

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: P395216

Luminaire Tested: **4FSN6-SL1-CA125-L8SCT3-4000K-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: P395216
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-L8SCT3-4000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3261.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

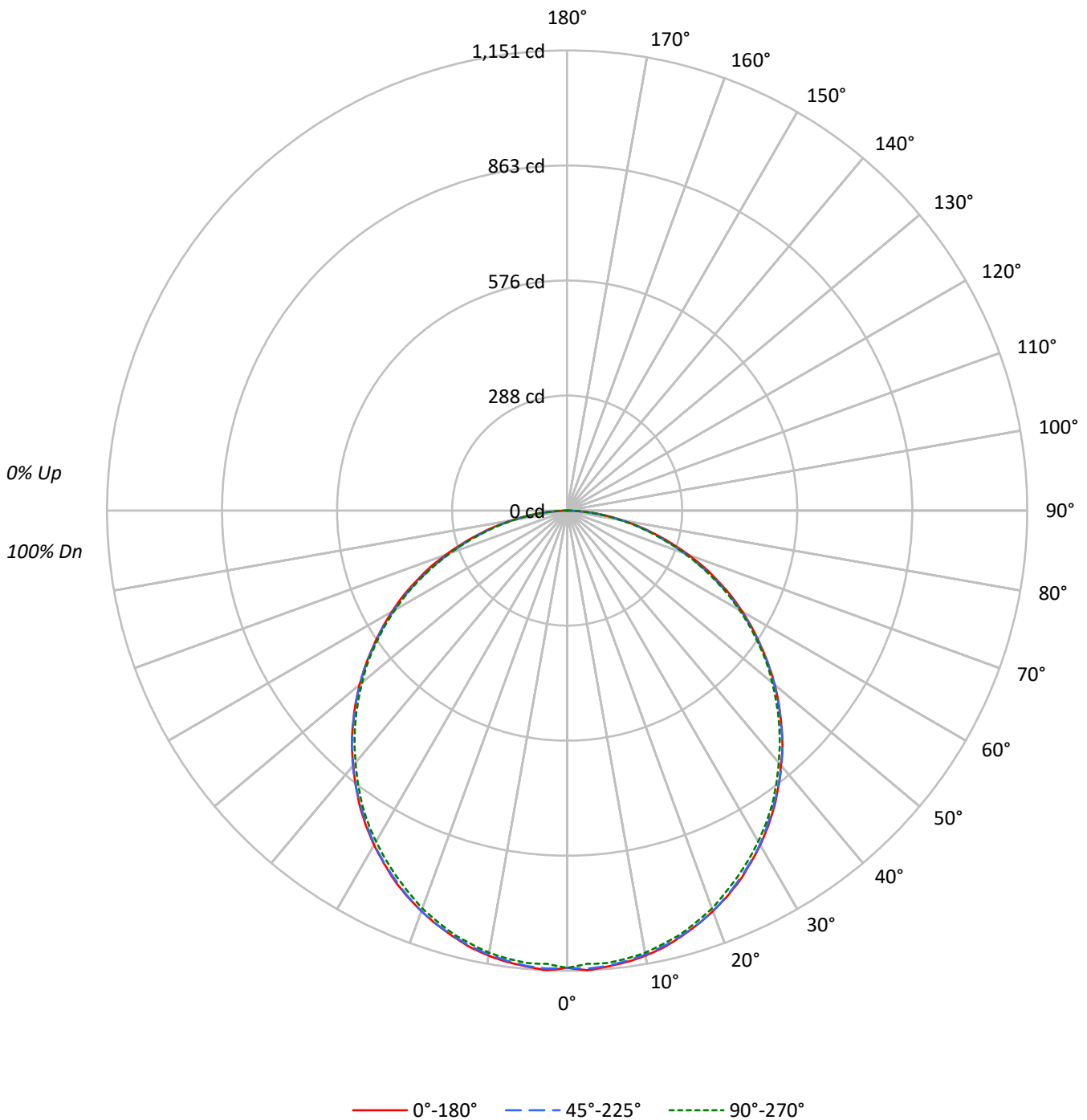
Input Watts (W): 27.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6155	6155	6155
5°	6186	6178	6139
10°	6178	6162	6138
15°	6145	6137	6113
20°	6108	6108	6066
25°	6065	6048	5997
30°	6004	5995	5940
35°	5936	5917	5879
40°	5847	5857	5786
45°	5769	5759	5703
50°	5677	5665	5604
55°	5557	5543	5502
60°	5450	5403	5356
65°	5299	5206	5169
70°	5061	4922	4900
75°	4749	4600	4569
80°	4330	4240	4150
85°	3773	3594	3501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.3
10°-20°	309.7	9.5
20°-30°	467.2	14.3
30°-40°	561.2	17.2
40°-50°	581.2	17.8
50°-60°	526.5	16.1
60°-70°	404.1	12.4
70°-80°	235.6	7.2
80°-90°	67.2	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°	885.2	27.1
0°-40°	1446.4	44.4
0°-60°	2554.1	78.3
0°-90°	3261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1145	1136	1144	1136	1136	109
15°	1103	1094	1101	1096	1097	311
25°	1021	1013	1018	1008	1010	470
35°	904	898	901	890	895	565
45°	758	757	757	746	749	585
55°	592	594	591	582	586	530
65°	416	412	409	404	406	412
75°	228	226	221	218	220	242
85°	61	61	58	55	57	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1150.9	1140.7	1146.5	1140.7	1134.9
5°	1145.1	1136.3	1143.6	1136.3	1136.3
7.5°	1139.2	1130.5	1136.3	1129.1	1130.5
10°	1130.5	1121.8	1127.6	1121.8	1123.2
12.5°	1118.9	1108.7	1116.0	1110.2	1110.2
15°	1102.9	1094.1	1101.4	1095.6	1097.1
17.5°	1085.4	1076.7	1085.4	1078.1	1078.1
20°	1066.5	1057.8	1066.5	1057.8	1059.2
22.5°	1044.7	1037.4	1043.2	1033.0	1034.5
25°	1021.4	1012.7	1018.5	1008.3	1009.8
27.5°	993.8	986.5	992.3	982.1	983.6
30°	966.1	958.8	964.7	953.0	955.9
32.5°	935.6	928.3	932.6	923.9	926.8
35°	903.5	897.7	900.6	890.4	894.8
37.5°	868.6	864.3	868.6	857.0	859.9
40°	832.2	829.3	833.7	822.1	823.5
42.5°	797.3	793.0	797.3	785.7	787.1
45°	758.0	756.6	756.6	746.4	749.3
47.5°	718.8	717.3	717.3	707.1	710.0
50°	678.0	678.0	676.6	666.4	669.3
52.5°	635.8	635.8	634.4	625.6	630.0
55°	592.2	593.6	590.7	582.0	586.4
57.5°	550.0	550.0	547.1	539.8	542.7
60°	506.3	504.9	502.0	494.7	497.6
62.5°	462.7	459.8	455.4	449.6	452.5
65°	416.1	411.8	408.8	404.5	405.9
67.5°	371.0	365.2	360.8	355.0	357.9
70°	321.6	317.2	312.8	308.5	311.4
72.5°	275.0	270.6	266.3	263.4	264.8
75°	228.4	225.5	221.2	218.2	219.7
77.5°	184.8	180.4	179.0	174.6	176.1
80°	139.7	138.2	136.8	132.4	133.9
82.5°	98.9	98.9	96.0	93.1	94.6
85°	61.1	61.1	58.2	55.3	56.7
87.5°	26.2	24.7	24.7	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)