

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: P395305

Luminaire Tested: **8FSN6-SL1-CA125-L8SCT3-4000K-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: P395305
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: 8FSN6-SL1-CA125-L8SCT3-4000K-LO
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW 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: 4777.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

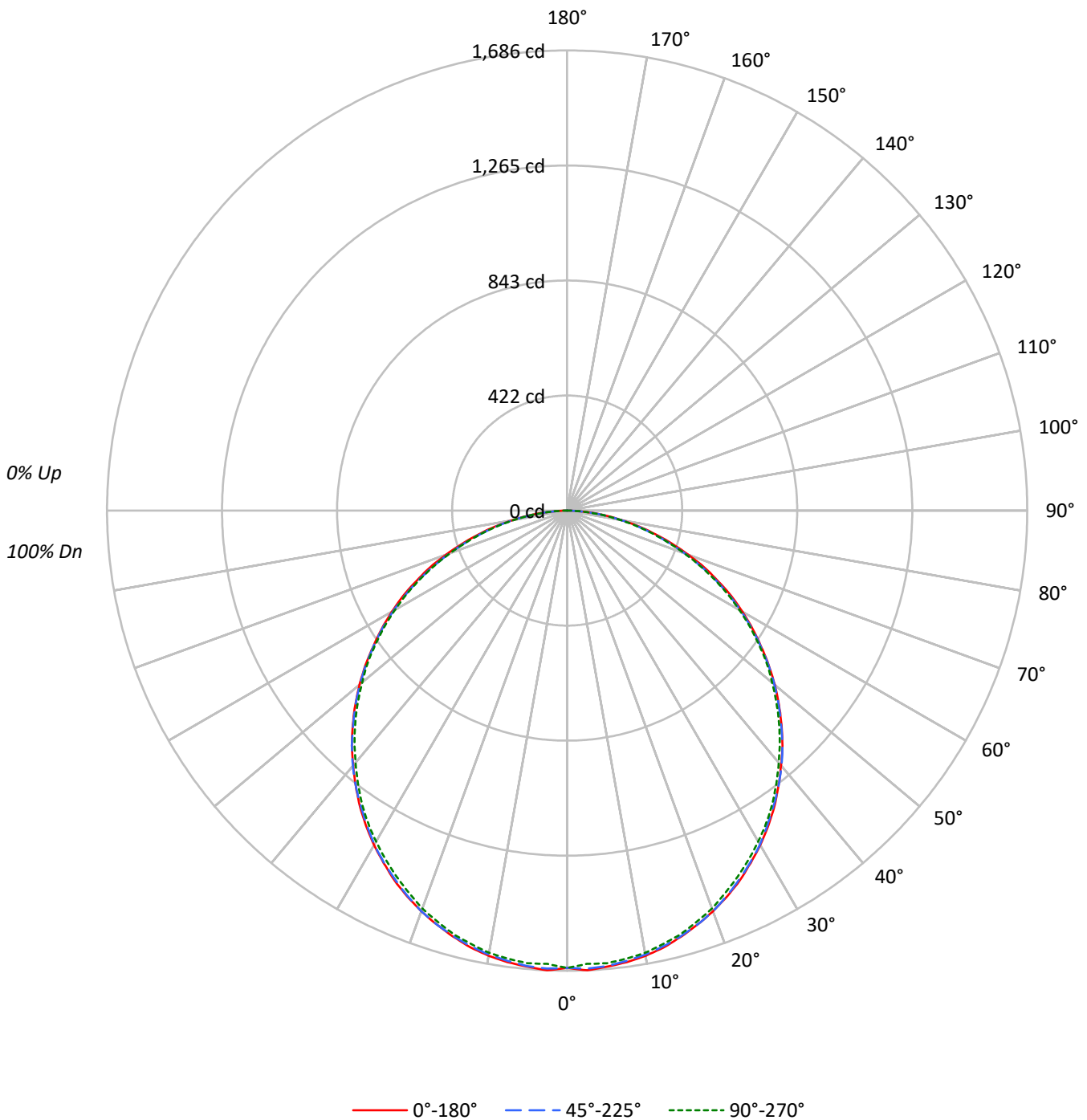
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4508	4508	4508
5°	4531	4525	4497
10°	4525	4514	4496
15°	4501	4495	4477
20°	4474	4474	4443
25°	4442	4430	4392
30°	4397	4391	4351
35°	4348	4334	4306
40°	4283	4290	4238
45°	4226	4218	4177
50°	4158	4149	4104
55°	4070	4060	4030
60°	3992	3957	3923
65°	3882	3813	3787
70°	3706	3605	3589
75°	3479	3369	3346
80°	3171	3106	3039
85°	2763	2634	2566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.3
10°-20°	453.7	9.5
20°-30°	684.5	14.3
30°-40°	822.0	17.2
40°-50°	851.4	17.8
50°-60°	771.3	16.1
60°-70°	592.0	12.4
70°-80°	345.1	7.2
80°-90°	98.4	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°	1296.8	27.1
0°-40°	2118.8	44.4
0°-60°	3741.5	78.3
0°-90°	4777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1677	1665	1675	1665	1665	159
15°	1616	1603	1614	1605	1607	456
25°	1496	1483	1492	1477	1479	689
35°	1324	1315	1319	1304	1311	827
45°	1110	1108	1108	1093	1098	857
55°	868	870	865	853	859	777
65°	610	603	599	592	595	603
75°	335	330	324	320	322	355
85°	90	90	85	81	83	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.3	1675.3	1675.3	1675.3	1675.3
2.5°	1685.9	1671.0	1679.5	1671.0	1662.5
5°	1677.4	1664.6	1675.3	1664.6	1664.6
7.5°	1668.9	1656.1	1664.6	1654.0	1656.1
10°	1656.1	1643.3	1651.8	1643.3	1645.4
12.5°	1639.0	1624.1	1634.8	1626.2	1626.2
15°	1615.6	1602.8	1613.5	1604.9	1607.1
17.5°	1590.0	1577.2	1590.0	1579.4	1579.4
20°	1562.3	1549.5	1562.3	1549.5	1551.6
22.5°	1530.3	1519.7	1528.2	1513.3	1515.4
25°	1496.2	1483.4	1492.0	1477.0	1479.2
27.5°	1455.7	1445.1	1453.6	1438.7	1440.8
30°	1415.2	1404.6	1413.1	1396.1	1400.3
32.5°	1370.5	1359.8	1366.2	1353.4	1357.7
35°	1323.6	1315.1	1319.3	1304.4	1310.8
37.5°	1272.4	1266.0	1272.4	1255.4	1259.6
40°	1219.2	1214.9	1221.3	1204.2	1206.4
42.5°	1168.0	1161.6	1168.0	1150.9	1153.1
45°	1110.5	1108.3	1108.3	1093.4	1097.7
47.5°	1052.9	1050.8	1050.8	1035.9	1040.1
50°	993.2	993.2	991.1	976.2	980.4
52.5°	931.4	931.4	929.3	916.5	922.9
55°	867.5	869.6	865.3	852.6	858.9
57.5°	805.7	805.7	801.4	790.7	795.0
60°	741.7	739.6	735.3	724.7	728.9
62.5°	677.8	673.5	667.1	658.6	662.9
65°	609.6	603.2	598.9	592.5	594.7
67.5°	543.5	535.0	528.6	520.1	524.3
70°	471.0	464.6	458.2	451.9	456.1
72.5°	402.8	396.4	390.0	385.8	387.9
75°	334.6	330.4	324.0	319.7	321.8
77.5°	270.7	264.3	262.2	255.8	257.9
80°	204.6	202.5	200.4	194.0	196.1
82.5°	144.9	144.9	140.7	136.4	138.5
85°	89.5	89.5	85.3	81.0	83.1
87.5°	38.4	36.2	36.2	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)