

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: P395196

Luminaire Tested: **2FSN6-SL1-CP250-L8SCT3-4000K-HI**

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: P395196
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-L8SCT3-4000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

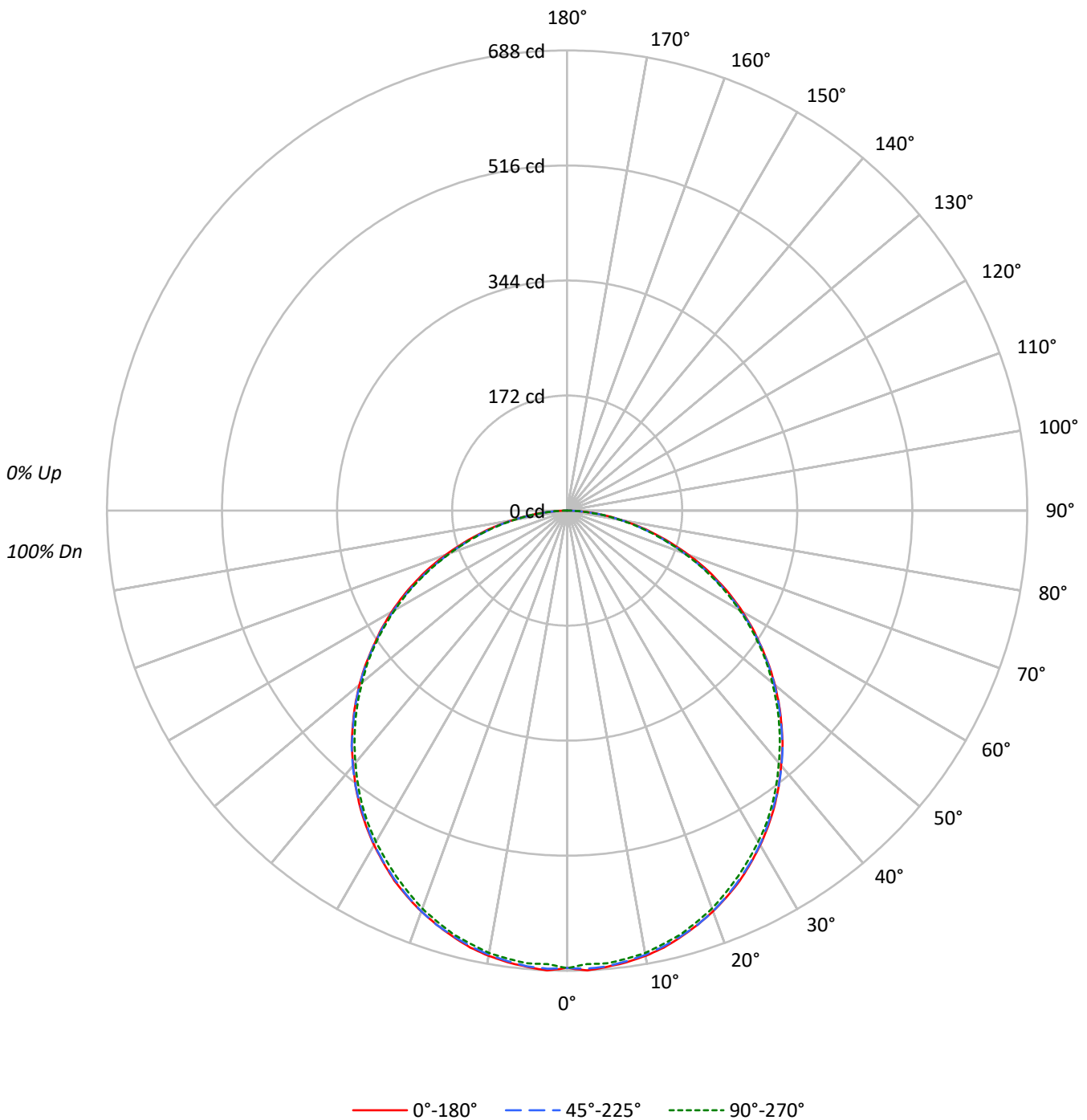
Lumens per Lamp: N/A
Luminaire Lumens: 1950.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.4
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°	7361	7361	7361
5°	7398	7390	7342
10°	7389	7370	7342
15°	7349	7339	7310
20°	7305	7305	7255
25°	7254	7233	7171
30°	7180	7169	7104
35°	7100	7077	7031
40°	6993	7005	6919
45°	6900	6887	6821
50°	6789	6775	6702
55°	6645	6628	6579
60°	6519	6463	6407
65°	6337	6227	6181
70°	6052	5888	5860
75°	5681	5498	5465
80°	5176	5071	4959
85°	4508	4298	4187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.3
10°-20°	185.2	9.5
20°-30°	279.4	14.3
30°-40°	335.6	17.2
40°-50°	347.5	17.8
50°-60°	314.8	16.1
60°-70°	241.7	12.4
70°-80°	140.9	7.2
80°-90°	40.2	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°	529.3	27.1
0°-40°	864.9	44.4
0°-60°	1527.3	78.3
0°-90°	1950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	685	680	684	680	680	65
15°	660	654	659	655	656	186
25°	611	606	609	603	604	281
35°	540	537	539	532	535	338
45°	453	452	452	446	448	350
55°	354	355	353	348	351	317
65°	249	246	244	242	243	246
75°	137	135	132	130	131	145
85°	36	36	35	33	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.9	683.9	683.9	683.9	683.9
2.5°	688.2	682.1	685.6	682.1	678.6
5°	684.7	679.5	683.9	679.5	679.5
7.5°	681.2	676.0	679.5	675.2	676.0
10°	676.0	670.8	674.3	670.8	671.7
12.5°	669.1	663.0	667.3	663.8	663.8
15°	659.5	654.3	658.6	655.1	656.0
17.5°	649.1	643.8	649.1	644.7	644.7
20°	637.7	632.5	637.7	632.5	633.4
22.5°	624.7	620.3	623.8	617.7	618.6
25°	610.8	605.6	609.0	602.9	603.8
27.5°	594.2	589.9	593.4	587.3	588.1
30°	577.7	573.4	576.8	569.9	571.6
32.5°	559.4	555.1	557.7	552.5	554.2
35°	540.3	536.8	538.6	532.5	535.1
37.5°	519.4	516.8	519.4	512.5	514.2
40°	497.7	495.9	498.5	491.6	492.4
42.5°	476.8	474.2	476.8	469.8	470.7
45°	453.3	452.4	452.4	446.3	448.1
47.5°	429.8	428.9	428.9	422.8	424.6
50°	405.4	405.4	404.6	398.5	400.2
52.5°	380.2	380.2	379.3	374.1	376.7
55°	354.1	355.0	353.2	348.0	350.6
57.5°	328.9	328.9	327.1	322.8	324.5
60°	302.8	301.9	300.2	295.8	297.6
62.5°	276.7	274.9	272.3	268.8	270.6
65°	248.8	246.2	244.5	241.9	242.7
67.5°	221.9	218.4	215.8	212.3	214.0
70°	192.3	189.7	187.1	184.4	186.2
72.5°	164.4	161.8	159.2	157.5	158.3
75°	136.6	134.9	132.2	130.5	131.4
77.5°	110.5	107.9	107.0	104.4	105.3
80°	83.5	82.7	81.8	79.2	80.0
82.5°	59.2	59.2	57.4	55.7	56.6
85°	36.5	36.5	34.8	33.1	33.9
87.5°	15.7	14.8	14.8	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)