

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: P554103

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-87-EDD**

Issue Date: 7/16/2021

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: P554103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-1LO-30-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

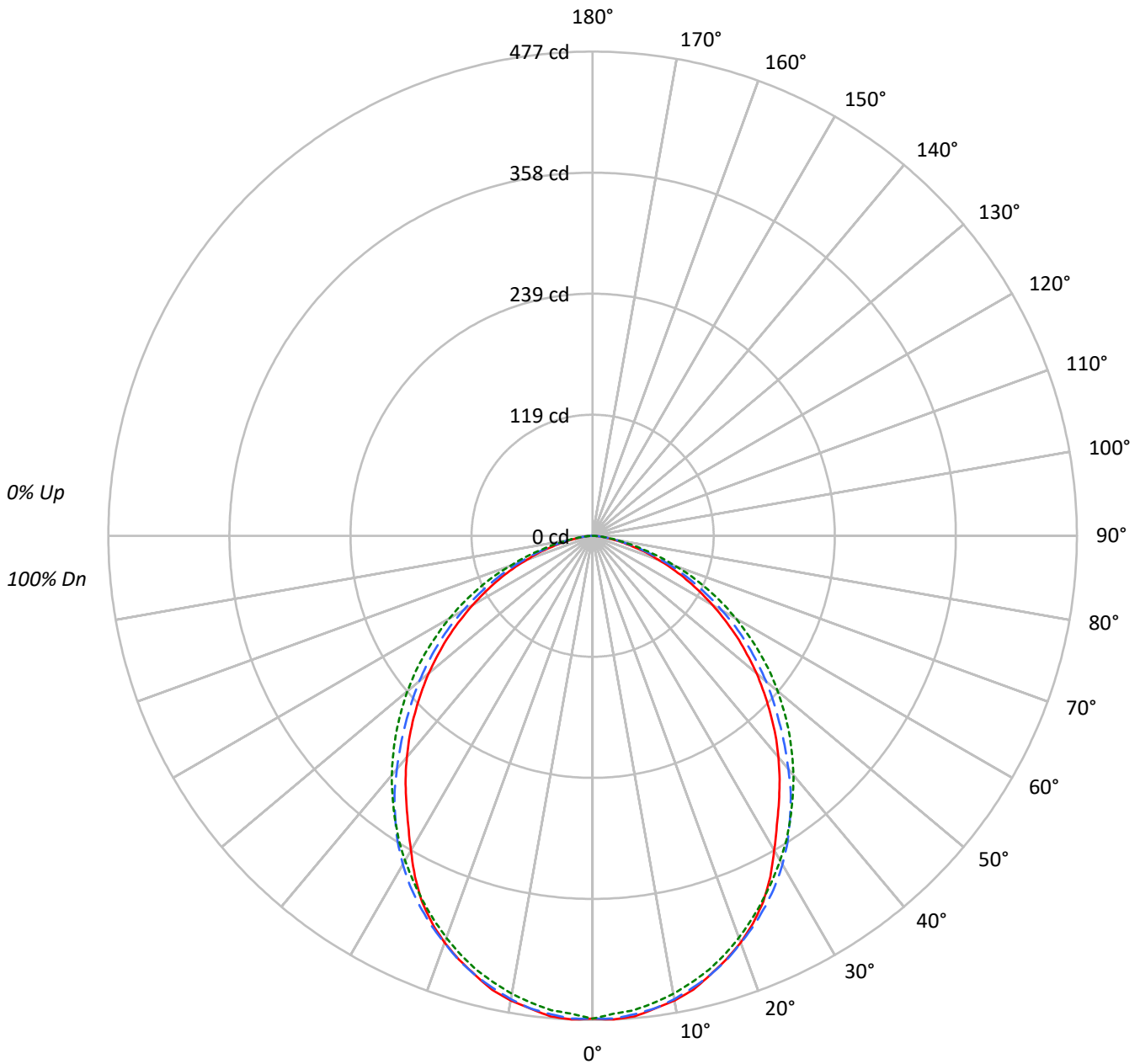
Lumens per Lamp: N/A
Luminaire Lumens: 1100.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

TEST NUMBER: P554103

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-87-EDD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2560	2560	2560
5°	2567	2556	2534
10°	2540	2533	2504
15°	2495	2495	2466
20°	2442	2445	2414
25°	2362	2391	2353
30°	2224	2324	2296
35°	2101	2227	2231
40°	1999	2107	2162
45°	1885	1980	2081
50°	1764	1865	1993
55°	1627	1736	1885
60°	1466	1583	1752
65°	1294	1408	1594
70°	1078	1199	1355
75°	848	959	1061
80°	607	673	747
85°	395	395	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	4.1
10°-20°	125.8	11.4
20°-30°	183.9	16.7
30°-40°	208.7	19.0
40°-50°	201.5	18.3
50°-60°	166.2	15.1
60°-70°	110.7	10.1
70°-80°	49.5	4.5
80°-90°	8.9	0.8
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°	354.5	32.2
0°-40°	563.2	51.2
0°-60°	930.9	84.6
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	475	475	473	471	469	45
15°	448	449	448	446	443	126
25°	398	401	403	400	396	182
35°	320	324	339	341	340	200
45°	248	252	260	272	273	191
55°	173	176	185	195	201	155
65°	102	104	111	118	125	101
75°	41	43	46	48	51	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.7	475.7	475.7	475.7	475.7
2.5°	477.0	477.2	476.1	473.2	471.3
5°	475.2	475.0	473.2	470.6	469.1
7.5°	469.9	470.2	469.7	466.0	464.0
10°	464.8	464.9	463.5	460.6	458.2
12.5°	458.2	458.0	456.0	454.5	450.7
15°	447.8	448.9	447.8	445.7	442.6
17.5°	437.7	437.7	438.4	435.0	432.6
20°	426.4	426.9	426.9	424.2	421.4
22.5°	413.2	414.9	415.4	412.5	409.2
25°	397.7	400.8	402.6	399.7	396.2
27.5°	378.9	383.6	389.1	386.9	383.1
30°	357.8	364.8	373.9	372.1	369.4
32.5°	337.9	344.9	357.5	356.7	355.3
35°	319.8	324.2	339.0	340.8	339.6
37.5°	302.6	306.7	320.6	324.8	323.7
40°	284.6	288.9	299.9	307.4	307.8
42.5°	266.6	270.8	279.8	290.6	290.6
45°	247.6	251.8	260.1	271.9	273.4
47.5°	229.0	233.4	241.4	253.3	255.7
50°	210.7	214.7	222.8	234.3	238.0
52.5°	191.7	196.1	204.0	214.6	219.9
55°	173.4	176.4	185.0	195.2	200.9
57.5°	154.4	157.2	166.9	175.6	181.5
60°	136.2	139.6	147.1	156.1	162.8
62.5°	118.6	122.3	128.7	136.5	144.2
65°	101.6	104.4	110.6	118.4	125.2
67.5°	85.2	87.5	93.8	99.2	106.4
70°	68.5	71.6	76.2	81.5	86.1
72.5°	55.2	56.5	60.3	64.1	68.9
75°	40.8	42.9	46.1	48.2	51.0
77.5°	29.2	30.5	32.3	34.2	36.7
80°	19.6	20.1	21.7	22.1	24.1
82.5°	11.9	12.2	12.6	12.8	13.5
85°	6.4	6.4	6.4	6.0	6.0
87.5°	3.7	3.7	3.1	2.6	1.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)