

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: P395320

Luminaire Tested: **8FSN6-SL1-CP187-L8SCT3-3500K-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: P395320  
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-L8SCT3-3500K-LO  
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW 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: 4546.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

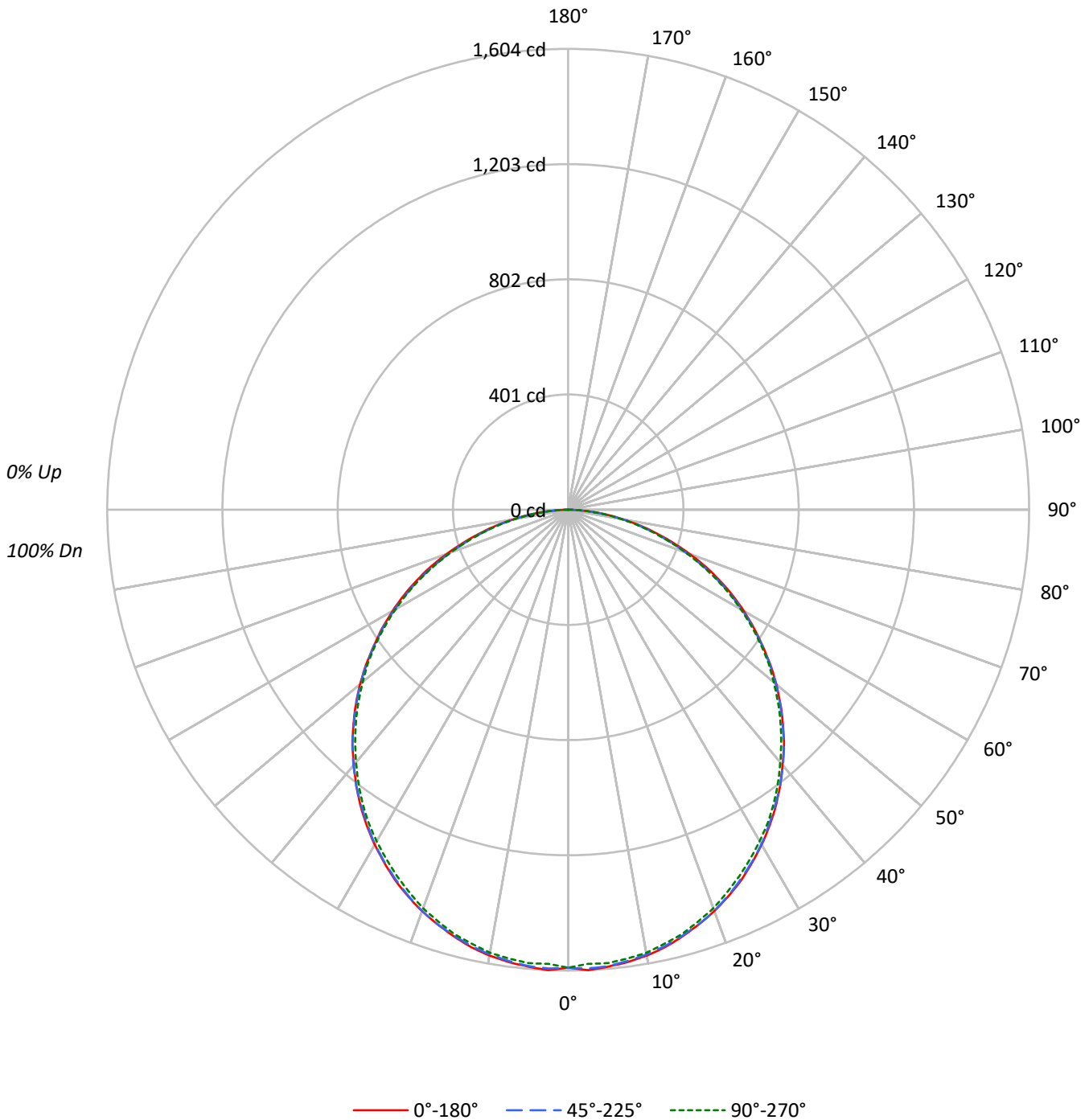
Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4290	4290	4290
5°	4312	4307	4279
10°	4306	4295	4279
15°	4283	4277	4261
20°	4258	4258	4229
25°	4228	4216	4180
30°	4185	4179	4141
35°	4138	4124	4098
40°	4076	4083	4033
45°	4022	4014	3975
50°	3957	3949	3906
55°	3873	3864	3835
60°	3799	3766	3733
65°	3694	3629	3603
70°	3527	3431	3415
75°	3310	3205	3185
80°	3017	2955	2892
85°	2631	2504	2442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	3.3
10°-20°	431.8	9.5
20°-30°	651.4	14.3
30°-40°	782.3	17.2
40°-50°	810.2	17.8
50°-60°	734.0	16.1
60°-70°	563.4	12.4
70°-80°	328.4	7.2
80°-90°	93.7	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°	1234.1	27.1
0°-40°	2016.3	44.4
0°-60°	3560.6	78.3
0°-90°	4546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1596	1584	1594	1584	1584	152
15°	1538	1525	1535	1527	1529	434
25°	1424	1412	1420	1406	1408	656
35°	1260	1252	1256	1241	1247	787
45°	1057	1055	1055	1040	1045	815
55°	826	828	824	811	817	739
65°	580	574	570	564	566	574
75°	318	314	308	304	306	338
85°	85	85	81	77	79	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1594.3	1594.3	1594.3	1594.3	1594.3
2.5°	1604.4	1590.2	1598.3	1590.2	1582.1
5°	1596.3	1584.1	1594.3	1584.1	1584.1
7.5°	1588.2	1576.0	1584.1	1574.0	1576.0
10°	1576.0	1563.8	1571.9	1563.8	1565.9
12.5°	1559.8	1545.6	1555.7	1547.6	1547.6
15°	1537.5	1525.3	1535.4	1527.3	1529.4
17.5°	1513.1	1501.0	1513.1	1503.0	1503.0
20°	1486.8	1474.6	1486.8	1474.6	1476.6
22.5°	1456.3	1446.2	1454.3	1440.1	1442.1
25°	1423.9	1411.7	1419.8	1405.6	1407.7
27.5°	1385.3	1375.2	1383.3	1369.1	1371.1
30°	1346.8	1336.7	1344.8	1328.5	1332.6
32.5°	1304.2	1294.1	1300.2	1288.0	1292.0
35°	1259.6	1251.5	1255.5	1241.3	1247.4
37.5°	1210.9	1204.8	1210.9	1194.7	1198.7
40°	1160.2	1156.1	1162.2	1146.0	1148.0
42.5°	1111.5	1105.4	1111.5	1095.3	1097.3
45°	1056.8	1054.7	1054.7	1040.5	1044.6
47.5°	1002.0	1000.0	1000.0	985.8	989.8
50°	945.2	945.2	943.2	929.0	933.0
52.5°	886.4	886.4	884.3	872.2	878.3
55°	825.5	827.6	823.5	811.3	817.4
57.5°	766.7	766.7	762.6	752.5	756.6
60°	705.9	703.8	699.8	689.6	693.7
62.5°	645.0	640.9	634.9	626.7	630.8
65°	580.1	574.0	570.0	563.9	565.9
67.5°	517.2	509.1	503.0	494.9	499.0
70°	448.3	442.2	436.1	430.0	434.1
72.5°	383.4	377.3	371.2	367.1	369.2
75°	318.4	314.4	308.3	304.2	306.3
77.5°	257.6	251.5	249.5	243.4	245.4
80°	194.7	192.7	190.7	184.6	186.6
82.5°	137.9	137.9	133.9	129.8	131.8
85°	85.2	85.2	81.1	77.1	79.1
87.5°	36.5	34.5	34.5	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)