

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: P395321

Luminaire Tested: **8FSN6-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: P395321  
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-MID  
Description: 8FT 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: 6640.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 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

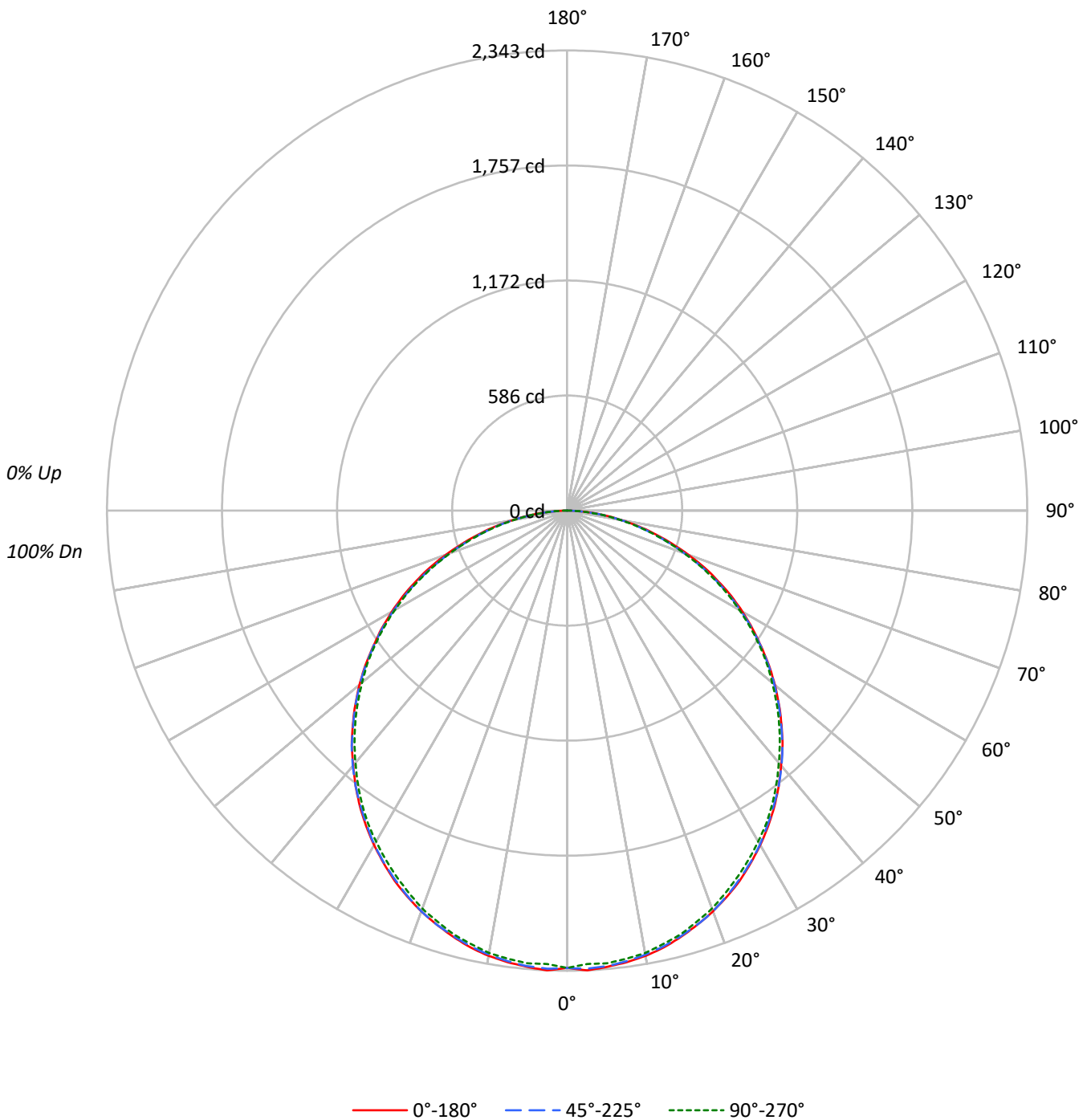
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6266	6266	6266
5°	6298	6290	6250
10°	6290	6274	6249
15°	6256	6248	6223
20°	6219	6219	6176
25°	6175	6157	6105
30°	6113	6103	6048
35°	6044	6025	5985
40°	5953	5963	5890
45°	5874	5863	5806
50°	5780	5767	5705
55°	5657	5643	5601
60°	5549	5501	5453
65°	5395	5301	5263
70°	5151	5012	4988
75°	4836	4682	4652
80°	4407	4316	4224
85°	3841	3659	3566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.4	3.3
10°-20°	630.7	9.5
20°-30°	951.4	14.3
30°-40°	1142.6	17.2
40°-50°	1183.4	17.8
50°-60°	1072.1	16.1
60°-70°	822.9	12.4
70°-80°	479.6	7.2
80°-90°	136.8	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°	1802.5	27.1
0°-40°	2945.1	44.4
0°-60°	5200.7	78.3
0°-90°	6640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6640.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2332	2314	2329	2314	2314	222
15°	2246	2228	2243	2231	2234	634
25°	2080	2062	2074	2053	2056	958
35°	1840	1828	1834	1813	1822	1150
45°	1544	1541	1541	1520	1526	1191
55°	1206	1209	1203	1185	1194	1079
65°	847	838	832	824	827	838
75°	465	459	450	444	447	493
85°	124	124	118	113	116	142
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2328.6	2328.6	2328.6	2328.6	2328.6
2.5°	2343.4	2322.7	2334.5	2322.7	2310.8
5°	2331.6	2313.8	2328.6	2313.8	2313.8
7.5°	2319.7	2301.9	2313.8	2299.0	2301.9
10°	2301.9	2284.2	2296.0	2284.2	2287.1
12.5°	2278.2	2257.5	2272.3	2260.5	2260.5
15°	2245.7	2227.9	2242.7	2230.8	2233.8
17.5°	2210.1	2192.3	2210.1	2195.3	2195.3
20°	2171.6	2153.8	2171.6	2153.8	2156.8
22.5°	2127.2	2112.3	2124.2	2103.5	2106.4
25°	2079.8	2062.0	2073.8	2053.1	2056.1
27.5°	2023.5	2008.6	2020.5	1999.8	2002.7
30°	1967.2	1952.4	1964.2	1940.5	1946.4
32.5°	1905.0	1890.1	1899.0	1881.3	1887.2
35°	1839.8	1827.9	1833.9	1813.1	1822.0
37.5°	1768.7	1759.8	1768.7	1745.0	1750.9
40°	1694.6	1688.7	1697.6	1673.9	1676.8
42.5°	1623.5	1614.6	1623.5	1599.8	1602.8
45°	1543.5	1540.6	1540.6	1519.8	1525.7
47.5°	1463.5	1460.6	1460.6	1439.8	1445.8
50°	1380.6	1380.6	1377.6	1356.9	1362.8
52.5°	1294.7	1294.7	1291.7	1273.9	1282.8
55°	1205.8	1208.7	1202.8	1185.0	1193.9
57.5°	1119.9	1119.9	1113.9	1099.1	1105.1
60°	1031.0	1028.0	1022.1	1007.3	1013.2
62.5°	942.1	936.2	927.3	915.4	921.4
65°	847.3	838.4	832.5	823.6	826.6
67.5°	755.5	743.6	734.7	722.9	728.8
70°	654.7	645.8	637.0	628.1	634.0
72.5°	559.9	551.0	542.2	536.2	539.2
75°	465.1	459.2	450.3	444.4	447.4
77.5°	376.3	367.4	364.4	355.5	358.5
80°	284.4	281.4	278.5	269.6	272.6
82.5°	201.5	201.5	195.5	189.6	192.6
85°	124.4	124.4	118.5	112.6	115.5
87.5°	53.3	50.4	50.4	47.4	47.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)