

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: P395194

Luminaire Tested: **2FSN6-SL1-CP250-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: P395194
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-CP250-L8SCT3-3500K-LO
Description: 2FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 3500K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1117.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

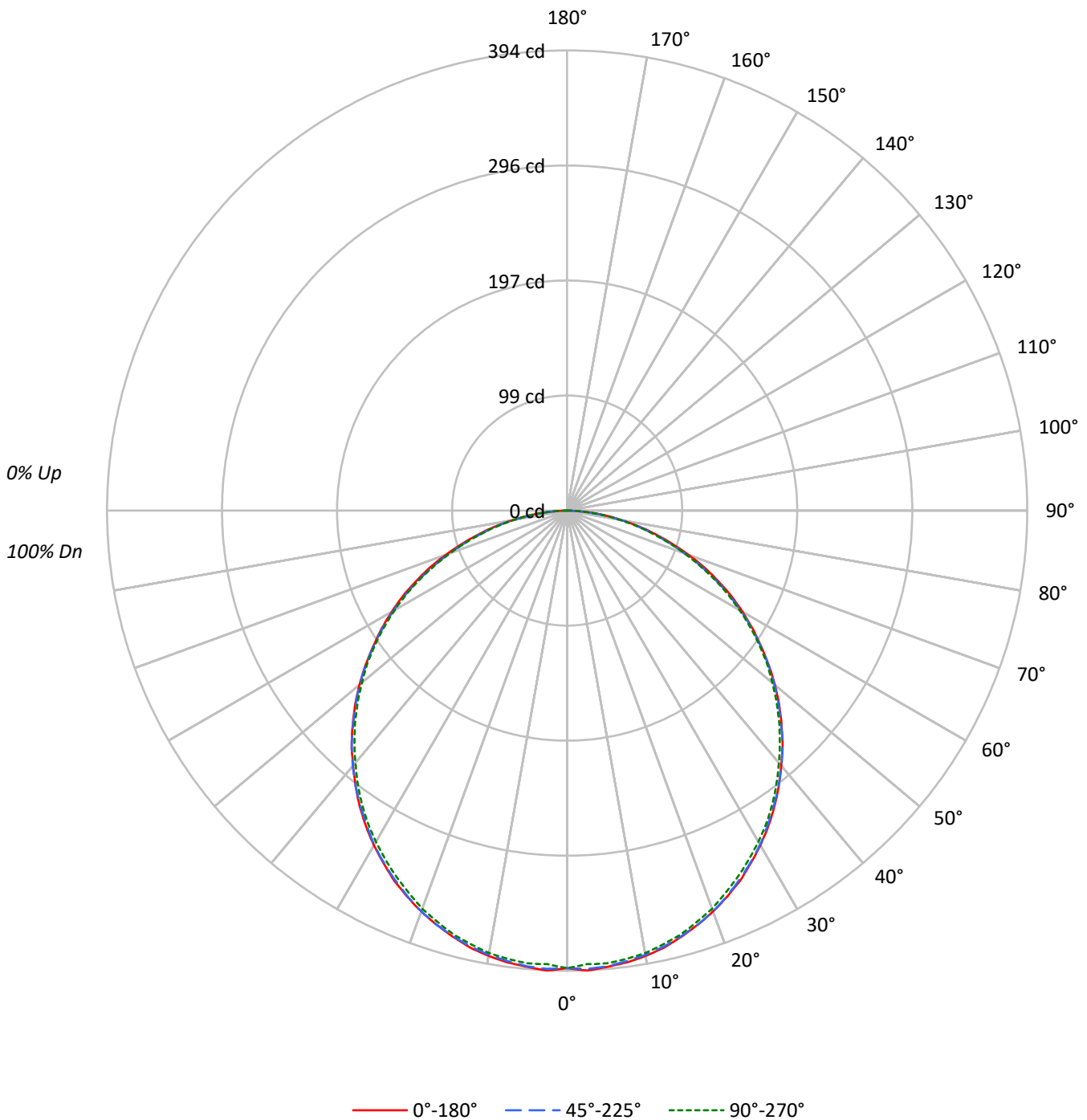
Input Watts (W): 10.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4216	4216	4216
5°	4238	4232	4205
10°	4232	4221	4205
15°	4210	4204	4188
20°	4184	4184	4156
25°	4156	4144	4108
30°	4113	4107	4069
35°	4067	4054	4028
40°	4006	4013	3964
45°	3953	3946	3908
50°	3888	3880	3840
55°	3806	3796	3768
60°	3733	3701	3668
65°	3629	3566	3540
70°	3465	3374	3358
75°	3252	3152	3132
80°	2963	2901	2845
85°	2581	2458	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	3.3
10°-20°	106.1	9.5
20°-30°	160.0	14.3
30°-40°	192.2	17.2
40°-50°	199.1	17.8
50°-60°	180.3	16.1
60°-70°	138.4	12.4
70°-80°	80.7	7.2
80°-90°	23.0	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°	303.2	27.1
0°-40°	495.4	44.4
0°-60°	874.9	78.3
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	392	389	392	389	389	37
15°	378	375	377	375	376	107
25°	350	347	349	345	346	161
35°	310	308	308	305	306	193
45°	260	259	259	256	257	200
55°	203	203	202	199	201	182
65°	142	141	140	138	139	141
75°	78	77	76	75	75	83
85°	21	21	20	19	19	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.7	391.7	391.7	391.7	391.7
2.5°	394.2	390.7	392.7	390.7	388.7
5°	392.2	389.2	391.7	389.2	389.2
7.5°	390.2	387.2	389.2	386.7	387.2
10°	387.2	384.3	386.2	384.3	384.7
12.5°	383.3	379.8	382.3	380.3	380.3
15°	377.8	374.8	377.3	375.3	375.8
17.5°	371.8	368.8	371.8	369.3	369.3
20°	365.3	362.3	365.3	362.3	362.8
22.5°	357.8	355.3	357.3	353.8	354.3
25°	349.9	346.9	348.9	345.4	345.9
27.5°	340.4	337.9	339.9	336.4	336.9
30°	330.9	328.4	330.4	326.4	327.4
32.5°	320.5	318.0	319.5	316.5	317.5
35°	309.5	307.5	308.5	305.0	306.5
37.5°	297.5	296.0	297.5	293.5	294.5
40°	285.1	284.1	285.6	281.6	282.1
42.5°	273.1	271.6	273.1	269.1	269.6
45°	259.7	259.2	259.2	255.7	256.7
47.5°	246.2	245.7	245.7	242.2	243.2
50°	232.2	232.2	231.7	228.3	229.3
52.5°	217.8	217.8	217.3	214.3	215.8
55°	202.8	203.3	202.3	199.4	200.8
57.5°	188.4	188.4	187.4	184.9	185.9
60°	173.4	172.9	171.9	169.4	170.4
62.5°	158.5	157.5	156.0	154.0	155.0
65°	142.5	141.0	140.0	138.5	139.0
67.5°	127.1	125.1	123.6	121.6	122.6
70°	110.1	108.6	107.2	105.7	106.7
72.5°	94.2	92.7	91.2	90.2	90.7
75°	78.2	77.2	75.8	74.8	75.3
77.5°	63.3	61.8	61.3	59.8	60.3
80°	47.8	47.3	46.8	45.4	45.9
82.5°	33.9	33.9	32.9	31.9	32.4
85°	20.9	20.9	19.9	18.9	19.4
87.5°	9.0	8.5	8.5	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)