

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: P395310

Luminaire Tested: **8FSN6-SL1-CP125-L8SCT3-3500K-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: P395310
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-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH 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: 7972.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

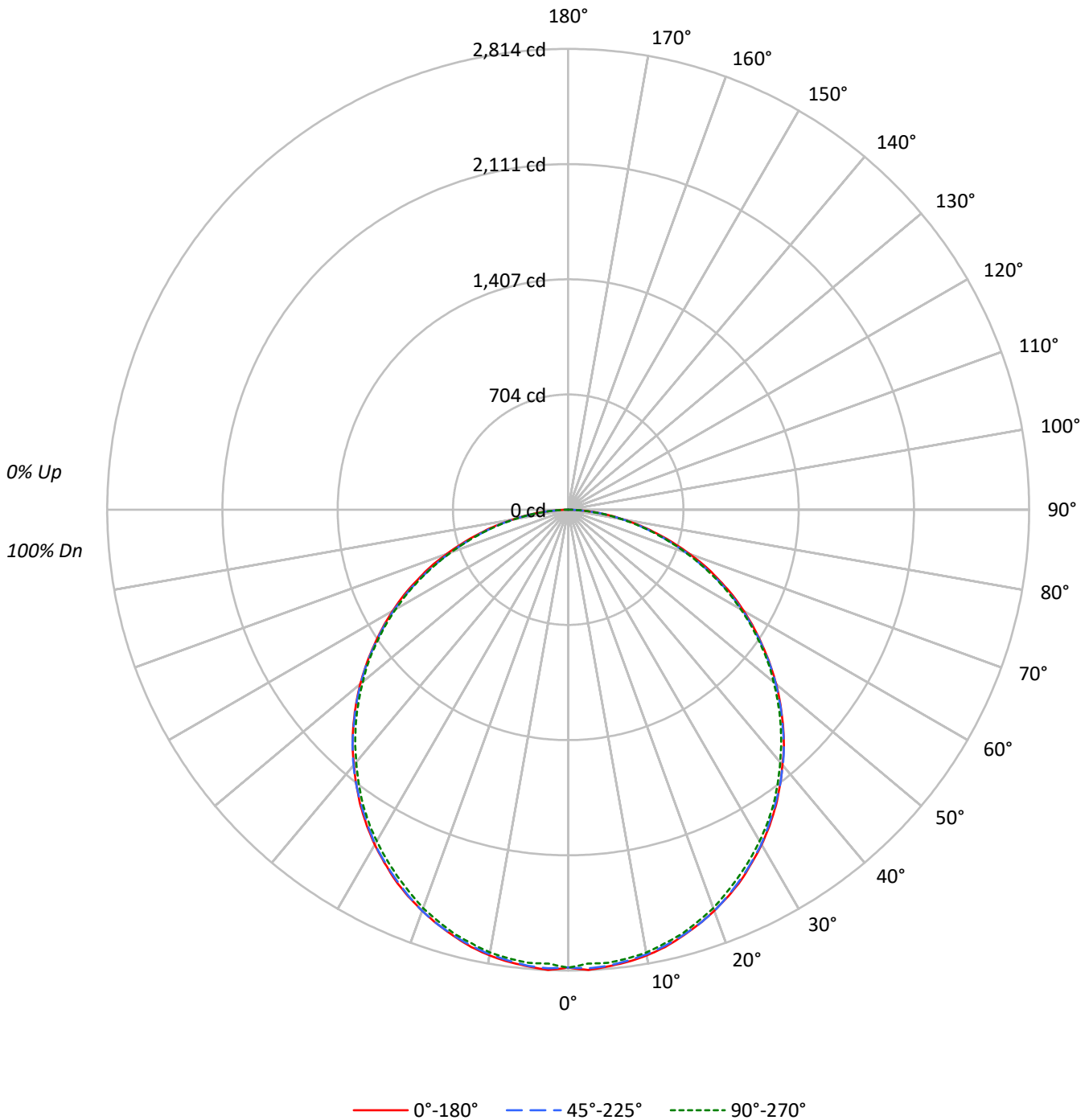
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7523	7523	7523
5°	7562	7552	7504
10°	7552	7532	7503
15°	7511	7501	7472
20°	7466	7466	7415
25°	7414	7393	7329
30°	7339	7328	7261
35°	7256	7233	7186
40°	7147	7159	7072
45°	7053	7039	6971
50°	6939	6924	6850
55°	6792	6775	6725
60°	6662	6604	6547
65°	6478	6364	6319
70°	6185	6017	5989
75°	5806	5622	5584
80°	5292	5182	5071
85°	4613	4394	4282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	3.3
10°-20°	757.2	9.5
20°-30°	1142.2	14.3
30°-40°	1371.8	17.2
40°-50°	1420.8	17.8
50°-60°	1287.2	16.1
60°-70°	987.9	12.4
70°-80°	575.9	7.2
80°-90°	164.3	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°	2164.1	27.1
0°-40°	3535.9	44.4
0°-60°	6243.9	78.3
0°-90°	7972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2796	2796	2796	2796	2796	
5°	2799	2778	2796	2778	2778	266
15°	2696	2675	2693	2678	2682	761
25°	2497	2476	2490	2465	2468	1150
35°	2209	2195	2202	2177	2188	1381
45°	1853	1850	1850	1825	1832	1430
55°	1448	1451	1444	1423	1433	1296
65°	1017	1007	1000	989	992	1006
75°	558	551	541	534	537	592
85°	149	149	142	135	139	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2795.7	2795.7	2795.7	2795.7	2795.7
2.5°	2813.5	2788.6	2802.9	2788.6	2774.4
5°	2799.3	2778.0	2795.7	2778.0	2778.0
7.5°	2785.1	2763.7	2778.0	2760.2	2763.7
10°	2763.7	2742.4	2756.6	2742.4	2745.9
12.5°	2735.3	2710.4	2728.2	2713.9	2713.9
15°	2696.1	2674.8	2692.6	2678.4	2681.9
17.5°	2653.5	2632.1	2653.5	2635.7	2635.7
20°	2607.2	2585.9	2607.2	2585.9	2589.4
22.5°	2553.9	2536.1	2550.3	2525.4	2529.0
25°	2497.0	2475.6	2489.8	2464.9	2468.5
27.5°	2429.4	2411.6	2425.8	2400.9	2404.5
30°	2361.8	2344.0	2358.2	2329.8	2336.9
32.5°	2287.1	2269.3	2280.0	2258.6	2265.8
35°	2208.8	2194.6	2201.7	2176.8	2187.5
37.5°	2123.5	2112.8	2123.5	2095.0	2102.1
40°	2034.6	2027.4	2038.1	2009.7	2013.2
42.5°	1949.2	1938.5	1949.2	1920.7	1924.3
45°	1853.2	1849.6	1849.6	1824.7	1831.8
47.5°	1757.1	1753.6	1753.6	1728.7	1735.8
50°	1657.5	1657.5	1654.0	1629.1	1636.2
52.5°	1554.4	1554.4	1550.8	1529.5	1540.1
55°	1447.7	1451.2	1444.1	1422.8	1433.4
57.5°	1344.5	1344.5	1337.4	1319.6	1326.7
60°	1237.8	1234.2	1227.1	1209.4	1216.5
62.5°	1131.1	1124.0	1113.3	1099.1	1106.2
65°	1017.3	1006.6	999.5	988.8	992.4
67.5°	907.0	892.8	882.1	867.9	875.0
70°	786.1	775.4	764.7	754.1	761.2
72.5°	672.3	661.6	650.9	643.8	647.4
75°	558.4	551.3	540.7	533.5	537.1
77.5°	451.7	441.1	437.5	426.8	430.4
80°	341.5	337.9	334.4	323.7	327.2
82.5°	241.9	241.9	234.8	227.6	231.2
85°	149.4	149.4	142.3	135.2	138.7
87.5°	64.0	60.5	60.5	56.9	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)