

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: P395303

Luminaire Tested: **8FSN6-SL1-CA125-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: P395303  
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-CA125-L8SCT3-3500K-MID  
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 3500K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6887.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 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

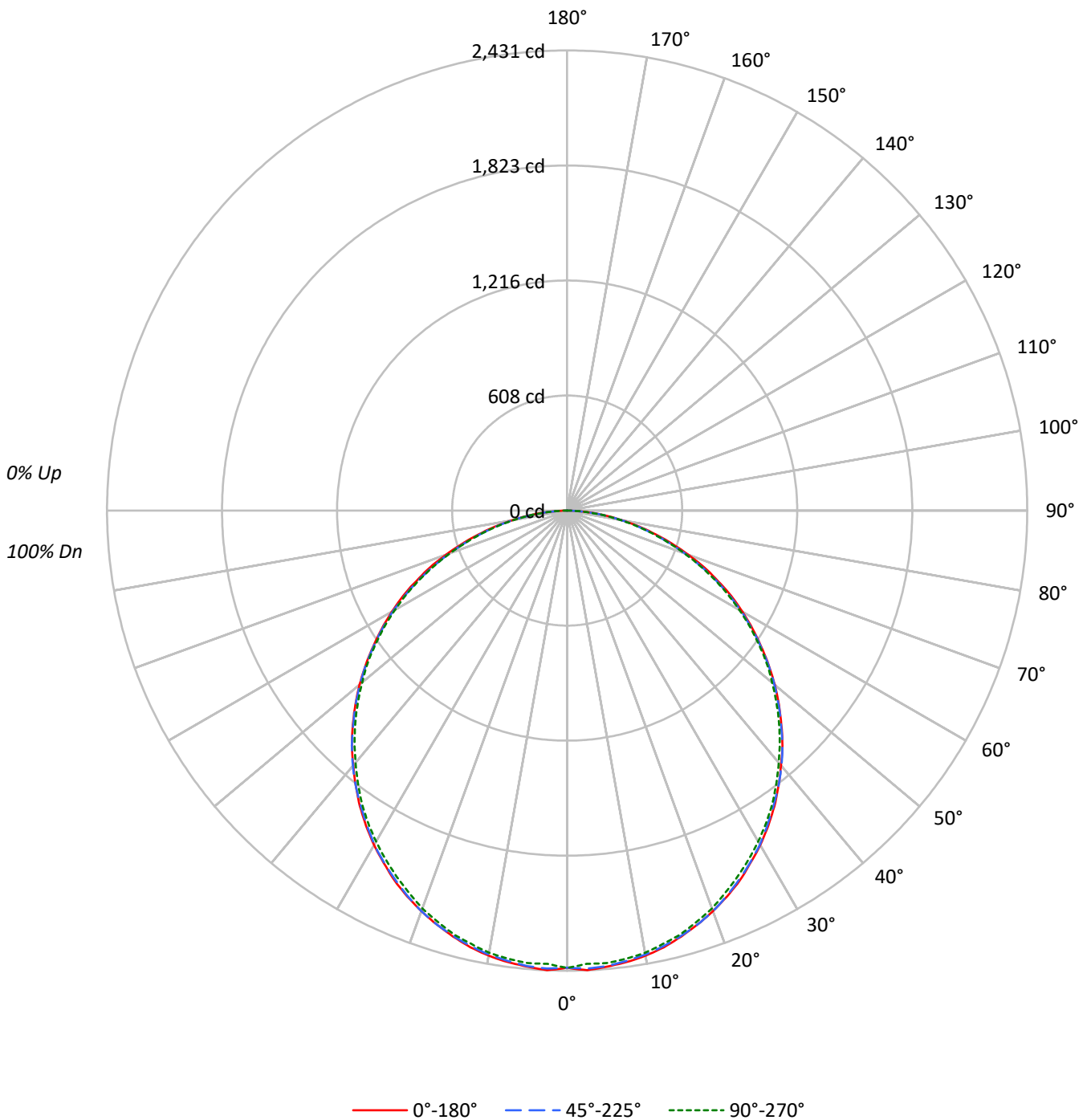
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6499	6499	6499
5°	6532	6524	6483
10°	6524	6507	6482
15°	6489	6480	6455
20°	6450	6450	6406
25°	6405	6387	6332
30°	6340	6330	6273
35°	6269	6249	6208
40°	6174	6185	6110
45°	6092	6081	6022
50°	5995	5982	5918
55°	5867	5853	5810
60°	5755	5705	5656
65°	5596	5498	5459
70°	5343	5198	5174
75°	5016	4857	4824
80°	4572	4475	4381
85°	3986	3795	3699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.6	3.3
10°-20°	654.1	9.5
20°-30°	986.8	14.3
30°-40°	1185.1	17.2
40°-50°	1227.5	17.8
50°-60°	1112.0	16.1
60°-70°	853.5	12.4
70°-80°	497.5	7.2
80°-90°	141.9	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°	1869.6	27.1
0°-40°	3054.7	44.4
0°-60°	5394.1	78.3
0°-90°	6887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6887.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2415	2415	2415	2415	2415	
5°	2418	2400	2415	2400	2400	230
15°	2329	2311	2326	2314	2317	657
25°	2157	2139	2151	2130	2132	993
35°	1908	1896	1902	1881	1890	1193
45°	1601	1598	1598	1576	1582	1235
55°	1251	1254	1248	1229	1238	1120
65°	879	870	864	854	857	870
75°	482	476	467	461	464	512
85°	129	129	123	117	120	147
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2415.2	2415.2	2415.2	2415.2	2415.2
2.5°	2430.6	2409.1	2421.4	2409.1	2396.8
5°	2418.3	2399.9	2415.2	2399.9	2399.9
7.5°	2406.0	2387.6	2399.9	2384.5	2387.6
10°	2387.6	2369.1	2381.4	2369.1	2372.2
12.5°	2363.0	2341.5	2356.8	2344.6	2344.6
15°	2329.2	2310.8	2326.1	2313.8	2316.9
17.5°	2292.3	2273.9	2292.3	2277.0	2277.0
20°	2252.4	2233.9	2252.4	2233.9	2237.0
22.5°	2206.3	2190.9	2203.2	2181.7	2184.8
25°	2157.1	2138.7	2151.0	2129.5	2132.5
27.5°	2098.7	2083.4	2095.7	2074.2	2077.2
30°	2040.3	2025.0	2037.3	2012.7	2018.8
32.5°	1975.8	1960.5	1969.7	1951.2	1957.4
35°	1908.2	1895.9	1902.1	1880.6	1889.8
37.5°	1834.5	1825.3	1834.5	1809.9	1816.0
40°	1757.7	1751.5	1760.7	1736.1	1739.2
42.5°	1683.9	1674.7	1683.9	1659.3	1662.4
45°	1600.9	1597.9	1597.9	1576.4	1582.5
47.5°	1518.0	1514.9	1514.9	1493.4	1499.5
50°	1431.9	1431.9	1428.9	1407.3	1413.5
52.5°	1342.8	1342.8	1339.7	1321.3	1330.5
55°	1250.6	1253.7	1247.6	1229.1	1238.3
57.5°	1161.5	1161.5	1155.4	1140.0	1146.2
60°	1069.3	1066.3	1060.1	1044.8	1050.9
62.5°	977.2	971.0	961.8	949.5	955.6
65°	878.8	869.6	863.5	854.2	857.3
67.5°	783.6	771.3	762.1	749.8	755.9
70°	679.1	669.9	660.7	651.4	657.6
72.5°	580.8	571.5	562.3	556.2	559.3
75°	482.4	476.3	467.1	460.9	464.0
77.5°	390.2	381.0	378.0	368.7	371.8
80°	295.0	291.9	288.8	279.6	282.7
82.5°	209.0	209.0	202.8	196.7	199.7
85°	129.1	129.1	122.9	116.8	119.8
87.5°	55.3	52.2	52.2	49.2	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)