

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: P395208

Luminaire Tested: **4FSN6-SL1-CA125-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: P395208  
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-CA125-L8SCT3-3000K-HI  
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4004.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

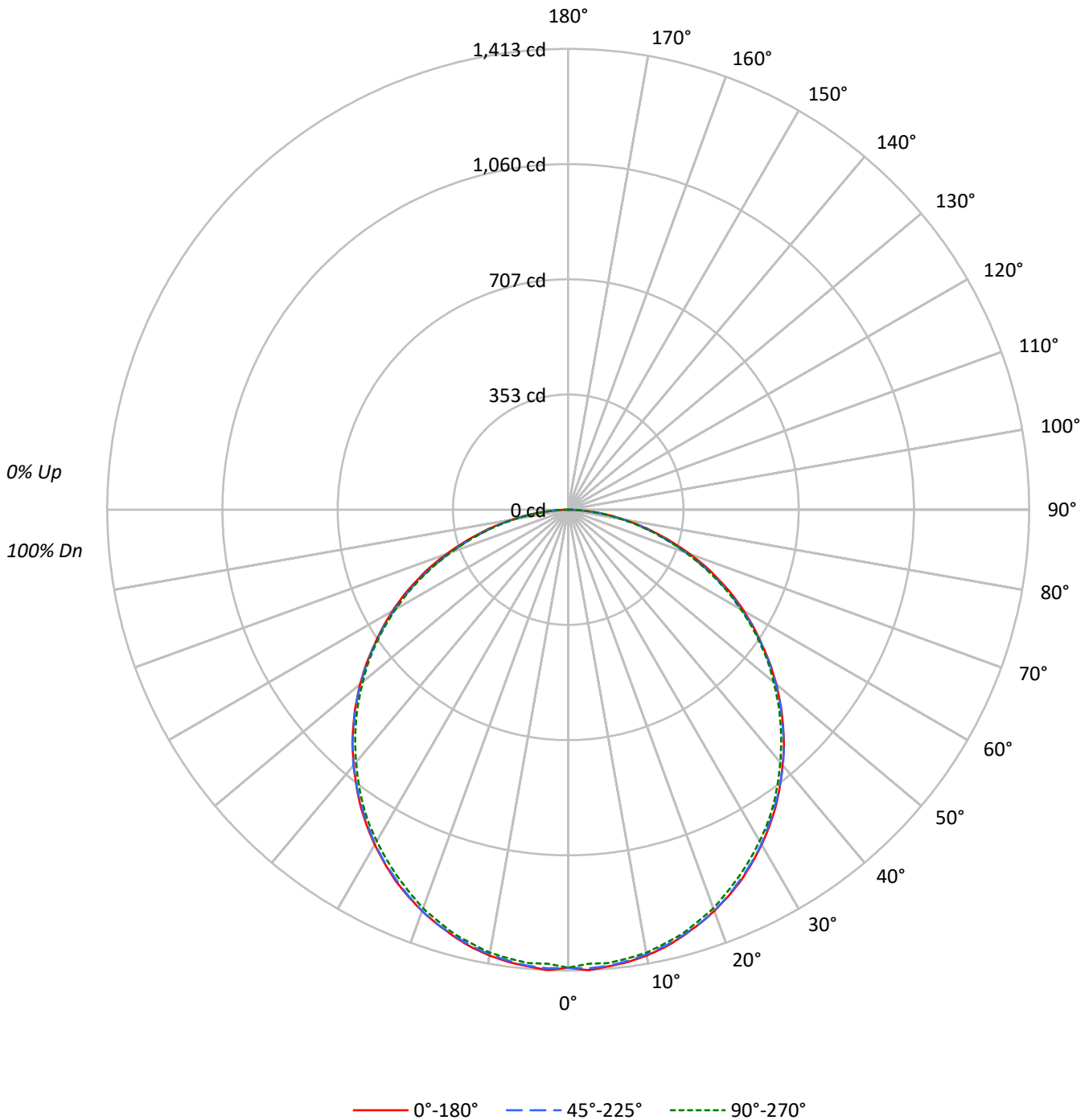
Input Watts (W): 36.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7557	7557	7557
5°	7596	7586	7538
10°	7586	7566	7537
15°	7545	7535	7505
20°	7500	7500	7449
25°	7447	7426	7362
30°	7372	7361	7294
35°	7289	7265	7219
40°	7180	7192	7104
45°	7085	7071	7002
50°	6970	6955	6881
55°	6822	6806	6756
60°	6692	6634	6577
65°	6506	6393	6347
70°	6212	6044	6016
75°	5833	5646	5610
80°	5315	5204	5095
85°	4631	4415	4304



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.9	3.3
10°-20°	380.3	9.5
20°-30°	573.7	14.3
30°-40°	689.0	17.2
40°-50°	713.6	17.8
50°-60°	646.5	16.1
60°-70°	496.2	12.4
70°-80°	289.2	7.2
80°-90°	82.5	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°	1086.9	27.1
0°-40°	1775.9	44.4
0°-60°	3136.1	78.3
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1406	1395	1404	1395	1395	134
15°	1354	1343	1352	1345	1347	382
25°	1254	1243	1250	1238	1240	577
35°	1109	1102	1106	1093	1099	694
45°	931	929	929	916	920	718
55°	727	729	725	715	720	651
65°	511	506	502	497	498	506
75°	280	277	272	268	270	298
85°	75	75	72	68	70	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1413.1	1400.6	1407.8	1400.6	1393.5
5°	1406.0	1395.2	1404.2	1395.2	1395.2
7.5°	1398.8	1388.1	1395.2	1386.3	1388.1
10°	1388.1	1377.4	1384.5	1377.4	1379.2
12.5°	1373.8	1361.3	1370.2	1363.1	1363.1
15°	1354.2	1343.4	1352.4	1345.2	1347.0
17.5°	1332.7	1322.0	1332.7	1323.8	1323.8
20°	1309.5	1298.8	1309.5	1298.8	1300.6
22.5°	1282.7	1273.8	1280.9	1268.4	1270.2
25°	1254.1	1243.4	1250.5	1238.0	1239.8
27.5°	1220.2	1211.2	1218.4	1205.9	1207.7
30°	1186.2	1177.3	1184.4	1170.2	1173.7
32.5°	1148.7	1139.8	1145.1	1134.4	1138.0
35°	1109.4	1102.3	1105.8	1093.3	1098.7
37.5°	1066.5	1061.2	1066.5	1052.2	1055.8
40°	1021.9	1018.3	1023.7	1009.4	1011.2
42.5°	979.0	973.6	979.0	964.7	966.5
45°	930.8	929.0	929.0	916.5	920.0
47.5°	882.5	880.7	880.7	868.2	871.8
50°	832.5	832.5	830.7	818.2	821.8
52.5°	780.7	780.7	778.9	768.2	773.5
55°	727.1	728.9	725.3	714.6	720.0
57.5°	675.3	675.3	671.7	662.8	666.4
60°	621.7	619.9	616.3	607.4	611.0
62.5°	568.1	564.5	559.2	552.0	555.6
65°	510.9	505.6	502.0	496.6	498.4
67.5°	455.6	448.4	443.0	435.9	439.5
70°	394.8	389.5	384.1	378.7	382.3
72.5°	337.6	332.3	326.9	323.4	325.1
75°	280.5	276.9	271.5	268.0	269.8
77.5°	226.9	221.5	219.7	214.4	216.2
80°	171.5	169.7	167.9	162.6	164.4
82.5°	121.5	121.5	117.9	114.3	116.1
85°	75.0	75.0	71.5	67.9	69.7
87.5°	32.2	30.4	30.4	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)