

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: P395229

Luminaire Tested: **4FSN6-SL1-CP187-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: P395229
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: 4FSN6-SL1-CP187-L8SCT3-3500K-HI
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH LUMEN SETTING, 3500K LEDS AND CP187 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3905.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

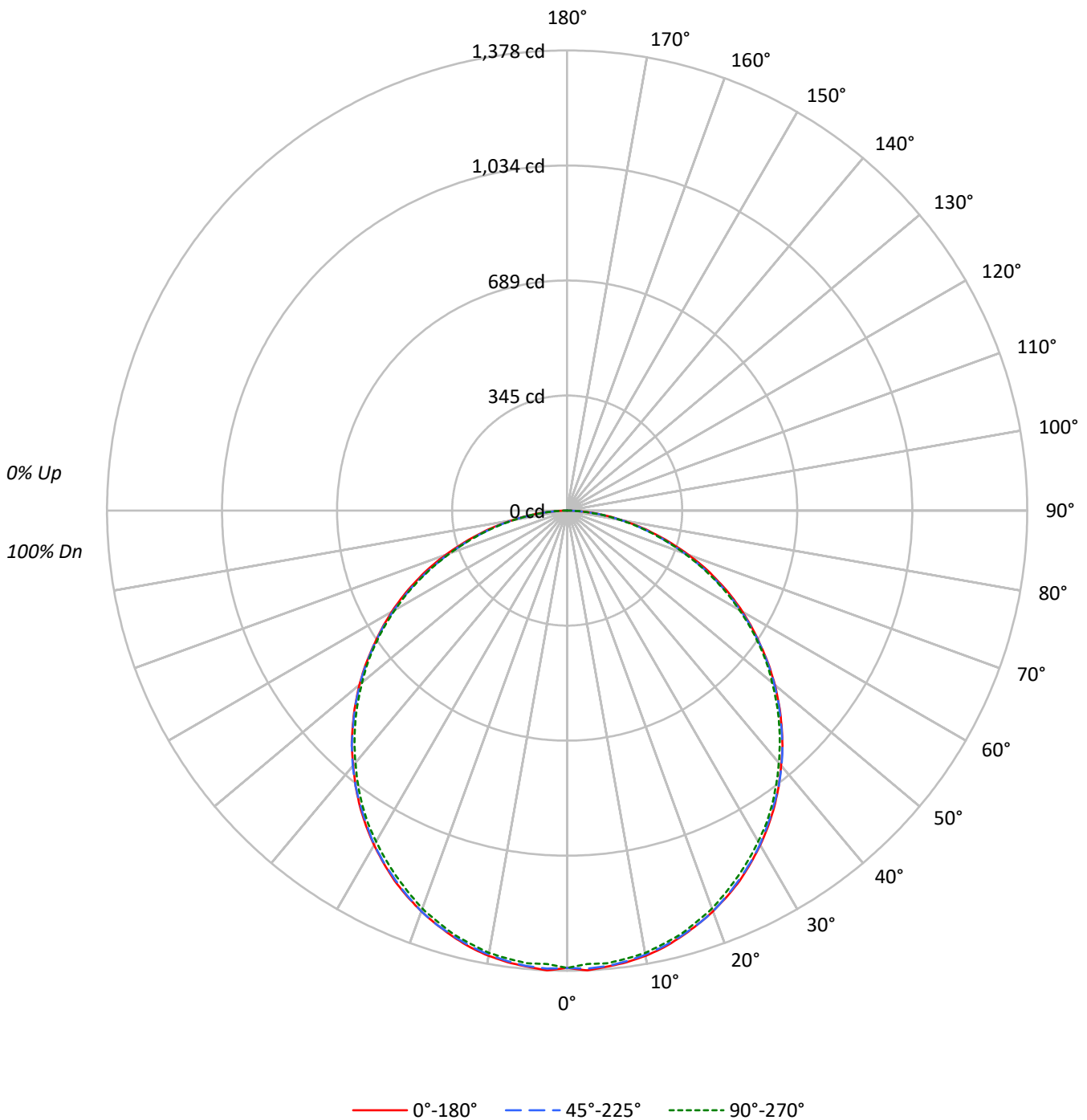
Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7371	7371	7371
5°	7408	7399	7352
10°	7398	7379	7351
15°	7359	7349	7320
20°	7314	7314	7265
25°	7263	7242	7181
30°	7190	7179	7114
35°	7109	7086	7040
40°	7002	7014	6929
45°	6909	6896	6830
50°	6798	6784	6711
55°	6654	6638	6589
60°	6526	6470	6414
65°	6346	6235	6190
70°	6060	5895	5868
75°	5687	5506	5471
80°	5185	5077	4968
85°	4520	4304	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.3
10°-20°	370.9	9.5
20°-30°	559.5	14.3
30°-40°	672.0	17.2
40°-50°	696.0	17.8
50°-60°	630.5	16.1
60°-70°	483.9	12.4
70°-80°	282.1	7.2
80°-90°	80.5	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°	1060.1	27.1
0°-40°	1732.0	44.4
0°-60°	3058.5	78.3
0°-90°	3905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1371	1361	1370	1361	1361	130
15°	1321	1310	1319	1312	1314	373
25°	1223	1213	1220	1207	1209	563
35°	1082	1075	1078	1066	1072	676
45°	908	906	906	894	897	700
55°	709	711	707	697	702	635
65°	498	493	490	484	486	493
75°	274	270	265	261	263	290
85°	73	73	70	66	68	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.5	1369.5	1369.5	1369.5	1369.5
2.5°	1378.2	1366.0	1372.9	1366.0	1359.0
5°	1371.2	1360.8	1369.5	1360.8	1360.8
7.5°	1364.2	1353.8	1360.8	1352.0	1353.8
10°	1353.8	1343.3	1350.3	1343.3	1345.1
12.5°	1339.8	1327.6	1336.4	1329.4	1329.4
15°	1320.7	1310.2	1318.9	1312.0	1313.7
17.5°	1299.8	1289.3	1299.8	1291.1	1291.1
20°	1277.1	1266.7	1277.1	1266.7	1268.4
22.5°	1251.0	1242.3	1249.2	1237.0	1238.8
25°	1223.1	1212.7	1219.6	1207.4	1209.2
27.5°	1190.0	1181.3	1188.3	1176.1	1177.8
30°	1156.9	1148.2	1155.2	1141.2	1144.7
32.5°	1120.3	1111.6	1116.8	1106.4	1109.9
35°	1082.0	1075.0	1078.5	1066.3	1071.5
37.5°	1040.2	1034.9	1040.2	1026.2	1029.7
40°	996.6	993.1	998.3	984.4	986.2
42.5°	954.8	949.6	954.8	940.9	942.6
45°	907.7	906.0	906.0	893.8	897.3
47.5°	860.7	859.0	859.0	846.8	850.3
50°	811.9	811.9	810.2	798.0	801.5
52.5°	761.4	761.4	759.7	749.2	754.4
55°	709.1	710.9	707.4	696.9	702.2
57.5°	658.6	658.6	655.1	646.4	649.9
60°	606.3	604.6	601.1	592.4	595.9
62.5°	554.1	550.6	545.3	538.4	541.9
65°	498.3	493.1	489.6	484.4	486.1
67.5°	444.3	437.3	432.1	425.1	428.6
70°	385.1	379.8	374.6	369.4	372.9
72.5°	329.3	324.1	318.8	315.4	317.1
75°	273.5	270.1	264.8	261.3	263.1
77.5°	221.3	216.0	214.3	209.1	210.8
80°	167.3	165.5	163.8	158.6	160.3
82.5°	118.5	118.5	115.0	111.5	113.3
85°	73.2	73.2	69.7	66.2	68.0
87.5°	31.4	29.6	29.6	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)