

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: P395192

Luminaire Tested: **2FSN6-SL1-CP250-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: P395192  
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-L8SCT3-3000K-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1594.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 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

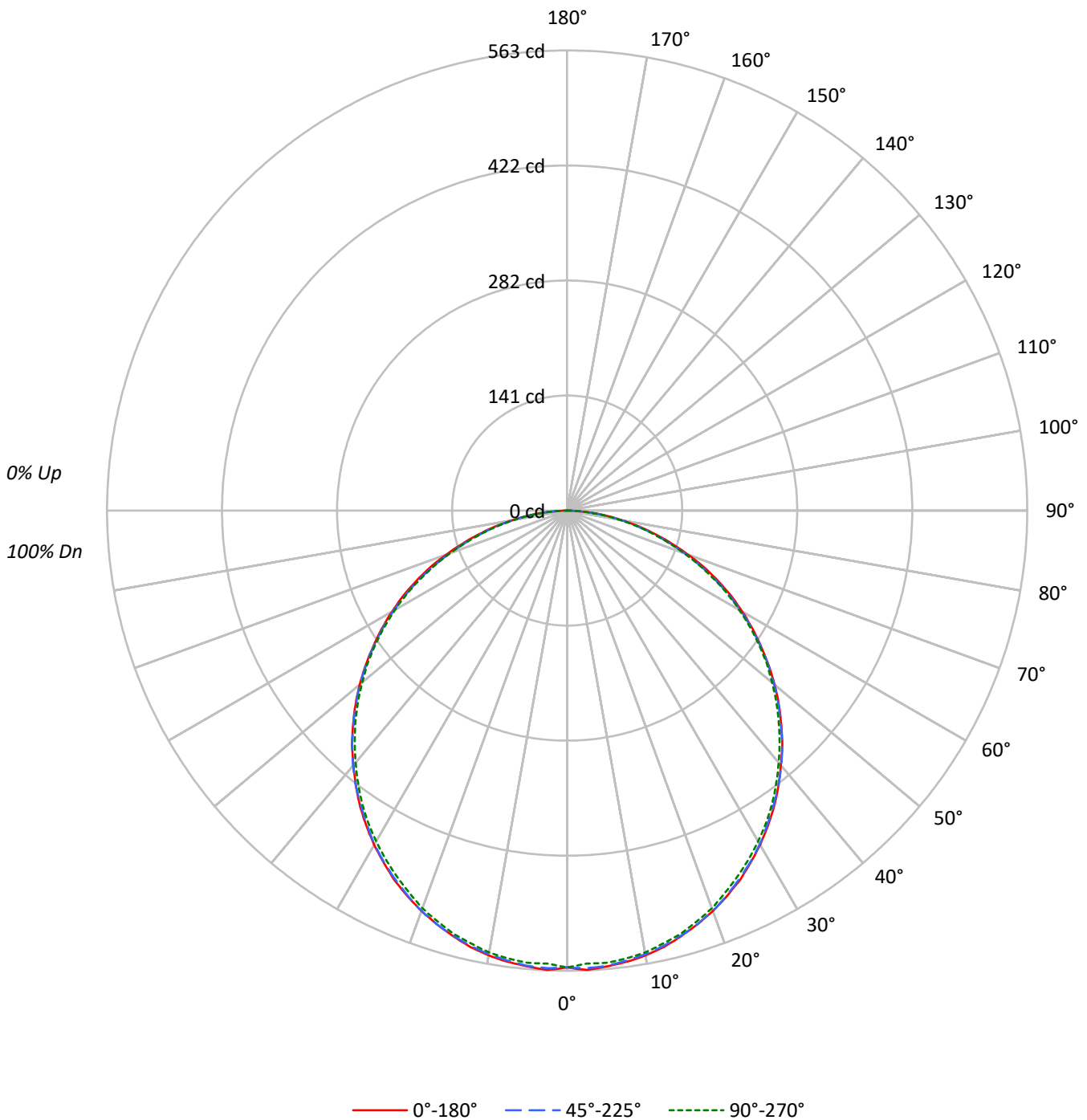
Input Watts (W): 16.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6017	6017	6017
5°	6048	6040	6002
10°	6040	6025	6002
15°	6008	6000	5975
20°	5971	5971	5931
25°	5930	5912	5862
30°	5869	5860	5808
35°	5804	5784	5748
40°	5716	5726	5656
45°	5640	5629	5576
50°	5550	5538	5479
55°	5433	5418	5378
60°	5328	5283	5236
65°	5181	5089	5053
70°	4947	4812	4790
75°	4645	4496	4467
80°	4234	4147	4054
85°	3693	3507	3421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	3.3
10°-20°	151.4	9.5
20°-30°	228.4	14.3
30°-40°	274.3	17.2
40°-50°	284.1	17.8
50°-60°	257.4	16.1
60°-70°	197.5	12.4
70°-80°	115.1	7.2
80°-90°	32.8	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°	432.7	27.1
0°-40°	707.0	44.4
0°-60°	1248.5	78.3
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	560	556	559	556	556	53
15°	539	535	538	536	536	152
25°	499	495	498	493	494	230
35°	442	439	440	435	437	276
45°	370	370	370	365	366	286
55°	290	290	289	284	287	259
65°	203	201	200	198	198	201
75°	112	110	108	107	107	118
85°	30	30	28	27	28	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	559.0	559.0	559.0	559.0	559.0
2.5°	562.6	557.6	560.4	557.6	554.7
5°	559.7	555.5	559.0	555.5	555.5
7.5°	556.9	552.6	555.5	551.9	552.6
10°	552.6	548.3	551.2	548.3	549.1
12.5°	546.9	541.9	545.5	542.6	542.6
15°	539.1	534.8	538.4	535.5	536.2
17.5°	530.6	526.3	530.6	527.0	527.0
20°	521.3	517.0	521.3	517.0	517.8
22.5°	510.6	507.1	509.9	505.0	505.7
25°	499.3	495.0	497.8	492.9	493.6
27.5°	485.8	482.2	485.0	480.1	480.8
30°	472.2	468.7	471.5	465.8	467.3
32.5°	457.3	453.7	455.9	451.6	453.0
35°	441.7	438.8	440.2	435.3	437.4
37.5°	424.6	422.5	424.6	418.9	420.3
40°	406.8	405.4	407.5	401.8	402.5
42.5°	389.7	387.6	389.7	384.1	384.8
45°	370.5	369.8	369.8	364.8	366.3
47.5°	351.3	350.6	350.6	345.6	347.1
50°	331.4	331.4	330.7	325.7	327.2
52.5°	310.8	310.8	310.1	305.8	308.0
55°	289.5	290.2	288.7	284.5	286.6
57.5°	268.8	268.8	267.4	263.9	265.3
60°	247.5	246.8	245.4	241.8	243.2
62.5°	226.2	224.7	222.6	219.8	221.2
65°	203.4	201.3	199.8	197.7	198.4
67.5°	181.4	178.5	176.4	173.5	175.0
70°	157.2	155.0	152.9	150.8	152.2
72.5°	134.4	132.3	130.2	128.7	129.4
75°	111.7	110.2	108.1	106.7	107.4
77.5°	90.3	88.2	87.5	85.3	86.1
80°	68.3	67.6	66.9	64.7	65.4
82.5°	48.4	48.4	46.9	45.5	46.2
85°	29.9	29.9	28.4	27.0	27.7
87.5°	12.8	12.1	12.1	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)