

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: P395304

Luminaire Tested: **8FSN6-SL1-CA125-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: P395304
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-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH 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: 8230.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

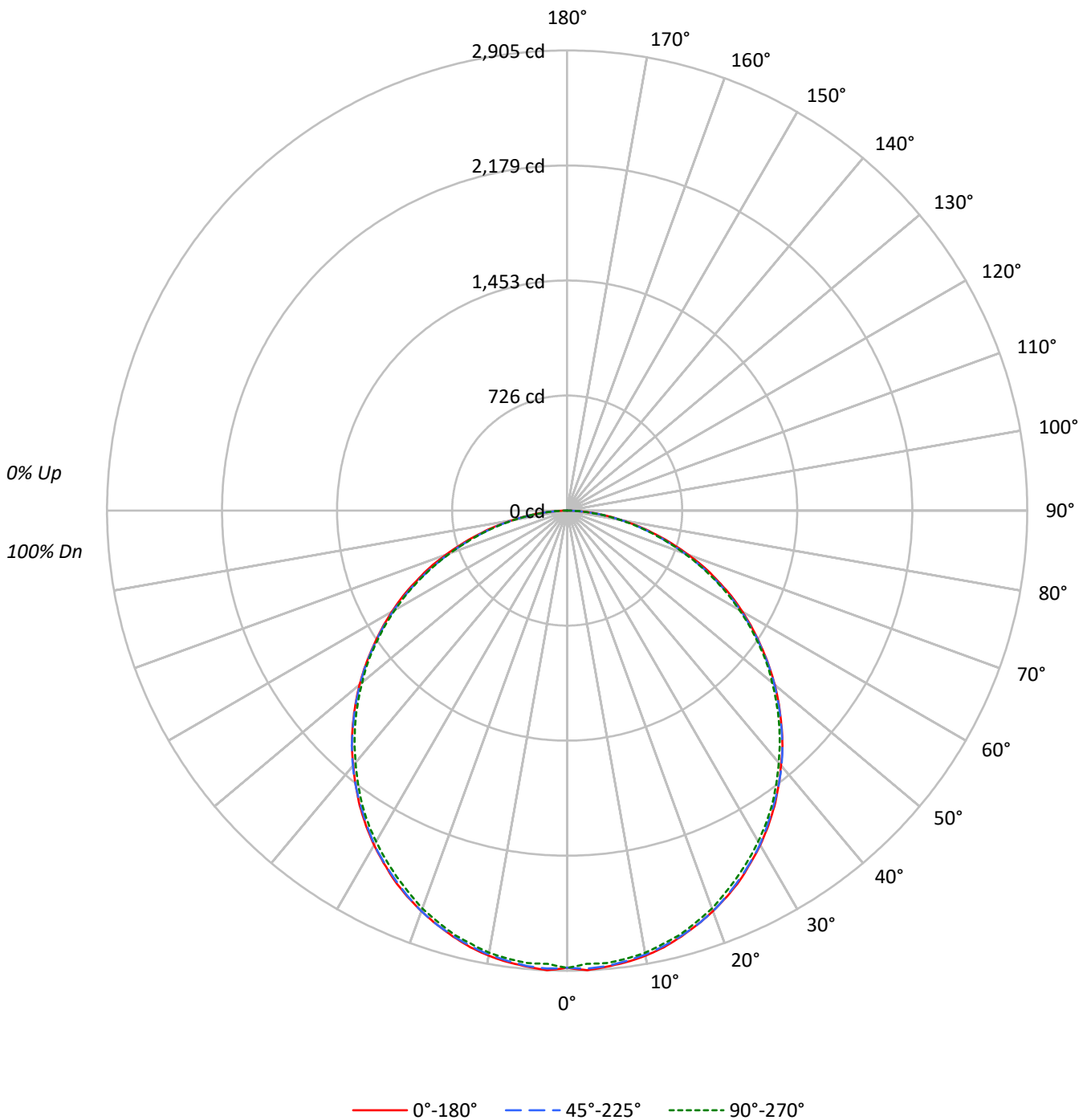
Input Watts (W): 78.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7767	7767	7767
5°	7806	7796	7747
10°	7796	7776	7746
15°	7754	7744	7713
20°	7708	7708	7655
25°	7654	7632	7567
30°	7576	7565	7496
35°	7491	7467	7419
40°	7378	7391	7301
45°	7281	7267	7197
50°	7164	7148	7071
55°	7012	6994	6943
60°	6878	6818	6759
65°	6687	6570	6523
70°	6385	6212	6183
75°	5994	5803	5765
80°	5463	5349	5235
85°	4761	4536	4421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	3.3
10°-20°	781.7	9.5
20°-30°	1179.2	14.3
30°-40°	1416.2	17.2
40°-50°	1466.8	17.8
50°-60°	1328.9	16.1
60°-70°	1019.9	12.4
70°-80°	594.5	7.2
80°-90°	169.6	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°	2234.1	27.1
0°-40°	3650.4	44.4
0°-60°	6446.0	78.3
0°-90°	8230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2886	2886	2886	2886	2886	
5°	2890	2868	2886	2868	2868	275
15°	2783	2761	2780	2765	2769	786
25°	2578	2556	2570	2545	2548	1187
35°	2280	2266	2273	2247	2258	1425
45°	1913	1910	1910	1884	1891	1476
55°	1494	1498	1491	1469	1480	1338
65°	1050	1039	1032	1021	1024	1039
75°	576	569	558	551	554	612
85°	154	154	147	140	143	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2886.2	2886.2	2886.2	2886.2	2886.2
2.5°	2904.6	2878.9	2893.6	2878.9	2864.2
5°	2889.9	2867.9	2886.2	2867.9	2867.9
7.5°	2875.2	2853.2	2867.9	2849.5	2853.2
10°	2853.2	2831.1	2845.8	2831.1	2834.8
12.5°	2823.8	2798.1	2816.4	2801.8	2801.8
15°	2783.4	2761.4	2779.7	2765.0	2768.7
17.5°	2739.3	2717.3	2739.3	2721.0	2721.0
20°	2691.6	2669.6	2691.6	2669.6	2673.2
22.5°	2636.5	2618.2	2632.8	2607.1	2610.8
25°	2577.8	2555.7	2570.4	2544.7	2548.4
27.5°	2508.0	2489.6	2504.3	2478.6	2482.3
30°	2438.2	2419.9	2434.6	2405.2	2412.5
32.5°	2361.1	2342.8	2353.8	2331.7	2339.1
35°	2280.3	2265.6	2273.0	2247.3	2258.3
37.5°	2192.2	2181.2	2192.2	2162.8	2170.2
40°	2100.4	2093.1	2104.1	2074.7	2078.4
42.5°	2012.3	2001.3	2012.3	1982.9	1986.6
45°	1913.1	1909.5	1909.5	1883.8	1891.1
47.5°	1814.0	1810.3	1810.3	1784.6	1792.0
50°	1711.2	1711.2	1707.5	1681.8	1689.1
52.5°	1604.7	1604.7	1601.0	1579.0	1590.0
55°	1494.5	1498.2	1490.8	1468.8	1479.8
57.5°	1388.0	1388.0	1380.7	1362.3	1369.7
60°	1277.9	1274.2	1266.9	1248.5	1255.8
62.5°	1167.7	1160.4	1149.3	1134.7	1142.0
65°	1050.2	1039.2	1031.8	1020.8	1024.5
67.5°	936.4	921.7	910.7	896.0	903.3
70°	811.5	800.5	789.5	778.5	785.8
72.5°	694.0	683.0	672.0	664.6	668.3
75°	576.5	569.2	558.1	550.8	554.5
77.5°	466.3	455.3	451.7	440.6	444.3
80°	352.5	348.8	345.2	334.2	337.8
82.5°	249.7	249.7	242.4	235.0	238.7
85°	154.2	154.2	146.9	139.5	143.2
87.5°	66.1	62.4	62.4	58.8	58.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)