

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: P395180

Luminaire Tested: **2FSN6-SL1-CP125-L8SCT3-4000K-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: P395180  
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-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1707.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

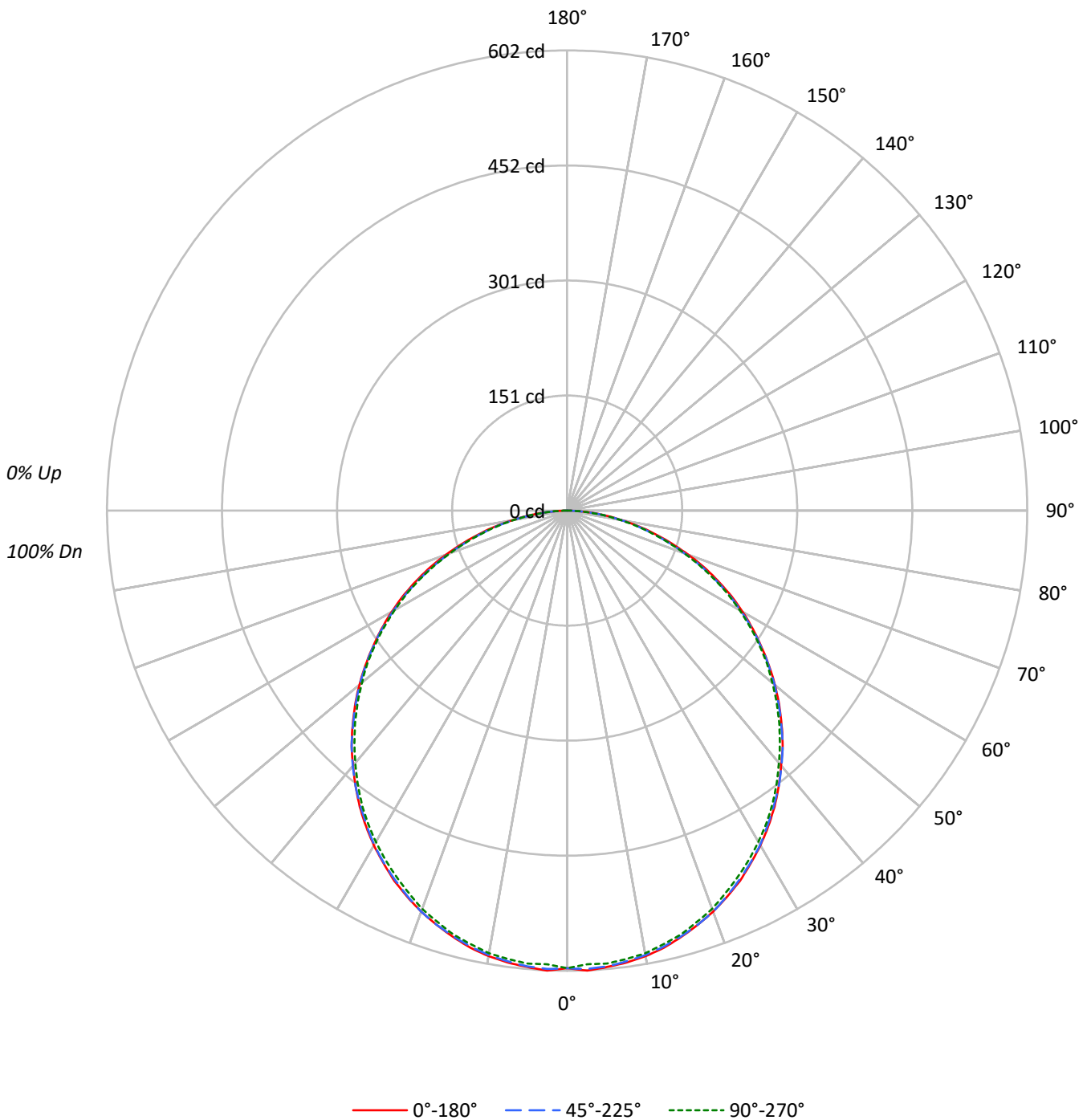
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6443	6443	6443
5°	6477	6468	6427
10°	6468	6452	6427
15°	6433	6424	6400
20°	6395	6395	6352
25°	6350	6331	6278
30°	6285	6277	6220
35°	6215	6194	6155
40°	6121	6132	6058
45°	6040	6028	5970
50°	5943	5931	5866
55°	5818	5803	5759
60°	5705	5658	5608
65°	5547	5450	5412
70°	5297	5152	5130
75°	4974	4816	4783
80°	4531	4438	4345
85°	3952	3767	3668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.7	3.3
10°-20°	162.1	9.5
20°-30°	244.6	14.3
30°-40°	293.7	17.2
40°-50°	304.2	17.8
50°-60°	275.6	16.1
60°-70°	211.5	12.4
70°-80°	123.3	7.2
80°-90°	35.2	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°	463.4	27.1
0°-40°	757.1	44.4
0°-60°	1337.0	78.3
0°-90°	1707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	599	595	599	595	595	57
15°	577	573	576	574	574	163
25°	535	530	533	528	529	246
35°	473	470	471	466	468	296
45°	397	396	396	391	392	306
55°	310	311	309	305	307	277
65°	218	216	214	212	212	215
75°	120	118	116	114	115	127
85°	32	32	30	29	30	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	598.6	598.6	598.6	598.6	598.6
2.5°	602.4	597.1	600.2	597.1	594.1
5°	599.4	594.8	598.6	594.8	594.8
7.5°	596.4	591.8	594.8	591.0	591.8
10°	591.8	587.2	590.3	587.2	588.0
12.5°	585.7	580.4	584.2	581.1	581.1
15°	577.3	572.7	576.5	573.5	574.3
17.5°	568.2	563.6	568.2	564.4	564.4
20°	558.3	553.7	558.3	553.7	554.5
22.5°	546.8	543.0	546.1	540.8	541.5
25°	534.7	530.1	533.1	527.8	528.6
27.5°	520.2	516.4	519.4	514.1	514.9
30°	505.7	501.9	505.0	498.9	500.4
32.5°	489.7	485.9	488.2	483.6	485.2
35°	473.0	469.9	471.4	466.1	468.4
37.5°	454.7	452.4	454.7	448.6	450.1
40°	435.6	434.1	436.4	430.3	431.1
42.5°	417.4	415.1	417.4	411.3	412.0
45°	396.8	396.0	396.0	390.7	392.2
47.5°	376.2	375.5	375.5	370.1	371.7
50°	354.9	354.9	354.2	348.8	350.3
52.5°	332.8	332.8	332.1	327.5	329.8
55°	310.0	310.7	309.2	304.6	306.9
57.5°	287.9	287.9	286.4	282.6	284.1
60°	265.0	264.3	262.8	259.0	260.5
62.5°	242.2	240.7	238.4	235.3	236.9
65°	217.8	215.5	214.0	211.7	212.5
67.5°	194.2	191.2	188.9	185.8	187.4
70°	168.3	166.0	163.7	161.5	163.0
72.5°	143.9	141.7	139.4	137.9	138.6
75°	119.6	118.1	115.8	114.2	115.0
77.5°	96.7	94.4	93.7	91.4	92.2
80°	73.1	72.4	71.6	69.3	70.1
82.5°	51.8	51.8	50.3	48.7	49.5
85°	32.0	32.0	30.5	28.9	29.7
87.5°	13.7	12.9	12.9	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)