

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: P395165

Luminaire Tested: **2FSN6-SL1-CA125-L8SCT3-3000K-MID**

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: P395165  
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-CA125-L8SCT3-3000K-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1682.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

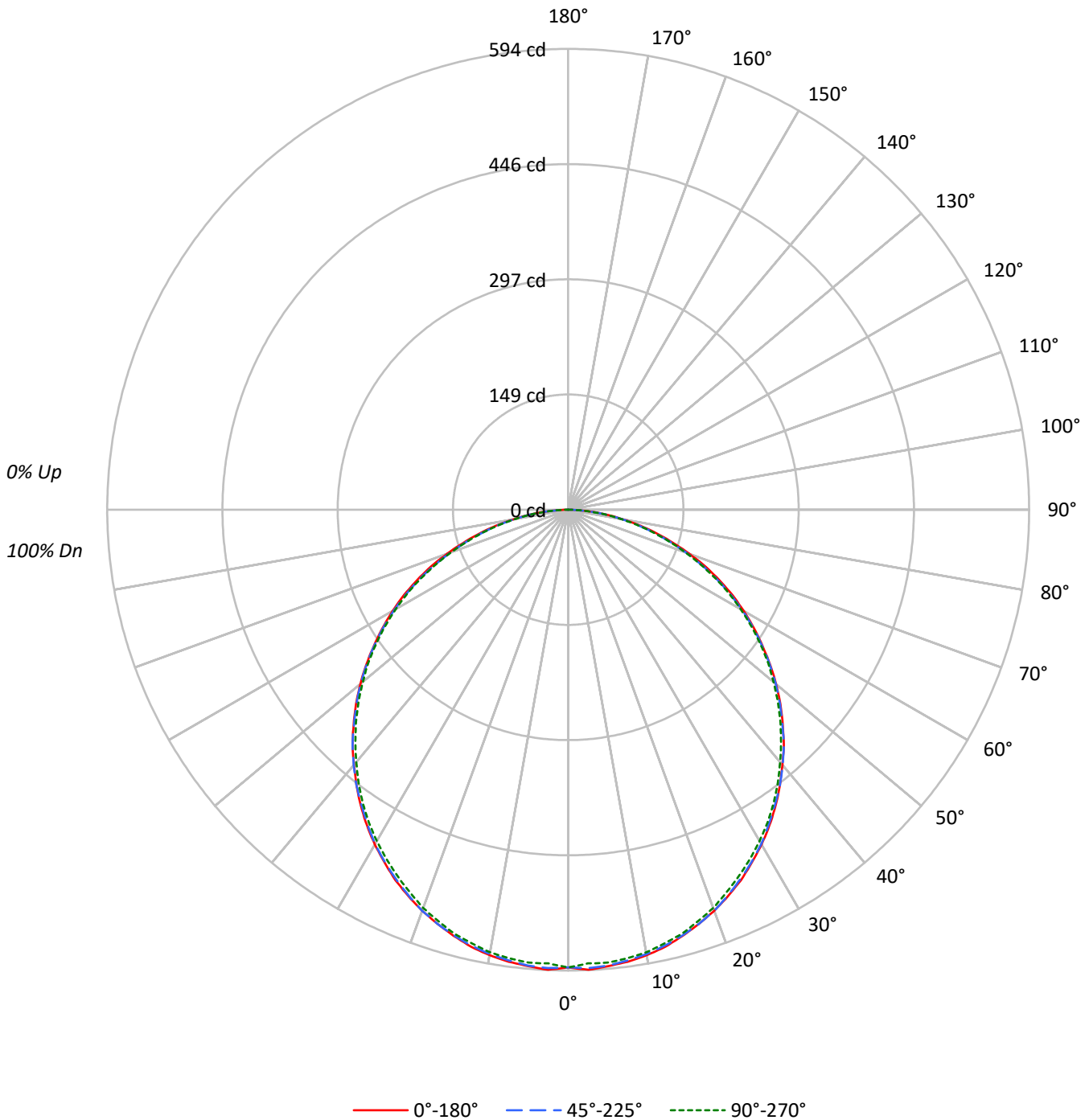
Input Watts (W): 16.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6350	6350	6350
5°	6381	6374	6333
10°	6373	6357	6333
15°	6340	6331	6306
20°	6301	6301	6258
25°	6257	6239	6185
30°	6193	6185	6129
35°	6123	6104	6064
40°	6032	6042	5969
45°	5952	5940	5883
50°	5856	5844	5781
55°	5731	5718	5675
60°	5623	5574	5526
65°	5466	5372	5333
70°	5221	5080	5054
75°	4899	4745	4712
80°	4463	4370	4277
85°	3890	3705	3619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	3.3
10°-20°	159.8	9.5
20°-30°	241.0	14.3
30°-40°	289.4	17.2
40°-50°	299.8	17.8
50°-60°	271.6	16.1
60°-70°	208.4	12.4
70°-80°	121.5	7.2
80°-90°	34.6	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°	456.6	27.1
0°-40°	746.0	44.4
0°-60°	1317.4	78.3
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	591	586	590	586	586	56
15°	569	564	568	565	566	161
25°	527	522	525	520	521	243
35°	466	463	464	459	462	291
45°	391	390	390	385	386	302
55°	305	306	305	300	302	273
65°	215	212	211	209	209	212
75°	118	116	114	113	113	125
85°	32	32	30	28	29	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	589.9	589.9	589.9	589.9	589.9
2.5°	593.6	588.4	591.4	588.4	585.4
5°	590.6	586.1	589.9	586.1	586.1
7.5°	587.6	583.1	586.1	582.4	583.1
10°	583.1	578.6	581.6	578.6	579.4
12.5°	577.1	571.9	575.6	572.6	572.6
15°	568.9	564.4	568.1	565.1	565.9
17.5°	559.8	555.3	559.8	556.1	556.1
20°	550.1	545.6	550.1	545.6	546.3
22.5°	538.8	535.1	538.1	532.8	533.6
25°	526.8	522.3	525.3	520.1	520.8
27.5°	512.6	508.8	511.8	506.6	507.3
30°	498.3	494.6	497.6	491.6	493.1
32.5°	482.6	478.8	481.1	476.5	478.0
35°	466.0	463.0	464.5	459.3	461.5
37.5°	448.0	445.8	448.0	442.0	443.5
40°	429.3	427.8	430.0	424.0	424.8
42.5°	411.3	409.0	411.3	405.3	406.0
45°	391.0	390.2	390.2	385.0	386.5
47.5°	370.7	370.0	370.0	364.7	366.2
50°	349.7	349.7	349.0	343.7	345.2
52.5°	328.0	328.0	327.2	322.7	325.0
55°	305.4	306.2	304.7	300.2	302.4
57.5°	283.7	283.7	282.2	278.4	279.9
60°	261.2	260.4	258.9	255.2	256.7
62.5°	238.6	237.1	234.9	231.9	233.4
65°	214.6	212.4	210.9	208.6	209.4
67.5°	191.4	188.4	186.1	183.1	184.6
70°	165.9	163.6	161.4	159.1	160.6
72.5°	141.8	139.6	137.3	135.8	136.6
75°	117.8	116.3	114.1	112.6	113.3
77.5°	95.3	93.1	92.3	90.1	90.8
80°	72.0	71.3	70.5	68.3	69.0
82.5°	51.0	51.0	49.5	48.0	48.8
85°	31.5	31.5	30.0	28.5	29.3
87.5°	13.5	12.8	12.8	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)