

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: P395207

Luminaire Tested: **4FSN6-SL1-CA08-L8SCT3-4000K-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: P395207  
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-CA08-L8SCT3-4000K-MID  
Description: 4FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CA08 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3280.0 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

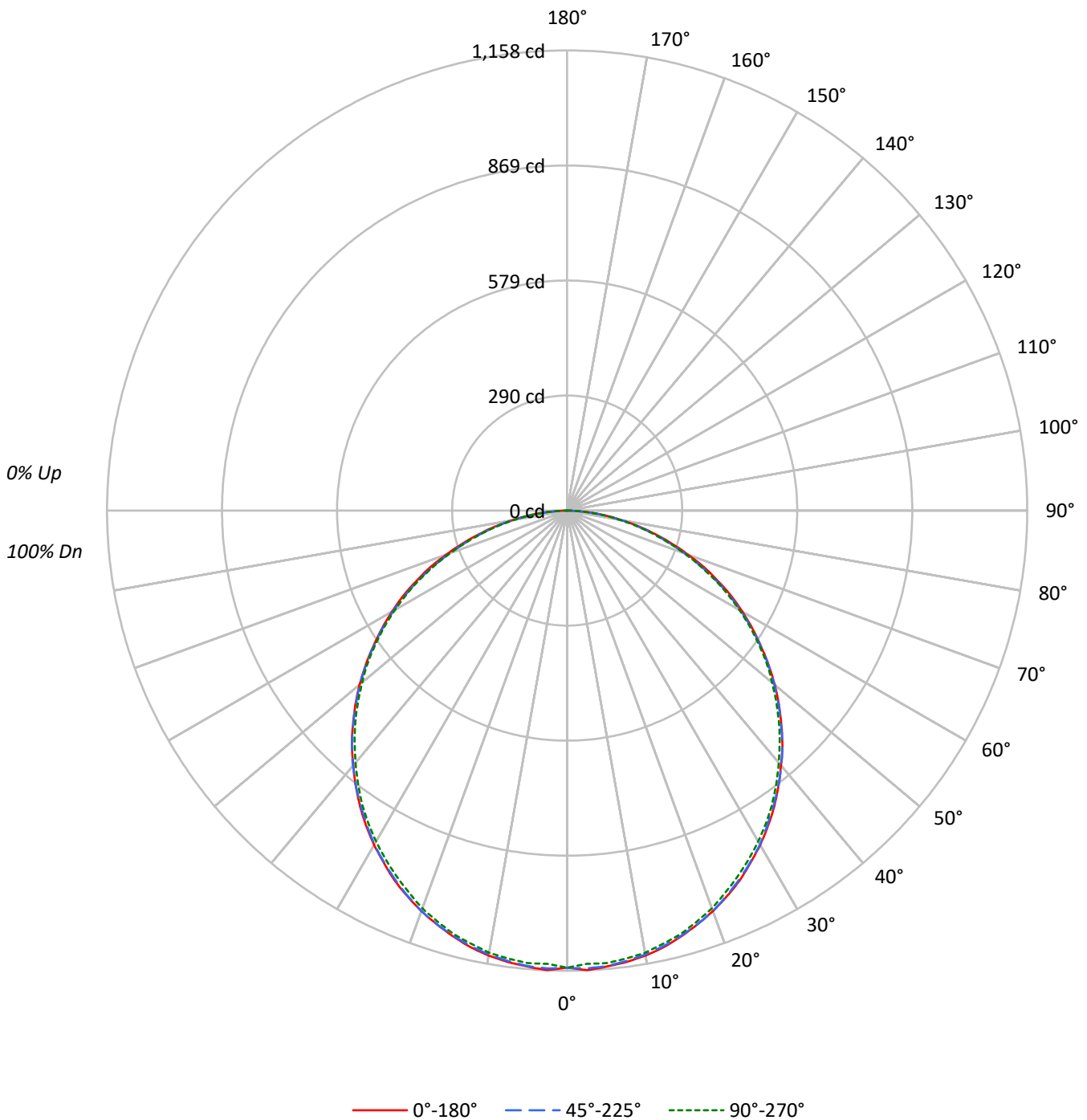
Input Watts (W): 27.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6191	6191	6191
5°	6222	6215	6175
10°	6214	6198	6174
15°	6181	6172	6148
20°	6144	6144	6102
25°	6100	6083	6031
30°	6039	6030	5975
35°	5971	5952	5913
40°	5881	5892	5819
45°	5804	5792	5737
50°	5710	5698	5637
55°	5589	5575	5534
60°	5482	5435	5387
65°	5330	5237	5200
70°	5089	4950	4928
75°	4779	4625	4596
80°	4355	4265	4172
85°	3798	3612	3526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	3.3
10°-20°	311.5	9.5
20°-30°	470.0	14.3
30°-40°	564.4	17.2
40°-50°	584.6	17.8
50°-60°	529.6	16.1
60°-70°	406.5	12.4
70°-80°	236.9	7.2
80°-90°	67.6	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°	890.4	27.1
0°-40°	1454.8	44.4
0°-60°	2569.0	78.3
0°-90°	3280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1152	1143	1150	1143	1143	109
15°	1109	1100	1108	1102	1103	313
25°	1027	1019	1024	1014	1016	473
35°	909	903	906	896	900	568
45°	762	761	761	751	754	588
55°	596	597	594	585	590	533
65°	418	414	411	407	408	414
75°	230	227	222	220	221	244
85°	62	62	58	56	57	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1150.3	1150.3	1150.3	1150.3	1150.3
2.5°	1157.6	1147.4	1153.2	1147.4	1141.5
5°	1151.7	1143.0	1150.3	1143.0	1143.0
7.5°	1145.9	1137.1	1143.0	1135.6	1137.1
10°	1137.1	1128.3	1134.2	1128.3	1129.8
12.5°	1125.4	1115.2	1122.5	1116.6	1116.6
15°	1109.3	1100.5	1107.8	1102.0	1103.4
17.5°	1091.7	1083.0	1091.7	1084.4	1084.4
20°	1072.7	1063.9	1072.7	1063.9	1065.4
22.5°	1050.8	1043.4	1049.3	1039.1	1040.5
25°	1027.3	1018.6	1024.4	1014.2	1015.6
27.5°	999.5	992.2	998.1	987.8	989.3
30°	971.7	964.4	970.3	958.6	961.5
32.5°	941.0	933.7	938.1	929.3	932.2
35°	908.8	903.0	905.9	895.6	900.0
37.5°	873.7	869.3	873.7	862.0	864.9
40°	837.1	834.2	838.6	826.9	828.3
42.5°	802.0	797.6	802.0	790.3	791.7
45°	762.5	761.0	761.0	750.8	753.7
47.5°	722.9	721.5	721.5	711.2	714.2
50°	682.0	682.0	680.5	670.3	673.2
52.5°	639.5	639.5	638.1	629.3	633.7
55°	595.6	597.1	594.2	585.4	589.8
57.5°	553.2	553.2	550.3	542.9	545.9
60°	509.3	507.8	504.9	497.6	500.5
62.5°	465.4	462.5	458.1	452.2	455.1
65°	418.5	414.2	411.2	406.8	408.3
67.5°	373.2	367.3	362.9	357.1	360.0
70°	323.4	319.0	314.6	310.3	313.2
72.5°	276.6	272.2	267.8	264.9	266.3
75°	229.8	226.8	222.4	219.5	221.0
77.5°	185.9	181.5	180.0	175.6	177.1
80°	140.5	139.0	137.6	133.2	134.6
82.5°	99.5	99.5	96.6	93.7	95.1
85°	61.5	61.5	58.5	55.6	57.1
87.5°	26.3	24.9	24.9	23.4	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)