

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: P395306

Luminaire Tested: **8FSN6-SL1-CA125-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: P395306  
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-L8SCT3-4000K-MID  
Description: 8FT FSN LINEAR LED FIXTURE WITH MID LUMEN SETTING, 4000K LEDS AND CA125 LENS CONFIGURATION

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6992.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

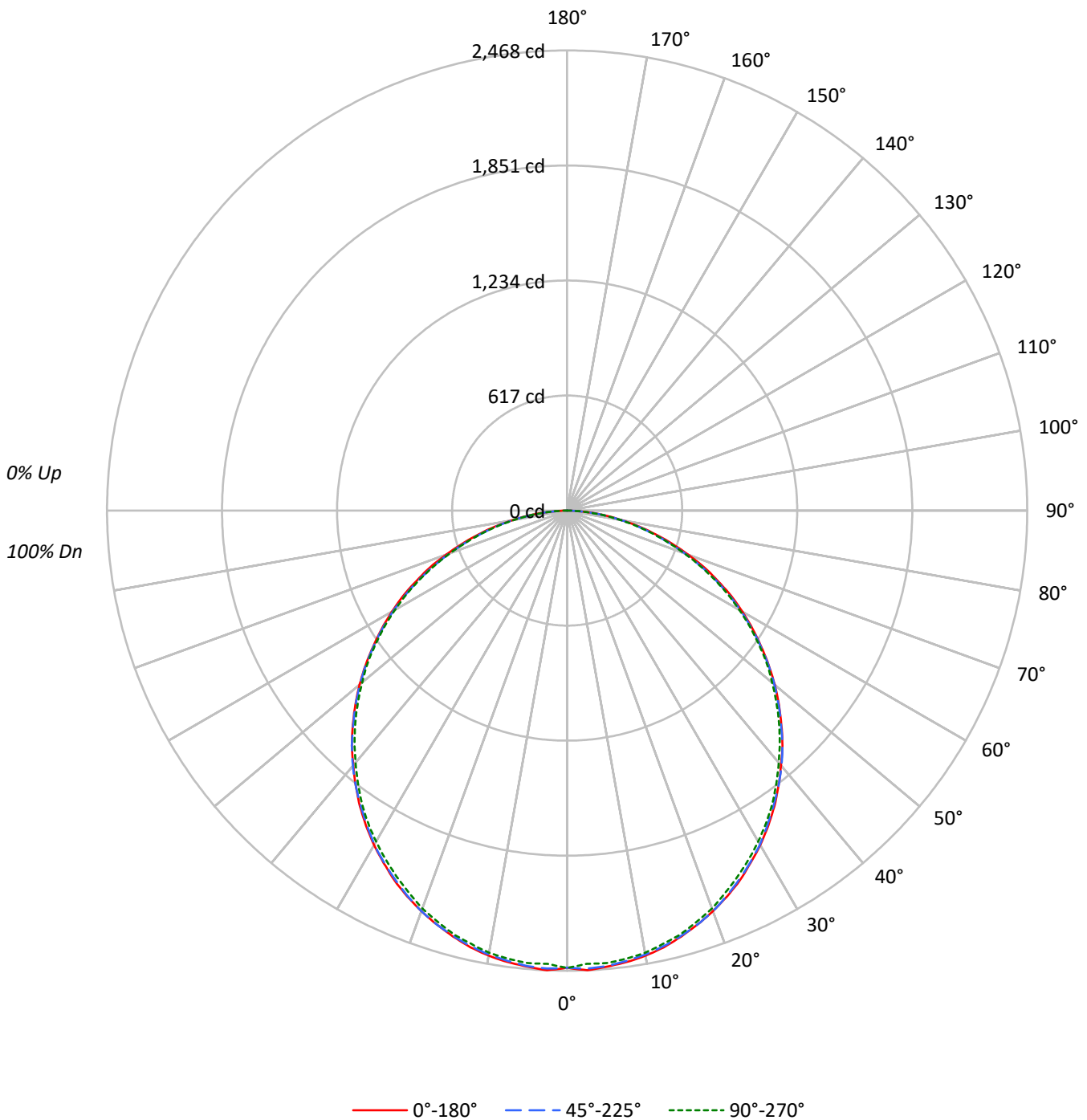
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6599	6599	6599
5°	6632	6624	6582
10°	6624	6606	6581
15°	6588	6579	6553
20°	6548	6548	6504
25°	6502	6484	6428
30°	6437	6427	6369
35°	6364	6344	6303
40°	6268	6280	6203
45°	6185	6173	6114
50°	6086	6073	6008
55°	5957	5942	5898
60°	5843	5793	5742
65°	5681	5582	5542
70°	5424	5277	5253
75°	5093	4930	4898
80°	4641	4544	4448
85°	4045	3853	3758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.1	3.3
10°-20°	664.1	9.5
20°-30°	1001.8	14.3
30°-40°	1203.2	17.2
40°-50°	1246.2	17.8
50°-60°	1129.0	16.1
60°-70°	866.5	12.4
70°-80°	505.1	7.2
80°-90°	144.0	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°	1898.1	27.1
0°-40°	3101.2	44.4
0°-60°	5476.4	78.3
0°-90°	6992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2455	2436	2452	2436	2436	233
15°	2365	2346	2362	2349	2352	667
25°	2190	2171	2184	2162	2165	1008
35°	1937	1925	1931	1909	1919	1211
45°	1625	1622	1622	1600	1607	1254
55°	1270	1273	1267	1248	1257	1137
65°	892	883	877	867	870	883
75°	490	484	474	468	471	520
85°	131	131	125	118	122	149
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2452.1	2452.1	2452.1	2452.1	2452.1
2.5°	2467.7	2445.8	2458.3	2445.8	2433.3
5°	2455.2	2436.5	2452.1	2436.5	2436.5
7.5°	2442.7	2424.0	2436.5	2420.9	2424.0
10°	2424.0	2405.3	2417.7	2405.3	2408.4
12.5°	2399.0	2377.2	2392.8	2380.3	2380.3
15°	2364.7	2346.0	2361.6	2349.1	2352.2
17.5°	2327.3	2308.6	2327.3	2311.7	2311.7
20°	2286.7	2268.0	2286.7	2268.0	2271.1
22.5°	2239.9	2224.3	2236.8	2215.0	2218.1
25°	2190.0	2171.3	2183.8	2161.9	2165.0
27.5°	2130.7	2115.1	2127.6	2105.8	2108.9
30°	2071.5	2055.9	2068.3	2043.4	2049.6
32.5°	2005.9	1990.3	1999.7	1981.0	1987.2
35°	1937.3	1924.8	1931.1	1909.2	1918.6
37.5°	1862.4	1853.1	1862.4	1837.5	1843.7
40°	1784.4	1778.2	1787.6	1762.6	1765.7
42.5°	1709.6	1700.2	1709.6	1684.6	1687.7
45°	1625.3	1622.2	1622.2	1600.4	1606.6
47.5°	1541.1	1538.0	1538.0	1516.2	1522.4
50°	1453.8	1453.8	1450.6	1428.8	1435.0
52.5°	1363.3	1363.3	1360.2	1341.5	1350.8
55°	1269.7	1272.8	1266.6	1247.9	1257.2
57.5°	1179.2	1179.2	1173.0	1157.4	1163.6
60°	1085.6	1082.5	1076.3	1060.7	1066.9
62.5°	992.1	985.8	976.5	964.0	970.2
65°	892.2	882.9	876.6	867.3	870.4
67.5°	795.5	783.0	773.7	761.2	767.4
70°	689.4	680.1	670.7	661.4	667.6
72.5°	589.6	580.3	570.9	564.7	567.8
75°	489.8	483.5	474.2	467.9	471.1
77.5°	396.2	386.8	383.7	374.4	377.5
80°	299.5	296.4	293.2	283.9	287.0
82.5°	212.1	212.1	205.9	199.7	202.8
85°	131.0	131.0	124.8	118.5	121.7
87.5°	56.2	53.0	53.0	49.9	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)