

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: P395178

Luminaire Tested: **2FSN6-SL1-CP125-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: P395178
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-CP125-L8SCT3-4000K-HI
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

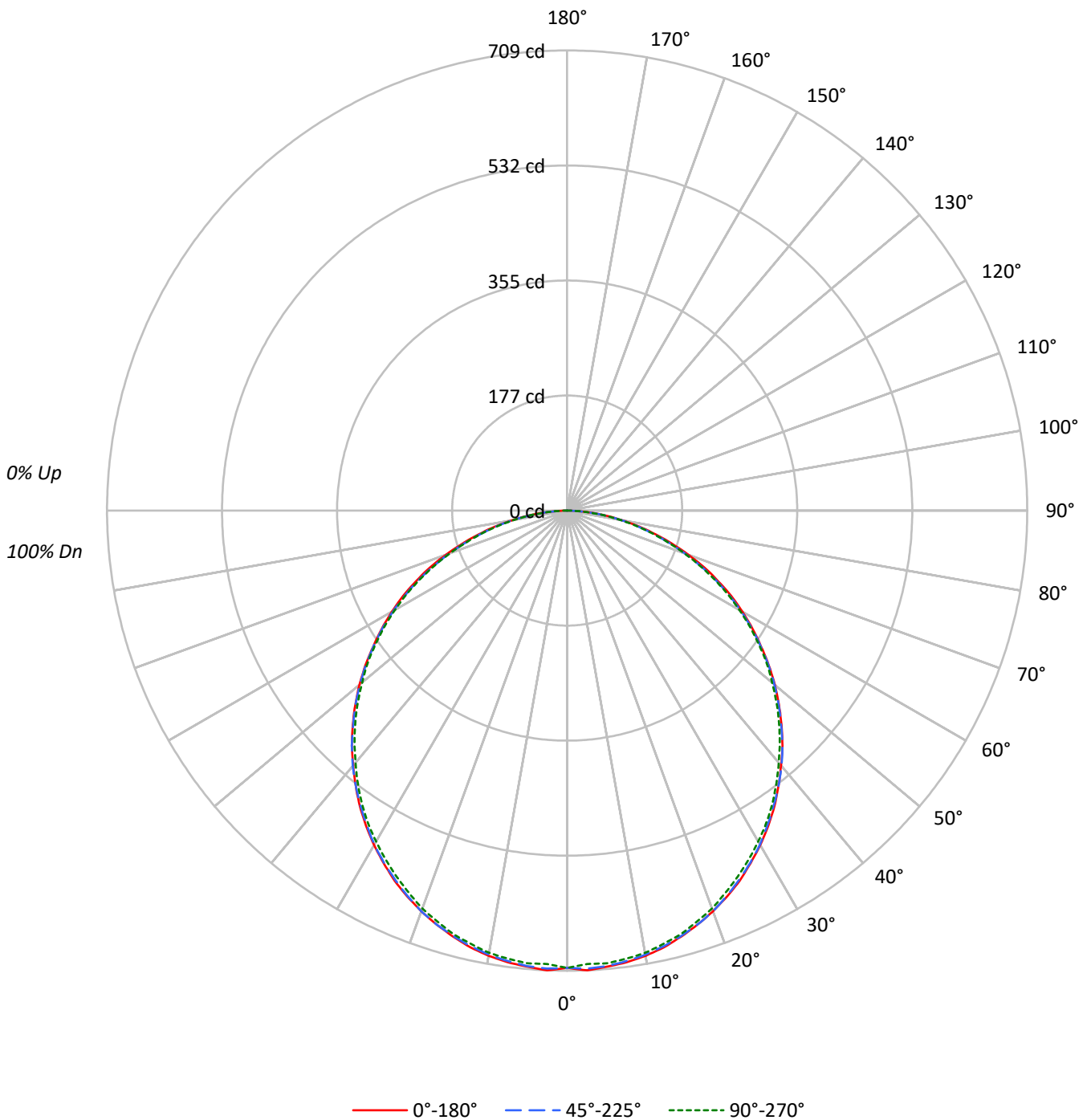
Input Watts (W): 19.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7583	7583	7583
5°	7622	7612	7565
10°	7613	7593	7564
15°	7571	7562	7532
20°	7526	7526	7475
25°	7474	7453	7388
30°	7398	7387	7319
35°	7314	7292	7244
40°	7204	7217	7128
45°	7109	7095	7027
50°	6995	6980	6904
55°	6846	6829	6778
60°	6715	6656	6600
65°	6530	6416	6370
70°	6235	6065	6036
75°	5852	5664	5631
80°	5337	5225	5114
85°	4644	4434	4323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.3
10°-20°	190.8	9.5
20°-30°	287.9	14.3
30°-40°	345.7	17.2
40°-50°	358.0	17.8
50°-60°	324.4	16.1
60°-70°	249.0	12.4
70°-80°	145.1	7.2
80°-90°	41.4	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°	545.4	27.1
0°-40°	891.1	44.4
0°-60°	1573.5	78.3
0°-90°	2009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	705	700	704	700	700	67
15°	679	674	679	675	676	192
25°	629	624	628	621	622	290
35°	557	553	555	549	551	348
45°	467	466	466	460	462	360
55°	365	366	364	358	361	327
65°	256	254	252	249	250	254
75°	141	139	136	134	135	149
85°	38	38	36	34	35	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.5	704.5	704.5	704.5	704.5
2.5°	709.0	702.8	706.3	702.8	699.2
5°	705.4	700.1	704.5	700.1	700.1
7.5°	701.9	696.5	700.1	695.6	696.5
10°	696.5	691.1	694.7	691.1	692.0
12.5°	689.3	683.0	687.5	683.9	683.9
15°	679.4	674.1	678.6	675.0	675.9
17.5°	668.7	663.3	668.7	664.2	664.2
20°	657.0	651.7	657.0	651.7	652.6
22.5°	643.6	639.1	642.7	636.4	637.3
25°	629.3	623.9	627.5	621.2	622.1
27.5°	612.2	607.7	611.3	605.0	605.9
30°	595.2	590.7	594.3	587.1	588.9
32.5°	576.4	571.9	574.6	569.2	571.0
35°	556.6	553.1	554.9	548.6	551.3
37.5°	535.1	532.4	535.1	528.0	529.8
40°	512.7	510.9	513.6	506.4	507.3
42.5°	491.2	488.5	491.2	484.0	484.9
45°	467.0	466.1	466.1	459.8	461.6
47.5°	442.8	441.9	441.9	435.6	437.4
50°	417.7	417.7	416.8	410.5	412.3
52.5°	391.7	391.7	390.8	385.4	388.1
55°	364.8	365.7	363.9	358.5	361.2
57.5°	338.8	338.8	337.0	332.6	334.3
60°	311.9	311.0	309.2	304.8	306.6
62.5°	285.0	283.3	280.6	277.0	278.8
65°	256.4	253.7	251.9	249.2	250.1
67.5°	228.6	225.0	222.3	218.7	220.5
70°	198.1	195.4	192.7	190.0	191.8
72.5°	169.4	166.7	164.0	162.2	163.1
75°	140.7	138.9	136.2	134.5	135.4
77.5°	113.8	111.1	110.3	107.6	108.5
80°	86.1	85.2	84.3	81.6	82.5
82.5°	61.0	61.0	59.2	57.4	58.3
85°	37.6	37.6	35.9	34.1	35.0
87.5°	16.1	15.2	15.2	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)