

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: P395177

Luminaire Tested: **2FSN6-SL1-CP125-L8SCT3-3500K-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: P395177  
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-L8SCT3-3500K-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3500K LEDS AND CP125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1681.1 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

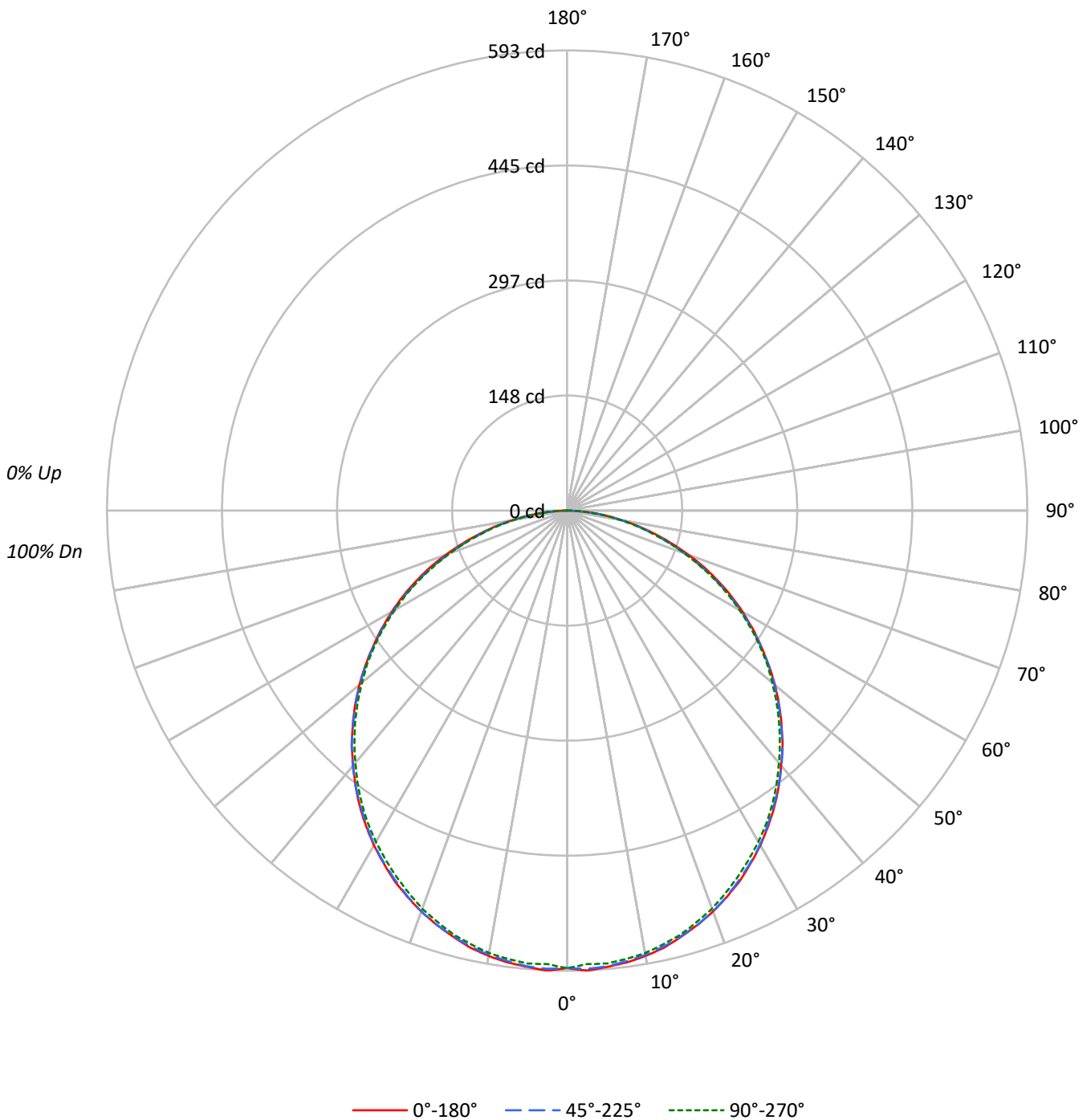
Input Watts (W): 16.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6345	6345	6345
5°	6378	6370	6330
10°	6370	6354	6328
15°	6335	6327	6302
20°	6298	6298	6254
25°	6253	6235	6182
30°	6190	6181	6125
35°	6121	6101	6062
40°	6028	6039	5965
45°	5949	5937	5880
50°	5853	5841	5777
55°	5729	5714	5673
60°	5619	5571	5522
65°	5463	5369	5331
70°	5218	5076	5051
75°	4899	4741	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°	159.7	9.5
20°-30°	240.9	14.3
30°-40°	289.3	17.2
40°-50°	299.6	17.8
50°-60°	271.4	16.1
60°-70°	208.3	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°	456.3	27.1
0°-40°	745.6	44.4
0°-60°	1316.7	78.3
0°-90°	1681.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	586	590	586	586	56
15°	568	564	568	565	566	160
25°	526	522	525	520	520	242
35°	466	463	464	459	461	291
45°	391	390	390	385	386	301
55°	305	306	304	300	302	273
65°	214	212	211	208	209	212
75°	118	116	114	112	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°	589.5	589.5	589.5	589.5	589.5
2.5°	593.3	588.0	591.0	588.0	585.0
5°	590.3	585.8	589.5	585.8	585.8
7.5°	587.3	582.8	585.8	582.0	582.8
10°	582.8	578.3	581.3	578.3	579.0
12.5°	576.8	571.5	575.3	572.3	572.3
15°	568.5	564.0	567.8	564.8	565.5
17.5°	559.5	555.0	559.5	555.8	555.8
20°	549.8	545.3	549.8	545.3	546.0
22.5°	538.5	534.8	537.8	532.5	533.3
25°	526.5	522.0	525.0	519.8	520.5
27.5°	512.3	508.5	511.5	506.3	507.0
30°	498.0	494.3	497.3	491.3	492.8
32.5°	482.3	478.5	480.8	476.3	477.8
35°	465.8	462.8	464.3	459.0	461.3
37.5°	447.8	445.5	447.8	441.8	443.3
40°	429.0	427.5	429.8	423.8	424.5
42.5°	411.0	408.8	411.0	405.0	405.8
45°	390.8	390.0	390.0	384.8	386.3
47.5°	370.5	369.8	369.8	364.5	366.0
50°	349.5	349.5	348.8	343.5	345.0
52.5°	327.8	327.8	327.0	322.5	324.8
55°	305.3	306.0	304.5	300.0	302.3
57.5°	283.5	283.5	282.0	278.3	279.8
60°	261.0	260.3	258.8	255.0	256.5
62.5°	238.5	237.0	234.8	231.8	233.3
65°	214.5	212.3	210.8	208.5	209.3
67.5°	191.3	188.3	186.0	183.0	184.5
70°	165.8	163.5	161.3	159.0	160.5
72.5°	141.8	139.5	137.3	135.8	136.5
75°	117.8	116.3	114.0	112.5	113.3
77.5°	95.3	93.0	92.3	90.0	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)