

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: P555068

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-96-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: P555068
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-LD4-2LO-50-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

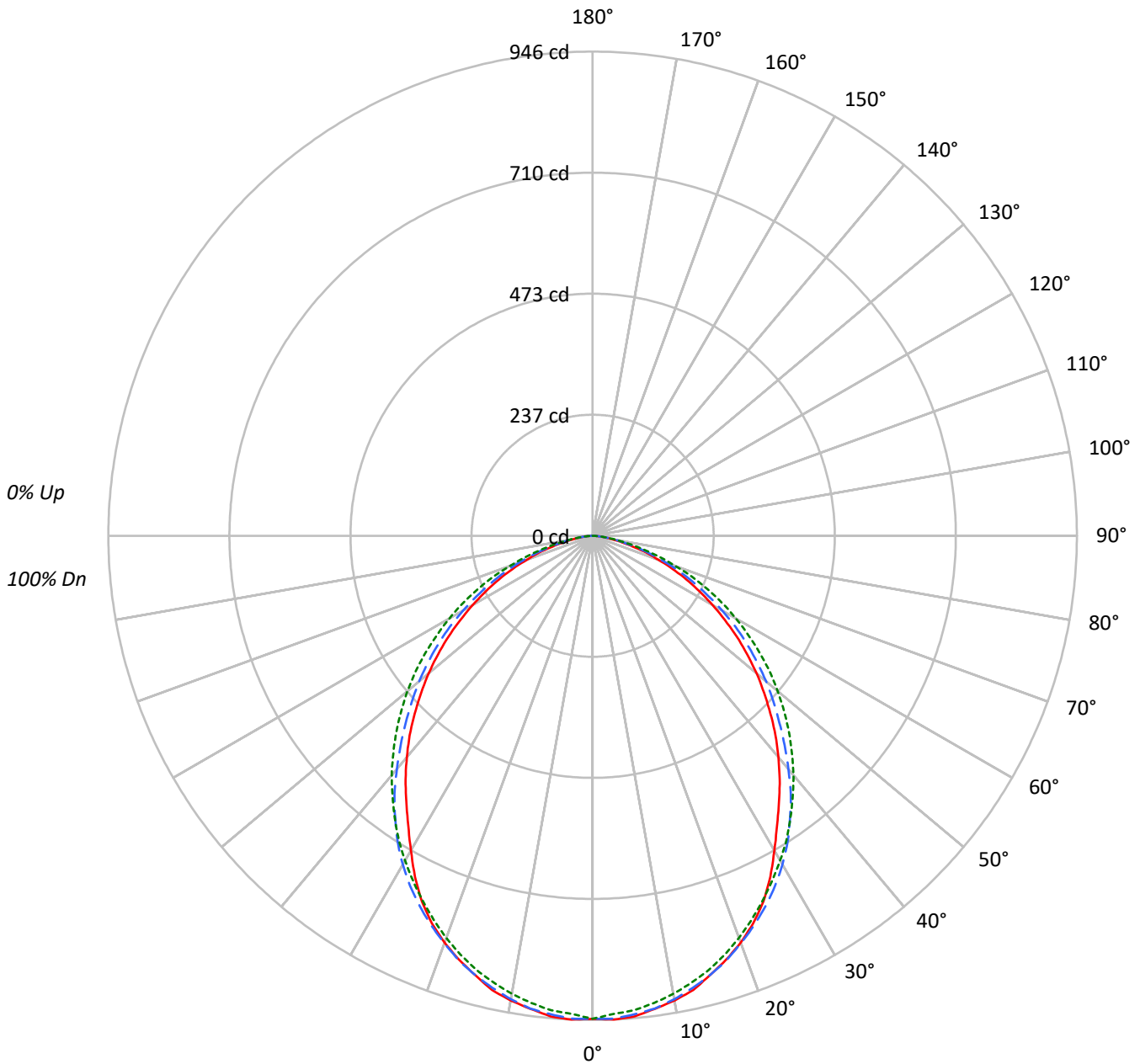
Lumens per Lamp: N/A
Luminaire Lumens: 2182.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P555068

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555068

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-96-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°	5079	5079	5079
5°	5092	5071	5028
10°	5038	5025	4967
15°	4949	4949	4892
20°	4844	4851	4788
25°	4685	4742	4668
30°	4411	4609	4553
35°	4168	4418	4426
40°	3966	4180	4289
45°	3739	3927	4128
50°	3500	3700	3952
55°	3228	3443	3738
60°	2907	3141	3477
65°	2567	2793	3162
70°	2138	2379	2688
75°	1680	1901	2102
80°	1203	1336	1485
85°	784	784	741



TEST NUMBER: P555068

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	4.1
10°-20°	249.6	11.4
20°-30°	364.7	16.7
30°-40°	414.0	19.0
40°-50°	399.7	18.3
50°-60°	329.7	15.1
60°-70°	219.6	10.1
70°-80°	98.2	4.5
80°-90°	17.6	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°	703.2	32.2
0°-40°	1117.2	51.2
0°-60°	1846.6	84.6
0°-90°	2182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	943	942	939	934	931	89
15°	888	890	888	884	878	250
25°	789	795	799	793	786	361
35°	634	643	672	676	674	397
45°	491	500	516	539	542	379
55°	344	350	367	387	398	307
65°	202	207	219	235	248	200
75°	81	85	91	96	101	88
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



TEST NUMBER: P555068

CATALOG NUMBER: FUSL-12-2-LD4-2LO-50-UNV-80-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.7	943.7	943.7	943.7	943.7
2.5°	946.2	946.6	944.4	938.6	935.0
5°	942.6	942.2	938.6	933.5	930.6
7.5°	932.1	932.8	931.7	924.4	920.5
10°	921.9	922.3	919.4	913.6	908.9
12.5°	908.9	908.5	904.5	901.6	894.0
15°	888.2	890.4	888.2	884.2	878.0
17.5°	868.3	868.3	869.7	862.8	858.1
20°	845.8	846.9	846.9	841.4	836.0
22.5°	819.7	822.9	824.0	818.2	811.7
25°	788.9	795.0	798.6	792.8	786.0
27.5°	751.5	760.9	771.8	767.5	759.9
30°	709.8	723.6	741.7	738.1	732.7
32.5°	670.3	684.1	709.1	707.7	704.8
35°	634.4	643.1	672.5	676.1	673.6
37.5°	600.3	608.3	635.9	644.2	642.0
40°	564.5	573.2	594.9	609.8	610.5
42.5°	528.9	537.3	555.0	576.4	576.4
45°	491.2	499.6	515.9	539.4	542.3
47.5°	454.2	462.9	478.9	502.5	507.2
50°	418.0	426.0	441.9	464.8	472.0
52.5°	380.3	389.0	404.6	425.6	436.1
55°	344.0	349.8	366.9	387.2	398.4
57.5°	306.3	311.8	331.0	348.4	360.0
60°	270.1	277.0	291.8	309.6	323.0
62.5°	235.3	242.5	255.2	270.8	286.0
65°	201.6	207.0	219.3	234.9	248.3
67.5°	168.9	173.7	186.0	196.9	211.0
70°	135.9	142.1	151.2	161.7	170.8
72.5°	109.5	112.0	119.6	127.2	136.7
75°	80.8	85.2	91.4	95.7	101.1
77.5°	58.0	60.5	64.2	67.8	72.9
80°	38.8	39.9	43.1	43.9	47.9
82.5°	23.6	24.3	25.0	25.4	26.8
85°	12.7	12.7	12.7	12.0	12.0
87.5°	7.3	7.3	6.2	5.1	3.6
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)