

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: P395231

Luminaire Tested: **4FSN6-SL1-CP187-L8SCT3-3500K-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: P395231  
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: 4FSN6-SL1-CP187-L8SCT3-3500K-MID  
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3500K LEDS AND CP187 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3122.0 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

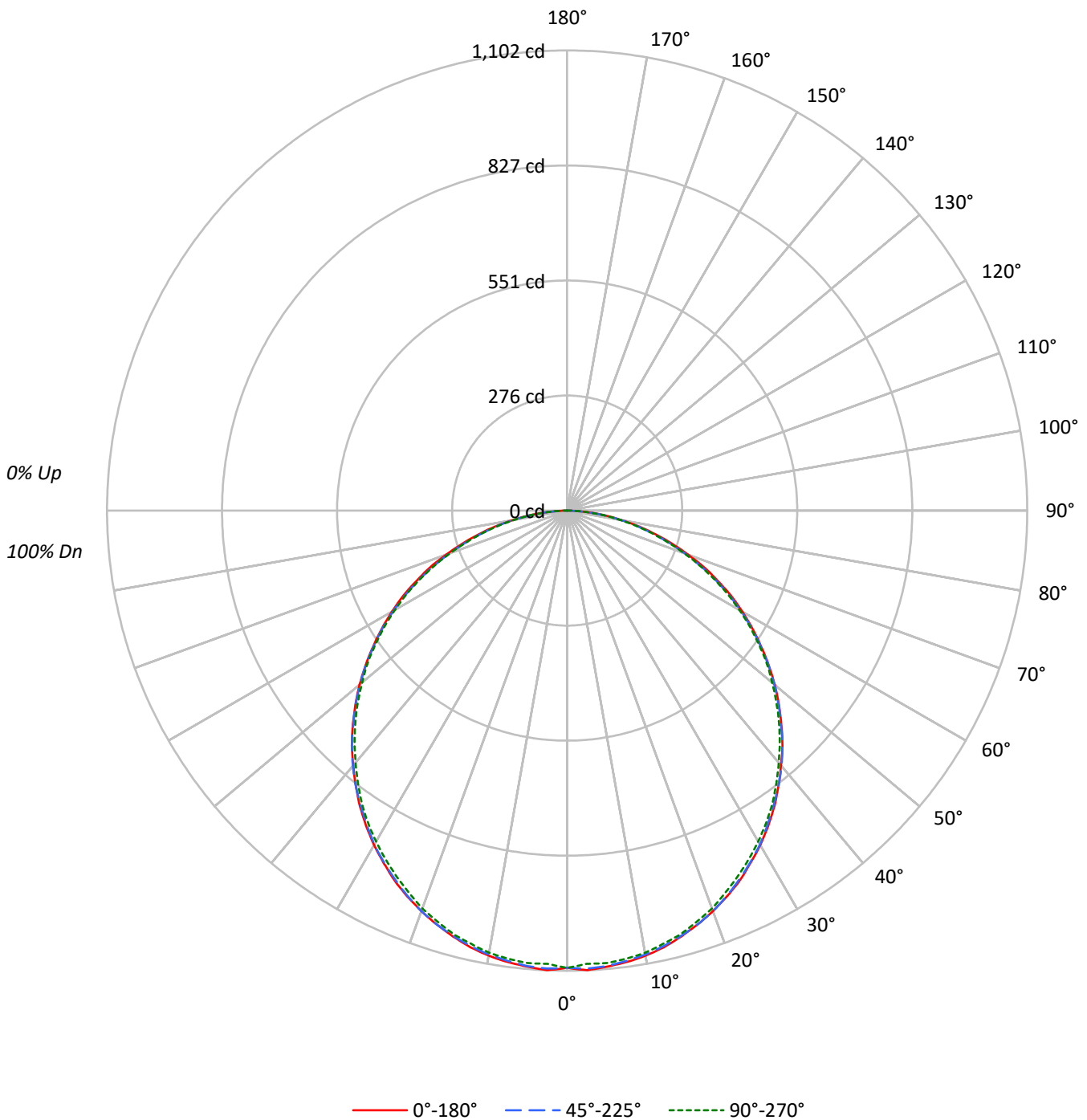
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5893	5893	5893
5°	5923	5915	5877
10°	5915	5899	5877
15°	5883	5875	5852
20°	5848	5848	5808
25°	5807	5790	5741
30°	5748	5739	5688
35°	5683	5665	5629
40°	5598	5608	5539
45°	5523	5513	5460
50°	5435	5423	5365
55°	5319	5306	5268
60°	5218	5173	5128
65°	5074	4984	4949
70°	4843	4713	4691
75°	4548	4402	4373
80°	4144	4057	3973
85°	3612	3440	3353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	3.3
10°-20°	296.5	9.5
20°-30°	447.3	14.3
30°-40°	537.2	17.2
40°-50°	556.4	17.8
50°-60°	504.1	16.1
60°-70°	386.9	12.4
70°-80°	225.5	7.2
80°-90°	64.3	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°	847.5	27.1
0°-40°	1384.7	44.4
0°-60°	2445.2	78.3
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1096	1088	1095	1088	1088	104
15°	1056	1048	1054	1049	1050	298
25°	978	970	975	965	967	450
35°	865	860	862	852	857	541
45°	726	724	724	715	717	560
55°	567	568	566	557	561	508
65°	398	394	391	387	389	394
75°	219	216	212	209	210	232
85°	58	58	56	53	54	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1094.9	1094.9	1094.9	1094.9	1094.9
2.5°	1101.8	1092.1	1097.7	1092.1	1086.5
5°	1096.3	1087.9	1094.9	1087.9	1087.9
7.5°	1090.7	1082.3	1087.9	1080.9	1082.3
10°	1082.3	1074.0	1079.5	1074.0	1075.4
12.5°	1071.2	1061.4	1068.4	1062.8	1062.8
15°	1055.9	1047.5	1054.5	1048.9	1050.3
17.5°	1039.1	1030.8	1039.1	1032.2	1032.2
20°	1021.0	1012.7	1021.0	1012.7	1014.1
22.5°	1000.1	993.2	998.8	989.0	990.4
25°	977.9	969.5	975.1	965.3	966.7
27.5°	951.4	944.4	950.0	940.2	941.6
30°	924.9	918.0	923.5	912.4	915.2
32.5°	895.7	888.7	892.9	884.5	887.3
35°	865.0	859.5	862.2	852.5	856.7
37.5°	831.6	827.4	831.6	820.5	823.2
40°	796.8	794.0	798.2	787.0	788.4
42.5°	763.3	759.2	763.3	752.2	753.6
45°	725.7	724.3	724.3	714.6	717.4
47.5°	688.1	686.7	686.7	677.0	679.8
50°	649.1	649.1	647.7	638.0	640.8
52.5°	608.7	608.7	607.3	599.0	603.2
55°	566.9	568.3	565.5	557.2	561.4
57.5°	526.5	526.5	523.8	516.8	519.6
60°	484.8	483.4	480.6	473.6	476.4
62.5°	443.0	440.2	436.0	430.4	433.2
65°	398.4	394.2	391.4	387.2	388.6
67.5°	355.2	349.6	345.5	339.9	342.7
70°	307.8	303.7	299.5	295.3	298.1
72.5°	263.3	259.1	254.9	252.1	253.5
75°	218.7	215.9	211.7	208.9	210.3
77.5°	176.9	172.7	171.3	167.2	168.5
80°	133.7	132.3	130.9	126.8	128.2
82.5°	94.7	94.7	91.9	89.1	90.5
85°	58.5	58.5	55.7	52.9	54.3
87.5°	25.1	23.7	23.7	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)