

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: P395213

Luminaire Tested: **4FSN6-SL1-CA125-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: P395213
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-L8SCT3-3500K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3237.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

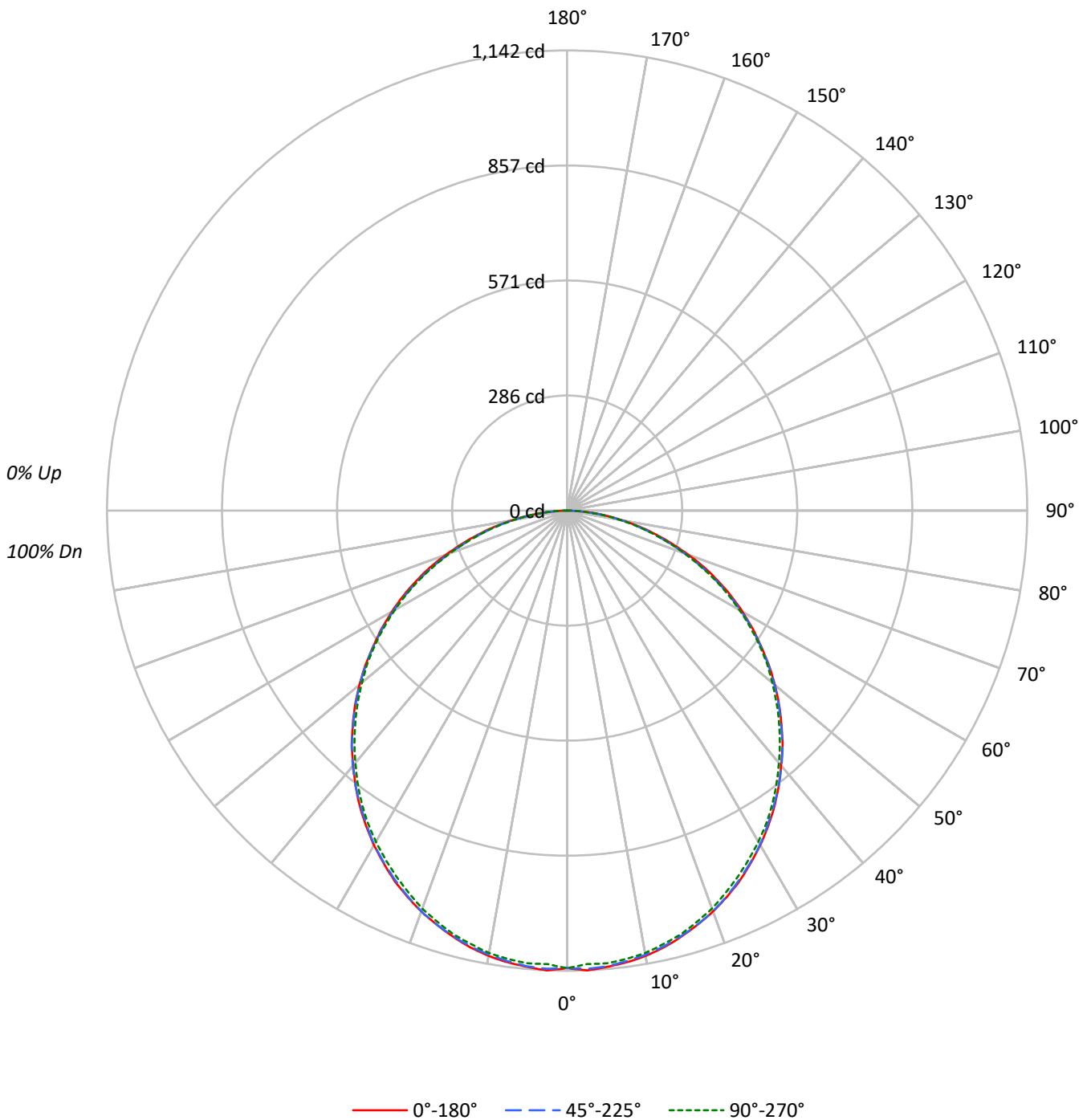
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6110	6110	6110
5°	6140	6133	6094
10°	6133	6117	6093
15°	6100	6092	6068
20°	6064	6064	6022
25°	6021	6004	5952
30°	5960	5951	5897
35°	5893	5874	5836
40°	5804	5814	5743
45°	5727	5716	5661
50°	5635	5623	5563
55°	5515	5502	5461
60°	5410	5364	5316
65°	5261	5168	5132
70°	5023	4886	4864
75°	4716	4564	4535
80°	4299	4209	4119
85°	3748	3569	3477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.3
10°-20°	307.4	9.5
20°-30°	463.8	14.3
30°-40°	557.0	17.2
40°-50°	576.9	17.8
50°-60°	522.7	16.1
60°-70°	401.2	12.4
70°-80°	233.8	7.2
80°-90°	66.7	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°	878.7	27.1
0°-40°	1435.7	44.4
0°-60°	2535.3	78.3
0°-90°	3237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1137	1128	1135	1128	1128	108
15°	1095	1086	1093	1088	1089	309
25°	1014	1005	1011	1001	1002	467
35°	897	891	894	884	888	561
45°	752	751	751	741	744	581
55°	588	589	586	578	582	526
65°	413	409	406	402	403	409
75°	227	224	220	217	218	241
85°	61	61	58	55	56	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1142.4	1132.3	1138.1	1132.3	1126.5
5°	1136.6	1128.0	1135.2	1128.0	1128.0
7.5°	1130.9	1122.2	1128.0	1120.8	1122.2
10°	1122.2	1113.5	1119.3	1113.5	1115.0
12.5°	1110.6	1100.5	1107.8	1102.0	1102.0
15°	1094.8	1086.1	1093.3	1087.5	1089.0
17.5°	1077.4	1068.8	1077.4	1070.2	1070.2
20°	1058.7	1050.0	1058.7	1050.0	1051.4
22.5°	1037.0	1029.8	1035.5	1025.4	1026.9
25°	1013.9	1005.2	1011.0	1000.9	1002.3
27.5°	986.4	979.2	985.0	974.9	976.3
30°	959.0	951.8	957.6	946.0	948.9
32.5°	928.7	921.4	925.8	917.1	920.0
35°	896.9	891.1	894.0	883.9	888.2
37.5°	862.2	857.9	862.2	850.7	853.6
40°	826.1	823.2	827.6	816.0	817.5
42.5°	791.5	787.1	791.5	779.9	781.4
45°	752.5	751.0	751.0	740.9	743.8
47.5°	713.5	712.0	712.0	701.9	704.8
50°	673.0	673.0	671.6	661.5	664.4
52.5°	631.1	631.1	629.7	621.0	625.4
55°	587.8	589.3	586.4	577.7	582.0
57.5°	545.9	545.9	543.0	535.8	538.7
60°	502.6	501.2	498.3	491.1	493.9
62.5°	459.3	456.4	452.1	446.3	449.2
65°	413.1	408.7	405.8	401.5	403.0
67.5°	368.3	362.5	358.2	352.4	355.3
70°	319.2	314.9	310.5	306.2	309.1
72.5°	273.0	268.6	264.3	261.4	262.9
75°	226.8	223.9	219.5	216.6	218.1
77.5°	183.4	179.1	177.6	173.3	174.8
80°	138.7	137.2	135.8	131.4	132.9
82.5°	98.2	98.2	95.3	92.4	93.9
85°	60.7	60.7	57.8	54.9	56.3
87.5°	26.0	24.6	24.6	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)