

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: P554321

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-82-84-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: P554321
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-50-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

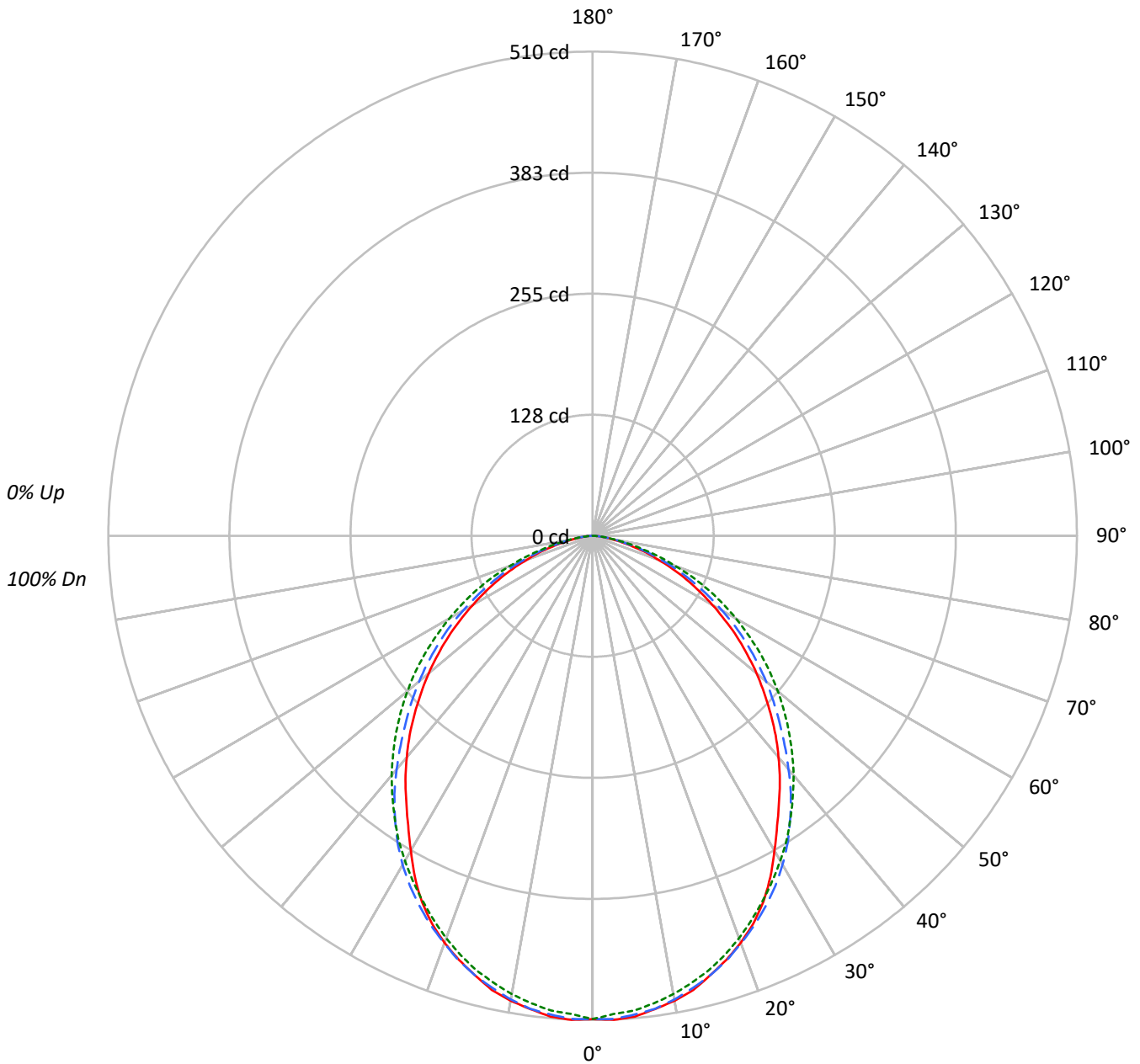
Lumens per Lamp: N/A
Luminaire Lumens: 1177.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2739	2739	2739
5°	2747	2735	2712
10°	2718	2710	2679
15°	2669	2669	2639
20°	2613	2616	2582
25°	2527	2558	2518
30°	2380	2486	2456
35°	2248	2383	2387
40°	2139	2255	2314
45°	2017	2118	2226
50°	1888	1996	2132
55°	1742	1857	2016
60°	1568	1694	1875
65°	1384	1507	1706
70°	1153	1282	1449
75°	907	1025	1135
80°	648	722	800
85°	420	420	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	4.1
10°-20°	134.6	11.4
20°-30°	196.7	16.7
30°-40°	223.3	19.0
40°-50°	215.6	18.3
50°-60°	177.8	15.1
60°-70°	118.4	10.1
70°-80°	53.0	4.5
80°-90°	9.5	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°	379.3	32.2
0°-40°	602.6	51.2
0°-60°	996.1	84.6
0°-90°	1177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	508	508	506	504	502	48
15°	479	480	479	477	474	135
25°	426	429	431	428	424	195
35°	342	347	363	365	363	214
45°	265	270	278	291	292	204
55°	186	189	198	209	215	166
65°	109	112	118	127	134	108
75°	44	46	49	52	55	48
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.0	509.0	509.0	509.0	509.0
2.5°	510.4	510.6	509.4	506.3	504.3
5°	508.4	508.2	506.3	503.5	502.0
7.5°	502.8	503.2	502.6	498.7	496.5
10°	497.3	497.5	495.9	492.8	490.2
12.5°	490.2	490.1	487.9	486.3	482.2
15°	479.1	480.3	479.1	477.0	473.6
17.5°	468.3	468.3	469.1	465.4	462.9
20°	456.2	456.8	456.8	453.9	450.9
22.5°	442.1	443.9	444.5	441.4	437.8
25°	425.5	428.8	430.8	427.7	424.0
27.5°	405.4	410.5	416.3	414.0	409.9
30°	382.9	390.3	400.1	398.1	395.2
32.5°	361.6	369.0	382.5	381.7	380.2
35°	342.2	346.9	362.7	364.7	363.3
37.5°	323.8	328.1	343.0	347.5	346.3
40°	304.5	309.2	320.9	328.9	329.3
42.5°	285.3	289.8	299.4	310.9	310.9
45°	265.0	269.5	278.3	291.0	292.5
47.5°	245.0	249.7	258.3	271.0	273.6
50°	225.5	229.8	238.4	250.7	254.6
52.5°	205.1	209.8	218.2	229.6	235.2
55°	185.6	188.7	197.9	208.8	214.9
57.5°	165.2	168.2	178.5	187.9	194.2
60°	145.7	149.4	157.4	167.0	174.2
62.5°	126.9	130.8	137.7	146.1	154.3
65°	108.7	111.7	118.3	126.7	134.0
67.5°	91.1	93.7	100.3	106.2	113.8
70°	73.3	76.7	81.5	87.2	92.1
72.5°	59.1	60.4	64.5	68.6	73.7
75°	43.6	46.0	49.3	51.6	54.6
77.5°	31.3	32.7	34.6	36.6	39.3
80°	20.9	21.5	23.3	23.7	25.8
82.5°	12.7	13.1	13.5	13.7	14.5
85°	6.8	6.8	6.8	6.5	6.5
87.5°	3.9	3.9	3.3	2.7	2.0
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)