

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: P395206

Luminaire Tested: **4FSN6-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: P395206
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: 4FSN6-SL1-CA08-L8SCT3-4000K-LO
Description: 4FT 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: 2222.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

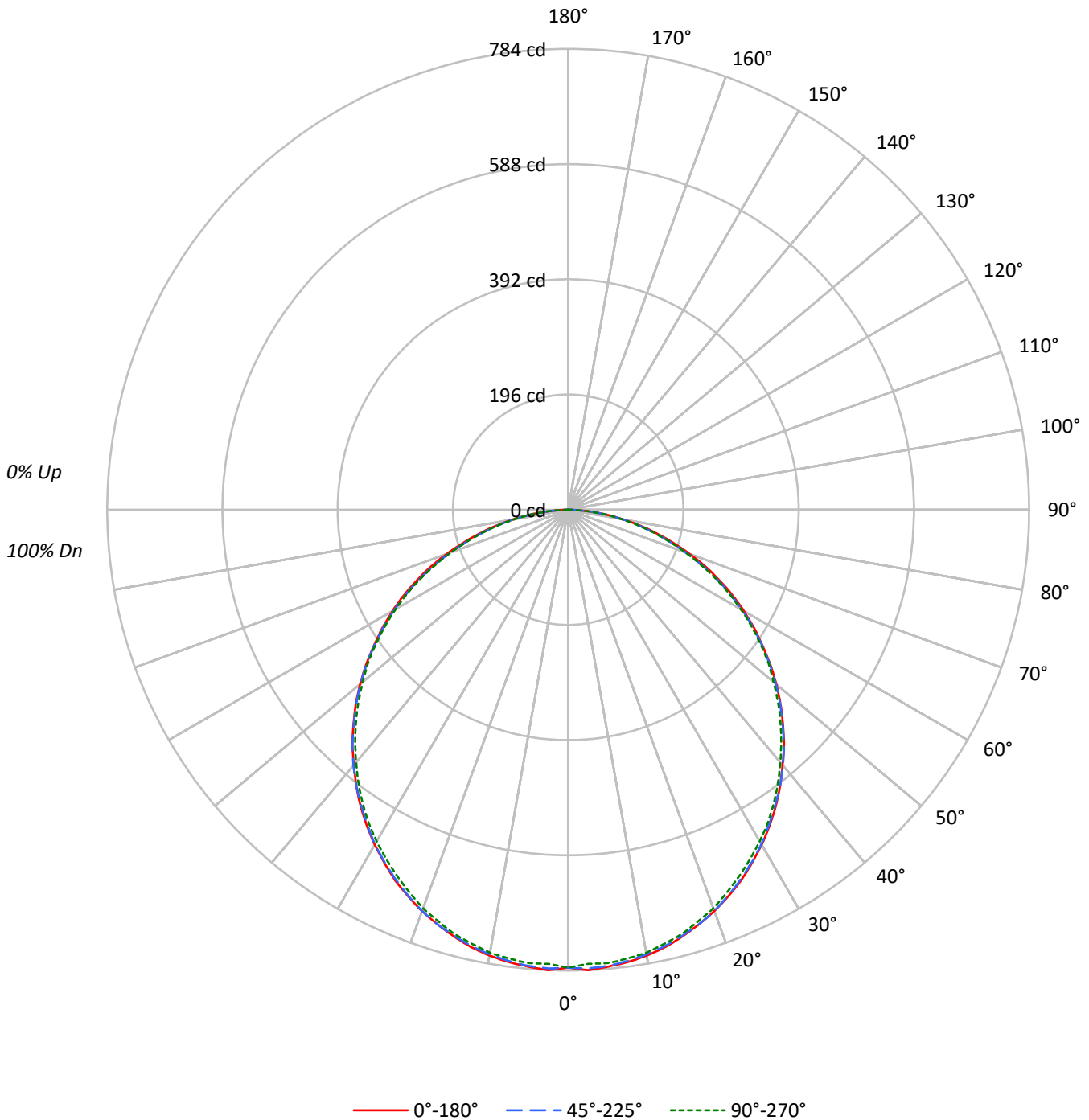
Input Watts (W): 18.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4194	4194	4194
5°	4215	4210	4183
10°	4210	4199	4183
15°	4187	4182	4165
20°	4162	4162	4133
25°	4133	4121	4086
30°	4091	4085	4048
35°	4045	4032	4006
40°	3984	3991	3942
45°	3931	3924	3886
50°	3868	3860	3818
55°	3786	3777	3749
60°	3714	3681	3650
65°	3610	3548	3522
70°	3448	3355	3339
75°	3238	3134	3113
80°	2951	2889	2827
85°	2569	2452	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.3
10°-20°	211.0	9.5
20°-30°	318.4	14.3
30°-40°	382.4	17.2
40°-50°	396.0	17.8
50°-60°	358.8	16.1
60°-70°	275.4	12.4
70°-80°	160.5	7.2
80°-90°	45.8	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°	603.2	27.1
0°-40°	985.5	44.4
0°-60°	1740.3	78.3
0°-90°	2222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	780	774	779	774	774	74
15°	752	746	750	746	748	212
25°	696	690	694	687	688	320
35°	616	612	614	607	610	385
45°	516	516	516	509	511	399
55°	404	404	402	397	400	361
65°	284	281	279	276	277	281
75°	156	154	151	149	150	165
85°	42	42	40	38	39	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.2	779.2	779.2	779.2	779.2
2.5°	784.2	777.3	781.2	777.3	773.3
5°	780.2	774.3	779.2	774.3	774.3
7.5°	776.3	770.3	774.3	769.3	770.3
10°	770.3	764.4	768.3	764.4	765.4
12.5°	762.4	755.4	760.4	756.4	756.4
15°	751.5	745.5	750.5	746.5	747.5
17.5°	739.6	733.6	739.6	734.6	734.6
20°	726.7	720.8	726.7	720.8	721.7
22.5°	711.8	706.9	710.8	703.9	704.9
25°	696.0	690.0	694.0	687.0	688.0
27.5°	677.1	672.2	676.1	669.2	670.2
30°	658.3	653.3	657.3	649.4	651.4
32.5°	637.5	632.5	635.5	629.5	631.5
35°	615.7	611.7	613.7	606.7	609.7
37.5°	591.9	588.9	591.9	583.9	585.9
40°	567.1	565.1	568.1	560.1	561.1
42.5°	543.3	540.3	543.3	535.4	536.3
45°	516.5	515.5	515.5	508.6	510.6
47.5°	489.8	488.8	488.8	481.8	483.8
50°	462.0	462.0	461.0	454.1	456.0
52.5°	433.2	433.2	432.3	426.3	429.3
55°	403.5	404.5	402.5	396.6	399.5
57.5°	374.8	374.8	372.8	367.8	369.8
60°	345.0	344.0	342.0	337.1	339.1
62.5°	315.3	313.3	310.3	306.3	308.3
65°	283.5	280.6	278.6	275.6	276.6
67.5°	252.8	248.8	245.9	241.9	243.9
70°	219.1	216.1	213.2	210.2	212.2
72.5°	187.4	184.4	181.4	179.4	180.4
75°	155.7	153.7	150.7	148.7	149.7
77.5°	125.9	122.9	121.9	119.0	120.0
80°	95.2	94.2	93.2	90.2	91.2
82.5°	67.4	67.4	65.4	63.4	64.4
85°	41.6	41.6	39.7	37.7	38.7
87.5°	17.8	16.9	16.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)