

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: P395319

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-3500K-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: P395319  
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: 8FSN6-SL1-CP187-L8SCT3-3500K-HI  
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH 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: 7872.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct

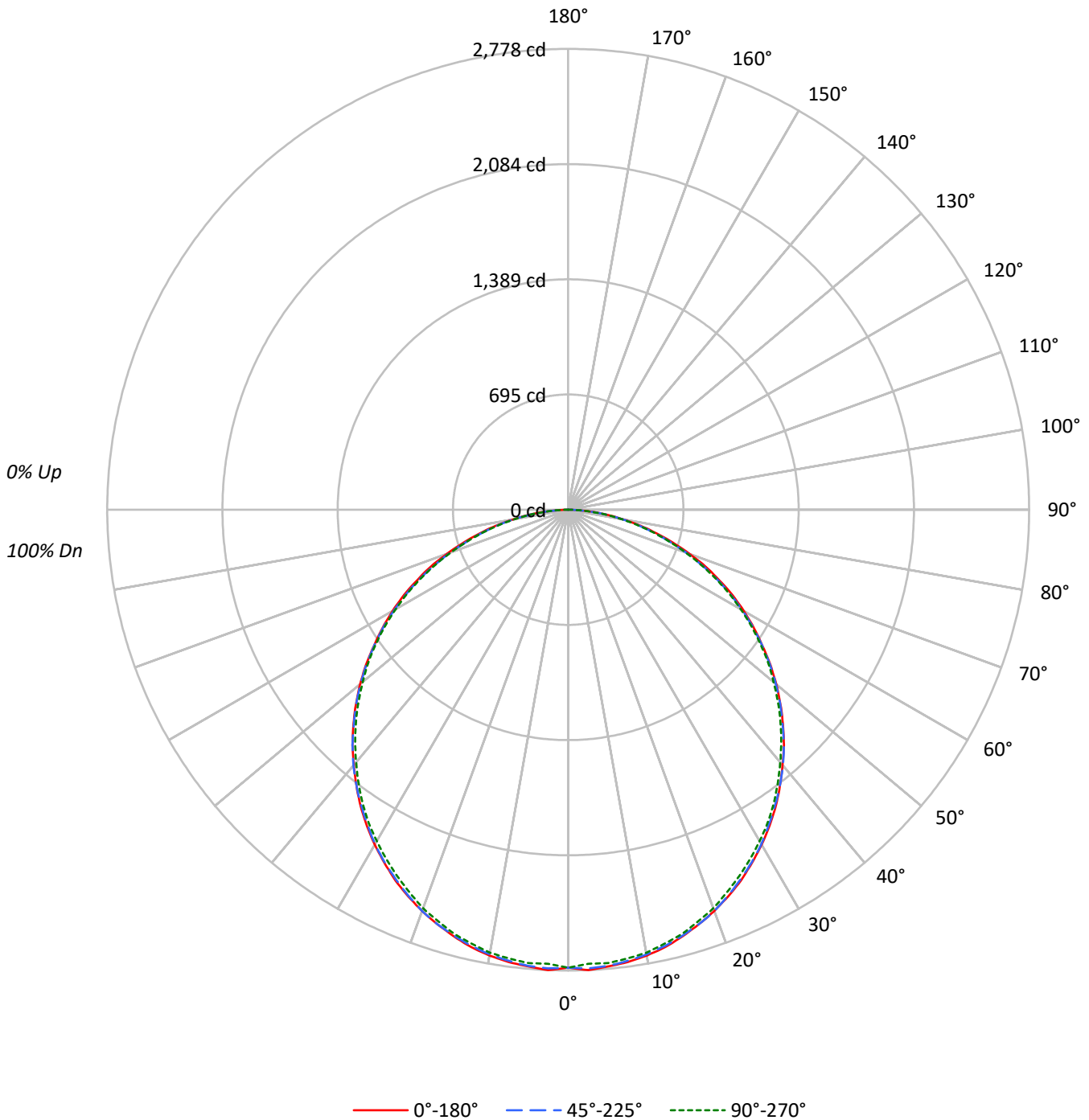
Input Watts (W): 77.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7429	7429	7429
5°	7467	7457	7410
10°	7457	7438	7409
15°	7417	7407	7378
20°	7373	7373	7322
25°	7321	7300	7237
30°	7247	7236	7170
35°	7165	7142	7096
40°	7057	7070	6983
45°	6964	6951	6884
50°	6852	6837	6764
55°	6707	6690	6641
60°	6578	6521	6465
65°	6396	6285	6239
70°	6107	5941	5914
75°	5733	5551	5515
80°	5225	5117	5007
85°	4554	4338	4230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.3	3.3
10°-20°	747.7	9.5
20°-30°	1127.9	14.3
30°-40°	1354.6	17.2
40°-50°	1403.0	17.8
50°-60°	1271.0	16.1
60°-70°	975.6	12.4
70°-80°	568.6	7.2
80°-90°	162.2	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°	2136.9	27.1
0°-40°	3491.6	44.4
0°-60°	6165.6	78.3
0°-90°	7872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2761	2761	2761	2761	2761	
5°	2764	2743	2761	2743	2743	263
15°	2662	2641	2659	2645	2648	751
25°	2466	2445	2459	2434	2438	1135
35°	2181	2167	2174	2150	2160	1363
45°	1830	1826	1826	1802	1809	1412
55°	1430	1433	1426	1405	1416	1280
65°	1004	994	987	976	980	994
75°	551	544	534	527	530	585
85°	148	148	140	134	137	168
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2760.7	2760.7	2760.7	2760.7	2760.7
2.5°	2778.2	2753.6	2767.7	2753.6	2739.6
5°	2764.2	2743.1	2760.7	2743.1	2743.1
7.5°	2750.1	2729.1	2743.1	2725.5	2729.1
10°	2729.1	2708.0	2722.0	2708.0	2711.5
12.5°	2701.0	2676.4	2693.9	2679.9	2679.9
15°	2662.3	2641.2	2658.8	2644.8	2648.3
17.5°	2620.2	2599.1	2620.2	2602.6	2602.6
20°	2574.5	2553.4	2574.5	2553.4	2557.0
22.5°	2521.8	2504.3	2518.3	2493.7	2497.2
25°	2465.6	2444.6	2458.6	2434.0	2437.5
27.5°	2398.9	2381.3	2395.4	2370.8	2374.3
30°	2332.2	2314.6	2328.7	2300.6	2307.6
32.5°	2258.4	2240.8	2251.4	2230.3	2237.3
35°	2181.1	2167.1	2174.1	2149.5	2160.1
37.5°	2096.8	2086.3	2096.8	2068.7	2075.8
40°	2009.0	2002.0	2012.5	1984.4	1988.0
42.5°	1924.7	1914.2	1924.7	1896.6	1900.2
45°	1829.9	1826.4	1826.4	1801.8	1808.8
47.5°	1735.1	1731.6	1731.6	1707.0	1714.0
50°	1636.7	1636.7	1633.2	1608.6	1615.7
52.5°	1534.9	1534.9	1531.4	1510.3	1520.8
55°	1429.5	1433.0	1426.0	1404.9	1415.5
57.5°	1327.6	1327.6	1320.6	1303.1	1310.1
60°	1222.3	1218.8	1211.7	1194.2	1201.2
62.5°	1116.9	1109.9	1099.3	1085.3	1092.3
65°	1004.5	994.0	987.0	976.4	979.9
67.5°	895.6	881.6	871.1	857.0	864.0
70°	776.2	765.7	755.1	744.6	751.6
72.5°	663.8	653.3	642.8	635.7	639.2
75°	551.4	544.4	533.9	526.8	530.4
77.5°	446.1	435.5	432.0	421.5	425.0
80°	337.2	333.7	330.2	319.6	323.1
82.5°	238.8	238.8	231.8	224.8	228.3
85°	147.5	147.5	140.5	133.5	137.0
87.5°	63.2	59.7	59.7	56.2	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)