

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: P395317

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-3000K-LO**

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: P395317  
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-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW 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: 4429.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

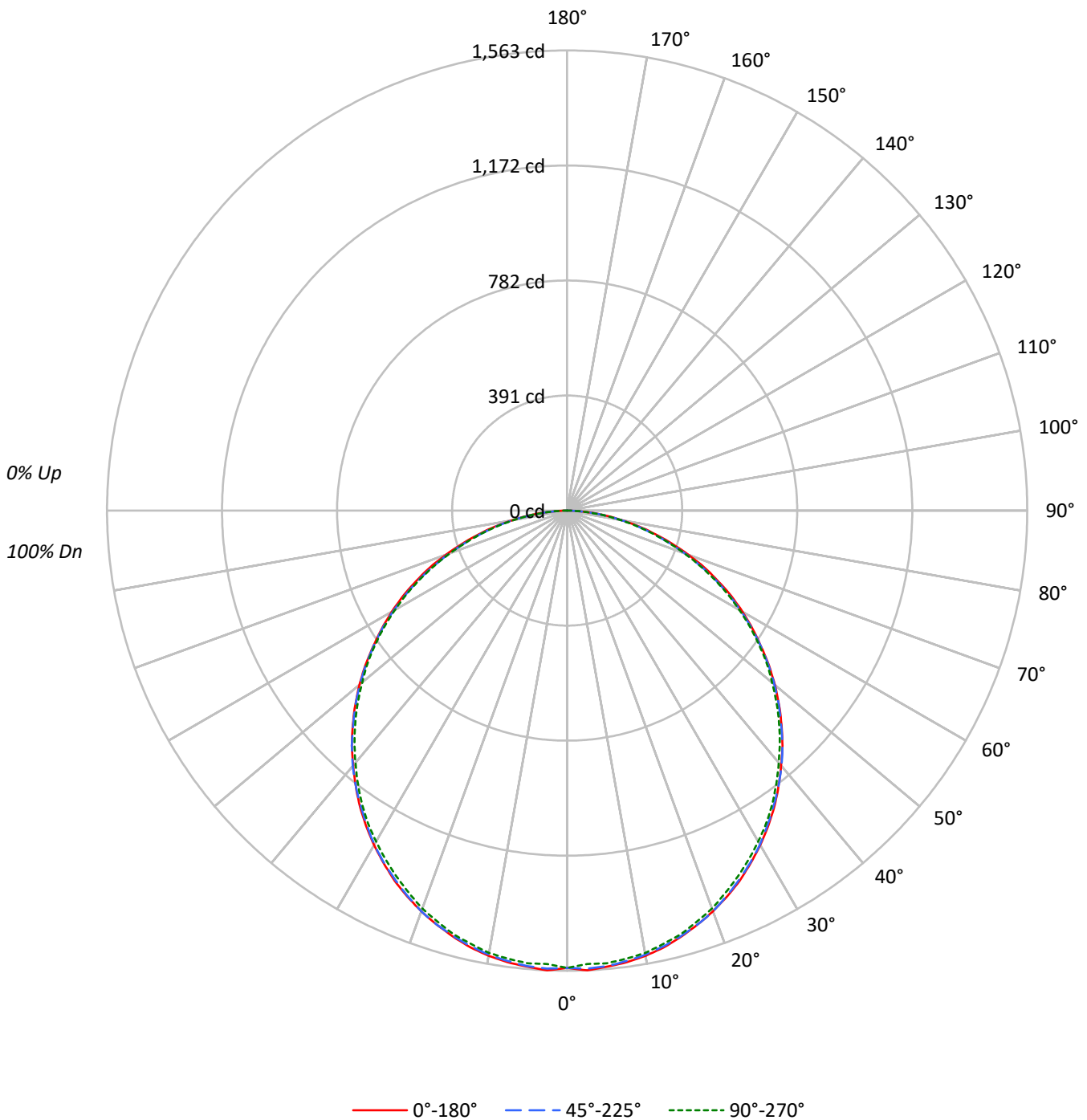
Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4180	4180	4180
5°	4201	4196	4169
10°	4195	4185	4169
15°	4173	4167	4151
20°	4148	4148	4120
25°	4119	4107	4072
30°	4077	4071	4034
35°	4031	4018	3992
40°	3971	3978	3929
45°	3918	3911	3873
50°	3855	3847	3805
55°	3773	3764	3736
60°	3701	3669	3637
65°	3599	3536	3510
70°	3436	3343	3327
75°	3225	3123	3103
80°	2940	2879	2817
85°	2563	2439	2381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.0	3.3
10°-20°	420.7	9.5
20°-30°	634.6	14.3
30°-40°	762.2	17.2
40°-50°	789.4	17.8
50°-60°	715.1	16.1
60°-70°	548.9	12.4
70°-80°	319.9	7.2
80°-90°	91.2	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°	1202.3	27.1
0°-40°	1964.4	44.4
0°-60°	3469.0	78.3
0°-90°	4429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1555	1543	1553	1543	1543	148
15°	1498	1486	1496	1488	1490	423
25°	1387	1375	1383	1369	1371	639
35°	1227	1219	1223	1209	1215	767
45°	1030	1028	1028	1014	1018	794
55°	804	806	802	790	796	720
65°	565	559	555	549	551	559
75°	310	306	300	296	298	329
85°	83	83	79	75	77	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1553.2	1553.2	1553.2	1553.2	1553.2
2.5°	1563.1	1549.3	1557.2	1549.3	1541.4
5°	1555.2	1543.3	1553.2	1543.3	1543.3
7.5°	1547.3	1535.4	1543.3	1533.5	1535.4
10°	1535.4	1523.6	1531.5	1523.6	1525.6
12.5°	1519.6	1505.8	1515.7	1507.8	1507.8
15°	1497.9	1486.0	1495.9	1488.0	1490.0
17.5°	1474.2	1462.3	1474.2	1464.3	1464.3
20°	1448.5	1436.6	1448.5	1436.6	1438.6
22.5°	1418.9	1409.0	1416.9	1403.0	1405.0
25°	1387.2	1375.4	1383.3	1369.4	1371.4
27.5°	1349.7	1339.8	1347.7	1333.9	1335.9
30°	1312.1	1302.3	1310.2	1294.4	1298.3
32.5°	1270.6	1260.8	1266.7	1254.8	1258.8
35°	1227.2	1219.3	1223.2	1209.4	1215.3
37.5°	1179.7	1173.8	1179.7	1163.9	1167.9
40°	1130.3	1126.4	1132.3	1116.5	1118.5
42.5°	1082.9	1077.0	1082.9	1067.1	1069.1
45°	1029.6	1027.6	1027.6	1013.7	1017.7
47.5°	976.2	974.2	974.2	960.4	964.3
50°	920.9	920.9	918.9	905.1	909.0
52.5°	863.6	863.6	861.6	849.7	855.7
55°	804.3	806.3	802.3	790.4	796.4
57.5°	747.0	747.0	743.0	733.1	737.1
60°	687.7	685.7	681.8	671.9	675.8
62.5°	628.4	624.5	618.5	610.6	614.6
65°	565.2	559.2	555.3	549.4	551.3
67.5°	503.9	496.0	490.1	482.2	486.1
70°	436.7	430.8	424.9	418.9	422.9
72.5°	373.5	367.6	361.6	357.7	359.7
75°	310.2	306.3	300.4	296.4	298.4
77.5°	251.0	245.0	243.1	237.1	239.1
80°	189.7	187.7	185.8	179.8	181.8
82.5°	134.4	134.4	130.4	126.5	128.4
85°	83.0	83.0	79.0	75.1	77.1
87.5°	35.6	33.6	33.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)