

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: P395312

Luminaire Tested: **8FSN6-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: P395312
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-CP125-L8SCT3-3500K-MID
Description: 8FT 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: 6725.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

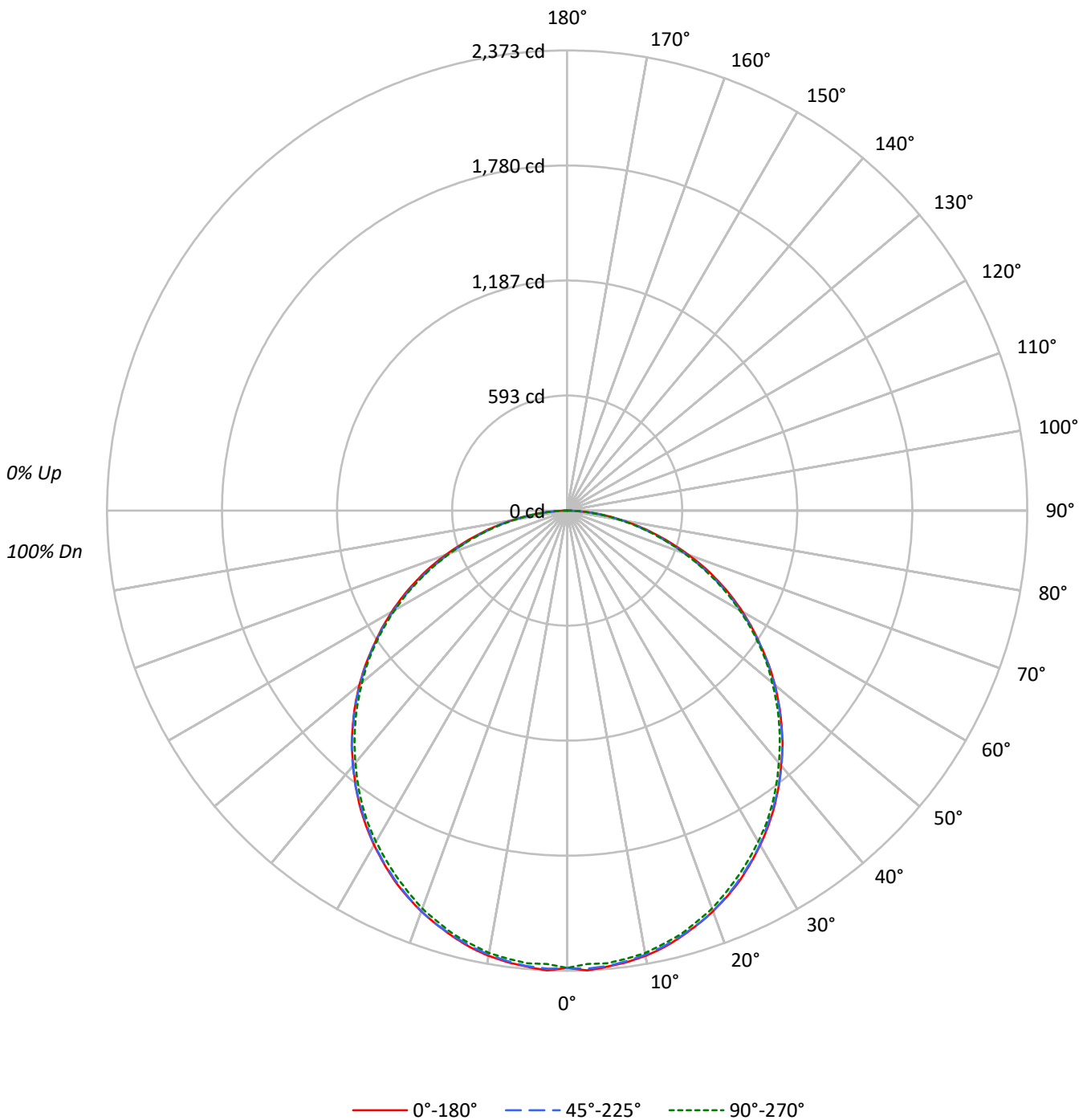
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6346	6346	6346
5°	6379	6371	6330
10°	6371	6354	6330
15°	6336	6328	6303
20°	6298	6298	6255
25°	6254	6236	6183
30°	6191	6182	6126
35°	6121	6101	6062
40°	6029	6040	5966
45°	5949	5938	5881
50°	5853	5841	5778
55°	5729	5715	5673
60°	5620	5571	5523
65°	5465	5369	5330
70°	5217	5076	5052
75°	4898	4742	4711
80°	4465	4372	4277
85°	3890	3705	3612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	3.3
10°-20°	638.7	9.5
20°-30°	963.6	14.3
30°-40°	1157.2	17.2
40°-50°	1198.6	17.8
50°-60°	1085.8	16.1
60°-70°	833.4	12.4
70°-80°	485.8	7.2
80°-90°	138.5	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°	1825.6	27.1
0°-40°	2982.8	44.4
0°-60°	5267.2	78.3
0°-90°	6725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2358	2358	2358	2358	2358	
5°	2361	2343	2358	2343	2343	224
15°	2274	2256	2271	2259	2262	642
25°	2106	2088	2100	2079	2082	970
35°	1863	1851	1857	1836	1845	1165
45°	1563	1560	1560	1539	1545	1206
55°	1221	1224	1218	1200	1209	1093
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°	2358.4	2358.4	2358.4	2358.4	2358.4
2.5°	2373.4	2352.4	2364.4	2352.4	2340.4
5°	2361.4	2343.4	2358.4	2343.4	2343.4
7.5°	2349.4	2331.4	2343.4	2328.4	2331.4
10°	2331.4	2313.4	2325.4	2313.4	2316.4
12.5°	2307.4	2286.4	2301.4	2289.4	2289.4
15°	2274.4	2256.4	2271.4	2259.4	2262.4
17.5°	2238.4	2220.4	2238.4	2223.4	2223.4
20°	2199.4	2181.4	2199.4	2181.4	2184.4
22.5°	2154.4	2139.4	2151.4	2130.4	2133.4
25°	2106.4	2088.4	2100.4	2079.4	2082.4
27.5°	2049.4	2034.4	2046.4	2025.4	2028.4
30°	1992.4	1977.4	1989.4	1965.4	1971.4
32.5°	1929.3	1914.3	1923.3	1905.3	1911.3
35°	1863.3	1851.3	1857.3	1836.3	1845.3
37.5°	1791.3	1782.3	1791.3	1767.3	1773.3
40°	1716.3	1710.3	1719.3	1695.3	1698.3
42.5°	1644.3	1635.3	1644.3	1620.3	1623.3
45°	1563.3	1560.3	1560.3	1539.3	1545.3
47.5°	1482.3	1479.3	1479.3	1458.3	1464.3
50°	1398.2	1398.2	1395.2	1374.2	1380.2
52.5°	1311.2	1311.2	1308.2	1290.2	1299.2
55°	1221.2	1224.2	1218.2	1200.2	1209.2
57.5°	1134.2	1134.2	1128.2	1113.2	1119.2
60°	1044.2	1041.2	1035.2	1020.2	1026.2
62.5°	954.2	948.2	939.2	927.2	933.2
65°	858.2	849.2	843.2	834.1	837.1
67.5°	765.1	753.1	744.1	732.1	738.1
70°	663.1	654.1	645.1	636.1	642.1
72.5°	567.1	558.1	549.1	543.1	546.1
75°	471.1	465.1	456.1	450.1	453.1
77.5°	381.1	372.1	369.1	360.1	363.1
80°	288.1	285.1	282.1	273.0	276.0
82.5°	204.0	204.0	198.0	192.0	195.0
85°	126.0	126.0	120.0	114.0	117.0
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)