

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: P395314

Luminaire Tested: **8FSN6-SL1-CP125-L8SCT3-4000K-LO**

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: P395314
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-CP125-L8SCT3-4000K-LO
Description: 8FT FSN LINEAR LED FIXTURE WITH LOW LUMEN SETTING, 4000K LEDS AND CP125 LENS CONFIGURATION

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4665.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

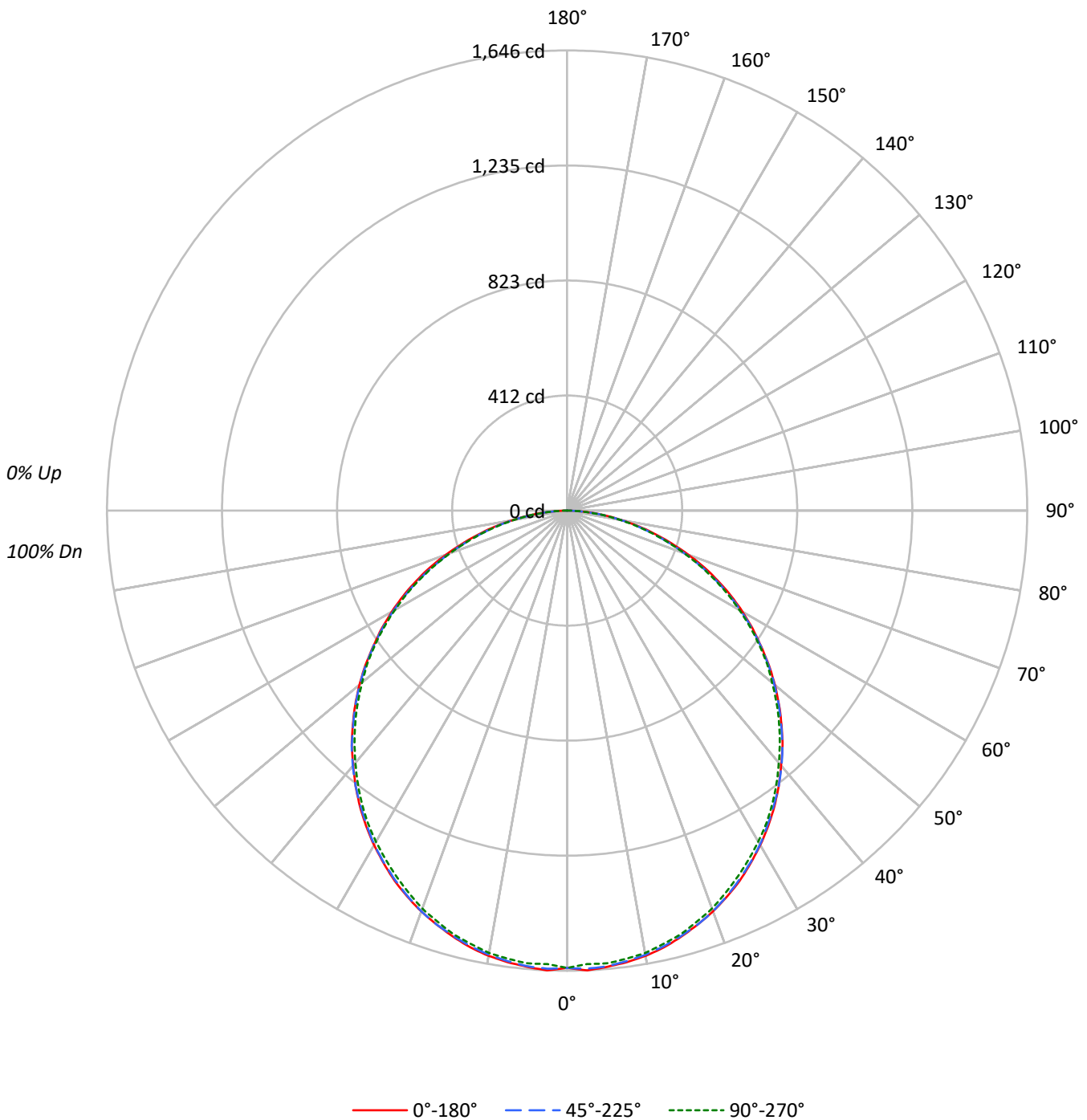
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4402	4402	4402
5°	4425	4419	4391
10°	4419	4408	4391
15°	4395	4389	4372
20°	4369	4369	4339
25°	4339	4326	4289
30°	4295	4288	4249
35°	4246	4232	4205
40°	4182	4189	4138
45°	4127	4119	4079
50°	4060	4052	4008
55°	3974	3965	3935
60°	3898	3865	3831
65°	3791	3724	3698
70°	3619	3521	3504
75°	3398	3290	3268
80°	3096	3033	2968
85°	2699	2572	2507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.3
10°-20°	443.1	9.5
20°-30°	668.4	14.3
30°-40°	802.8	17.2
40°-50°	831.4	17.8
50°-60°	753.2	16.1
60°-70°	578.1	12.4
70°-80°	337.0	7.2
80°-90°	96.1	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°	1266.4	27.1
0°-40°	2069.1	44.4
0°-60°	3653.8	78.3
0°-90°	4665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1638	1626	1636	1626	1626	156
15°	1578	1565	1576	1567	1569	445
25°	1461	1449	1457	1442	1444	673
35°	1293	1284	1288	1274	1280	808
45°	1084	1082	1082	1068	1072	837
55°	847	849	845	833	839	758
65°	595	589	585	579	581	589
75°	327	323	316	312	314	347
85°	87	87	83	79	81	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.0	1636.0	1636.0	1636.0	1636.0
2.5°	1646.4	1631.8	1640.2	1631.8	1623.5
5°	1638.1	1625.6	1636.0	1625.6	1625.6
7.5°	1629.7	1617.3	1625.6	1615.2	1617.3
10°	1617.3	1604.8	1613.1	1604.8	1606.8
12.5°	1600.6	1586.0	1596.4	1588.1	1588.1
15°	1577.7	1565.2	1575.6	1567.3	1569.4
17.5°	1552.7	1540.2	1552.7	1542.3	1542.3
20°	1525.7	1513.2	1525.7	1513.2	1515.3
22.5°	1494.5	1484.0	1492.4	1477.8	1479.9
25°	1461.2	1448.7	1457.0	1442.4	1444.5
27.5°	1421.6	1411.2	1419.5	1405.0	1407.0
30°	1382.1	1371.7	1380.0	1363.3	1367.5
32.5°	1338.3	1327.9	1334.2	1321.7	1325.9
35°	1292.6	1284.2	1288.4	1273.8	1280.1
37.5°	1242.6	1236.4	1242.6	1226.0	1230.1
40°	1190.6	1186.4	1192.6	1176.0	1178.1
42.5°	1140.6	1134.4	1140.6	1124.0	1126.0
45°	1084.4	1082.3	1082.3	1067.8	1071.9
47.5°	1028.2	1026.1	1026.1	1011.6	1015.7
50°	969.9	969.9	967.9	953.3	957.4
52.5°	909.6	909.6	907.5	895.0	901.3
55°	847.1	849.2	845.1	832.6	838.8
57.5°	786.8	786.8	782.6	772.2	776.4
60°	724.3	722.2	718.1	707.7	711.8
62.5°	661.9	657.7	651.5	643.2	647.3
65°	595.3	589.0	584.9	578.6	580.7
67.5°	530.8	522.4	516.2	507.9	512.0
70°	460.0	453.7	447.5	441.3	445.4
72.5°	393.4	387.1	380.9	376.7	378.8
75°	326.8	322.6	316.4	312.2	314.3
77.5°	264.3	258.1	256.0	249.8	251.9
80°	199.8	197.7	195.7	189.4	191.5
82.5°	141.5	141.5	137.4	133.2	135.3
85°	87.4	87.4	83.3	79.1	81.2
87.5°	37.5	35.4	35.4	33.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)