

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: P395219

Luminaire Tested: **4FSN6-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: P395219  
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-CP125-L8SCT3-3000K-MID  
Description: 4FT 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: 3107.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

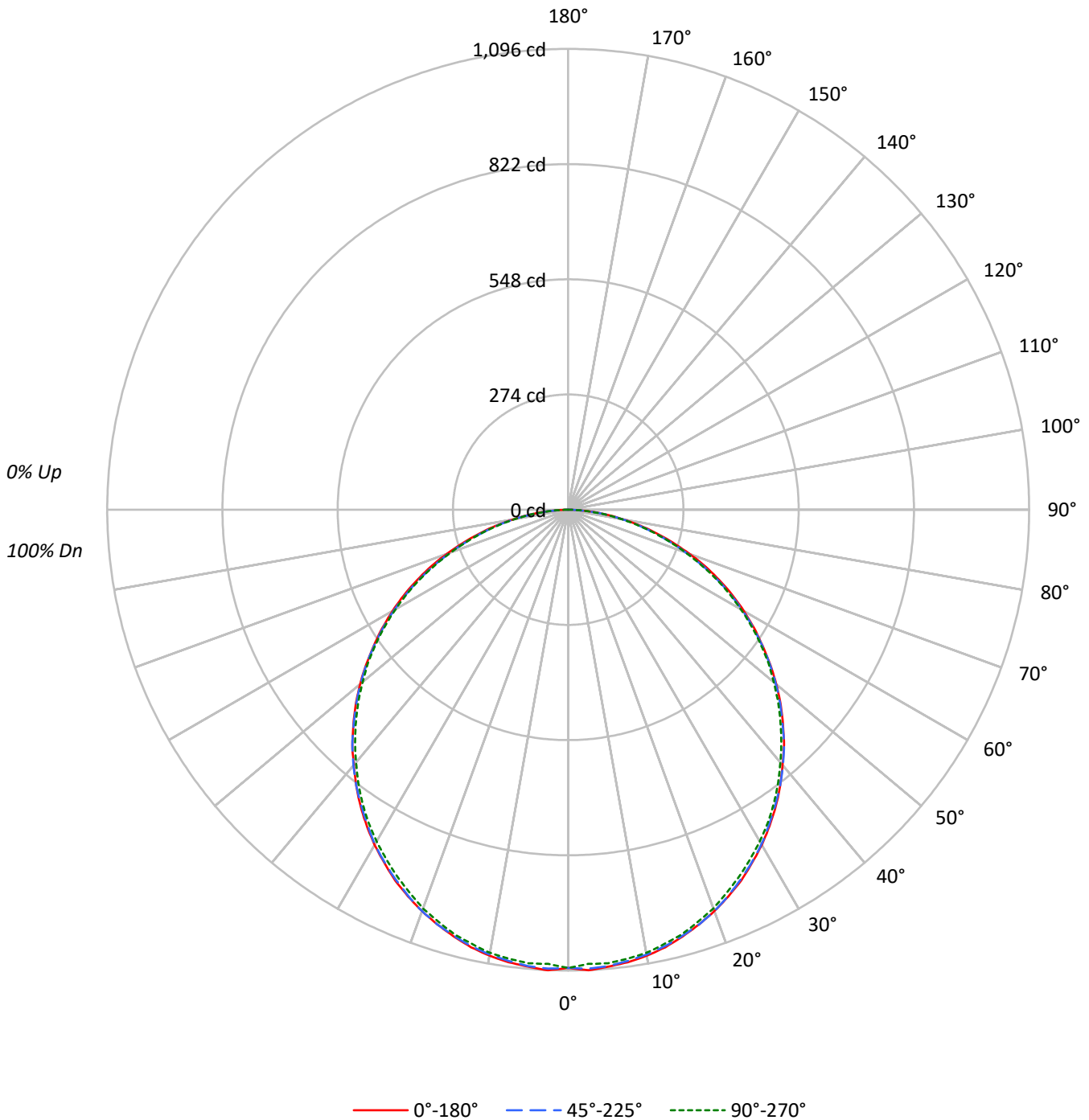
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5864	5864	5864
5°	5894	5887	5849
10°	5886	5872	5849
15°	5855	5847	5824
20°	5820	5820	5780
25°	5779	5763	5713
30°	5720	5712	5660
35°	5656	5638	5602
40°	5571	5580	5512
45°	5497	5487	5434
50°	5409	5397	5339
55°	5294	5281	5242
60°	5193	5148	5103
65°	5049	4960	4926
70°	4821	4689	4669
75°	4525	4381	4352
80°	4125	4038	3952
85°	3594	3427	3341



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	3.3
10°-20°	295.1	9.5
20°-30°	445.2	14.3
30°-40°	534.7	17.2
40°-50°	553.8	17.8
50°-60°	501.7	16.1
60°-70°	385.0	12.4
70°-80°	224.4	7.2
80°-90°	64.0	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°	843.4	27.1
0°-40°	1378.1	44.4
0°-60°	2433.5	78.3
0°-90°	3107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1091	1083	1090	1083	1083	104
15°	1051	1042	1049	1044	1045	297
25°	973	965	970	961	962	448
35°	861	855	858	848	853	538
45°	722	721	721	711	714	557
55°	564	566	563	554	559	505
65°	396	392	390	385	387	392
75°	218	215	211	208	209	231
85°	58	58	56	53	54	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1089.6	1089.6	1089.6	1089.6	1089.6
2.5°	1096.5	1086.8	1092.4	1086.8	1081.3
5°	1091.0	1082.7	1089.6	1082.7	1082.7
7.5°	1085.4	1077.1	1082.7	1075.7	1077.1
10°	1077.1	1068.8	1074.4	1068.8	1070.2
12.5°	1066.0	1056.3	1063.3	1057.7	1057.7
15°	1050.8	1042.5	1049.4	1043.9	1045.2
17.5°	1034.2	1025.8	1034.2	1027.2	1027.2
20°	1016.1	1007.8	1016.1	1007.8	1009.2
22.5°	995.3	988.4	994.0	984.3	985.6
25°	973.2	964.8	970.4	960.7	962.1
27.5°	946.8	939.9	945.4	935.7	937.1
30°	920.5	913.6	919.1	908.0	910.8
32.5°	891.4	884.4	888.6	880.3	883.1
35°	860.9	855.3	858.1	848.4	852.6
37.5°	827.6	823.4	827.6	816.5	819.3
40°	792.9	790.2	794.3	783.2	784.6
42.5°	759.7	755.5	759.7	748.6	750.0
45°	722.2	720.9	720.9	711.2	713.9
47.5°	684.8	683.4	683.4	673.7	676.5
50°	646.0	646.0	644.6	634.9	637.7
52.5°	605.8	605.8	604.4	596.1	600.3
55°	564.2	565.6	562.8	554.5	558.7
57.5°	524.0	524.0	521.2	514.3	517.1
60°	482.4	481.0	478.3	471.3	474.1
62.5°	440.8	438.1	433.9	428.4	431.1
65°	396.5	392.3	389.5	385.4	386.8
67.5°	353.5	348.0	343.8	338.2	341.0
70°	306.4	302.2	298.0	293.9	296.7
72.5°	262.0	257.8	253.7	250.9	252.3
75°	217.6	214.9	210.7	207.9	209.3
77.5°	176.1	171.9	170.5	166.4	167.7
80°	133.1	131.7	130.3	126.2	127.5
82.5°	94.3	94.3	91.5	88.7	90.1
85°	58.2	58.2	55.5	52.7	54.1
87.5°	25.0	23.6	23.6	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)