

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: P395300

Luminaire Tested: **8FSN6-SL1-CA125-L8SCT3-3000K-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: P395300
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-L8SCT3-3000K-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6727.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

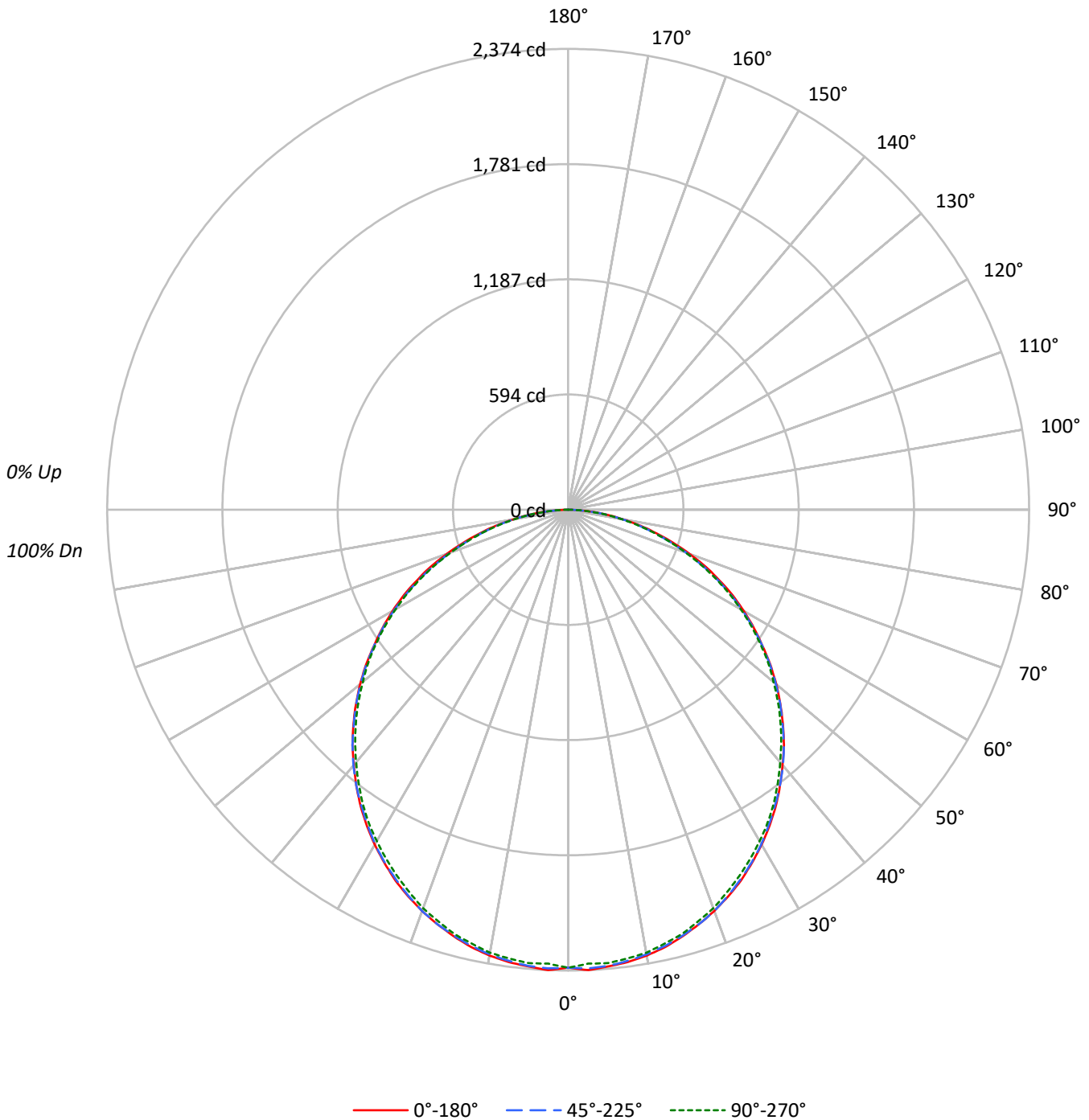
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6348	6348	6348
5°	6381	6373	6332
10°	6372	6356	6331
15°	6338	6330	6305
20°	6300	6300	6257
25°	6256	6238	6185
30°	6192	6183	6127
35°	6123	6103	6064
40°	6031	6041	5968
45°	5951	5939	5882
50°	5856	5843	5780
55°	5731	5717	5675
60°	5621	5573	5525
65°	5466	5370	5332
70°	5219	5077	5054
75°	4899	4743	4712
80°	4465	4372	4279
85°	3893	3708	3616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	3.3
10°-20°	638.9	9.5
20°-30°	963.9	14.3
30°-40°	1157.6	17.2
40°-50°	1198.9	17.8
50°-60°	1086.2	16.1
60°-70°	833.7	12.4
70°-80°	485.9	7.2
80°-90°	138.6	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°	1826.1	27.1
0°-40°	2983.7	44.4
0°-60°	5268.8	78.3
0°-90°	6727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2362	2344	2359	2344	2344	225
15°	2275	2257	2272	2260	2263	642
25°	2107	2089	2101	2080	2083	970
35°	1864	1852	1858	1837	1846	1165
45°	1564	1561	1561	1540	1546	1206
55°	1222	1225	1219	1201	1210	1094
65°	858	849	843	834	837	849
75°	471	465	456	450	453	500
85°	126	126	120	114	117	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2374.1	2353.1	2365.1	2353.1	2341.1
5°	2362.1	2344.1	2359.1	2344.1	2344.1
7.5°	2350.1	2332.1	2344.1	2329.1	2332.1
10°	2332.1	2314.1	2326.1	2314.1	2317.1
12.5°	2308.1	2287.1	2302.1	2290.1	2290.1
15°	2275.1	2257.1	2272.1	2260.1	2263.1
17.5°	2239.1	2221.1	2239.1	2224.1	2224.1
20°	2200.0	2182.0	2200.0	2182.0	2185.0
22.5°	2155.0	2140.0	2152.0	2131.0	2134.0
25°	2107.0	2089.0	2101.0	2080.0	2083.0
27.5°	2050.0	2035.0	2047.0	2026.0	2029.0
30°	1992.9	1977.9	1989.9	1965.9	1971.9
32.5°	1929.9	1914.9	1923.9	1905.9	1911.9
35°	1863.9	1851.9	1857.9	1836.9	1845.9
37.5°	1791.9	1782.8	1791.9	1767.8	1773.8
40°	1716.8	1710.8	1719.8	1695.8	1698.8
42.5°	1644.8	1635.8	1644.8	1620.8	1623.8
45°	1563.7	1560.7	1560.7	1539.7	1545.7
47.5°	1482.7	1479.7	1479.7	1458.7	1464.7
50°	1398.7	1398.7	1395.7	1374.7	1380.7
52.5°	1311.6	1311.6	1308.6	1290.6	1299.6
55°	1221.6	1224.6	1218.6	1200.6	1209.6
57.5°	1134.5	1134.5	1128.5	1113.5	1119.5
60°	1044.5	1041.5	1035.5	1020.5	1026.5
62.5°	954.5	948.5	939.4	927.4	933.4
65°	858.4	849.4	843.4	834.4	837.4
67.5°	765.4	753.4	744.4	732.3	738.4
70°	663.3	654.3	645.3	636.3	642.3
72.5°	567.3	558.3	549.3	543.3	546.3
75°	471.2	465.2	456.2	450.2	453.2
77.5°	381.2	372.2	369.2	360.2	363.2
80°	288.1	285.1	282.1	273.1	276.1
82.5°	204.1	204.1	198.1	192.1	195.1
85°	126.1	126.1	120.1	114.1	117.1
87.5°	54.0	51.0	51.0	48.0	48.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)