

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: P395186

Luminaire Tested: **2FSN6-SL1-CP187-L8SCT3-3500K-MID**

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: P395186
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: 2FSN6-SL1-CP187-L8SCT3-3500K-MID
Description: 2FT FSN LINEAR LED FIXTURE WITH MID 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: 1660.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 2' x H: 0')
CIE Type: Direct

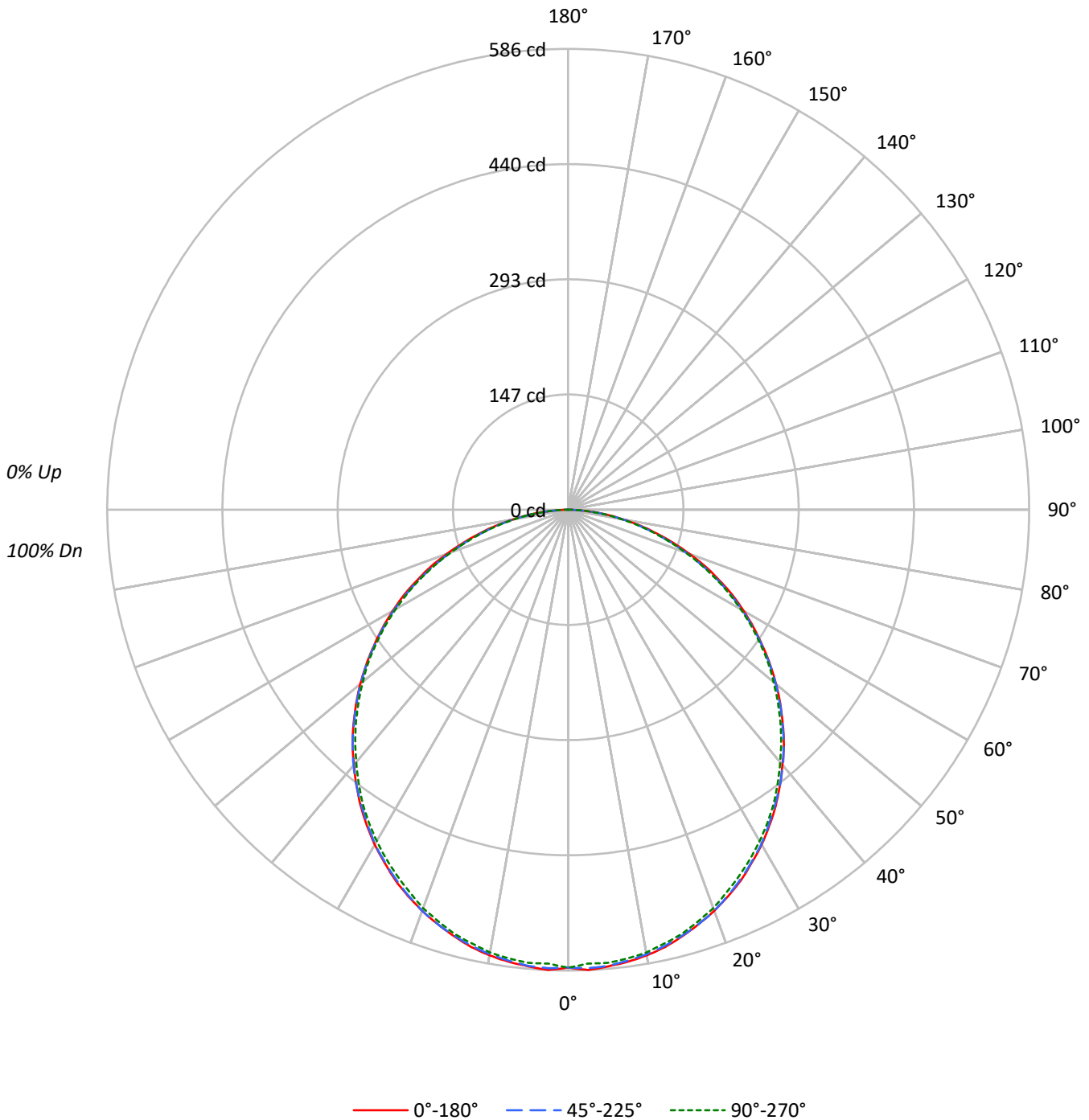
Input Watts (W): 16.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6267	6267	6267
5°	6298	6291	6250
10°	6290	6274	6250
15°	6256	6248	6224
20°	6219	6219	6176
25°	6175	6158	6105
30°	6113	6104	6048
35°	6043	6025	5985
40°	5954	5963	5890
45°	5874	5862	5806
50°	5779	5767	5705
55°	5656	5643	5602
60°	5548	5500	5453
65°	5394	5300	5262
70°	5152	5010	4988
75°	4837	4683	4650
80°	4407	4314	4221
85°	3841	3656	3569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.3
10°-20°	157.7	9.5
20°-30°	237.9	14.3
30°-40°	285.7	17.2
40°-50°	295.9	17.8
50°-60°	268.0	16.1
60°-70°	205.7	12.4
70°-80°	119.9	7.2
80°-90°	34.2	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°	450.6	27.1
0°-40°	736.3	44.4
0°-60°	1300.2	78.3
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	583	578	582	578	578	55
15°	561	557	561	558	558	158
25°	520	516	518	513	514	239
35°	460	457	458	453	456	288
45°	386	385	385	380	381	298
55°	301	302	301	296	298	270
65°	212	210	208	206	207	210
75°	116	115	113	111	112	123
85°	31	31	30	28	29	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	582.2	582.2	582.2	582.2	582.2
2.5°	585.9	580.7	583.6	580.7	577.7
5°	582.9	578.4	582.2	578.4	578.4
7.5°	579.9	575.5	578.4	574.7	575.5
10°	575.5	571.0	574.0	571.0	571.8
12.5°	569.6	564.4	568.1	565.1	565.1
15°	561.4	557.0	560.7	557.7	558.5
17.5°	552.5	548.1	552.5	548.8	548.8
20°	542.9	538.5	542.9	538.5	539.2
22.5°	531.8	528.1	531.0	525.9	526.6
25°	519.9	515.5	518.5	513.3	514.0
27.5°	505.9	502.2	505.1	499.9	500.7
30°	491.8	488.1	491.1	485.1	486.6
32.5°	476.2	472.5	474.8	470.3	471.8
35°	459.9	457.0	458.5	453.3	455.5
37.5°	442.2	439.9	442.2	436.2	437.7
40°	423.7	422.2	424.4	418.5	419.2
42.5°	405.9	403.7	405.9	400.0	400.7
45°	385.9	385.1	385.1	380.0	381.4
47.5°	365.9	365.1	365.1	360.0	361.4
50°	345.1	345.1	344.4	339.2	340.7
52.5°	323.7	323.7	322.9	318.5	320.7
55°	301.4	302.2	300.7	296.3	298.5
57.5°	280.0	280.0	278.5	274.8	276.3
60°	257.7	257.0	255.5	251.8	253.3
62.5°	235.5	234.0	231.8	228.9	230.3
65°	211.8	209.6	208.1	205.9	206.6
67.5°	188.9	185.9	183.7	180.7	182.2
70°	163.7	161.5	159.2	157.0	158.5
72.5°	140.0	137.8	135.5	134.1	134.8
75°	116.3	114.8	112.6	111.1	111.8
77.5°	94.1	91.8	91.1	88.9	89.6
80°	71.1	70.4	69.6	67.4	68.1
82.5°	50.4	50.4	48.9	47.4	48.1
85°	31.1	31.1	29.6	28.1	28.9
87.5°	13.3	12.6	12.6	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)