

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: P395198

Luminaire Tested: **2FSN6-SL1-CP250-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: P395198  
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-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1657.0 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

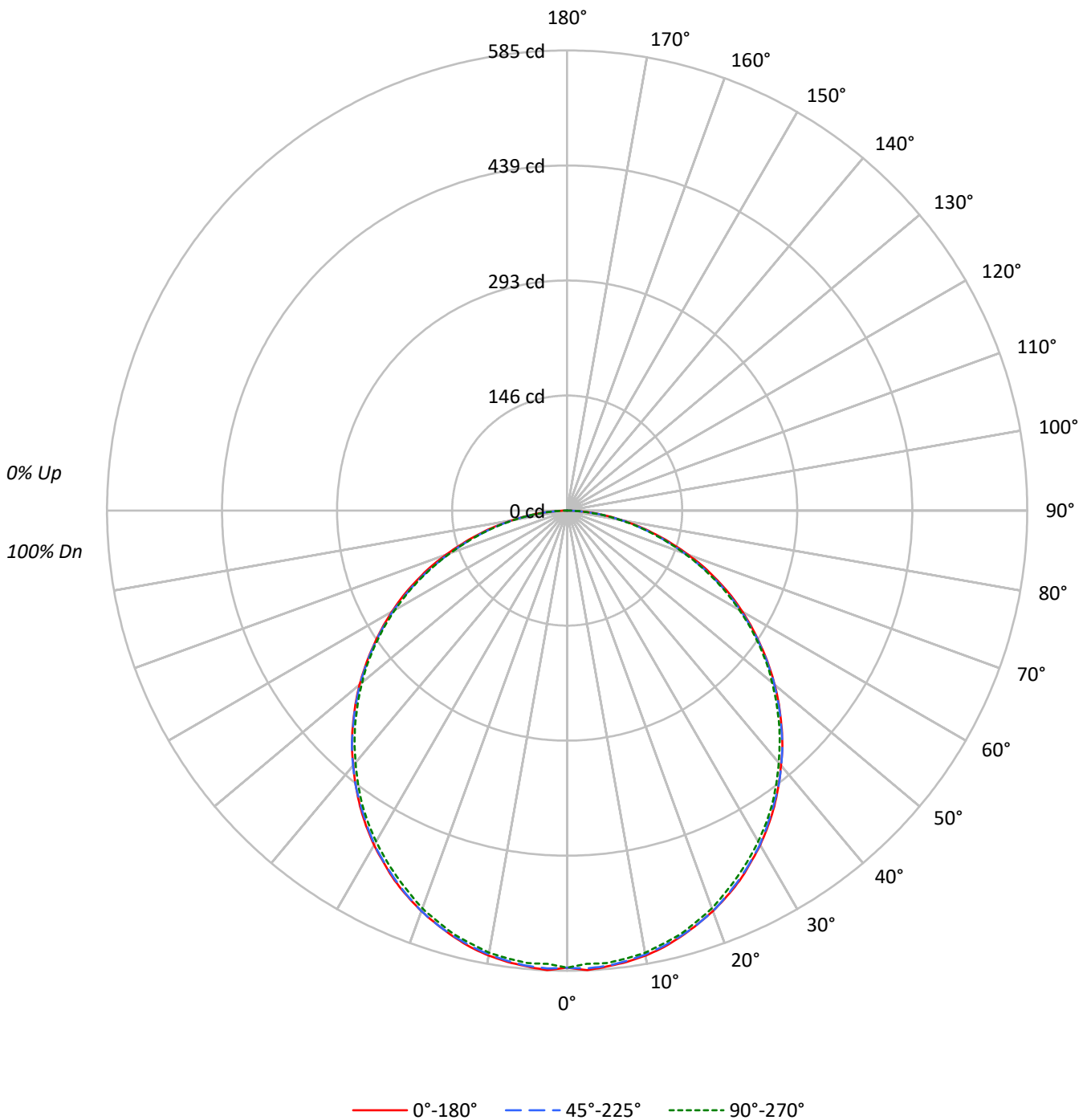
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6255	6255	6255
5°	6286	6279	6239
10°	6278	6263	6239
15°	6245	6237	6211
20°	6207	6207	6165
25°	6164	6146	6094
30°	6101	6093	6037
35°	6033	6013	5975
40°	5942	5952	5880
45°	5864	5852	5795
50°	5769	5757	5695
55°	5647	5634	5590
60°	5539	5492	5442
65°	5384	5290	5254
70°	5142	5004	4979
75°	4828	4675	4641
80°	4401	4308	4215
85°	3841	3656	3557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	3.3
10°-20°	157.4	9.5
20°-30°	237.4	14.3
30°-40°	285.1	17.2
40°-50°	295.3	17.8
50°-60°	267.5	16.1
60°-70°	205.3	12.4
70°-80°	119.7	7.2
80°-90°	34.1	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°	449.8	27.1
0°-40°	735.0	44.4
0°-60°	1297.8	78.3
0°-90°	1657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	582	577	581	577	577	55
15°	560	556	560	557	557	158
25°	519	515	518	512	513	239
35°	459	456	458	452	455	287
45°	385	384	384	379	381	297
55°	301	302	300	296	298	269
65°	211	209	208	206	206	209
75°	116	115	112	111	112	123
85°	31	31	30	28	29	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	581.1	581.1	581.1	581.1	581.1
2.5°	584.8	579.6	582.6	579.6	576.7
5°	581.8	577.4	581.1	577.4	577.4
7.5°	578.9	574.4	577.4	573.7	574.4
10°	574.4	570.0	573.0	570.0	570.8
12.5°	568.5	563.4	567.1	564.1	564.1
15°	560.4	556.0	559.7	556.7	557.4
17.5°	551.5	547.1	551.5	547.8	547.8
20°	541.9	537.5	541.9	537.5	538.2
22.5°	530.8	527.1	530.1	524.9	525.7
25°	519.0	514.6	517.5	512.3	513.1
27.5°	505.0	501.3	504.2	499.0	499.8
30°	490.9	487.2	490.2	484.3	485.7
32.5°	475.4	471.7	473.9	469.5	470.9
35°	459.1	456.2	457.6	452.5	454.7
37.5°	441.4	439.2	441.4	435.5	436.9
40°	422.9	421.4	423.6	417.7	418.5
42.5°	405.1	402.9	405.1	399.2	400.0
45°	385.2	384.4	384.4	379.3	380.7
47.5°	365.2	364.5	364.5	359.3	360.8
50°	344.5	344.5	343.8	338.6	340.1
52.5°	323.1	323.1	322.3	317.9	320.1
55°	300.9	301.6	300.2	295.7	297.9
57.5°	279.5	279.5	278.0	274.3	275.8
60°	257.3	256.5	255.1	251.4	252.8
62.5°	235.1	233.6	231.4	228.4	229.9
65°	211.4	209.2	207.7	205.5	206.3
67.5°	188.5	185.6	183.3	180.4	181.9
70°	163.4	161.2	159.0	156.7	158.2
72.5°	139.7	137.5	135.3	133.8	134.6
75°	116.1	114.6	112.4	110.9	111.6
77.5°	93.9	91.7	90.9	88.7	89.5
80°	71.0	70.2	69.5	67.3	68.0
82.5°	50.3	50.3	48.8	47.3	48.1
85°	31.1	31.1	29.6	28.1	28.8
87.5°	13.3	12.6	12.6	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)