

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: P395195

Luminaire Tested: **2FSN6-SL1-CP250-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: P395195
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-CP250-L8SCT3-3500K-MID
Description: 2FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3500K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

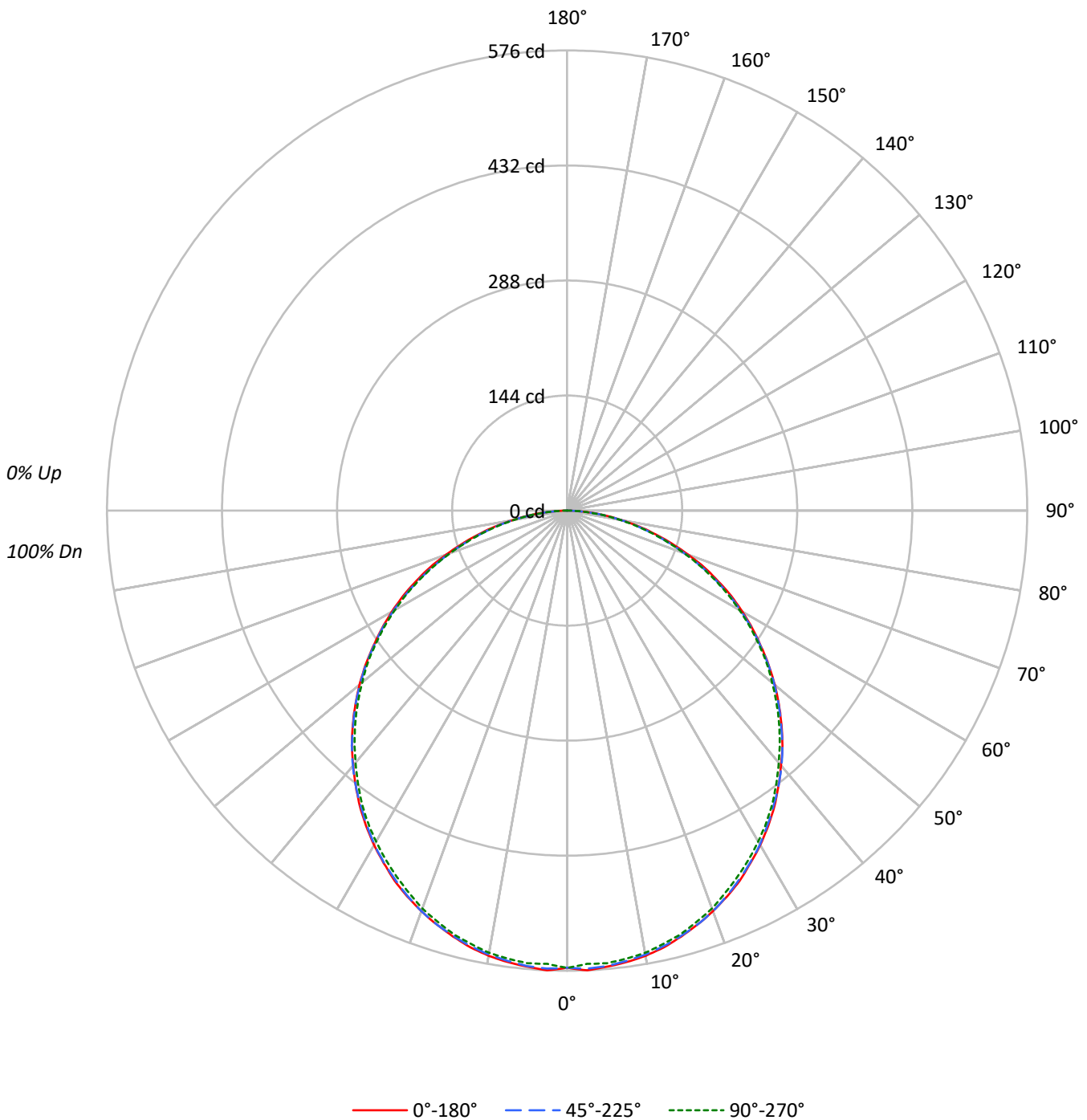
Input Watts (W): 16.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6160	6160	6160
5°	6192	6184	6145
10°	6184	6168	6144
15°	6150	6142	6118
20°	6113	6113	6072
25°	6071	6054	6001
30°	6009	6001	5946
35°	5942	5922	5884
40°	5852	5862	5791
45°	5775	5763	5708
50°	5682	5670	5610
55°	5562	5547	5506
60°	5455	5408	5360
65°	5305	5211	5175
70°	5064	4928	4903
75°	4754	4604	4575
80°	4333	4240	4153
85°	3779	3594	3507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.3
10°-20°	155.0	9.5
20°-30°	233.8	14.3
30°-40°	280.8	17.2
40°-50°	290.9	17.8
50°-60°	263.5	16.1
60°-70°	202.3	12.4
70°-80°	117.9	7.2
80°-90°	33.6	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°	443.0	27.1
0°-40°	723.9	44.4
0°-60°	1278.2	78.3
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	573	569	572	569	569	54
15°	552	548	551	548	549	156
25°	511	507	510	505	505	235
35°	452	449	451	446	448	283
45°	379	379	379	374	375	293
55°	296	297	296	291	293	265
65°	208	206	205	202	203	206
75°	114	113	111	109	110	121
85°	31	31	29	28	28	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.3	572.3	572.3	572.3	572.3
2.5°	576.0	570.9	573.8	570.9	568.0
5°	573.1	568.7	572.3	568.7	568.7
7.5°	570.1	565.8	568.7	565.1	565.8
10°	565.8	561.4	564.3	561.4	562.1
12.5°	560.0	554.9	558.5	555.6	555.6
15°	551.9	547.6	551.2	548.3	549.0
17.5°	543.2	538.8	543.2	539.6	539.6
20°	533.7	529.4	533.7	529.4	530.1
22.5°	522.8	519.2	522.1	517.0	517.7
25°	511.2	506.8	509.7	504.6	505.3
27.5°	497.3	493.7	496.6	491.5	492.2
30°	483.5	479.9	482.8	476.9	478.4
32.5°	468.2	464.6	466.8	462.4	463.8
35°	452.2	449.3	450.7	445.6	447.8
37.5°	434.7	432.5	434.7	428.9	430.3
40°	416.5	415.1	417.2	411.4	412.1
42.5°	399.0	396.8	399.0	393.2	393.9
45°	379.4	378.6	378.6	373.5	375.0
47.5°	359.7	359.0	359.0	353.9	355.3
50°	339.3	339.3	338.6	333.5	335.0
52.5°	318.2	318.2	317.5	313.1	315.3
55°	296.4	297.1	295.6	291.3	293.4
57.5°	275.2	275.2	273.8	270.1	271.6
60°	253.4	252.7	251.2	247.6	249.0
62.5°	231.6	230.1	227.9	225.0	226.5
65°	208.3	206.1	204.6	202.4	203.2
67.5°	185.7	182.8	180.6	177.7	179.1
70°	160.9	158.7	156.6	154.4	155.8
72.5°	137.6	135.4	133.3	131.8	132.5
75°	114.3	112.9	110.7	109.2	110.0
77.5°	92.5	90.3	89.6	87.4	88.1
80°	69.9	69.2	68.4	66.3	67.0
82.5°	49.5	49.5	48.1	46.6	47.3
85°	30.6	30.6	29.1	27.7	28.4
87.5°	13.1	12.4	12.4	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)