

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: P395323

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-4000K-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: P395323  
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-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW 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: 4606.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

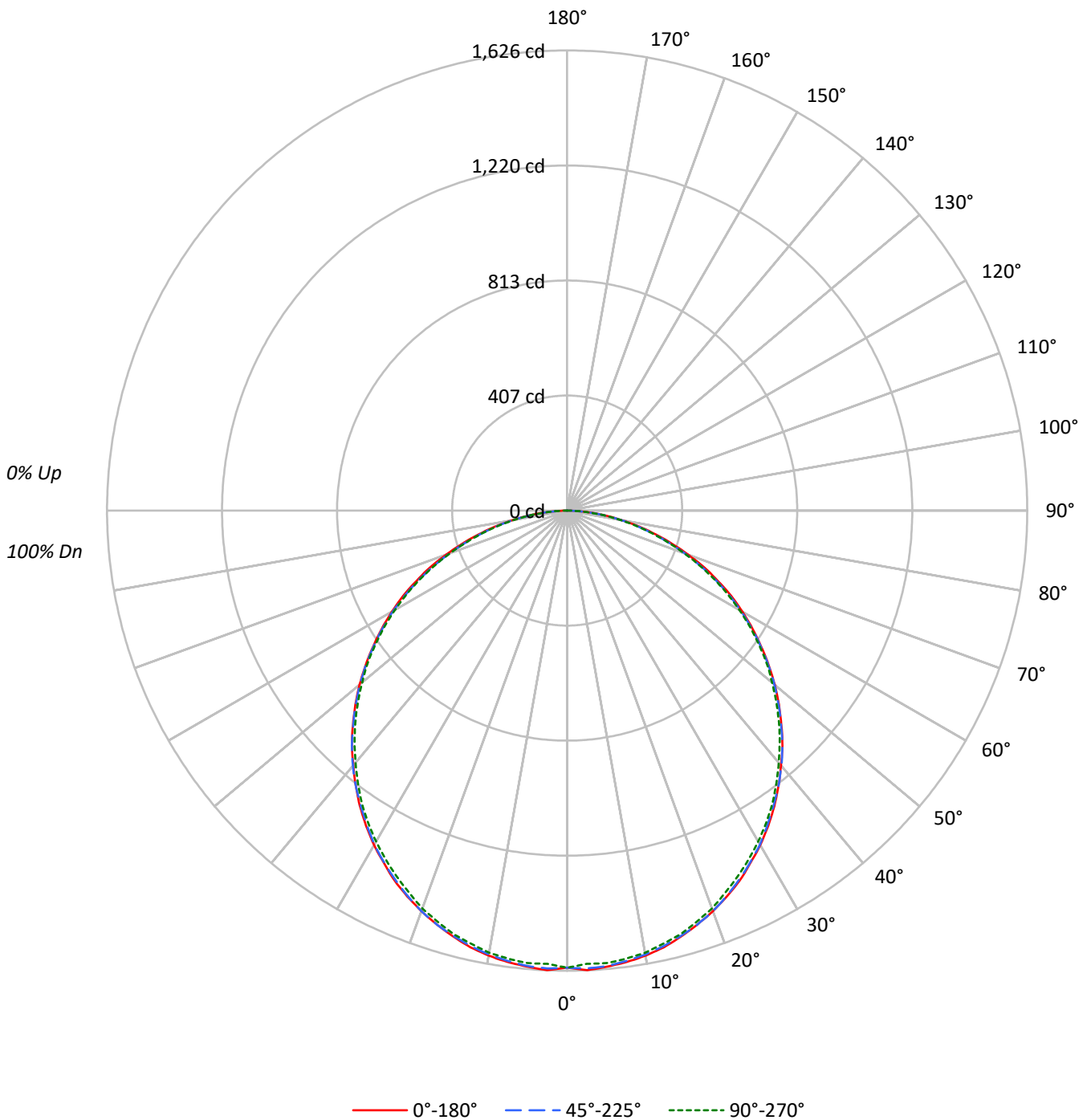
Input Watts (W): 39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4347	4347	4347
5°	4369	4363	4336
10°	4363	4352	4335
15°	4340	4334	4317
20°	4314	4314	4284
25°	4284	4271	4235
30°	4240	4234	4195
35°	4192	4179	4152
40°	4129	4137	4086
45°	4075	4067	4028
50°	4009	4001	3957
55°	3924	3915	3886
60°	3849	3816	3782
65°	3743	3677	3651
70°	3574	3476	3460
75°	3354	3248	3226
80°	3058	2994	2930
85°	2665	2538	2473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.9	3.3
10°-20°	437.5	9.5
20°-30°	660.0	14.3
30°-40°	792.6	17.2
40°-50°	820.9	17.8
50°-60°	743.7	16.1
60°-70°	570.8	12.4
70°-80°	332.7	7.2
80°-90°	94.9	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°	1250.3	27.1
0°-40°	2043.0	44.4
0°-60°	3607.6	78.3
0°-90°	4606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1617	1605	1615	1605	1605	154
15°	1558	1545	1556	1548	1550	440
25°	1443	1430	1439	1424	1426	664
35°	1276	1268	1272	1258	1264	798
45°	1071	1069	1069	1054	1058	826
55°	836	838	834	822	828	749
65°	588	582	578	571	573	582
75°	323	318	312	308	310	342
85°	86	86	82	78	80	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1615.3	1615.3	1615.3	1615.3	1615.3
2.5°	1625.6	1611.2	1619.4	1611.2	1603.0
5°	1617.4	1605.0	1615.3	1605.0	1605.0
7.5°	1609.1	1596.8	1605.0	1594.7	1596.8
10°	1596.8	1584.5	1592.7	1584.5	1586.5
12.5°	1580.4	1566.0	1576.3	1568.0	1568.0
15°	1557.8	1545.4	1555.7	1547.5	1549.5
17.5°	1533.1	1520.8	1533.1	1522.8	1522.8
20°	1506.4	1494.0	1506.4	1494.0	1496.1
22.5°	1475.6	1465.3	1473.5	1459.1	1461.2
25°	1442.7	1430.3	1438.6	1424.2	1426.2
27.5°	1403.6	1393.3	1401.6	1387.2	1389.2
30°	1364.6	1354.3	1362.5	1346.1	1350.2
32.5°	1321.4	1311.1	1317.3	1305.0	1309.1
35°	1276.2	1268.0	1272.1	1257.7	1263.9
37.5°	1226.9	1220.7	1226.9	1210.4	1214.6
40°	1175.5	1171.4	1177.6	1161.1	1163.2
42.5°	1126.2	1120.0	1126.2	1109.7	1111.8
45°	1070.7	1068.6	1068.6	1054.3	1058.4
47.5°	1015.2	1013.2	1013.2	998.8	1002.9
50°	957.7	957.7	955.6	941.2	945.3
52.5°	898.1	898.1	896.0	883.7	889.9
55°	836.4	838.5	834.4	822.0	828.2
57.5°	776.8	776.8	772.7	762.4	766.5
60°	715.2	713.1	709.0	698.7	702.8
62.5°	653.5	649.4	643.2	635.0	639.1
65°	587.8	581.6	577.5	571.3	573.4
67.5°	524.0	515.8	509.7	501.4	505.6
70°	454.2	448.0	441.8	435.7	439.8
72.5°	388.4	382.2	376.1	372.0	374.0
75°	322.6	318.5	312.4	308.3	310.3
77.5°	261.0	254.8	252.8	246.6	248.7
80°	197.3	195.2	193.2	187.0	189.1
82.5°	139.7	139.7	135.6	131.5	133.6
85°	86.3	86.3	82.2	78.1	80.1
87.5°	37.0	34.9	34.9	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)