

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: P395190

Luminaire Tested: **2FSN6-SL1-CP250-L8SCT3-3000K-HI**

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: P395190  
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-HI  
Description: 2FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

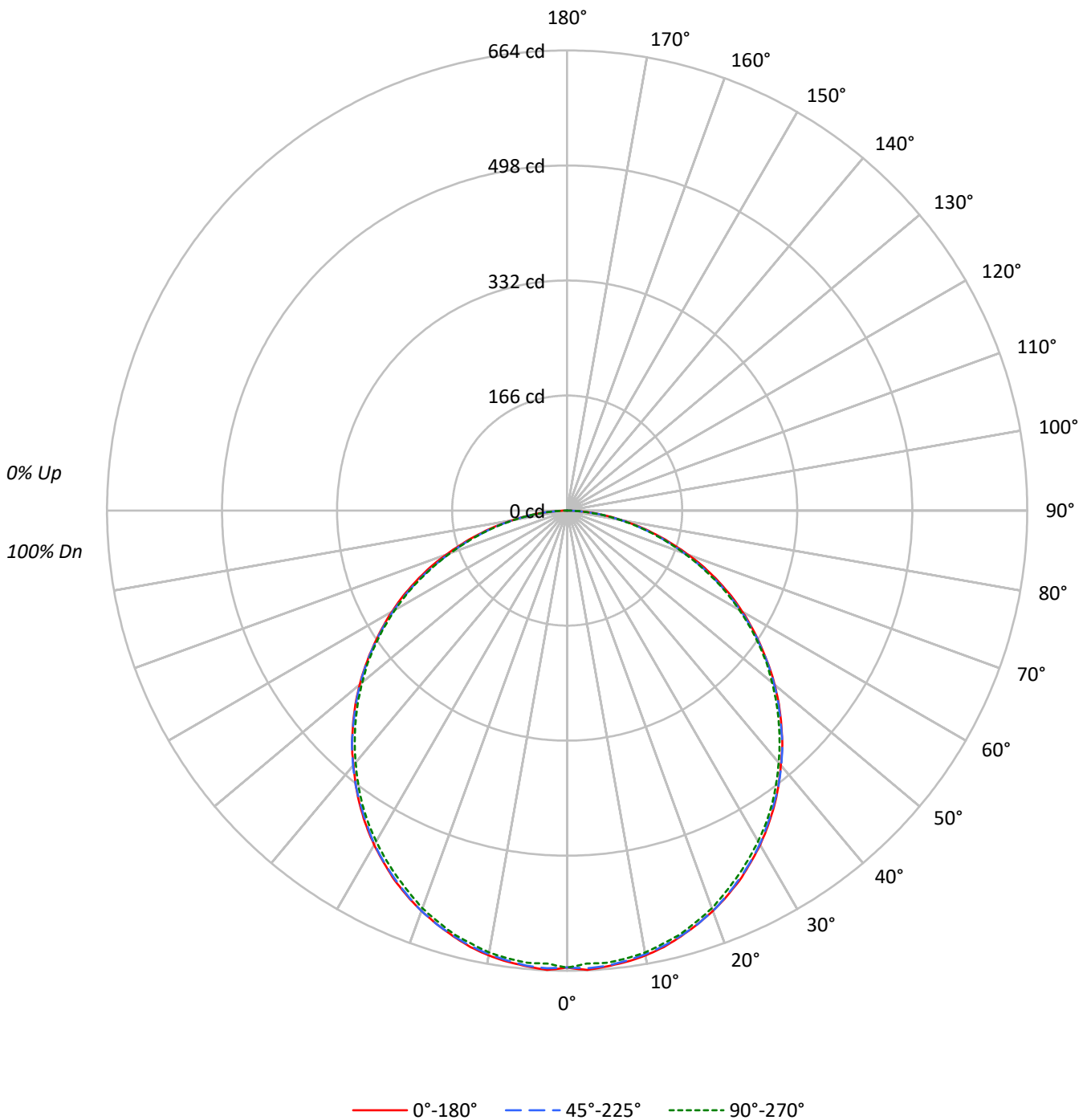
Lumens per Lamp: N/A  
Luminaire Lumens: 1880.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.4  
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°	7097	7097	7097
5°	7132	7124	7078
10°	7124	7106	7078
15°	7085	7076	7048
20°	7042	7042	6995
25°	6993	6974	6913
30°	6923	6912	6850
35°	6845	6822	6779
40°	6742	6753	6672
45°	6652	6640	6576
50°	6546	6531	6462
55°	6407	6392	6343
60°	6284	6230	6176
65°	6110	6003	5960
70°	5835	5674	5649
75°	5477	5303	5269
80°	4990	4885	4785
85°	4347	4150	4039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	3.3
10°-20°	178.6	9.5
20°-30°	269.4	14.3
30°-40°	323.5	17.2
40°-50°	335.1	17.8
50°-60°	303.6	16.1
60°-70°	233.0	12.4
70°-80°	135.8	7.2
80°-90°	38.7	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°	510.3	27.1
0°-40°	833.9	44.4
0°-60°	1472.5	78.3
0°-90°	1880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1880.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	660	655	659	655	655	63
15°	636	631	635	632	632	179
25°	589	584	587	581	582	271
35°	521	518	519	513	516	326
45°	437	436	436	430	432	337
55°	341	342	341	336	338	306
65°	240	237	236	233	234	237
75°	132	130	128	126	127	140
85°	35	35	34	32	33	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	659.3	659.3	659.3	659.3	659.3
2.5°	663.5	657.6	661.0	657.6	654.3
5°	660.1	655.1	659.3	655.1	655.1
7.5°	656.8	651.8	655.1	650.9	651.8
10°	651.8	646.7	650.1	646.7	647.6
12.5°	645.0	639.2	643.4	640.0	640.0
15°	635.8	630.8	635.0	631.6	632.5
17.5°	625.8	620.7	625.8	621.6	621.6
20°	614.8	609.8	614.8	609.8	610.7
22.5°	602.3	598.1	601.4	595.6	596.4
25°	588.8	583.8	587.2	581.3	582.1
27.5°	572.9	568.7	572.1	566.2	567.0
30°	557.0	552.8	556.1	549.4	551.1
32.5°	539.4	535.2	537.7	532.6	534.3
35°	520.9	517.5	519.2	513.4	515.9
37.5°	500.8	498.3	500.8	494.1	495.7
40°	479.8	478.1	480.6	473.9	474.8
42.5°	459.7	457.2	459.7	453.0	453.8
45°	437.0	436.2	436.2	430.3	432.0
47.5°	414.4	413.5	413.5	407.7	409.3
50°	390.9	390.9	390.0	384.2	385.9
52.5°	366.6	366.6	365.7	360.7	363.2
55°	341.4	342.2	340.6	335.5	338.0
57.5°	317.1	317.1	315.4	311.2	312.9
60°	291.9	291.1	289.4	285.2	286.9
62.5°	266.7	265.1	262.5	259.2	260.9
65°	239.9	237.4	235.7	233.2	234.0
67.5°	213.9	210.5	208.0	204.7	206.3
70°	185.4	182.9	180.3	177.8	179.5
72.5°	158.5	156.0	153.5	151.8	152.7
75°	131.7	130.0	127.5	125.8	126.7
77.5°	106.5	104.0	103.2	100.7	101.5
80°	80.5	79.7	78.8	76.3	77.2
82.5°	57.0	57.0	55.4	53.7	54.5
85°	35.2	35.2	33.6	31.9	32.7
87.5°	15.1	14.3	14.3	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)