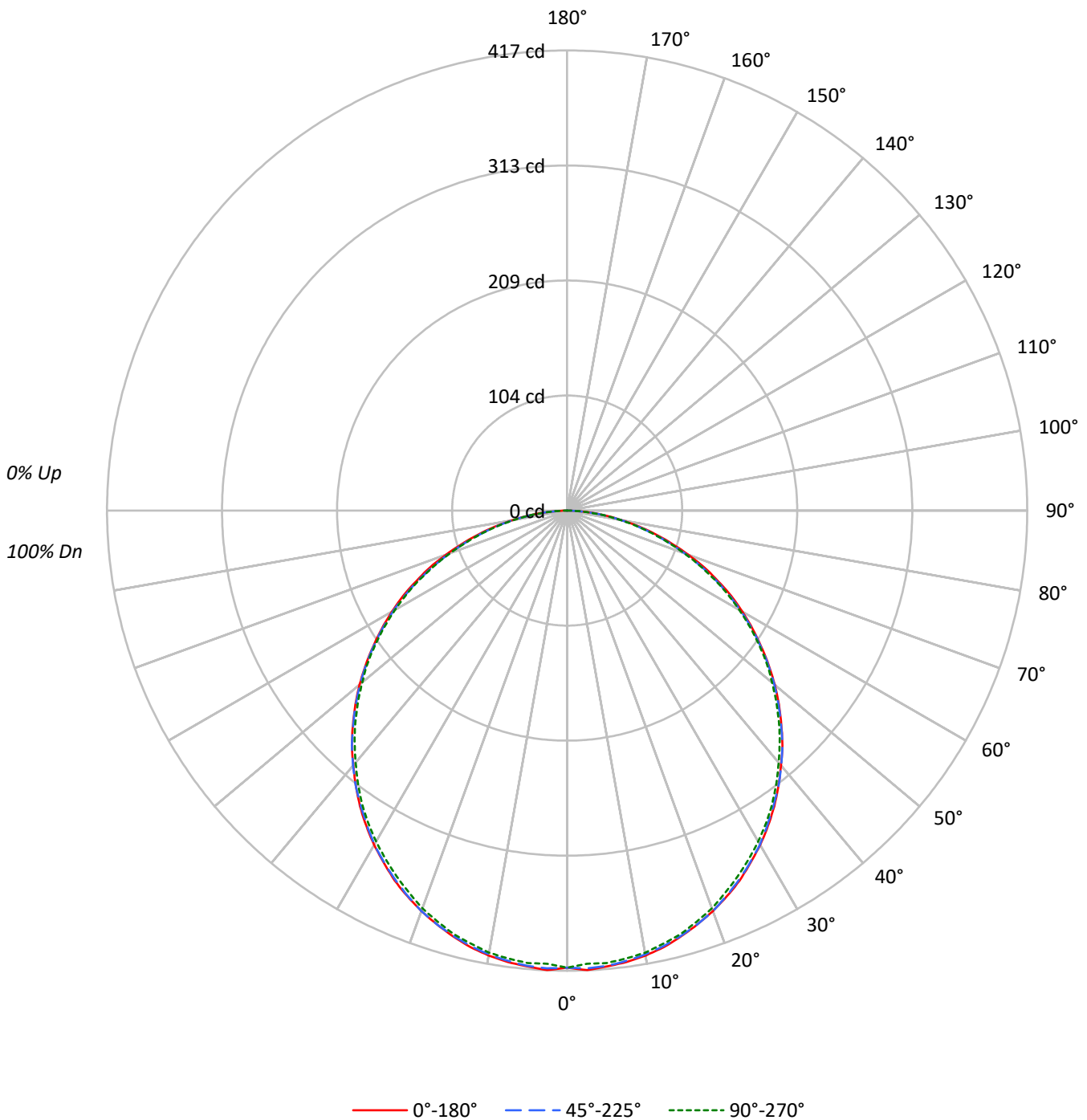
Input Watts (W): 10.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4458	4458	4458
5°	4481	4475	4446
10°	4475	4464	4446
15°	4451	4445	4427
20°	4424	4424	4394
25°	4393	4381	4343
30°	4349	4343	4303
35°	4300	4286	4259
40°	4235	4242	4190
45°	4179	4171	4131
50°	4113	4103	4059
55°	4025	4014	3986
60°	3948	3914	3879
65°	3838	3772	3744
70°	3666	3566	3550
75°	3439	3331	3310
80°	3137	3068	3006
85°	2729	2606	2544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.2	3.3
10°-20°	112.2	9.5
20°-30°	169.2	14.3
30°-40°	203.2	17.2
40°-50°	210.5	17.8
50°-60°	190.7	16.1
60°-70°	146.4	12.4
70°-80°	85.3	7.2
80°-90°	24.3	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°	320.6	27.1
0°-40°	523.8	44.4
0°-60°	925.0	78.3
0°-90°	1181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1181.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	415	412	414	412	412	39
15°	399	396	399	397	397	113
25°	370	367	369	365	366	170
35°	327	325	326	322	324	205
45°	274	274	274	270	271	212
55°	214	215	214	211	212	192
65°	151	149	148	146	147	149
75°	83	82	80	79	80	88
85°	22	22	21	20	21	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	414.2	414.2	414.2	414.2	414.2
2.5°	416.8	413.1	415.2	413.1	411.0
5°	414.7	411.5	414.2	411.5	411.5
7.5°	412.6	409.4	411.5	408.9	409.4
10°	409.4	406.3	408.4	406.3	406.8
12.5°	405.2	401.5	404.2	402.1	402.1
15°	399.4	396.3	398.9	396.8	397.3
17.5°	393.1	389.9	393.1	390.5	390.5
20°	386.2	383.1	386.2	383.1	383.6
22.5°	378.3	375.7	377.8	374.1	374.7
25°	369.9	366.7	368.9	365.2	365.7
27.5°	359.9	357.3	359.4	355.7	356.2
30°	349.9	347.2	349.4	345.1	346.2
32.5°	338.8	336.2	337.8	334.6	335.7
35°	327.2	325.1	326.2	322.5	324.1
37.5°	314.6	313.0	314.6	310.4	311.4
40°	301.4	300.4	301.9	297.7	298.2
42.5°	288.8	287.2	288.8	284.5	285.1
45°	274.5	274.0	274.0	270.3	271.4
47.5°	260.3	259.8	259.8	256.1	257.1
50°	245.6	245.6	245.0	241.3	242.4
52.5°	230.3	230.3	229.7	226.6	228.2
55°	214.5	215.0	213.9	210.8	212.4
57.5°	199.2	199.2	198.1	195.5	196.5
60°	183.4	182.8	181.8	179.2	180.2
62.5°	167.6	166.5	164.9	162.8	163.9
65°	150.7	149.1	148.1	146.5	147.0
67.5°	134.4	132.3	130.7	128.6	129.6
70°	116.5	114.9	113.3	111.7	112.8
72.5°	99.6	98.0	96.4	95.4	95.9
75°	82.7	81.7	80.1	79.0	79.6
77.5°	66.9	65.3	64.8	63.2	63.8
80°	50.6	50.1	49.5	48.0	48.5
82.5°	35.8	35.8	34.8	33.7	34.3
85°	22.1	22.1	21.1	20.0	20.6
87.5°	9.5	9.0	9.0	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)