

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: P395217

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-3000K-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: P395217
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-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH 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: 3910.0 lumens
Efficiency: N/A
Efficacy: 108.3 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

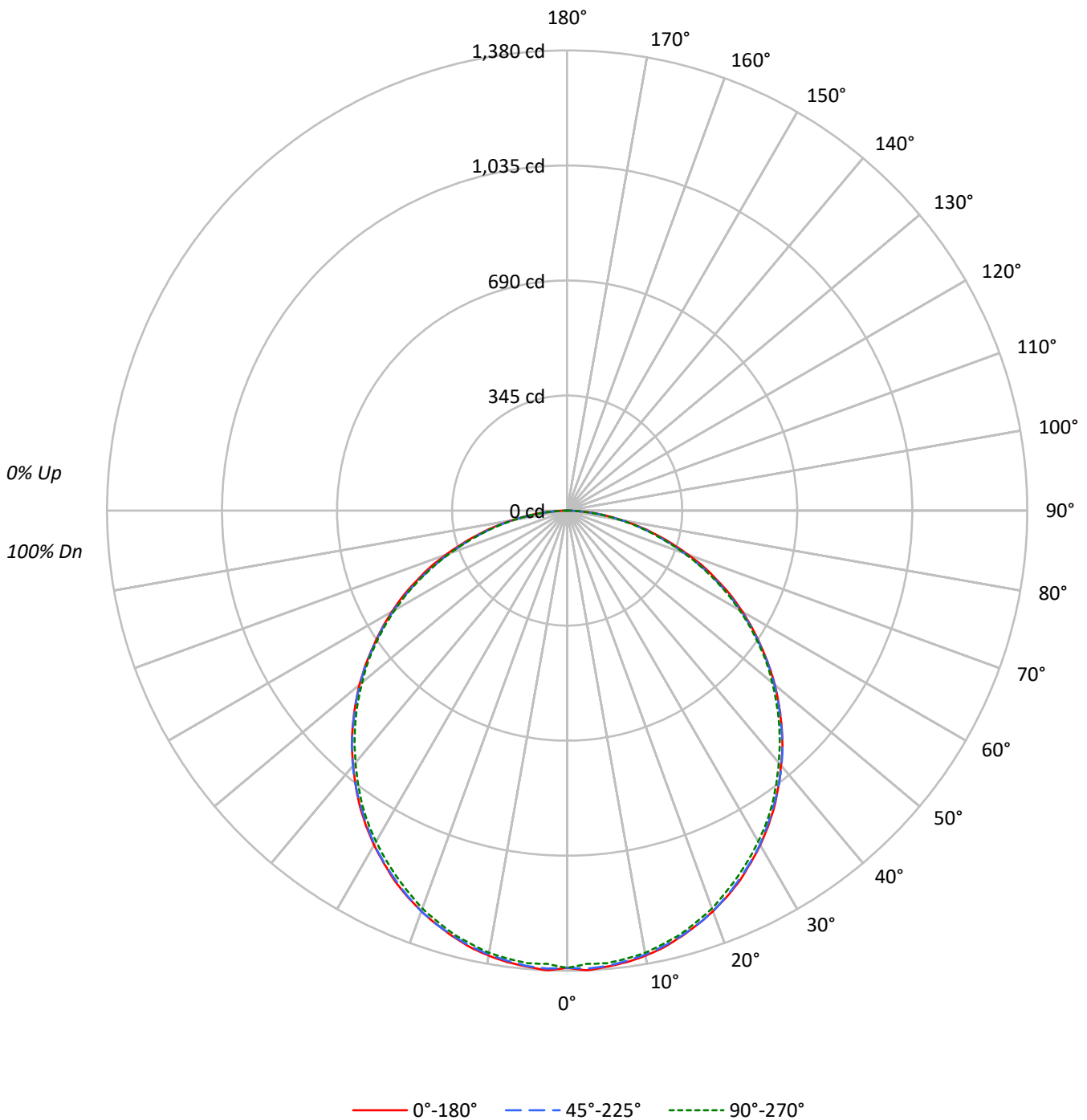
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7380	7380	7380
5°	7418	7408	7361
10°	7408	7389	7360
15°	7368	7358	7329
20°	7324	7324	7274
25°	7273	7252	7190
30°	7199	7188	7123
35°	7118	7095	7049
40°	7011	7023	6937
45°	6918	6905	6838
50°	6807	6792	6719
55°	6662	6646	6597
60°	6535	6479	6422
65°	6353	6243	6198
70°	6066	5902	5874
75°	5696	5515	5477
80°	5191	5083	4974
85°	4526	4310	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.3
10°-20°	371.4	9.5
20°-30°	560.2	14.3
30°-40°	672.8	17.2
40°-50°	696.9	17.8
50°-60°	631.3	16.1
60°-70°	484.6	12.4
70°-80°	282.4	7.2
80°-90°	80.6	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°	1061.4	27.1
0°-40°	1734.3	44.4
0°-60°	3062.5	78.3
0°-90°	3910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1373	1362	1371	1362	1362	131
15°	1322	1312	1321	1314	1315	373
25°	1225	1214	1221	1209	1211	564
35°	1083	1076	1080	1068	1073	677
45°	909	907	907	895	898	701
55°	710	712	708	698	703	636
65°	499	494	490	485	487	494
75°	274	270	265	262	263	291
85°	73	73	70	66	68	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.2	1371.2	1371.2	1371.2	1371.2
2.5°	1379.9	1367.7	1374.7	1367.7	1360.7
5°	1373.0	1362.5	1371.2	1362.5	1362.5
7.5°	1366.0	1355.5	1362.5	1353.8	1355.5
10°	1355.5	1345.0	1352.0	1345.0	1346.8
12.5°	1341.6	1329.3	1338.1	1331.1	1331.1
15°	1322.4	1311.9	1320.6	1313.6	1315.4
17.5°	1301.4	1291.0	1301.4	1292.7	1292.7
20°	1278.8	1268.3	1278.8	1268.3	1270.0
22.5°	1252.6	1243.9	1250.8	1238.6	1240.4
25°	1224.7	1214.2	1221.2	1209.0	1210.7
27.5°	1191.5	1182.8	1189.8	1177.6	1179.3
30°	1158.4	1149.7	1156.6	1142.7	1146.2
32.5°	1121.7	1113.0	1118.3	1107.8	1111.3
35°	1083.4	1076.4	1079.9	1067.7	1072.9
37.5°	1041.5	1036.3	1041.5	1027.5	1031.0
40°	997.9	994.4	999.6	985.7	987.4
42.5°	956.0	950.8	956.0	942.1	943.8
45°	908.9	907.2	907.2	895.0	898.4
47.5°	861.8	860.1	860.1	847.9	851.3
50°	813.0	813.0	811.2	799.0	802.5
52.5°	762.4	762.4	760.6	750.2	755.4
55°	710.0	711.8	708.3	697.8	703.1
57.5°	659.4	659.4	656.0	647.2	650.7
60°	607.1	605.4	601.9	593.1	596.6
62.5°	554.8	551.3	546.0	539.1	542.6
65°	498.9	493.7	490.2	485.0	486.7
67.5°	444.9	437.9	432.6	425.7	429.2
70°	385.5	380.3	375.1	369.8	373.3
72.5°	329.7	324.5	319.3	315.8	317.5
75°	273.9	270.4	265.2	261.7	263.4
77.5°	221.6	216.3	214.6	209.3	211.1
80°	167.5	165.7	164.0	158.8	160.5
82.5°	118.6	118.6	115.1	111.7	113.4
85°	73.3	73.3	69.8	66.3	68.0
87.5°	31.4	29.7	29.7	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)