

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: P395313

Luminaire Tested: **8FSN6-SL1-CP125-L8SCT3-4000K-HI**

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: P395313
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-L8SCT3-4000K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8037.0 lumens
Efficiency: N/A
Efficacy: 102.1 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

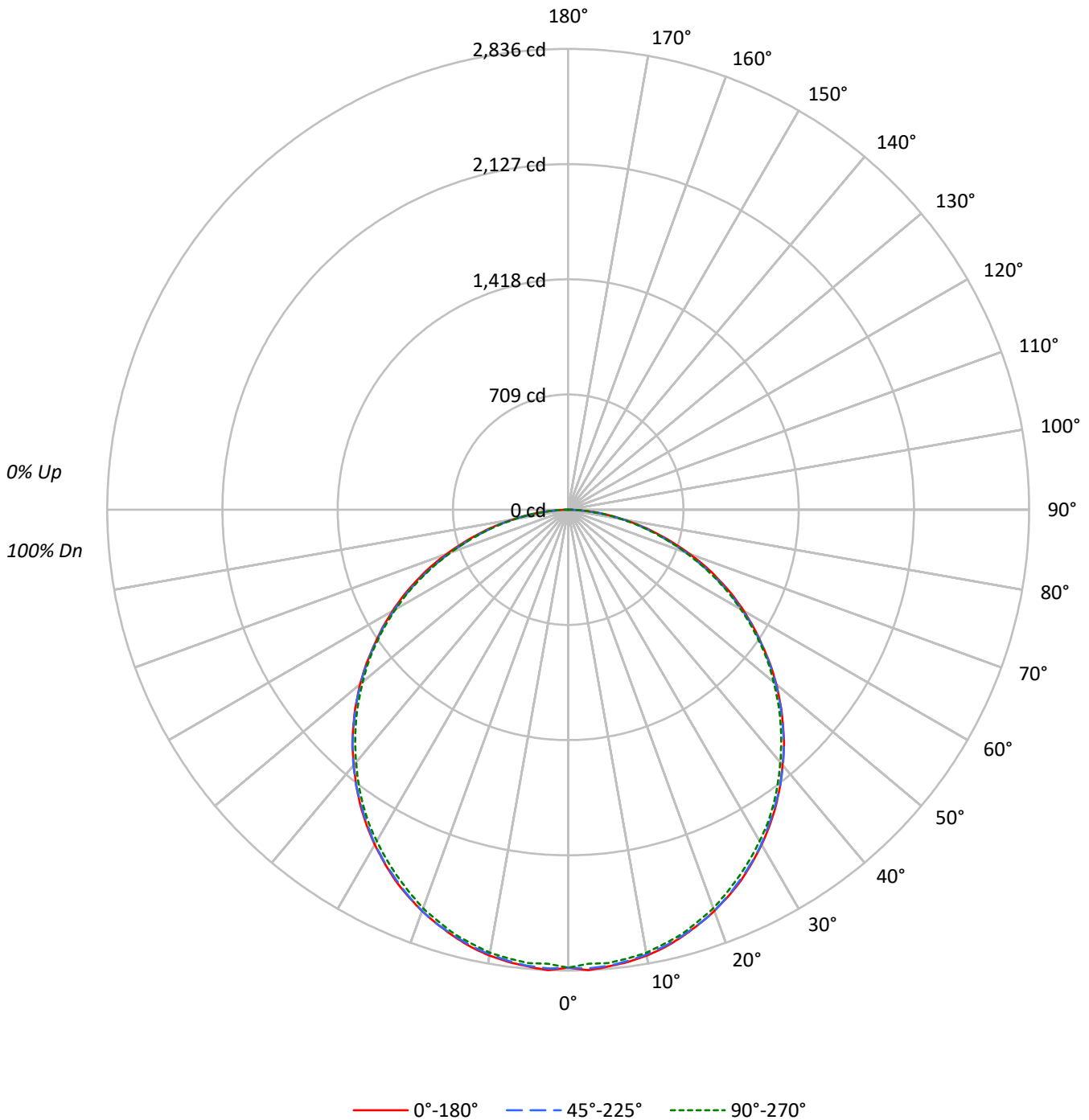
Input Watts (W): 78.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7585	7585	7585
5°	7623	7613	7565
10°	7614	7594	7564
15°	7572	7562	7533
20°	7527	7527	7476
25°	7474	7453	7389
30°	7398	7388	7320
35°	7316	7292	7245
40°	7205	7218	7130
45°	7110	7096	7028
50°	6996	6981	6905
55°	6847	6830	6780
60°	6716	6658	6600
65°	6530	6416	6371
70°	6235	6066	6038
75°	5854	5667	5630
80°	5334	5224	5112
85°	4650	4428	4319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	3.3
10°-20°	763.4	9.5
20°-30°	1151.6	14.3
30°-40°	1383.0	17.2
40°-50°	1432.4	17.8
50°-60°	1297.7	16.1
60°-70°	996.0	12.4
70°-80°	580.6	7.2
80°-90°	165.6	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°	2181.7	27.1
0°-40°	3564.8	44.4
0°-60°	6294.9	78.3
0°-90°	8037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2818	2818	2818	2818	2818	
5°	2822	2801	2818	2801	2801	268
15°	2718	2697	2714	2700	2704	767
25°	2517	2496	2510	2485	2489	1159
35°	2227	2212	2220	2195	2205	1392
45°	1868	1865	1865	1840	1847	1441
55°	1460	1463	1456	1434	1445	1307
65°	1026	1015	1008	997	1000	1015
75°	563	556	545	538	542	597
85°	151	151	143	136	140	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2818.5	2818.5	2818.5	2818.5	2818.5
2.5°	2836.5	2811.4	2825.7	2811.4	2797.0
5°	2822.1	2800.6	2818.5	2800.6	2800.6
7.5°	2807.8	2786.3	2800.6	2782.7	2786.3
10°	2786.3	2764.7	2779.1	2764.7	2768.3
12.5°	2757.6	2732.5	2750.4	2736.1	2736.1
15°	2718.1	2696.6	2714.5	2700.2	2703.8
17.5°	2675.1	2653.6	2675.1	2657.2	2657.2
20°	2628.5	2607.0	2628.5	2607.0	2610.5
22.5°	2574.7	2556.8	2571.1	2546.0	2549.6
25°	2517.3	2495.8	2510.1	2485.0	2488.6
27.5°	2449.2	2431.3	2445.6	2420.5	2424.1
30°	2381.0	2363.1	2377.5	2348.8	2355.9
32.5°	2305.7	2287.8	2298.6	2277.1	2284.2
35°	2226.9	2212.5	2219.7	2194.6	2205.3
37.5°	2140.8	2130.0	2140.8	2112.1	2119.3
40°	2051.1	2044.0	2054.7	2026.0	2029.6
42.5°	1965.1	1954.3	1965.1	1936.4	1940.0
45°	1868.3	1864.7	1864.7	1839.6	1846.7
47.5°	1771.4	1767.9	1767.9	1742.8	1749.9
50°	1671.0	1671.0	1667.5	1642.4	1649.5
52.5°	1567.0	1567.0	1563.5	1541.9	1552.7
55°	1459.5	1463.1	1455.9	1434.4	1445.1
57.5°	1355.5	1355.5	1348.3	1330.4	1337.5
60°	1247.9	1244.3	1237.1	1219.2	1226.4
62.5°	1140.3	1133.2	1122.4	1108.0	1115.2
65°	1025.6	1014.8	1007.6	996.9	1000.5
67.5°	914.4	900.1	889.3	875.0	882.1
70°	792.5	781.7	771.0	760.2	767.4
72.5°	677.7	667.0	656.2	649.1	652.6
75°	563.0	555.8	545.1	537.9	541.5
77.5°	455.4	444.7	441.1	430.3	433.9
80°	344.2	340.7	337.1	326.3	329.9
82.5°	243.8	243.8	236.7	229.5	233.1
85°	150.6	150.6	143.4	136.3	139.9
87.5°	64.5	61.0	61.0	57.4	57.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)