

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: P395220

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-3500K-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: P395220
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-L8SCT3-3500K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3955.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

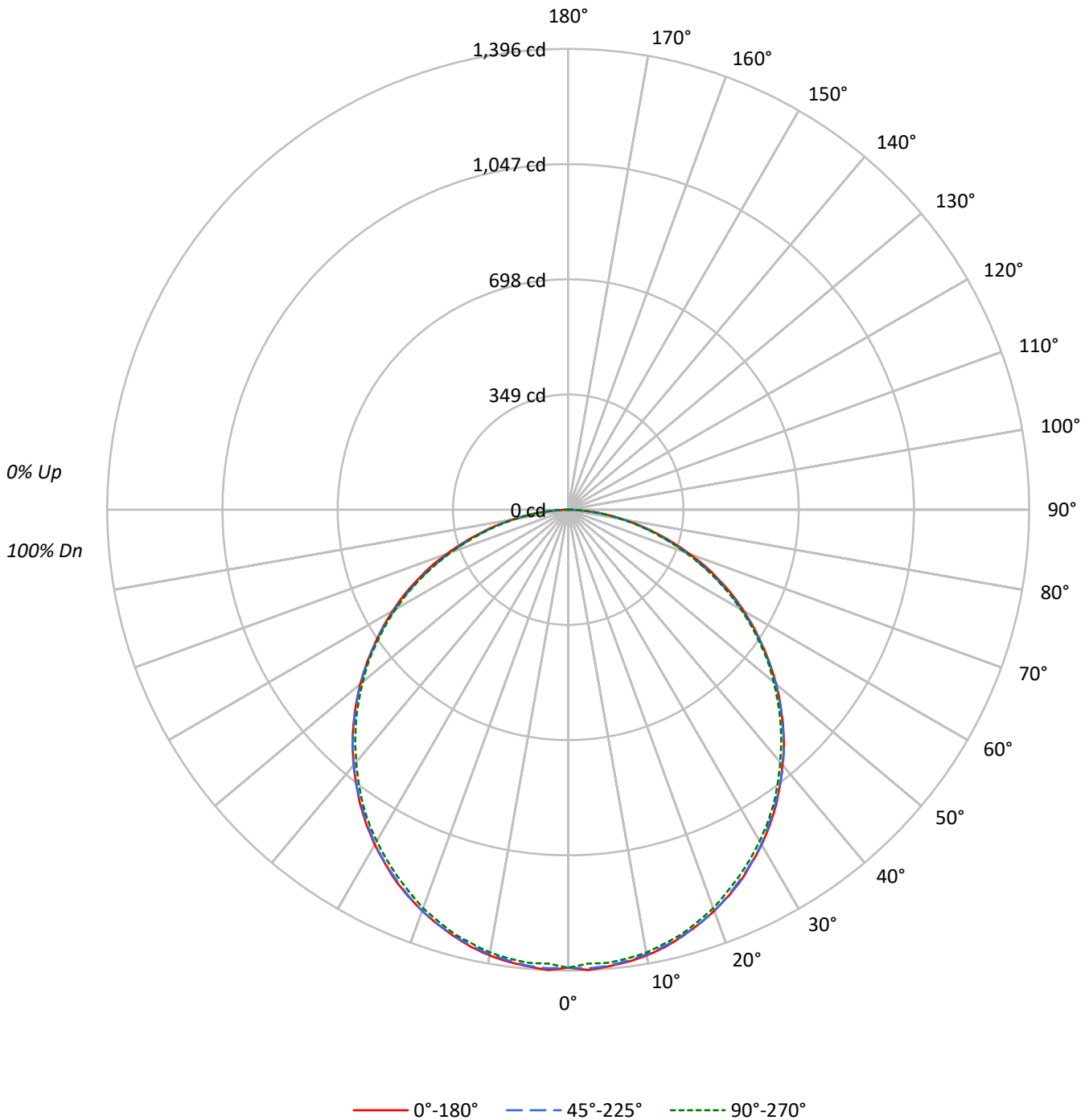
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7465	7465	7465
5°	7503	7493	7446
10°	7493	7474	7445
15°	7453	7443	7413
20°	7408	7408	7357
25°	7356	7335	7273
30°	7282	7270	7205
35°	7200	7177	7130
40°	7092	7104	7017
45°	6998	6984	6917
50°	6885	6871	6796
55°	6739	6722	6672
60°	6610	6553	6496
65°	6427	6315	6269
70°	6137	5970	5942
75°	5760	5577	5542
80°	5250	5142	5030
85°	4576	4360	4248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.3
10°-20°	375.6	9.5
20°-30°	566.7	14.3
30°-40°	680.6	17.2
40°-50°	704.9	17.8
50°-60°	638.6	16.1
60°-70°	490.1	12.4
70°-80°	285.7	7.2
80°-90°	81.5	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°	1073.6	27.1
0°-40°	1754.2	44.4
0°-60°	3097.7	78.3
0°-90°	3955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1389	1378	1387	1378	1378	132
15°	1338	1327	1336	1329	1330	378
25°	1239	1228	1235	1223	1225	570
35°	1096	1089	1092	1080	1085	685
45°	919	918	918	905	909	709
55°	718	720	716	706	711	643
65°	505	499	496	491	492	499
75°	277	274	268	265	266	294
85°	74	74	71	67	69	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.0	1387.0	1387.0	1387.0	1387.0
2.5°	1395.8	1383.5	1390.5	1383.5	1376.4
5°	1388.8	1378.2	1387.0	1378.2	1378.2
7.5°	1381.7	1371.1	1378.2	1369.4	1371.1
10°	1371.1	1360.5	1367.6	1360.5	1362.3
12.5°	1357.0	1344.6	1353.5	1346.4	1346.4
15°	1337.6	1327.0	1335.8	1328.8	1330.5
17.5°	1316.4	1305.8	1316.4	1307.6	1307.6
20°	1293.5	1282.9	1293.5	1282.9	1284.6
22.5°	1267.0	1258.2	1265.2	1252.9	1254.6
25°	1238.8	1228.2	1235.2	1222.9	1224.7
27.5°	1205.2	1196.4	1203.5	1191.1	1192.9
30°	1171.7	1162.9	1169.9	1155.8	1159.4
32.5°	1134.7	1125.8	1131.1	1120.5	1124.1
35°	1095.8	1088.8	1092.3	1080.0	1085.2
37.5°	1053.5	1048.2	1053.5	1039.4	1042.9
40°	1009.4	1005.8	1011.1	997.0	998.8
42.5°	967.0	961.7	967.0	952.9	954.7
45°	919.4	917.6	917.6	905.3	908.8
47.5°	871.7	870.0	870.0	857.6	861.1
50°	822.3	822.3	820.6	808.2	811.7
52.5°	771.1	771.1	769.4	758.8	764.1
55°	718.2	720.0	716.4	705.9	711.1
57.5°	667.0	667.0	663.5	654.7	658.2
60°	614.1	612.3	608.8	600.0	603.5
62.5°	561.2	557.6	552.3	545.3	548.8
65°	504.7	499.4	495.9	490.6	492.3
67.5°	450.0	442.9	437.6	430.6	434.1
70°	390.0	384.7	379.4	374.1	377.6
72.5°	333.5	328.2	322.9	319.4	321.2
75°	277.0	273.5	268.2	264.7	266.5
77.5°	224.1	218.8	217.0	211.8	213.5
80°	169.4	167.6	165.9	160.6	162.3
82.5°	120.0	120.0	116.5	112.9	114.7
85°	74.1	74.1	70.6	67.1	68.8
87.5°	31.8	30.0	30.0	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)