

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: P395223

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-4000K-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: P395223  
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-L8SCT3-4000K-HI  
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 111.4 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

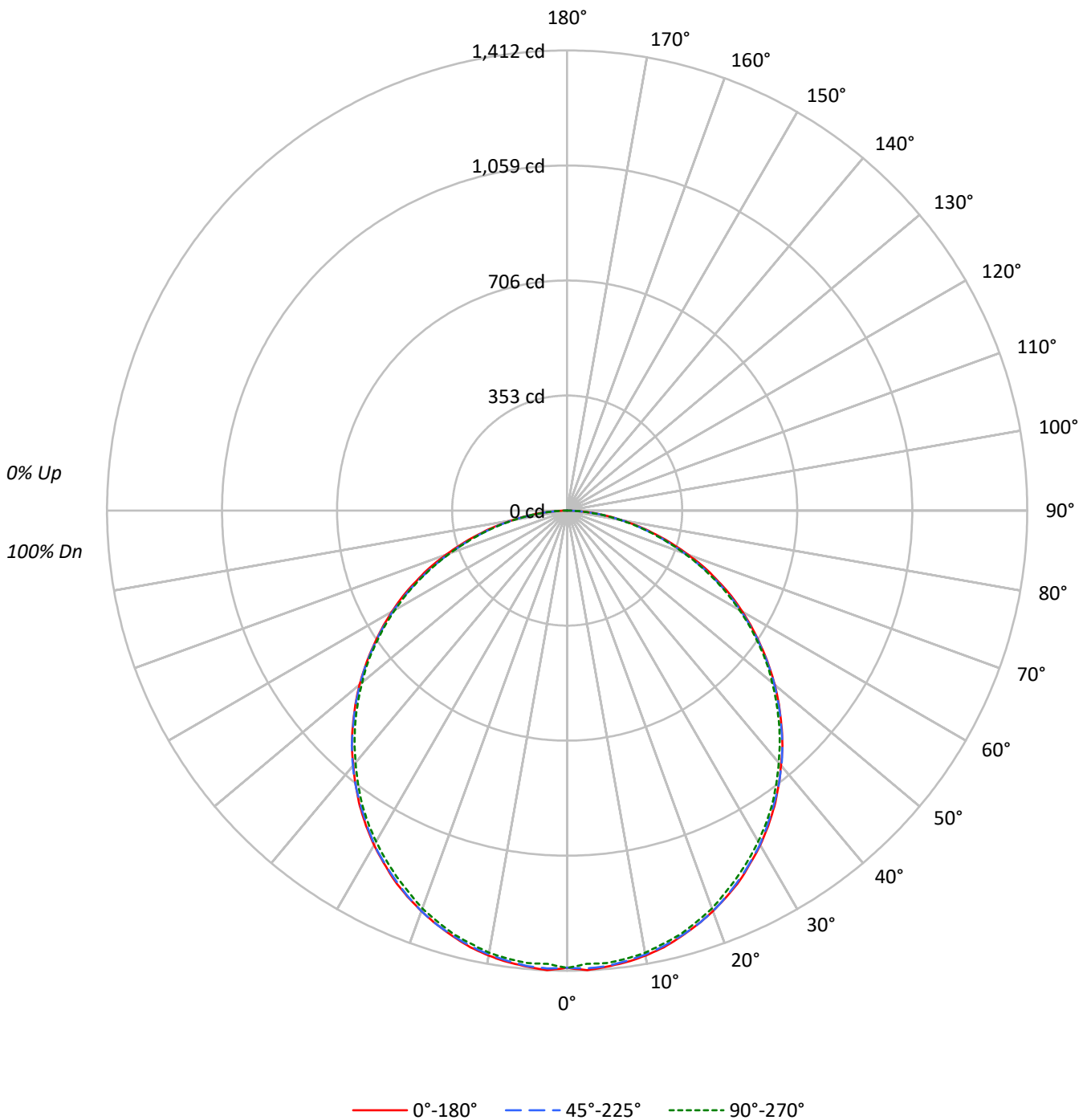
Input Watts (W): 35.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
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°	7550	7550	7550
5°	7588	7579	7531
10°	7578	7559	7530
15°	7538	7528	7498
20°	7493	7493	7442
25°	7440	7419	7355
30°	7364	7354	7287
35°	7282	7258	7211
40°	7172	7184	7097
45°	7077	7063	6995
50°	6964	6949	6874
55°	6816	6799	6748
60°	6685	6627	6570
65°	6500	6387	6341
70°	6206	6038	6009
75°	5827	5641	5604
80°	5309	5201	5089
85°	4631	4409	4298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.3
10°-20°	379.9	9.5
20°-30°	573.1	14.3
30°-40°	688.3	17.2
40°-50°	712.9	17.8
50°-60°	645.9	16.1
60°-70°	495.7	12.4
70°-80°	288.9	7.2
80°-90°	82.4	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°	1085.8	27.1
0°-40°	1774.2	44.4
0°-60°	3132.9	78.3
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1405	1394	1403	1394	1394	134
15°	1353	1342	1351	1344	1346	382
25°	1253	1242	1249	1237	1239	577
35°	1108	1101	1105	1092	1098	693
45°	930	928	928	916	919	717
55°	726	728	725	714	719	650
65°	510	505	502	496	498	505
75°	280	277	271	268	270	297
85°	75	75	71	68	70	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1402.8	1402.8	1402.8	1402.8	1402.8
2.5°	1411.7	1399.2	1406.3	1399.2	1392.1
5°	1404.6	1393.9	1402.8	1393.9	1393.9
7.5°	1397.4	1386.7	1393.9	1384.9	1386.7
10°	1386.7	1376.0	1383.1	1376.0	1377.8
12.5°	1372.4	1359.9	1368.9	1361.7	1361.7
15°	1352.8	1342.1	1351.0	1343.9	1345.7
17.5°	1331.4	1320.7	1331.4	1322.5	1322.5
20°	1308.2	1297.5	1308.2	1297.5	1299.3
22.5°	1281.4	1272.5	1279.6	1267.1	1268.9
25°	1252.9	1242.2	1249.3	1236.8	1238.6
27.5°	1219.0	1210.0	1217.2	1204.7	1206.5
30°	1185.0	1176.1	1183.3	1169.0	1172.6
32.5°	1147.6	1138.6	1144.0	1133.3	1136.9
35°	1108.3	1101.2	1104.7	1092.2	1097.6
37.5°	1065.5	1060.1	1065.5	1051.2	1054.8
40°	1020.9	1017.3	1022.6	1008.4	1010.1
42.5°	978.0	972.7	978.0	963.7	965.5
45°	929.8	928.0	928.0	915.6	919.1
47.5°	881.6	879.9	879.9	867.4	870.9
50°	831.7	831.7	829.9	817.4	821.0
52.5°	779.9	779.9	778.1	767.4	772.8
55°	726.4	728.2	724.6	713.9	719.2
57.5°	674.6	674.6	671.0	662.1	665.7
60°	621.1	619.3	615.7	606.8	610.4
62.5°	567.5	564.0	558.6	551.5	555.0
65°	510.4	505.1	501.5	496.1	497.9
67.5°	455.1	448.0	442.6	435.5	439.0
70°	394.4	389.1	383.7	378.4	381.9
72.5°	337.3	332.0	326.6	323.0	324.8
75°	280.2	276.6	271.3	267.7	269.5
77.5°	226.7	221.3	219.5	214.2	215.9
80°	171.3	169.5	167.8	162.4	164.2
82.5°	121.4	121.4	117.8	114.2	116.0
85°	75.0	75.0	71.4	67.8	69.6
87.5°	32.1	30.3	30.3	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)