

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: P395183

Luminaire Tested: **2FSN6-SL1-CP187-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: P395183  
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-CP187-L8SCT3-3000K-MID  
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1621.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

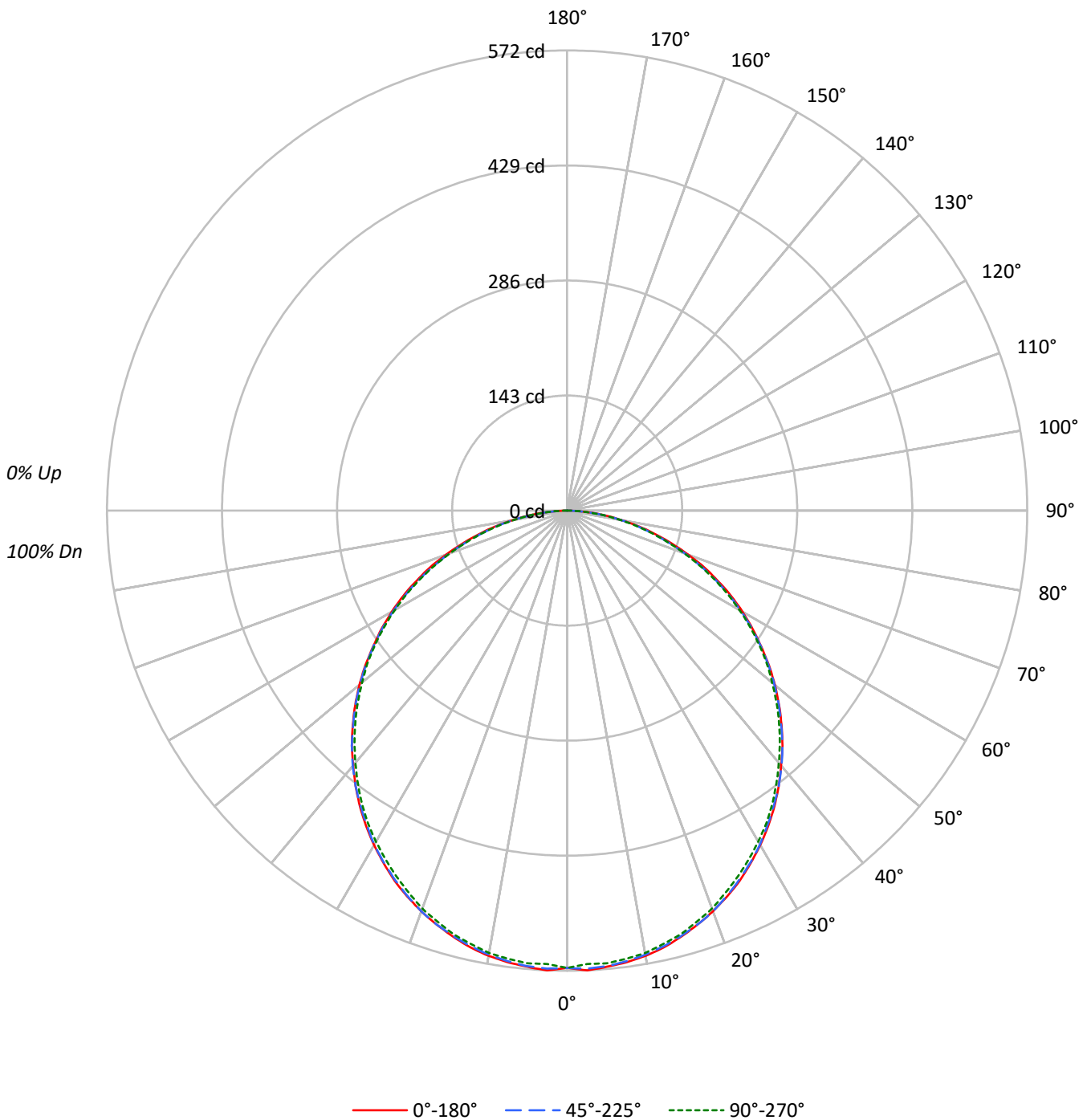
Input Watts (W): 16.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6119	6119	6119
5°	6150	6143	6104
10°	6143	6126	6103
15°	6109	6101	6077
20°	6072	6072	6031
25°	6030	6013	5961
30°	5968	5960	5906
35°	5901	5883	5845
40°	5813	5823	5753
45°	5736	5725	5670
50°	5643	5632	5571
55°	5525	5510	5470
60°	5419	5371	5326
65°	5267	5175	5140
70°	5029	4894	4872
75°	4724	4571	4541
80°	4302	4215	4122
85°	3754	3569	3483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	3.3
10°-20°	154.0	9.5
20°-30°	232.3	14.3
30°-40°	278.9	17.2
40°-50°	288.9	17.8
50°-60°	261.7	16.1
60°-70°	200.9	12.4
70°-80°	117.1	7.2
80°-90°	33.4	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°	440.0	27.1
0°-40°	719.0	44.4
0°-60°	1269.6	78.3
0°-90°	1621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	569	565	568	565	565	54
15°	548	544	548	545	545	155
25°	508	503	506	501	502	234
35°	449	446	448	443	445	281
45°	377	376	376	371	372	291
55°	294	295	294	289	292	264
65°	207	205	203	201	202	205
75°	114	112	110	108	109	120
85°	30	30	29	28	28	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	568.5	568.5	568.5	568.5	568.5
2.5°	572.1	567.0	569.9	567.0	564.1
5°	569.2	564.9	568.5	564.9	564.9
7.5°	566.3	562.0	564.9	561.2	562.0
10°	562.0	557.6	560.5	557.6	558.4
12.5°	556.2	551.1	554.7	551.8	551.8
15°	548.2	543.9	547.5	544.6	545.3
17.5°	539.5	535.2	539.5	535.9	535.9
20°	530.1	525.8	530.1	525.8	526.5
22.5°	519.3	515.7	518.6	513.5	514.2
25°	507.7	503.4	506.3	501.2	501.9
27.5°	494.0	490.4	493.3	488.2	488.9
30°	480.2	476.6	479.5	473.7	475.2
32.5°	465.1	461.4	463.6	459.3	460.7
35°	449.1	446.2	447.7	442.6	444.8
37.5°	431.8	429.6	431.8	426.0	427.4
40°	413.7	412.3	414.4	408.6	409.4
42.5°	396.3	394.2	396.3	390.6	391.3
45°	376.8	376.1	376.1	371.0	372.5
47.5°	357.3	356.6	356.6	351.5	352.9
50°	337.0	337.0	336.3	331.2	332.7
52.5°	316.1	316.1	315.3	311.0	313.2
55°	294.4	295.1	293.6	289.3	291.5
57.5°	273.4	273.4	271.9	268.3	269.8
60°	251.7	251.0	249.5	245.9	247.4
62.5°	230.0	228.5	226.4	223.5	224.9
65°	206.8	204.7	203.2	201.1	201.8
67.5°	184.4	181.5	179.4	176.5	177.9
70°	159.8	157.7	155.5	153.3	154.8
72.5°	136.7	134.5	132.4	130.9	131.6
75°	113.6	112.1	109.9	108.5	109.2
77.5°	91.9	89.7	89.0	86.8	87.5
80°	69.4	68.7	68.0	65.8	66.5
82.5°	49.2	49.2	47.7	46.3	47.0
85°	30.4	30.4	28.9	27.5	28.2
87.5°	13.0	12.3	12.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)