

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: P395327

Luminaire Tested: **8FSN6-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: P395327
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-CP250-L8SCT3-3000K-MID
Description: 8FT 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: 6375.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

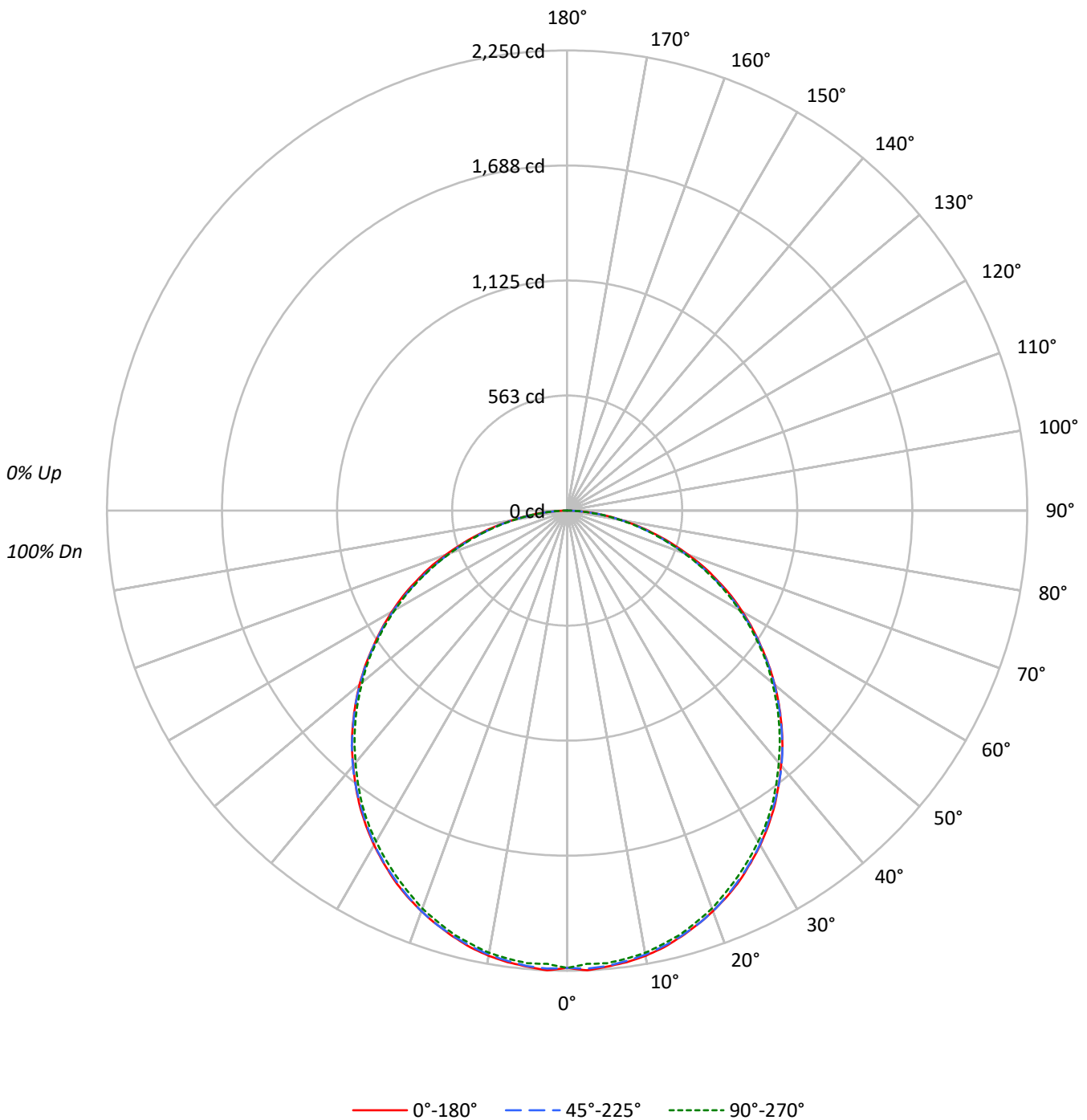
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6016	6016	6016
5°	6047	6039	6001
10°	6039	6024	6000
15°	6006	5999	5975
20°	5970	5970	5930
25°	5929	5912	5861
30°	5869	5860	5807
35°	5803	5784	5747
40°	5715	5725	5655
45°	5640	5629	5575
50°	5549	5537	5478
55°	5431	5418	5378
60°	5327	5281	5236
65°	5180	5089	5053
70°	4946	4811	4789
75°	4643	4495	4466
80°	4232	4144	4055
85°	3690	3514	3424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	3.3
10°-20°	605.5	9.5
20°-30°	913.4	14.3
30°-40°	1097.0	17.2
40°-50°	1136.2	17.8
50°-60°	1029.3	16.1
60°-70°	790.0	12.4
70°-80°	460.5	7.2
80°-90°	131.3	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°	1730.6	27.1
0°-40°	2827.6	44.4
0°-60°	4993.1	78.3
0°-90°	6375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2238	2222	2236	2222	2222	213
15°	2156	2139	2153	2142	2145	609
25°	1997	1980	1991	1971	1974	919
35°	1766	1755	1761	1741	1749	1104
45°	1482	1479	1479	1459	1465	1143
55°	1158	1160	1155	1138	1146	1036
65°	814	805	799	791	794	805
75°	447	441	432	427	430	474
85°	120	120	114	108	111	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2235.7	2235.7	2235.7	2235.7	2235.7
2.5°	2249.9	2230.0	2241.4	2230.0	2218.6
5°	2238.5	2221.5	2235.7	2221.5	2221.5
7.5°	2227.1	2210.1	2221.5	2207.2	2210.1
10°	2210.1	2193.0	2204.4	2193.0	2195.9
12.5°	2187.3	2167.4	2181.6	2170.3	2170.3
15°	2156.0	2139.0	2153.2	2141.8	2144.7
17.5°	2121.9	2104.8	2121.9	2107.7	2107.7
20°	2084.9	2067.9	2084.9	2067.9	2070.7
22.5°	2042.3	2028.0	2039.4	2019.5	2022.3
25°	1996.7	1979.7	1991.1	1971.2	1974.0
27.5°	1942.7	1928.5	1939.9	1920.0	1922.8
30°	1888.7	1874.4	1885.8	1863.1	1868.8
32.5°	1828.9	1814.7	1823.2	1806.2	1811.9
35°	1766.4	1755.0	1760.7	1740.8	1749.3
37.5°	1698.1	1689.6	1698.1	1675.3	1681.0
40°	1627.0	1621.3	1629.8	1607.1	1609.9
42.5°	1558.7	1550.2	1558.7	1536.0	1538.8
45°	1481.9	1479.1	1479.1	1459.2	1464.9
47.5°	1405.1	1402.3	1402.3	1382.4	1388.1
50°	1325.5	1325.5	1322.6	1302.7	1308.4
52.5°	1243.0	1243.0	1240.1	1223.1	1231.6
55°	1157.7	1160.5	1154.8	1137.7	1146.3
57.5°	1075.2	1075.2	1069.5	1055.3	1061.0
60°	989.8	987.0	981.3	967.1	972.8
62.5°	904.5	898.8	890.3	878.9	884.6
65°	813.5	805.0	799.3	790.7	793.6
67.5°	725.3	713.9	705.4	694.0	699.7
70°	628.6	620.1	611.5	603.0	608.7
72.5°	537.6	529.1	520.5	514.8	517.7
75°	446.6	440.9	432.3	426.7	429.5
77.5°	361.2	352.7	349.9	341.3	344.2
80°	273.1	270.2	267.4	258.8	261.7
82.5°	193.4	193.4	187.7	182.0	184.9
85°	119.5	119.5	113.8	108.1	110.9
87.5°	51.2	48.4	48.4	45.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)