

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: P395237

Luminaire Tested: **4FSN6-SL1-CP250-L8SCT3-3000K-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: P395237
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: 4FSN6-SL1-CP250-L8SCT3-3000K-MID
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3000K LEDS AND CP250 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

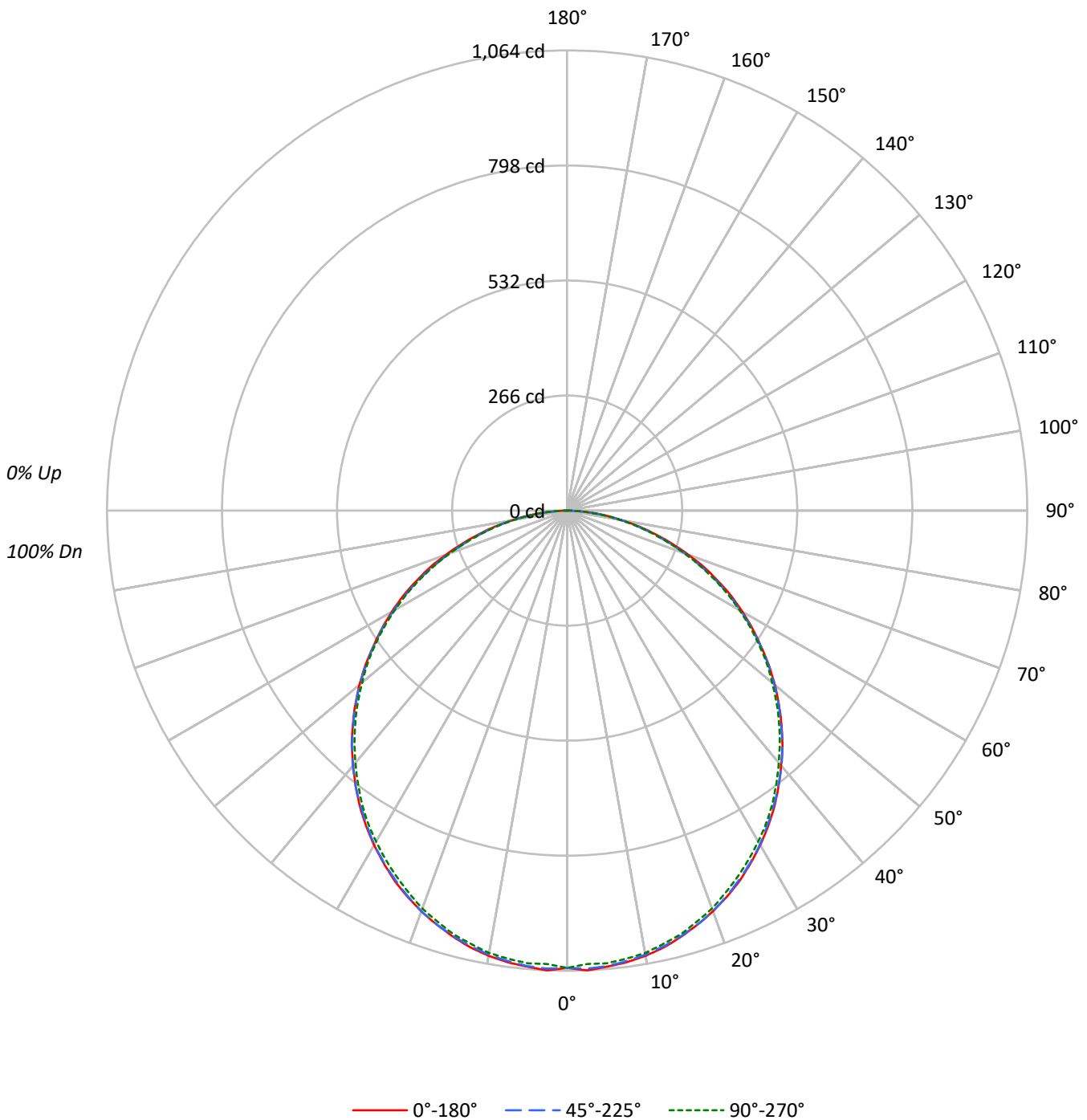
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5690	5690	5690
5°	5720	5712	5676
10°	5712	5697	5675
15°	5682	5674	5651
20°	5647	5647	5609
25°	5608	5592	5544
30°	5551	5543	5492
35°	5489	5471	5435
40°	5406	5415	5349
45°	5335	5324	5273
50°	5249	5237	5181
55°	5137	5125	5087
60°	5039	4996	4952
65°	4899	4814	4779
70°	4678	4551	4530
75°	4392	4252	4223
80°	4001	3921	3837
85°	3489	3322	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.3
10°-20°	286.4	9.5
20°-30°	432.0	14.3
30°-40°	518.8	17.2
40°-50°	537.4	17.8
50°-60°	486.8	16.1
60°-70°	373.6	12.4
70°-80°	217.8	7.2
80°-90°	62.1	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°	818.5	27.1
0°-40°	1337.3	44.4
0°-60°	2361.5	78.3
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1059	1051	1057	1051	1051	101
15°	1020	1012	1018	1013	1014	288
25°	944	936	942	932	934	435
35°	835	830	833	823	827	522
45°	701	700	700	690	693	541
55°	548	549	546	538	542	490
65°	385	381	378	374	375	381
75°	211	208	204	202	203	224
85°	56	56	54	51	52	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.3	1057.3	1057.3	1057.3	1057.3
2.5°	1064.1	1054.7	1060.0	1054.7	1049.3
5°	1058.7	1050.6	1057.3	1050.6	1050.6
7.5°	1053.3	1045.2	1050.6	1043.9	1045.2
10°	1045.2	1037.2	1042.5	1037.2	1038.5
12.5°	1034.5	1025.1	1031.8	1026.4	1026.4
15°	1019.7	1011.6	1018.3	1013.0	1014.3
17.5°	1003.5	995.5	1003.5	996.8	996.8
20°	986.0	978.0	986.0	978.0	979.3
22.5°	965.9	959.1	964.5	955.1	956.5
25°	944.3	936.3	941.7	932.2	933.6
27.5°	918.8	912.1	917.4	908.0	909.4
30°	893.2	886.5	891.9	881.1	883.8
32.5°	865.0	858.3	862.3	854.2	856.9
35°	835.4	830.0	832.7	823.3	827.3
37.5°	803.1	799.1	803.1	792.3	795.0
40°	769.5	766.8	770.8	760.0	761.4
42.5°	737.2	733.1	737.2	726.4	727.8
45°	700.9	699.5	699.5	690.1	692.8
47.5°	664.5	663.2	663.2	653.8	656.5
50°	626.9	626.9	625.5	616.1	618.8
52.5°	587.9	587.9	586.5	578.4	582.5
55°	547.5	548.9	546.2	538.1	542.1
57.5°	508.5	508.5	505.8	499.1	501.8
60°	468.1	466.8	464.1	457.4	460.1
62.5°	427.8	425.1	421.1	415.7	418.4
65°	384.7	380.7	378.0	374.0	375.3
67.5°	343.0	337.7	333.6	328.2	330.9
70°	297.3	293.3	289.2	285.2	287.9
72.5°	254.2	250.2	246.2	243.5	244.8
75°	211.2	208.5	204.5	201.8	203.1
77.5°	170.8	166.8	165.5	161.4	162.8
80°	129.1	127.8	126.5	122.4	123.8
82.5°	91.5	91.5	88.8	86.1	87.4
85°	56.5	56.5	53.8	51.1	52.5
87.5°	24.2	22.9	22.9	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)