

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: P395318

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-3000K-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: P395318
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-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID 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: 6486.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

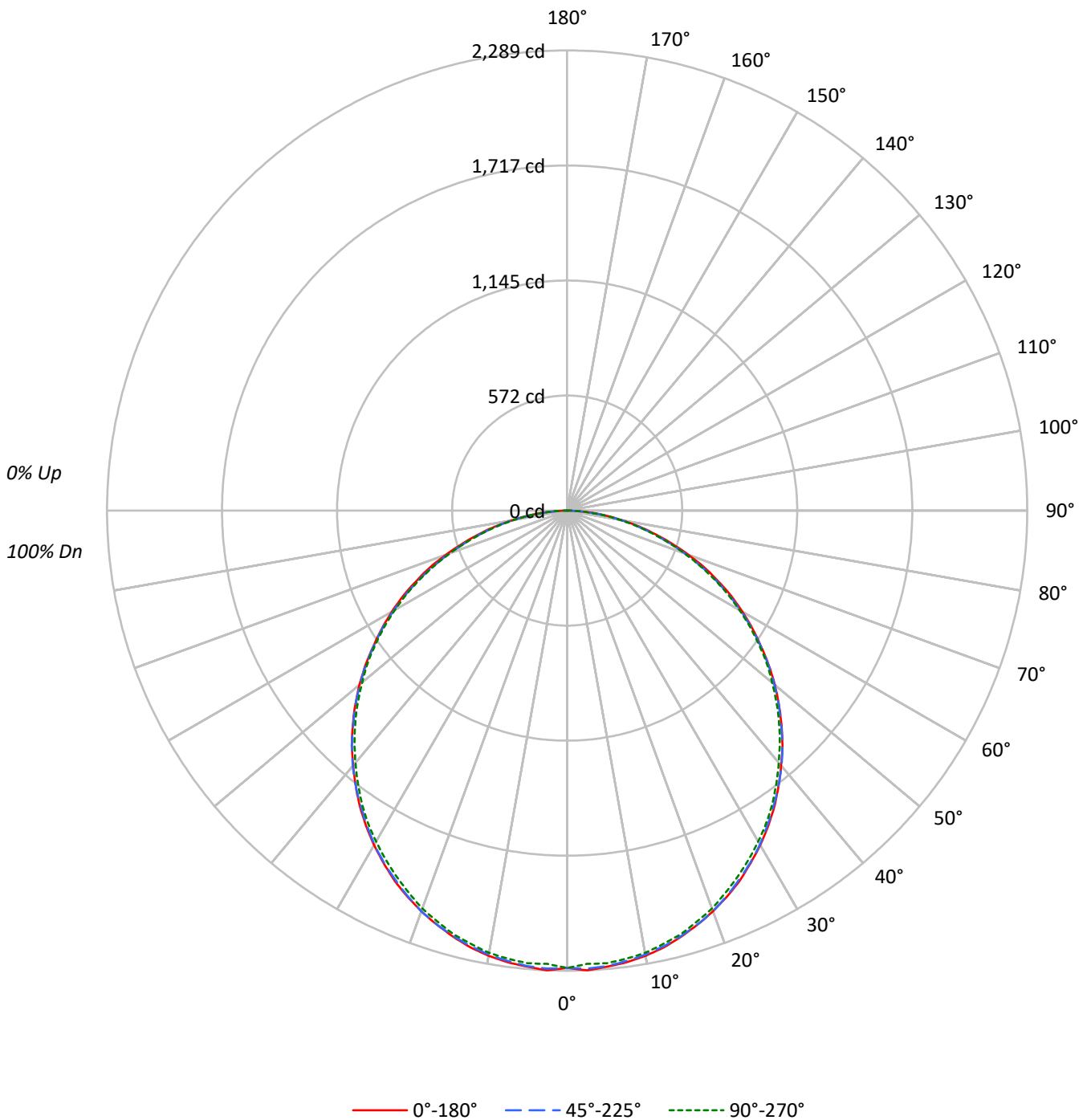
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6121	6121	6121
5°	6152	6144	6105
10°	6144	6128	6105
15°	6111	6103	6079
20°	6074	6074	6033
25°	6032	6015	5963
30°	5971	5962	5908
35°	5904	5885	5846
40°	5815	5825	5754
45°	5738	5727	5672
50°	5646	5634	5573
55°	5526	5512	5471
60°	5420	5373	5327
65°	5270	5178	5141
70°	5032	4895	4873
75°	4723	4574	4544
80°	4305	4215	4125
85°	3751	3575	3486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	3.3
10°-20°	616.0	9.5
20°-30°	929.3	14.3
30°-40°	1116.1	17.2
40°-50°	1156.0	17.8
50°-60°	1047.3	16.1
60°-70°	803.8	12.4
70°-80°	468.5	7.2
80°-90°	133.6	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°	1760.7	27.1
0°-40°	2876.8	44.4
0°-60°	5080.1	78.3
0°-90°	6486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2278	2260	2275	2260	2260	217
15°	2194	2176	2191	2179	2182	619
25°	2032	2014	2026	2006	2008	935
35°	1797	1786	1791	1771	1780	1123
45°	1508	1505	1505	1485	1490	1163
55°	1178	1181	1175	1158	1166	1054
65°	828	819	813	804	807	819
75°	454	449	440	434	437	482
85°	122	122	116	110	113	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.6	2274.6	2274.6	2274.6	2274.6
2.5°	2289.1	2268.8	2280.4	2268.8	2257.2
5°	2277.5	2260.1	2274.6	2260.1	2260.1
7.5°	2265.9	2248.6	2260.1	2245.7	2248.6
10°	2248.6	2231.2	2242.8	2231.2	2234.1
12.5°	2225.4	2205.2	2219.6	2208.0	2208.0
15°	2193.6	2176.2	2190.7	2179.1	2182.0
17.5°	2158.8	2141.5	2158.8	2144.4	2144.4
20°	2121.2	2103.9	2121.2	2103.9	2106.8
22.5°	2077.8	2063.3	2074.9	2054.7	2057.6
25°	2031.5	2014.2	2025.7	2005.5	2008.4
27.5°	1976.5	1962.1	1973.6	1953.4	1956.3
30°	1921.5	1907.1	1918.7	1895.5	1901.3
32.5°	1860.8	1846.3	1855.0	1837.6	1843.4
35°	1797.1	1785.5	1791.3	1771.1	1779.7
37.5°	1727.7	1719.0	1727.7	1704.5	1710.3
40°	1655.3	1649.5	1658.2	1635.1	1637.9
42.5°	1585.9	1577.2	1585.9	1562.7	1565.6
45°	1507.7	1504.8	1504.8	1484.6	1490.4
47.5°	1429.6	1426.7	1426.7	1406.4	1412.2
50°	1348.6	1348.6	1345.7	1325.4	1331.2
52.5°	1264.6	1264.6	1261.7	1244.4	1253.1
55°	1177.8	1180.7	1174.9	1157.6	1166.2
57.5°	1093.9	1093.9	1088.1	1073.6	1079.4
60°	1007.1	1004.2	998.4	983.9	989.7
62.5°	920.3	914.5	905.8	894.2	900.0
65°	827.7	819.0	813.2	804.5	807.4
67.5°	737.9	726.4	717.7	706.1	711.9
70°	639.6	630.9	622.2	613.5	619.3
72.5°	546.9	538.3	529.6	523.8	526.7
75°	454.3	448.6	439.9	434.1	437.0
77.5°	367.5	358.8	355.9	347.3	350.2
80°	277.8	274.9	272.0	263.3	266.2
82.5°	196.8	196.8	191.0	185.2	188.1
85°	121.5	121.5	115.8	110.0	112.9
87.5°	52.1	49.2	49.2	46.3	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)