

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: P395316

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-3000K-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: P395316
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-CP187-L8SCT3-3000K-HI
Description: 8FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7650.0 lumens
Efficiency: N/A
Efficacy: 99.0 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

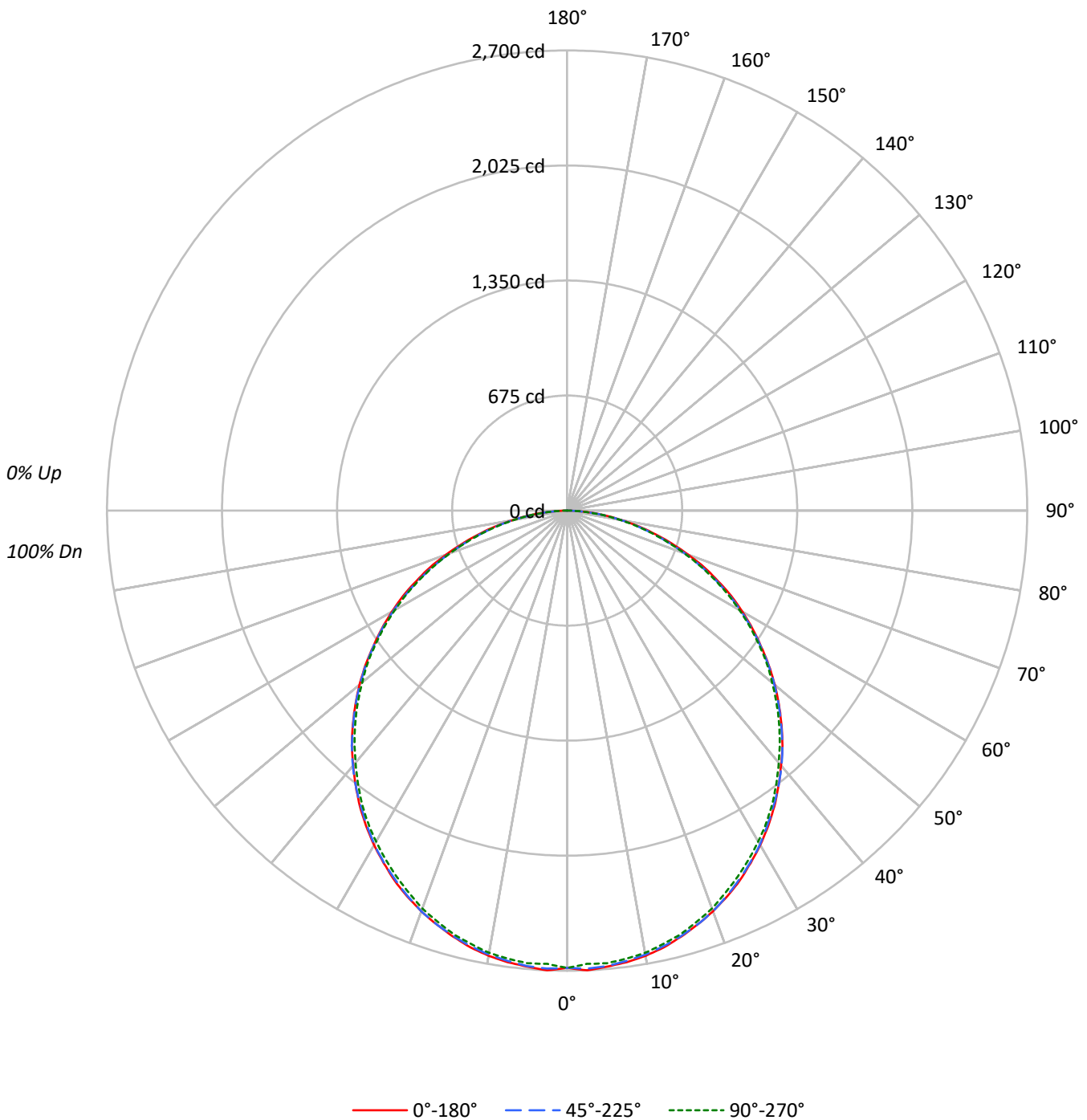
Input Watts (W): 77.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7219	7219	7219
5°	7256	7247	7201
10°	7247	7228	7200
15°	7208	7198	7170
20°	7165	7165	7116
25°	7114	7094	7033
30°	7042	7032	6968
35°	6963	6941	6896
40°	6858	6870	6786
45°	6768	6755	6690
50°	6659	6645	6573
55°	6518	6502	6453
60°	6393	6338	6282
65°	6216	6107	6064
70°	5935	5773	5747
75°	5572	5394	5359
80°	5078	4971	4866
85°	4428	4215	4110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	3.3
10°-20°	726.6	9.5
20°-30°	1096.1	14.3
30°-40°	1316.4	17.2
40°-50°	1363.4	17.8
50°-60°	1235.2	16.1
60°-70°	948.0	12.4
70°-80°	552.6	7.2
80°-90°	157.6	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°	2076.7	27.1
0°-40°	3393.1	44.4
0°-60°	5991.7	78.3
0°-90°	7650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2686	2666	2683	2666	2666	255
15°	2587	2567	2584	2570	2574	730
25°	2396	2376	2389	2365	2369	1103
35°	2120	2106	2113	2089	2099	1325
45°	1778	1775	1775	1751	1758	1372
55°	1389	1393	1386	1365	1376	1244
65°	976	966	959	949	952	966
75°	536	529	519	512	515	568
85°	143	143	136	130	133	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2699.9	2676.0	2689.6	2676.0	2662.3
5°	2686.2	2665.7	2682.8	2665.7	2665.7
7.5°	2672.6	2652.1	2665.7	2648.7	2652.1
10°	2652.1	2631.6	2645.3	2631.6	2635.0
12.5°	2624.8	2600.9	2618.0	2604.3	2604.3
15°	2587.2	2566.8	2583.8	2570.2	2573.6
17.5°	2546.3	2525.8	2546.3	2529.2	2529.2
20°	2501.9	2481.4	2501.9	2481.4	2484.8
22.5°	2450.7	2433.6	2447.3	2423.4	2426.8
25°	2396.1	2375.6	2389.3	2365.4	2368.8
27.5°	2331.2	2314.2	2327.8	2303.9	2307.4
30°	2266.4	2249.3	2263.0	2235.7	2242.5
32.5°	2194.7	2177.7	2187.9	2167.4	2174.2
35°	2119.6	2106.0	2112.8	2088.9	2099.1
37.5°	2037.7	2027.5	2037.7	2010.4	2017.2
40°	1952.4	1945.6	1955.8	1928.5	1931.9
42.5°	1870.5	1860.2	1870.5	1843.2	1846.6
45°	1778.3	1774.9	1774.9	1751.0	1757.8
47.5°	1686.1	1682.7	1682.7	1658.8	1665.7
50°	1590.6	1590.6	1587.2	1563.3	1570.1
52.5°	1491.6	1491.6	1488.2	1467.7	1477.9
55°	1389.2	1392.6	1385.8	1365.3	1375.5
57.5°	1290.2	1290.2	1283.4	1266.3	1273.1
60°	1187.8	1184.4	1177.6	1160.5	1167.3
62.5°	1085.4	1078.6	1068.3	1054.7	1061.5
65°	976.2	965.9	959.1	948.9	952.3
67.5°	870.4	856.7	846.5	832.8	839.7
70°	754.3	744.1	733.8	723.6	730.4
72.5°	645.1	634.9	624.6	617.8	621.2
75°	535.9	529.1	518.8	512.0	515.4
77.5°	433.5	423.2	419.8	409.6	413.0
80°	327.7	324.3	320.8	310.6	314.0
82.5°	232.1	232.1	225.3	218.4	221.9
85°	143.4	143.4	136.5	129.7	133.1
87.5°	61.4	58.0	58.0	54.6	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)