

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: P395324

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-4000K-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: P395324
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-L8SCT3-4000K-MID
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6742.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

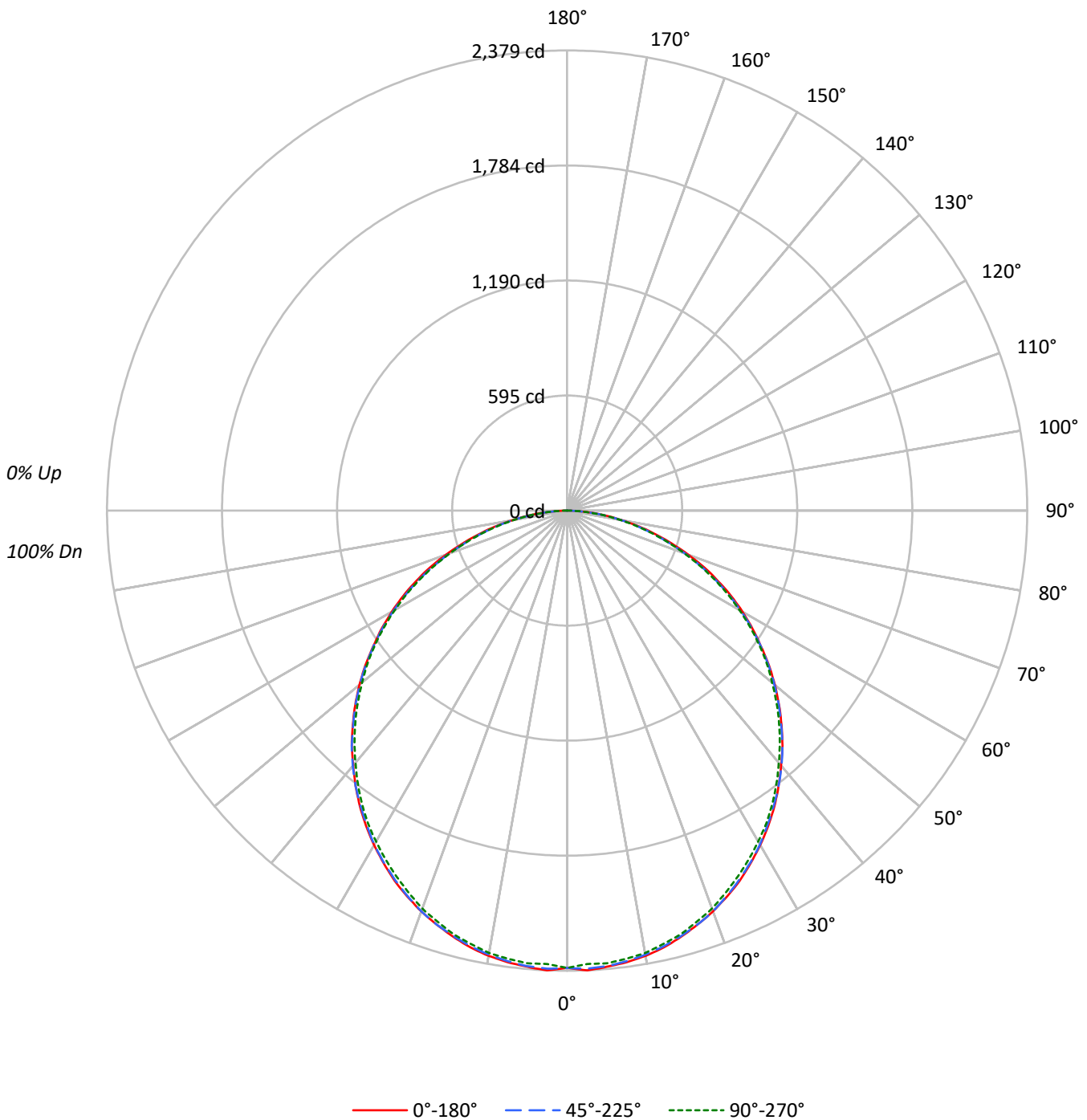
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6363	6363	6363
5°	6395	6387	6346
10°	6387	6370	6346
15°	6352	6344	6319
20°	6314	6314	6271
25°	6270	6252	6198
30°	6206	6197	6141
35°	6137	6117	6077
40°	6044	6055	5981
45°	5964	5953	5896
50°	5869	5856	5793
55°	5744	5730	5688
60°	5634	5585	5537
65°	5478	5382	5344
70°	5231	5088	5065
75°	4911	4754	4722
80°	4475	4382	4288
85°	3900	3714	3622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	3.3
10°-20°	640.4	9.5
20°-30°	966.0	14.3
30°-40°	1160.2	17.2
40°-50°	1201.6	17.8
50°-60°	1088.6	16.1
60°-70°	835.5	12.4
70°-80°	487.0	7.2
80°-90°	138.9	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°	1830.2	27.1
0°-40°	2990.4	44.4
0°-60°	5280.6	78.3
0°-90°	6742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2364	2364	2364	2364	2364	
5°	2367	2349	2364	2349	2349	225
15°	2280	2262	2277	2265	2268	644
25°	2112	2094	2106	2085	2088	972
35°	1868	1856	1862	1841	1850	1168
45°	1567	1564	1564	1543	1549	1209
55°	1224	1227	1221	1203	1212	1096
65°	860	851	845	836	839	851
75°	472	466	457	451	454	501
85°	126	126	120	114	117	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2364.4	2364.4	2364.4	2364.4	2364.4
2.5°	2379.4	2358.4	2370.4	2358.4	2346.3
5°	2367.4	2349.3	2364.4	2349.3	2349.3
7.5°	2355.4	2337.3	2349.3	2334.3	2337.3
10°	2337.3	2319.3	2331.3	2319.3	2322.3
12.5°	2313.2	2292.2	2307.2	2295.2	2295.2
15°	2280.2	2262.1	2277.1	2265.1	2268.1
17.5°	2244.1	2226.0	2244.1	2229.0	2229.0
20°	2205.0	2186.9	2205.0	2186.9	2189.9
22.5°	2159.8	2144.8	2156.8	2135.8	2138.8
25°	2111.7	2093.7	2105.7	2084.6	2087.6
27.5°	2054.5	2039.5	2051.5	2030.5	2033.5
30°	1997.4	1982.4	1994.4	1970.3	1976.3
32.5°	1934.2	1919.2	1928.2	1910.2	1916.2
35°	1868.0	1856.0	1862.0	1841.0	1850.0
37.5°	1795.8	1786.8	1795.8	1771.8	1777.8
40°	1720.6	1714.6	1723.7	1699.6	1702.6
42.5°	1648.4	1639.4	1648.4	1624.4	1627.4
45°	1567.2	1564.2	1564.2	1543.2	1549.2
47.5°	1486.0	1483.0	1483.0	1461.9	1468.0
50°	1401.8	1401.8	1398.8	1377.7	1383.7
52.5°	1314.5	1314.5	1311.5	1293.5	1302.5
55°	1224.3	1227.3	1221.3	1203.2	1212.3
57.5°	1137.1	1137.1	1131.1	1116.0	1122.0
60°	1046.8	1043.8	1037.8	1022.8	1028.8
62.5°	956.6	950.6	941.5	929.5	935.5
65°	860.3	851.3	845.3	836.3	839.3
67.5°	767.1	755.0	746.0	734.0	740.0
70°	664.8	655.8	646.7	637.7	643.7
72.5°	568.5	559.5	550.5	544.5	547.5
75°	472.3	466.3	457.2	451.2	454.2
77.5°	382.0	373.0	370.0	361.0	364.0
80°	288.8	285.8	282.8	273.7	276.7
82.5°	204.6	204.6	198.5	192.5	195.5
85°	126.3	126.3	120.3	114.3	117.3
87.5°	54.1	51.1	51.1	48.1	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)