

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: P395309

Luminaire Tested: **8FSN6-SL1-CP125-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: P395309  
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-CP125-L8SCT3-3000K-MID  
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6568.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

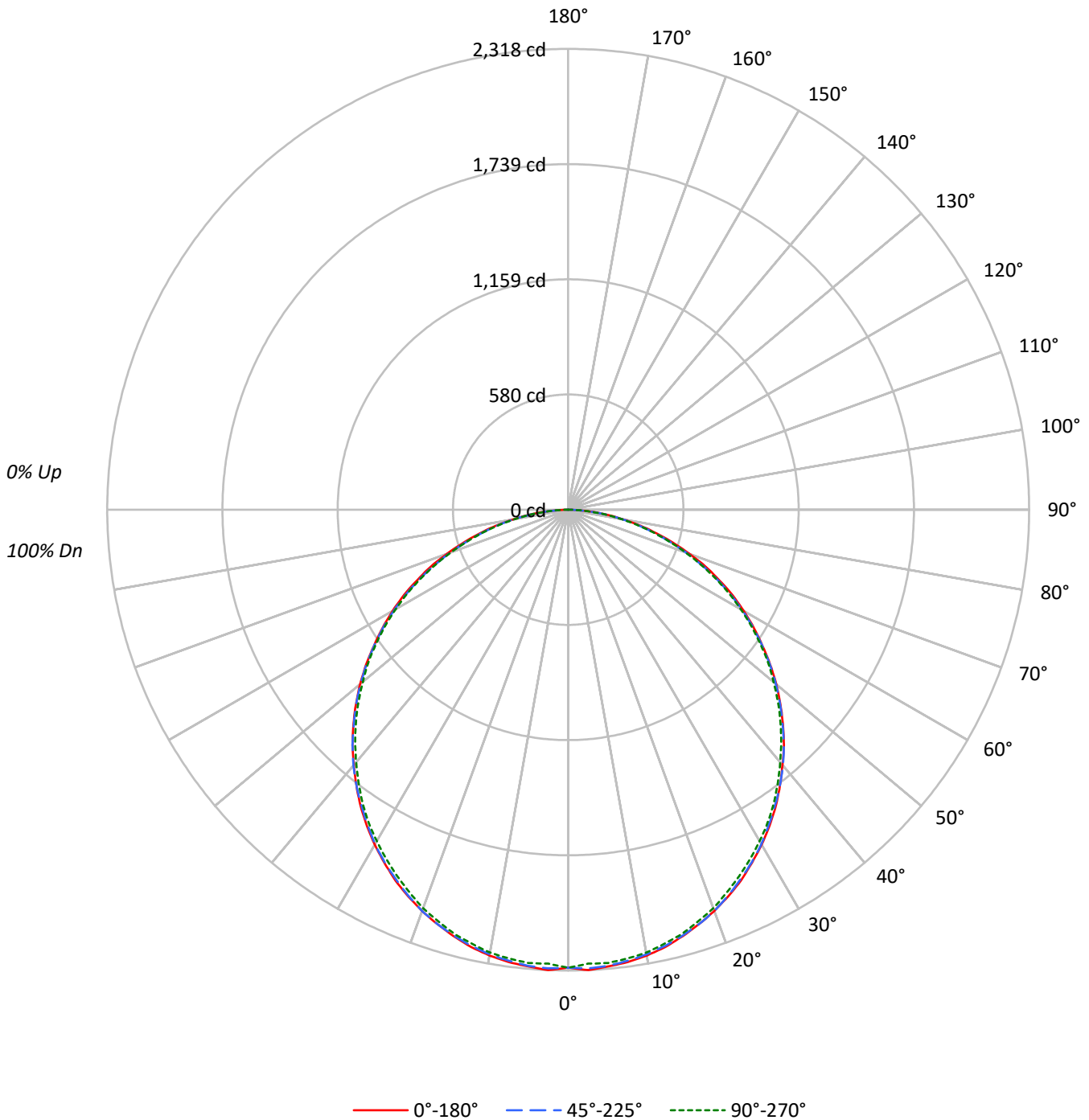
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6198	6198	6198
5°	6230	6222	6182
10°	6222	6206	6182
15°	6188	6180	6156
20°	6151	6151	6109
25°	6108	6091	6039
30°	6046	6037	5982
35°	5978	5959	5920
40°	5888	5899	5827
45°	5810	5799	5743
50°	5717	5705	5643
55°	5596	5582	5541
60°	5489	5441	5394
65°	5337	5244	5206
70°	5095	4958	4934
75°	4784	4631	4601
80°	4359	4269	4178
85°	3801	3619	3529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.0	3.3
10°-20°	623.8	9.5
20°-30°	941.1	14.3
30°-40°	1130.2	17.2
40°-50°	1170.6	17.8
50°-60°	1060.5	16.1
60°-70°	814.0	12.4
70°-80°	474.4	7.2
80°-90°	135.3	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°	1783.0	27.1
0°-40°	2913.2	44.4
0°-60°	5144.3	78.3
0°-90°	6568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6568.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2303	2303	2303	2303	2303	
5°	2306	2289	2303	2289	2289	219
15°	2221	2204	2218	2207	2210	627
25°	2057	2040	2051	2031	2034	947
35°	1820	1808	1814	1794	1802	1138
45°	1527	1524	1524	1503	1509	1178
55°	1193	1196	1190	1172	1181	1068
65°	838	829	824	815	818	829
75°	460	454	445	440	442	488
85°	123	123	117	111	114	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2303.4	2303.4	2303.4	2303.4	2303.4
2.5°	2318.0	2297.5	2309.2	2297.5	2285.8
5°	2306.3	2288.7	2303.4	2288.7	2288.7
7.5°	2294.6	2277.0	2288.7	2274.1	2277.0
10°	2277.0	2259.4	2271.1	2259.4	2262.3
12.5°	2253.5	2233.0	2247.7	2236.0	2236.0
15°	2221.3	2203.7	2218.4	2206.7	2209.6
17.5°	2186.1	2168.6	2186.1	2171.5	2171.5
20°	2148.0	2130.5	2148.0	2130.5	2133.4
22.5°	2104.1	2089.4	2101.2	2080.6	2083.6
25°	2057.2	2039.6	2051.3	2030.8	2033.8
27.5°	2001.5	1986.9	1998.6	1978.1	1981.0
30°	1945.8	1931.2	1942.9	1919.5	1925.3
32.5°	1884.3	1869.6	1878.4	1860.9	1866.7
35°	1819.8	1808.1	1814.0	1793.5	1802.2
37.5°	1749.5	1740.7	1749.5	1726.1	1731.9
40°	1676.2	1670.4	1679.2	1655.7	1658.7
42.5°	1605.9	1597.1	1605.9	1582.5	1585.4
45°	1526.8	1523.9	1523.9	1503.3	1509.2
47.5°	1447.7	1444.7	1444.7	1424.2	1430.1
50°	1365.6	1365.6	1362.7	1342.2	1348.0
52.5°	1280.6	1280.6	1277.7	1260.1	1268.9
55°	1192.7	1195.6	1189.8	1172.2	1181.0
57.5°	1107.7	1107.7	1101.9	1087.2	1093.1
60°	1019.8	1016.9	1011.0	996.4	1002.2
62.5°	931.9	926.0	917.2	905.5	911.4
65°	838.1	829.3	823.5	814.7	817.6
67.5°	747.3	735.6	726.8	715.0	720.9
70°	647.6	638.8	630.1	621.3	627.1
72.5°	553.9	545.1	536.3	530.4	533.3
75°	460.1	454.2	445.4	439.6	442.5
77.5°	372.2	363.4	360.4	351.7	354.6
80°	281.3	278.4	275.5	266.7	269.6
82.5°	199.3	199.3	193.4	187.6	190.5
85°	123.1	123.1	117.2	111.4	114.3
87.5°	52.7	49.8	49.8	46.9	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)