

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: P395322

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-4000K-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: P395322  
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-L8SCT3-4000K-HI  
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7936.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

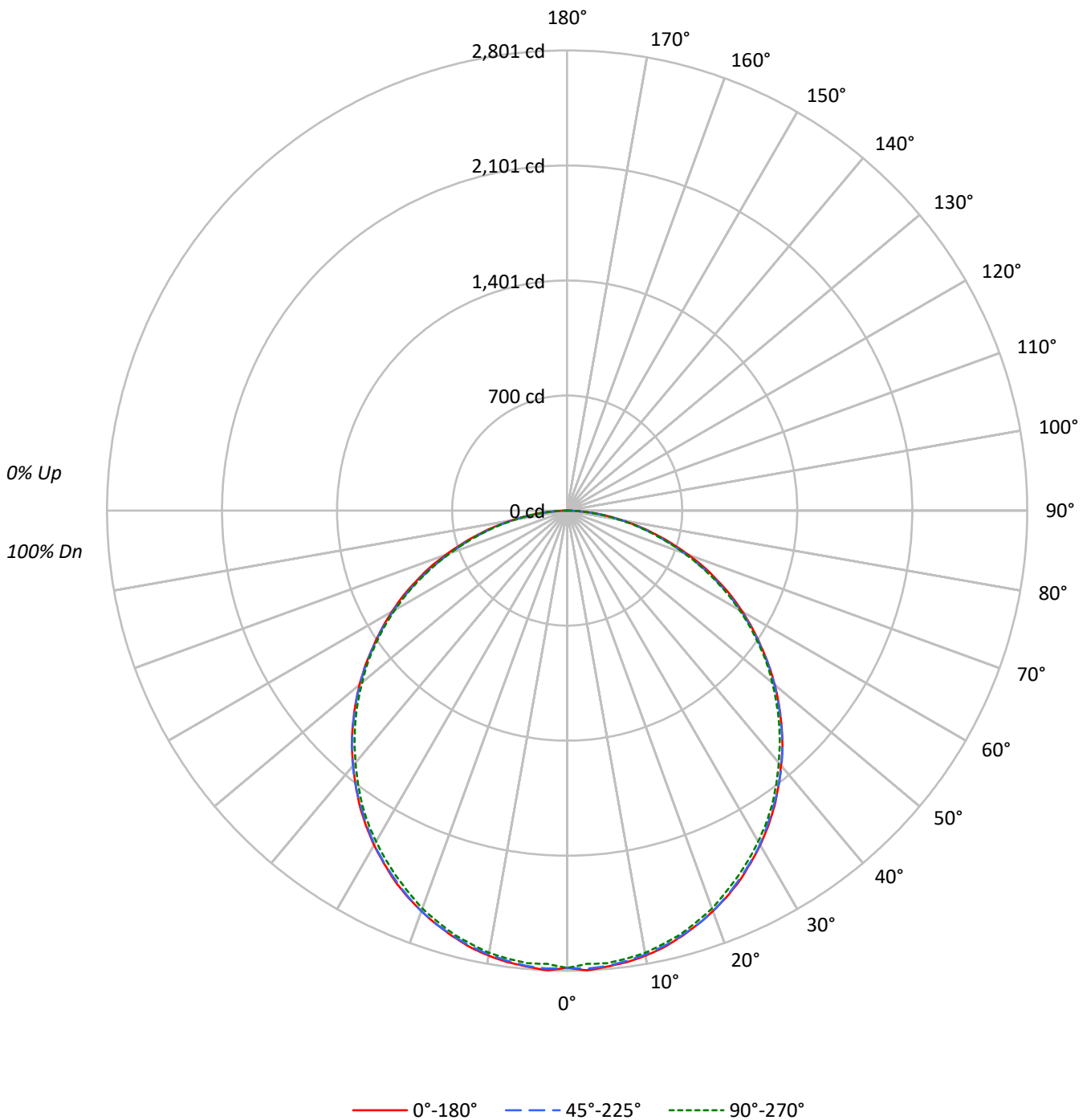
Input Watts (W): 78.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7489	7489	7489
5°	7528	7518	7470
10°	7518	7499	7469
15°	7477	7467	7438
20°	7432	7432	7382
25°	7380	7359	7296
30°	7306	7295	7228
35°	7224	7200	7154
40°	7115	7127	7040
45°	7021	7007	6940
50°	6908	6893	6819
55°	6761	6745	6695
60°	6632	6575	6518
65°	6448	6336	6290
70°	6157	5990	5962
75°	5780	5596	5559
80°	5267	5157	5049
85°	4591	4372	4264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.5	3.3
10°-20°	753.8	9.5
20°-30°	1137.1	14.3
30°-40°	1365.6	17.2
40°-50°	1414.4	17.8
50°-60°	1281.4	16.1
60°-70°	983.5	12.4
70°-80°	573.3	7.2
80°-90°	163.5	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°	2154.3	27.1
0°-40°	3520.0	44.4
0°-60°	6215.7	78.3
0°-90°	7936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7936.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2783	2783	2783	2783	2783	
5°	2787	2765	2783	2765	2765	265
15°	2684	2663	2680	2666	2670	758
25°	2486	2464	2479	2454	2457	1145
35°	2199	2185	2192	2167	2178	1375
45°	1845	1841	1841	1816	1824	1423
55°	1441	1445	1438	1416	1427	1290
65°	1013	1002	995	984	988	1002
75°	556	549	538	531	535	590
85°	149	149	142	135	138	170
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2783.1	2783.1	2783.1	2783.1	2783.1
2.5°	2800.8	2776.0	2790.2	2776.0	2761.9
5°	2786.7	2765.4	2783.1	2765.4	2765.4
7.5°	2772.5	2751.2	2765.4	2747.7	2751.2
10°	2751.2	2730.0	2744.2	2730.0	2733.5
12.5°	2722.9	2698.1	2715.8	2701.7	2701.7
15°	2684.0	2662.7	2680.4	2666.3	2669.8
17.5°	2641.5	2620.2	2641.5	2623.8	2623.8
20°	2595.4	2574.2	2595.4	2574.2	2577.7
22.5°	2542.3	2524.6	2538.8	2514.0	2517.5
25°	2485.7	2464.4	2478.6	2453.8	2457.4
27.5°	2418.4	2400.7	2414.9	2390.1	2393.6
30°	2351.1	2333.4	2347.6	2319.3	2326.3
32.5°	2276.8	2259.1	2269.7	2248.4	2255.5
35°	2198.9	2184.7	2191.8	2167.0	2177.6
37.5°	2113.9	2103.3	2113.9	2085.6	2092.6
40°	2025.4	2018.3	2028.9	2000.6	2004.1
42.5°	1940.4	1929.8	1940.4	1912.1	1915.6
45°	1844.8	1841.2	1841.2	1816.5	1823.5
47.5°	1749.2	1745.6	1745.6	1720.9	1727.9
50°	1650.0	1650.0	1646.5	1621.7	1628.8
52.5°	1547.4	1547.4	1543.8	1522.6	1533.2
55°	1441.1	1444.7	1437.6	1416.3	1427.0
57.5°	1338.4	1338.4	1331.4	1313.7	1320.7
60°	1232.2	1228.7	1221.6	1203.9	1211.0
62.5°	1126.0	1118.9	1108.3	1094.1	1101.2
65°	1012.7	1002.1	995.0	984.4	987.9
67.5°	902.9	888.8	878.1	864.0	871.1
70°	782.5	771.9	761.3	750.7	757.7
72.5°	669.2	658.6	648.0	640.9	644.4
75°	555.9	548.8	538.2	531.1	534.7
77.5°	449.7	439.1	435.5	424.9	428.4
80°	339.9	336.4	332.8	322.2	325.8
82.5°	240.8	240.8	233.7	226.6	230.2
85°	148.7	148.7	141.6	134.6	138.1
87.5°	63.7	60.2	60.2	56.7	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)