

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: P395218

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-3000K-LO**

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: P395218  
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-LO  
Description: 4FT FSN LINEAR LED FIXTURE WITH LOW 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: 2101.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

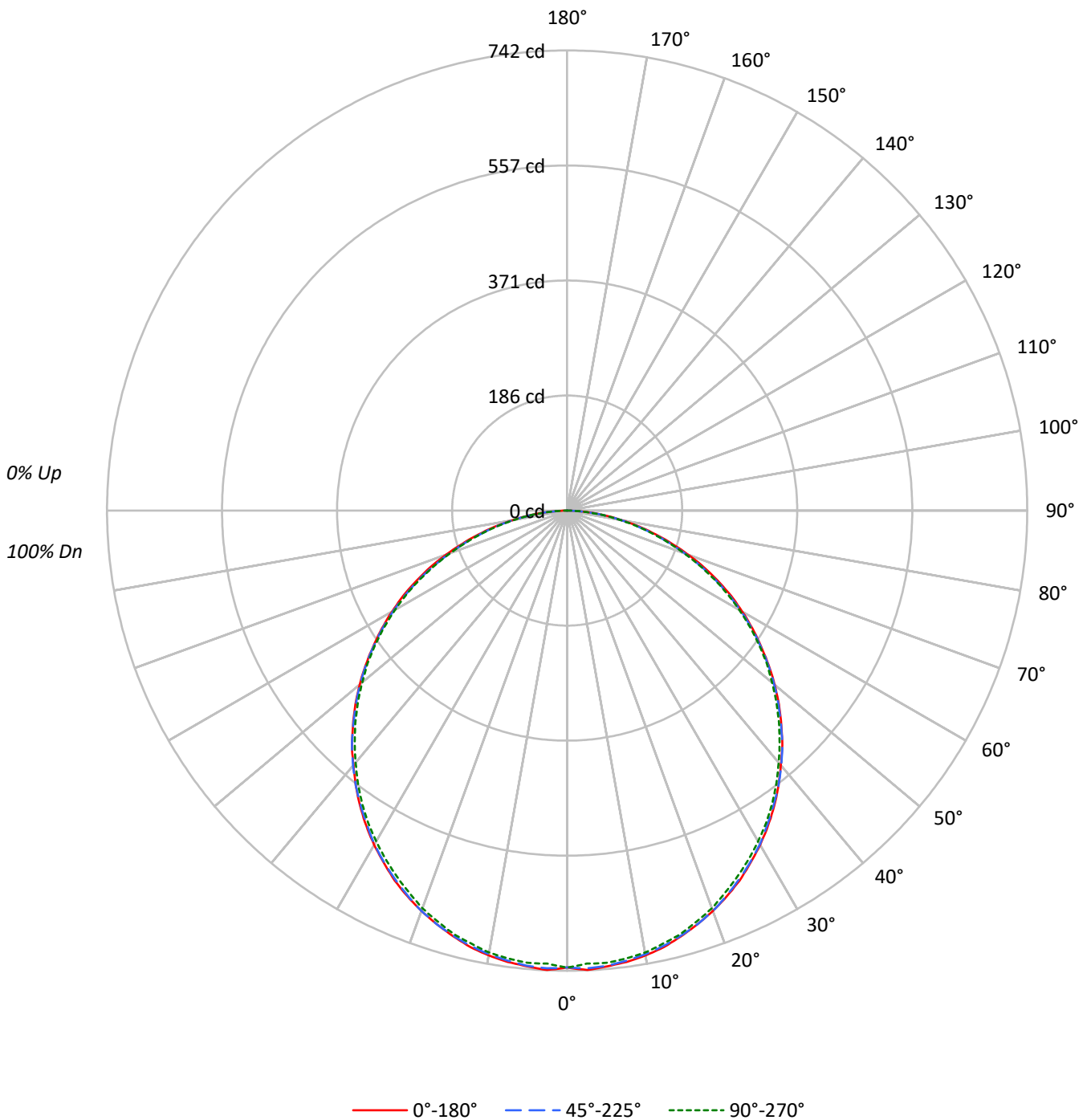
Input Watts (W): 18.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3965	3965	3965
5°	3985	3981	3955
10°	3981	3970	3955
15°	3959	3954	3938
20°	3935	3935	3908
25°	3908	3897	3863
30°	3868	3862	3828
35°	3824	3813	3788
40°	3767	3773	3728
45°	3717	3710	3675
50°	3657	3650	3610
55°	3580	3571	3545
60°	3511	3481	3451
65°	3414	3354	3330
70°	3260	3171	3157
75°	3061	2963	2942
80°	2789	2731	2672
85°	2433	2316	2260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	3.3
10°-20°	199.5	9.5
20°-30°	301.0	14.3
30°-40°	361.5	17.2
40°-50°	374.5	17.8
50°-60°	339.2	16.1
60°-70°	260.4	12.4
70°-80°	151.8	7.2
80°-90°	43.3	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°	570.3	27.1
0°-40°	931.9	44.4
0°-60°	1645.6	78.3
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	738	732	737	732	732	70
15°	711	705	710	706	707	201
25°	658	652	656	650	651	303
35°	582	578	580	574	576	364
45°	488	488	488	481	483	377
55°	382	382	381	375	378	342
65°	268	265	263	261	262	265
75°	147	145	142	141	142	156
85°	39	39	38	36	37	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	736.8	736.8	736.8	736.8	736.8
2.5°	741.5	734.9	738.7	734.9	731.2
5°	737.7	732.1	736.8	732.1	732.1
7.5°	734.0	728.4	732.1	727.4	728.4
10°	728.4	722.7	726.5	722.7	723.7
12.5°	720.9	714.3	719.0	715.2	715.2
15°	710.6	704.9	709.6	705.9	706.8
17.5°	699.3	693.7	699.3	694.6	694.6
20°	687.1	681.5	687.1	681.5	682.4
22.5°	673.1	668.4	672.1	665.6	666.5
25°	658.1	652.4	656.2	649.6	650.6
27.5°	640.3	635.6	639.3	632.8	633.7
30°	622.4	617.8	621.5	614.0	615.9
32.5°	602.8	598.1	600.9	595.3	597.1
35°	582.1	578.4	580.3	573.7	576.5
37.5°	559.6	556.8	559.6	552.1	554.0
40°	536.2	534.3	537.1	529.6	530.6
42.5°	513.7	510.9	513.7	506.2	507.1
45°	488.4	487.5	487.5	480.9	482.8
47.5°	463.1	462.1	462.1	455.6	457.5
50°	436.8	436.8	435.9	429.3	431.2
52.5°	409.7	409.7	408.7	403.1	405.9
55°	381.5	382.5	380.6	375.0	377.8
57.5°	354.3	354.3	352.5	347.8	349.7
60°	326.2	325.3	323.4	318.7	320.6
62.5°	298.1	296.2	293.4	289.7	291.5
65°	268.1	265.3	263.4	260.6	261.5
67.5°	239.0	235.3	232.5	228.7	230.6
70°	207.2	204.4	201.5	198.7	200.6
72.5°	177.2	174.4	171.5	169.7	170.6
75°	147.2	145.3	142.5	140.6	141.5
77.5°	119.1	116.2	115.3	112.5	113.4
80°	90.0	89.1	88.1	85.3	86.2
82.5°	63.7	63.7	61.9	60.0	60.9
85°	39.4	39.4	37.5	35.6	36.6
87.5°	16.9	15.9	15.9	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)