

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: P554349

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-96-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: P554349
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

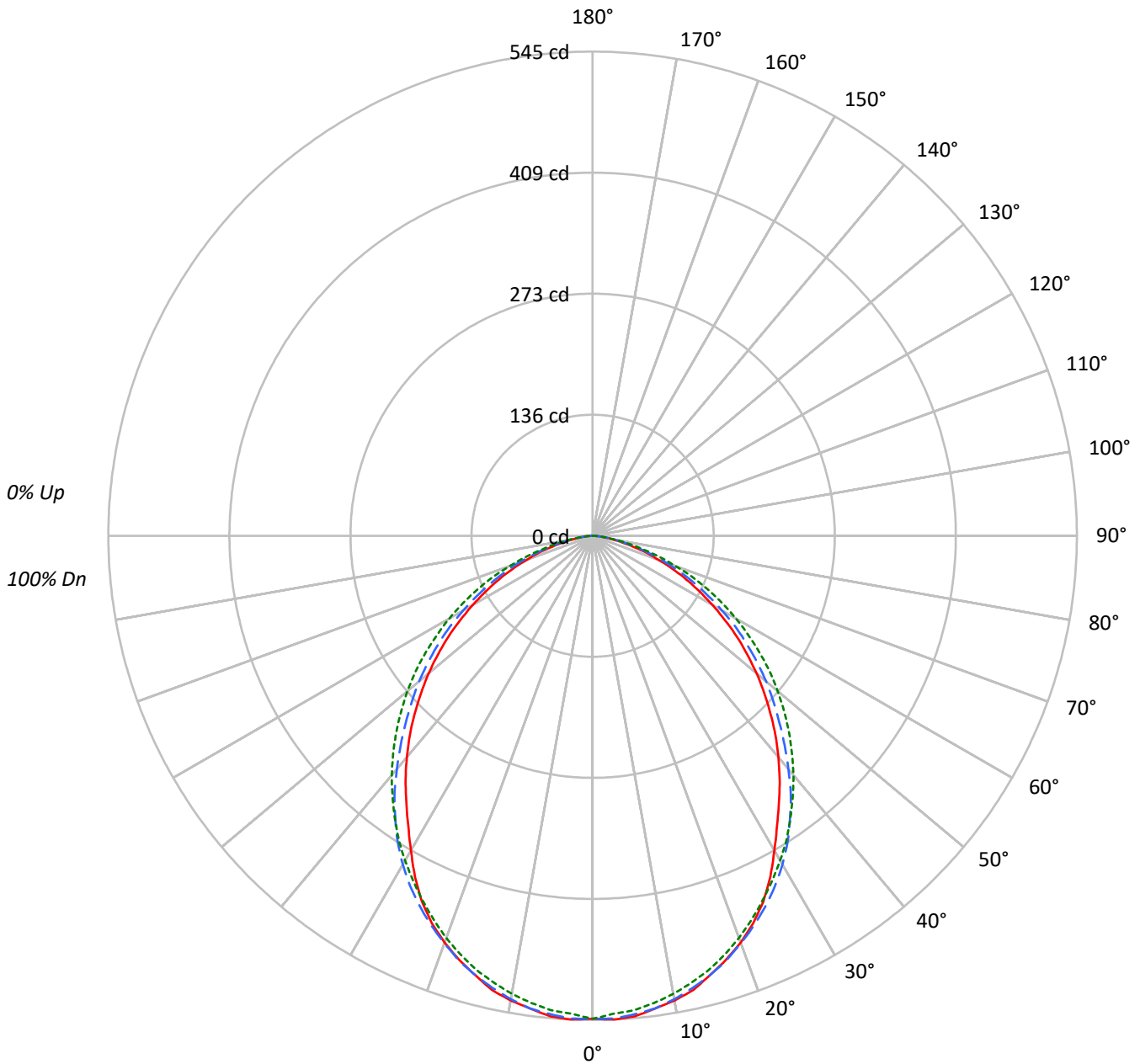
Lumens per Lamp: N/A
Luminaire Lumens: 1257.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554349

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554349

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-96-EDD

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°	2926	2926	2926
5°	2934	2921	2896
10°	2902	2894	2861
15°	2851	2851	2818
20°	2790	2794	2758
25°	2698	2732	2689
30°	2541	2655	2623
35°	2401	2545	2549
40°	2285	2408	2471
45°	2154	2262	2378
50°	2016	2132	2277
55°	1860	1983	2153
60°	1675	1809	2003
65°	1479	1610	1822
70°	1232	1371	1548
75°	969	1094	1212
80°	691	772	855
85°	451	451	426



TEST NUMBER: P554349

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	4.1
10°-20°	143.8	11.4
20°-30°	210.1	16.7
30°-40°	238.5	19.0
40°-50°	230.3	18.3
50°-60°	189.9	15.1
60°-70°	126.5	10.1
70°-80°	56.6	4.5
80°-90°	10.1	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°	405.1	32.2
0°-40°	643.6	51.2
0°-60°	1063.8	84.6
0°-90°	1257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	543	543	541	538	536	51
15°	512	513	512	509	506	144
25°	454	458	460	457	453	208
35°	366	370	387	390	388	229
45°	283	288	297	311	312	218
55°	198	202	211	223	230	177
65°	116	119	126	135	143	115
75°	47	49	53	55	58	51
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



TEST NUMBER: P554349

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.6	543.6	543.6	543.6	543.6
2.5°	545.1	545.3	544.0	540.7	538.6
5°	543.0	542.8	540.7	537.8	536.1
7.5°	536.9	537.4	536.7	532.6	530.3
10°	531.1	531.3	529.6	526.3	523.6
12.5°	523.6	523.4	521.1	519.4	515.0
15°	511.7	512.9	511.7	509.4	505.8
17.5°	500.2	500.2	501.0	497.0	494.3
20°	487.2	487.9	487.9	484.7	481.6
22.5°	472.2	474.1	474.7	471.4	467.6
25°	454.4	458.0	460.1	456.7	452.8
27.5°	432.9	438.4	444.6	442.1	437.7
30°	408.9	416.9	427.3	425.2	422.1
32.5°	386.2	394.1	408.5	407.7	406.0
35°	365.5	370.5	387.4	389.5	388.0
37.5°	345.8	350.4	366.3	371.1	369.9
40°	325.2	330.2	342.7	351.3	351.7
42.5°	304.7	309.5	319.7	332.1	332.1
45°	283.0	287.8	297.2	310.8	312.4
47.5°	261.7	266.7	275.9	289.5	292.2
50°	240.8	245.4	254.6	267.7	271.9
52.5°	219.1	224.1	233.1	245.2	251.2
55°	198.2	201.5	211.3	223.0	229.5
57.5°	176.5	179.6	190.7	200.7	207.4
60°	155.6	159.6	168.1	178.4	186.1
62.5°	135.5	139.7	147.0	156.0	164.8
65°	116.1	119.2	126.4	135.3	143.1
67.5°	97.3	100.0	107.1	113.4	121.5
70°	78.3	81.9	87.1	93.1	98.4
72.5°	63.1	64.5	68.9	73.3	78.7
75°	46.6	49.1	52.6	55.1	58.3
77.5°	33.4	34.9	37.0	39.1	42.0
80°	22.3	23.0	24.9	25.3	27.6
82.5°	13.6	14.0	14.4	14.6	15.5
85°	7.3	7.3	7.3	6.9	6.9
87.5°	4.2	4.2	3.6	2.9	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)