

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: P395222

Luminaire Tested: **4FSN6-SL1-CP125-L8SCT3-3500K-MID**

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: P395222
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-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID 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: 3161.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

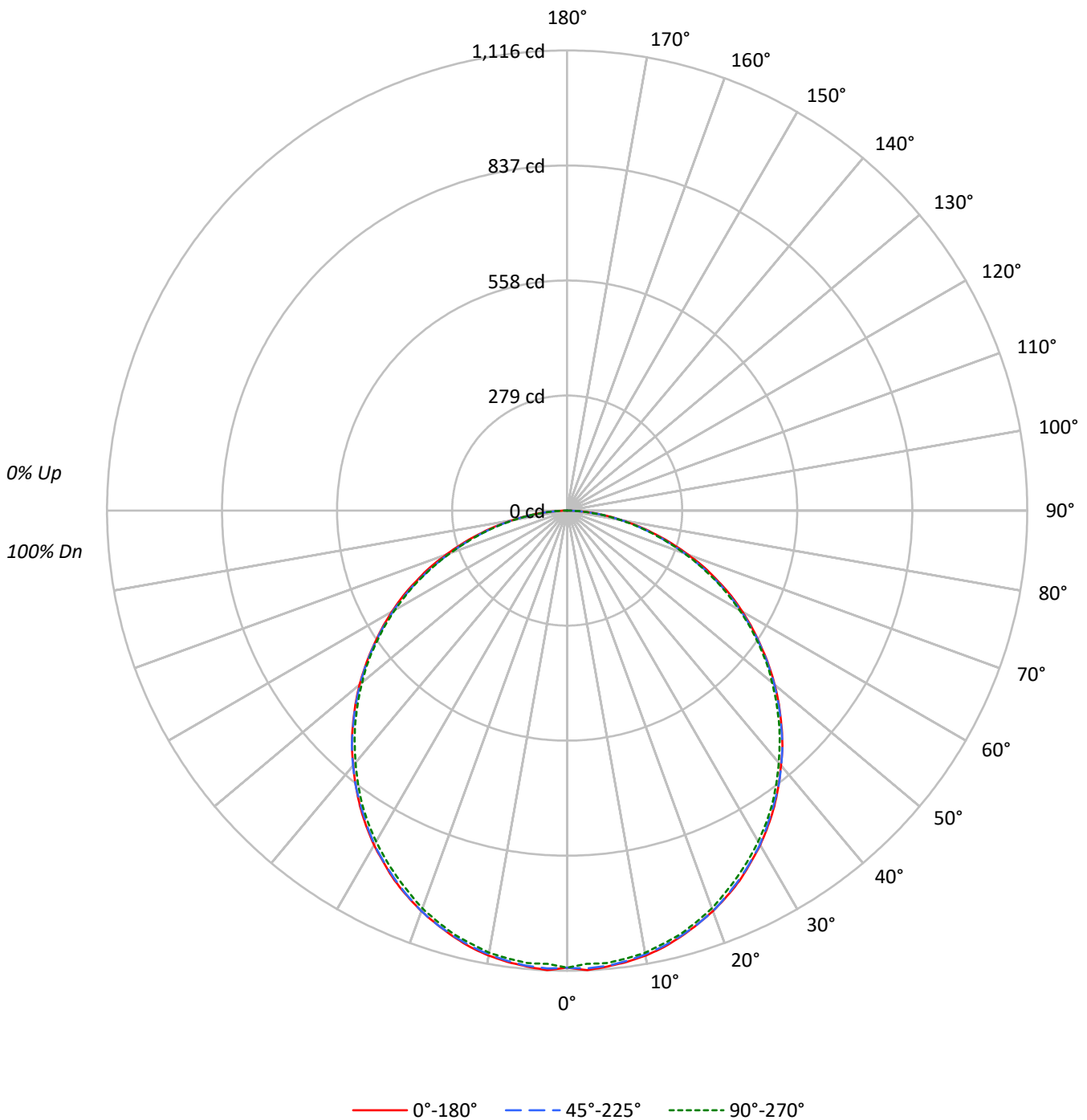
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5966	5966	5966
5°	5997	5989	5951
10°	5989	5973	5950
15°	5957	5948	5925
20°	5921	5921	5880
25°	5880	5863	5812
30°	5820	5811	5758
35°	5754	5736	5699
40°	5668	5677	5609
45°	5593	5582	5528
50°	5503	5491	5432
55°	5386	5373	5333
60°	5283	5238	5191
65°	5137	5047	5011
70°	4905	4771	4749
75°	4604	4458	4429
80°	4197	4110	4023
85°	3656	3483	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.3
10°-20°	300.2	9.5
20°-30°	452.9	14.3
30°-40°	544.0	17.2
40°-50°	563.4	17.8
50°-60°	510.4	16.1
60°-70°	391.7	12.4
70°-80°	228.3	7.2
80°-90°	65.1	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°	858.1	27.1
0°-40°	1402.0	44.4
0°-60°	2475.8	78.3
0°-90°	3161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1110	1102	1108	1102	1102	106
15°	1069	1061	1068	1062	1063	302
25°	990	982	987	977	979	456
35°	876	870	873	863	867	548
45°	735	733	733	724	726	567
55°	574	575	573	564	568	514
65°	403	399	396	392	394	399
75°	221	219	214	212	213	235
85°	59	59	56	54	55	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1115.6	1105.7	1111.4	1105.7	1100.1
5°	1110.0	1101.5	1108.5	1101.5	1101.5
7.5°	1104.3	1095.9	1101.5	1094.4	1095.9
10°	1095.9	1087.4	1093.0	1087.4	1088.8
12.5°	1084.6	1074.7	1081.7	1076.1	1076.1
15°	1069.1	1060.6	1067.6	1062.0	1063.4
17.5°	1052.1	1043.7	1052.1	1045.1	1045.1
20°	1033.8	1025.3	1033.8	1025.3	1026.7
22.5°	1012.6	1005.6	1011.2	1001.4	1002.8
25°	990.1	981.6	987.3	977.4	978.8
27.5°	963.3	956.2	961.9	952.0	953.4
30°	936.5	929.4	935.1	923.8	926.6
32.5°	906.9	899.8	904.0	895.6	898.4
35°	875.8	870.2	873.0	863.1	867.4
37.5°	842.0	837.8	842.0	830.7	833.5
40°	806.7	803.9	808.1	796.9	798.3
42.5°	772.9	768.6	772.9	761.6	763.0
45°	734.8	733.4	733.4	723.5	726.3
47.5°	696.7	695.3	695.3	685.4	688.3
50°	657.2	657.2	655.8	645.9	648.8
52.5°	616.3	616.3	614.9	606.5	610.7
55°	574.0	575.4	572.6	564.1	568.4
57.5°	533.1	533.1	530.3	523.2	526.1
60°	490.8	489.4	486.6	479.5	482.3
62.5°	448.5	445.7	441.4	435.8	438.6
65°	403.4	399.1	396.3	392.1	393.5
67.5°	359.6	354.0	349.8	344.1	346.9
70°	311.7	307.5	303.2	299.0	301.8
72.5°	266.6	262.3	258.1	255.3	256.7
75°	221.4	218.6	214.4	211.6	213.0
77.5°	179.1	174.9	173.5	169.2	170.7
80°	135.4	134.0	132.6	128.3	129.8
82.5°	95.9	95.9	93.1	90.3	91.7
85°	59.2	59.2	56.4	53.6	55.0
87.5°	25.4	24.0	24.0	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)