

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: P554318

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-97-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: P554318
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-81-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

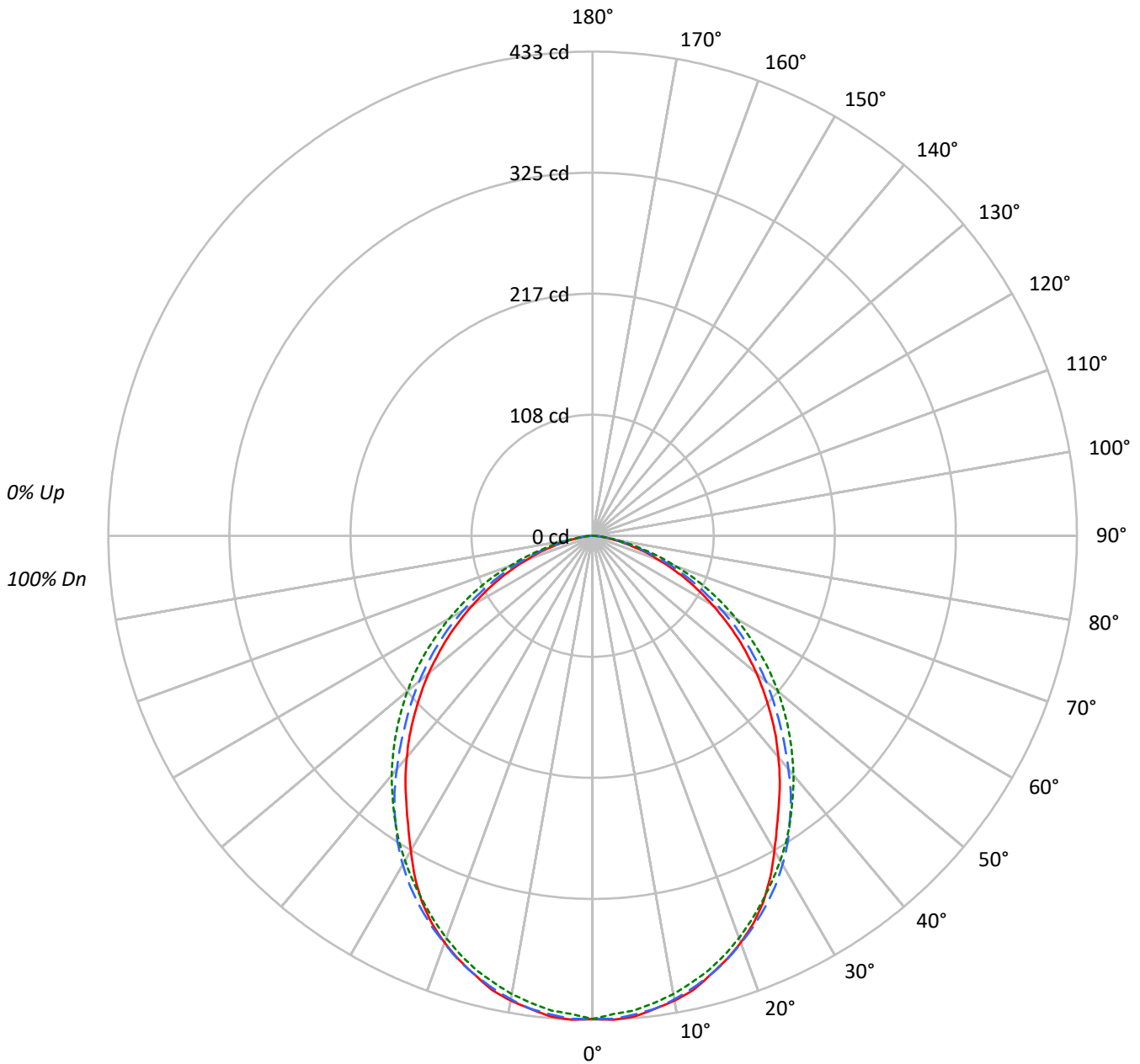
Lumens per Lamp: N/A
Luminaire Lumens: 999.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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: P554318

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-81-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554318

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-81-97-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°	2325	2325	2325
5°	2331	2321	2302
10°	2307	2300	2274
15°	2265	2265	2240
20°	2218	2220	2192
25°	2145	2172	2137
30°	2020	2110	2084
35°	1909	2023	2026
40°	1815	1914	1964
45°	1712	1798	1890
50°	1603	1694	1809
55°	1478	1576	1711
60°	1331	1438	1592
65°	1175	1279	1448
70°	979	1089	1231
75°	769	869	963
80°	552	614	679
85°	358	358	340



TEST NUMBER: P554318

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-81-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	4.1
10°-20°	114.3	11.4
20°-30°	167.0	16.7
30°-40°	189.6	19.0
40°-50°	183.0	18.3
50°-60°	151.0	15.1
60°-70°	100.5	10.1
70°-80°	45.0	4.5
80°-90°	8.1	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°	321.9	32.2
0°-40°	511.5	51.2
0°-60°	845.4	84.6
0°-90°	999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	432	431	430	427	426	41
15°	407	408	407	405	402	115
25°	361	364	366	363	360	165
35°	290	294	308	310	308	182
45°	225	229	236	247	248	174
55°	158	160	168	177	182	141
65°	92	95	100	108	114	91
75°	37	39	42	44	46	40
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P554318

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-81-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	432.0	432.0	432.0	432.0	432.0
2.5°	433.2	433.4	432.4	429.7	428.1
5°	431.5	431.4	429.7	427.4	426.1
7.5°	426.7	427.1	426.6	423.2	421.4
10°	422.1	422.2	420.9	418.3	416.1
12.5°	416.1	415.9	414.1	412.8	409.3
15°	406.6	407.6	406.6	404.8	402.0
17.5°	397.5	397.5	398.2	395.0	392.9
20°	387.2	387.7	387.7	385.2	382.7
22.5°	375.3	376.8	377.3	374.6	371.6
25°	361.2	364.0	365.7	363.0	359.8
27.5°	344.1	348.4	353.4	351.4	347.9
30°	325.0	331.3	339.6	337.9	335.4
32.5°	306.9	313.2	324.7	324.0	322.7
35°	290.5	294.4	307.9	309.5	308.4
37.5°	274.9	278.5	291.1	294.9	293.9
40°	258.4	262.4	272.4	279.2	279.5
42.5°	242.2	246.0	254.1	263.9	263.9
45°	224.9	228.7	236.2	247.0	248.3
47.5°	208.0	212.0	219.3	230.0	232.2
50°	191.4	195.0	202.3	212.8	216.1
52.5°	174.1	178.1	185.2	194.9	199.7
55°	157.5	160.2	168.0	177.3	182.4
57.5°	140.3	142.7	151.5	159.5	164.8
60°	123.7	126.8	133.6	141.7	147.9
62.5°	107.7	111.0	116.8	124.0	131.0
65°	92.3	94.8	100.4	107.6	113.7
67.5°	77.3	79.5	85.1	90.1	96.6
70°	62.2	65.1	69.2	74.0	78.2
72.5°	50.1	51.3	54.8	58.3	62.6
75°	37.0	39.0	41.8	43.8	46.3
77.5°	26.6	27.7	29.4	31.0	33.4
80°	17.8	18.3	19.8	20.1	21.9
82.5°	10.8	11.1	11.5	11.6	12.3
85°	5.8	5.8	5.8	5.5	5.5
87.5°	3.3	3.3	2.8	2.3	1.7
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)