

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: P554394

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-94-EDD-90**

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: P554394
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-LD4-1STD-30-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

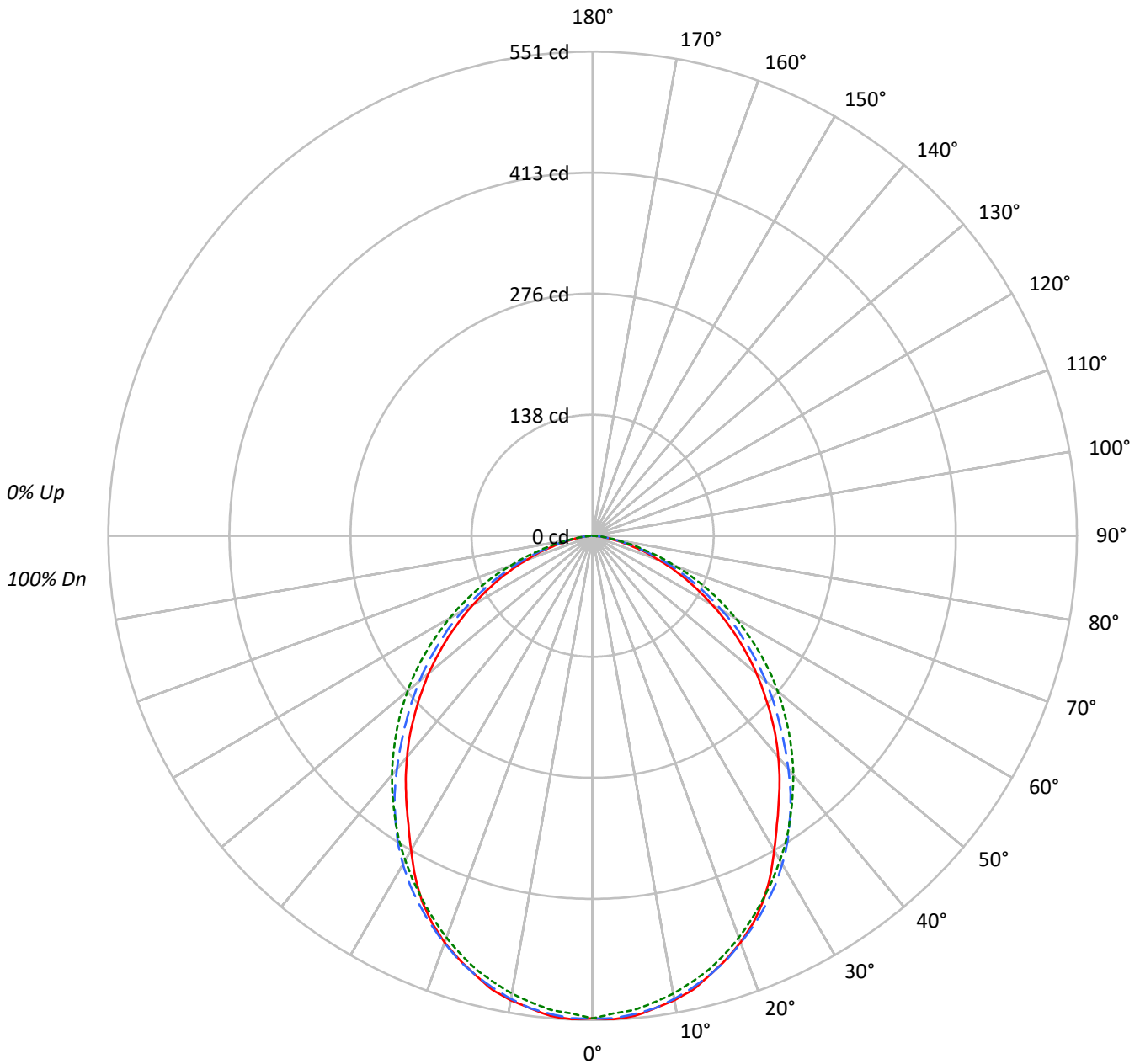
Lumens per Lamp: N/A
Luminaire Lumens: 1270.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P554394

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554394

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-94-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2956	2956	2956
5°	2964	2951	2926
10°	2933	2924	2891
15°	2881	2881	2848
20°	2820	2823	2787
25°	2726	2760	2717
30°	2567	2683	2650
35°	2426	2572	2576
40°	2308	2433	2496
45°	2176	2286	2403
50°	2037	2153	2300
55°	1879	2003	2176
60°	1692	1829	2024
65°	1494	1626	1840
70°	1245	1385	1564
75°	979	1106	1225
80°	700	778	865
85°	457	457	432



TEST NUMBER: P554394

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	4.1
10°-20°	145.3	11.4
20°-30°	212.3	16.7
30°-40°	241.0	19.0
40°-50°	232.6	18.3
50°-60°	191.9	15.1
60°-70°	127.8	10.1
70°-80°	57.2	4.5
80°-90°	10.2	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°	409.3	32.2
0°-40°	650.3	51.2
0°-60°	1074.8	84.6
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	549	548	546	543	542	52
15°	517	518	517	515	511	146
25°	459	463	465	462	458	210
35°	369	374	391	394	392	231
45°	286	291	300	314	316	221
55°	200	204	214	225	232	179
65°	117	120	128	137	144	116
75°	47	50	53	56	59	51
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



TEST NUMBER: P554394

CATALOG NUMBER: FUSL-12-2-LD4-1STD-30-UNV-82-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	549.2	549.2	549.2	549.2	549.2
2.5°	550.7	550.9	549.7	546.3	544.2
5°	548.6	548.4	546.3	543.3	541.6
7.5°	542.5	542.9	542.3	538.1	535.7
10°	536.6	536.8	535.1	531.7	529.0
12.5°	529.0	528.8	526.5	524.8	520.3
15°	517.0	518.2	517.0	514.6	511.1
17.5°	505.4	505.4	506.2	502.2	499.4
20°	492.3	492.9	492.9	489.7	486.6
22.5°	477.1	479.0	479.6	476.2	472.4
25°	459.1	462.7	464.8	461.5	457.5
27.5°	437.4	442.9	449.2	446.7	442.3
30°	413.1	421.2	431.7	429.6	426.4
32.5°	390.1	398.2	412.7	411.9	410.2
35°	369.3	374.3	391.4	393.5	392.0
37.5°	349.4	354.1	370.1	375.0	373.7
40°	328.5	333.6	346.3	354.9	355.3
42.5°	307.9	312.7	323.0	335.5	335.5
45°	285.9	290.8	300.3	314.0	315.7
47.5°	264.4	269.5	278.7	292.5	295.2
50°	243.3	247.9	257.2	270.5	274.7
52.5°	221.3	226.4	235.5	247.7	253.8
55°	200.2	203.6	213.5	225.4	231.9
57.5°	178.3	181.5	192.6	202.8	209.5
60°	157.2	161.2	169.9	180.2	188.0
62.5°	136.9	141.2	148.5	157.6	166.5
65°	117.3	120.5	127.7	136.7	144.5
67.5°	98.3	101.1	108.2	114.6	122.8
70°	79.1	82.7	88.0	94.1	99.4
72.5°	63.7	65.2	69.6	74.1	79.5
75°	47.1	49.6	53.2	55.7	58.9
77.5°	33.8	35.2	37.3	39.5	42.4
80°	22.6	23.2	25.1	25.5	27.9
82.5°	13.7	14.1	14.6	14.8	15.6
85°	7.4	7.4	7.4	7.0	7.0
87.5°	4.2	4.2	3.6	3.0	2.1
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)