

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: P395232

Luminaire Tested: **4FSN6-SL1-CP187-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: P395232  
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-L8SCT3-4000K-HI  
Description: 4FT FSN LINEAR LED FIXTURE WITH HIGH 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: 3950.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 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

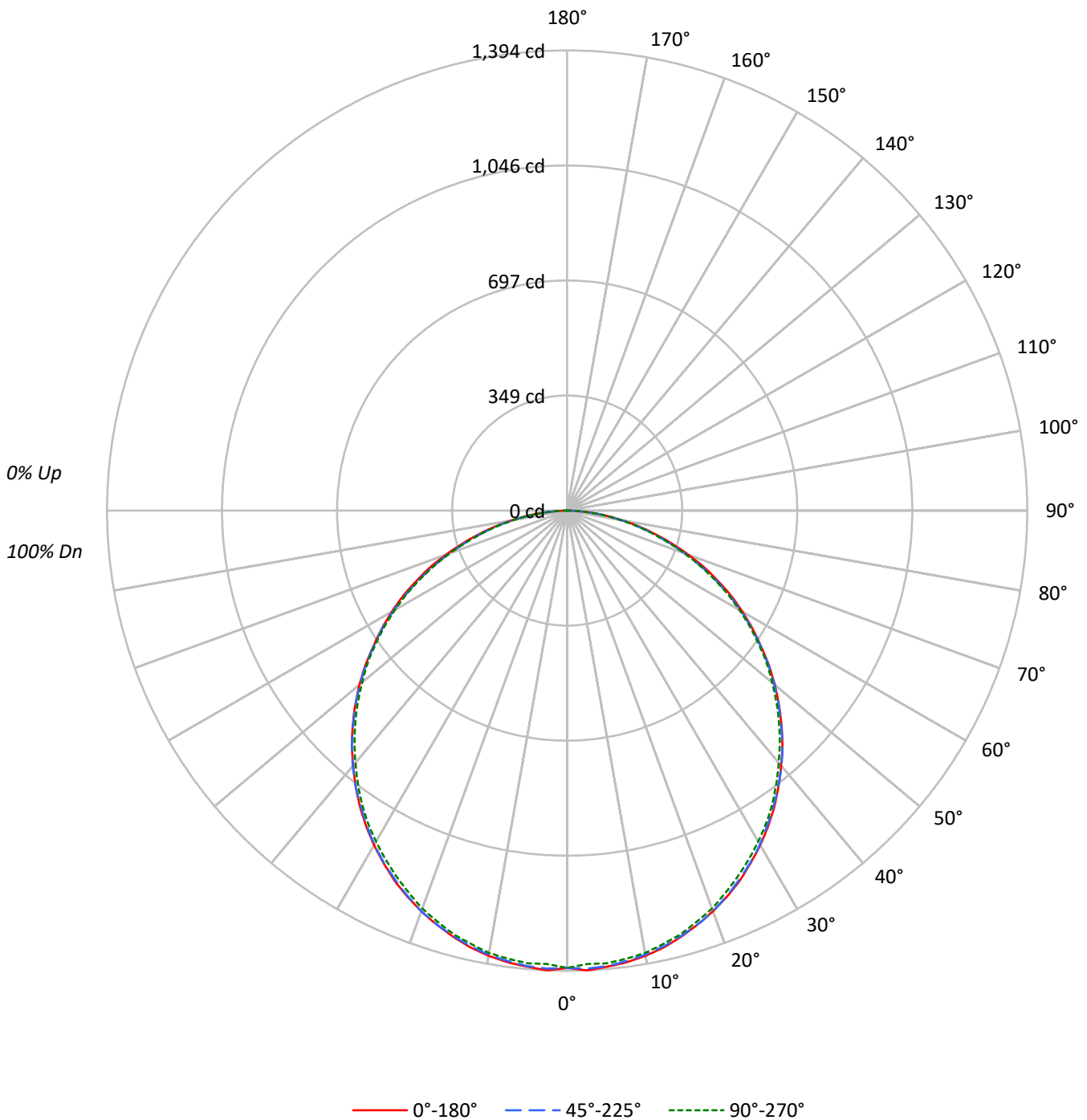
Input Watts (W): 35.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395232

CATALOG NUMBER: 4FSN6-SL1-CP187-L8SCT3-4000K-HI

### Luminous Intensity Polar Plot





TEST NUMBER: P395232

CATALOG NUMBER: 4FSN6-SL1-CP187-L8SCT3-4000K-HI

**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°	7455	7455	7455
5°	7493	7484	7436
10°	7484	7465	7436
15°	7443	7433	7404
20°	7399	7399	7348
25°	7347	7326	7263
30°	7272	7262	7196
35°	7190	7167	7121
40°	7083	7095	7008
45°	6989	6975	6908
50°	6877	6862	6788
55°	6731	6714	6664
60°	6602	6544	6487
65°	6418	6306	6262
70°	6129	5962	5936
75°	5754	5571	5533
80°	5244	5136	5024
85°	4570	4353	4242



TEST NUMBER: P395232

CATALOG NUMBER: 4FSN6-SL1-CP187-L8SCT3-4000K-HI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	3.3
10°-20°	375.2	9.5
20°-30°	566.0	14.3
30°-40°	679.7	17.2
40°-50°	704.0	17.8
50°-60°	637.8	16.1
60°-70°	489.5	12.4
70°-80°	285.3	7.2
80°-90°	81.4	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°	1072.3	27.1
0°-40°	1752.0	44.4
0°-60°	3093.8	78.3
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1387	1376	1385	1376	1376	132
15°	1336	1325	1334	1327	1329	377
25°	1237	1227	1234	1221	1223	570
35°	1094	1087	1091	1079	1084	684
45°	918	916	916	904	908	708
55°	717	719	716	705	710	642
65°	504	499	495	490	492	499
75°	277	273	268	264	266	294
85°	74	74	70	67	69	84
90°	0	0	0	0	0	



TEST NUMBER: P395232

CATALOG NUMBER: 4FSN6-SL1-CP187-L8SCT3-4000K-HI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1394.1	1381.7	1388.8	1381.7	1374.7
5°	1387.0	1376.4	1385.2	1376.4	1376.4
7.5°	1380.0	1369.4	1376.4	1367.6	1369.4
10°	1369.4	1358.8	1365.9	1358.8	1360.6
12.5°	1355.3	1342.9	1351.8	1344.7	1344.7
15°	1335.9	1325.3	1334.1	1327.1	1328.8
17.5°	1314.7	1304.2	1314.7	1305.9	1305.9
20°	1291.8	1281.3	1291.8	1281.3	1283.0
22.5°	1265.4	1256.6	1263.6	1251.3	1253.1
25°	1237.2	1226.6	1233.7	1221.3	1223.1
27.5°	1203.7	1194.9	1202.0	1189.6	1191.4
30°	1170.2	1161.4	1168.5	1154.4	1157.9
32.5°	1133.2	1124.4	1129.7	1119.1	1122.6
35°	1094.4	1087.4	1090.9	1078.6	1083.9
37.5°	1052.2	1046.9	1052.2	1038.1	1041.6
40°	1008.1	1004.6	1009.9	995.8	997.5
42.5°	965.8	960.5	965.8	951.7	953.5
45°	918.2	916.4	916.4	904.1	907.6
47.5°	870.6	868.9	868.9	856.5	860.0
50°	821.3	821.3	819.5	807.2	810.7
52.5°	770.2	770.2	768.4	757.8	763.1
55°	717.3	719.1	715.5	705.0	710.2
57.5°	666.2	666.2	662.7	653.8	657.4
60°	613.3	611.6	608.0	599.2	602.7
62.5°	560.4	556.9	551.6	544.6	548.1
65°	504.0	498.8	495.2	489.9	491.7
67.5°	449.4	442.4	437.1	430.0	433.5
70°	389.5	384.2	378.9	373.6	377.2
72.5°	333.1	327.8	322.5	319.0	320.8
75°	276.7	273.2	267.9	264.4	266.1
77.5°	223.8	218.5	216.8	211.5	213.2
80°	169.2	167.4	165.7	160.4	162.1
82.5°	119.8	119.8	116.3	112.8	114.6
85°	74.0	74.0	70.5	67.0	68.7
87.5°	31.7	30.0	30.0	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)