

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: P554290

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-85-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: P554290
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-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

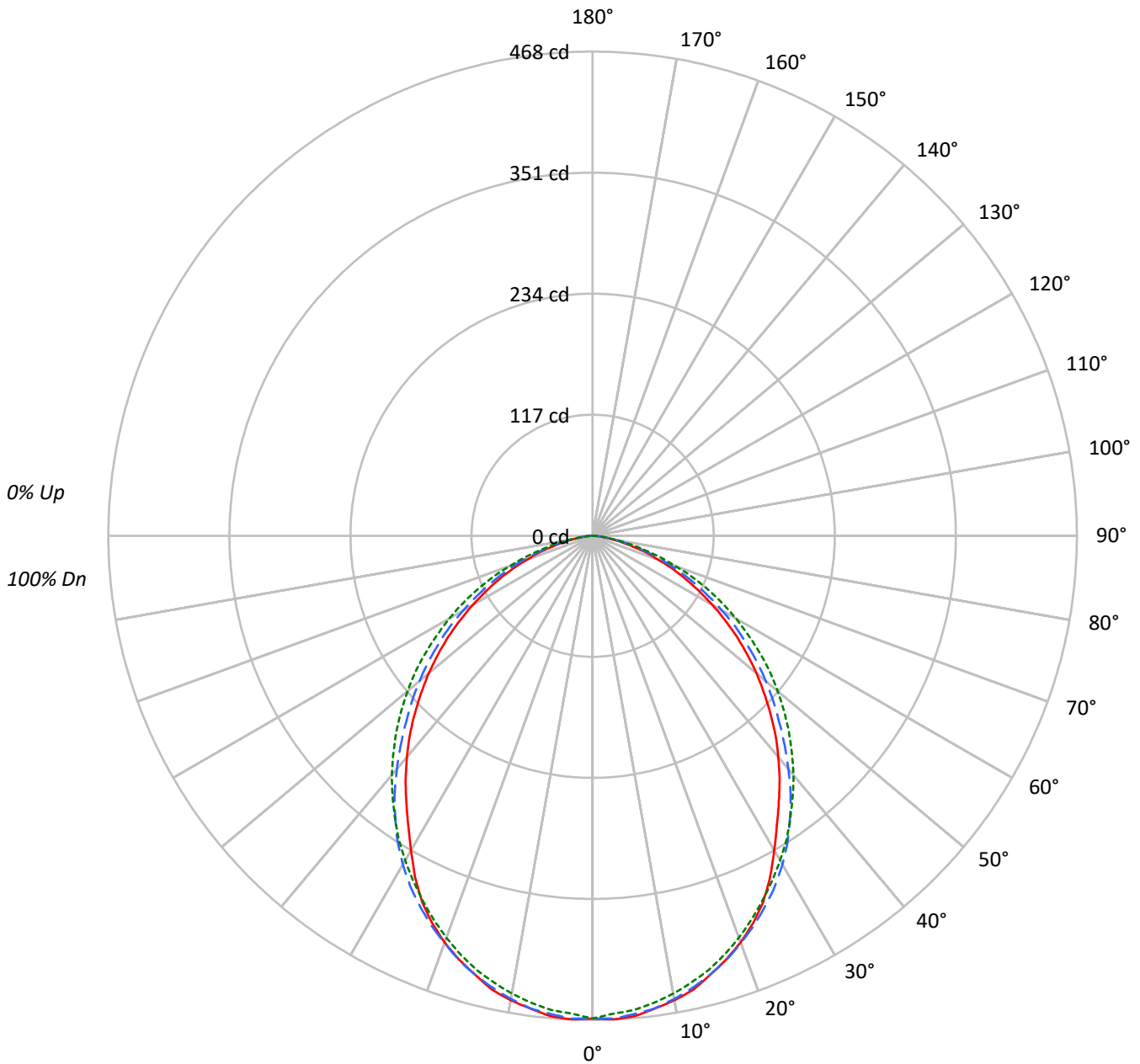
Lumens per Lamp: N/A
Luminaire Lumens: 1079.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554290

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-80-85-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554290

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-80-85-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°	2511	2511	2511
5°	2518	2507	2486
10°	2491	2484	2456
15°	2447	2447	2419
20°	2395	2399	2368
25°	2317	2345	2308
30°	2181	2279	2252
35°	2061	2185	2189
40°	1961	2067	2121
45°	1849	1942	2041
50°	1731	1829	1954
55°	1596	1702	1848
60°	1438	1553	1719
65°	1270	1382	1564
70°	1057	1177	1328
75°	832	940	1040
80°	595	660	735
85°	389	389	364



TEST NUMBER: P554290

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-80-85-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	4.1
10°-20°	123.4	11.4
20°-30°	180.4	16.7
30°-40°	204.7	19.0
40°-50°	197.6	18.3
50°-60°	163.1	15.1
60°-70°	108.6	10.1
70°-80°	48.6	4.5
80°-90°	8.7	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°	347.7	32.2
0°-40°	552.5	51.2
0°-60°	913.2	84.6
0°-90°	1079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	466	466	464	462	460	44
15°	439	440	439	437	434	124
25°	390	393	395	392	389	179
35°	314	318	332	334	333	197
45°	243	247	255	267	268	187
55°	170	173	181	192	197	152
65°	100	102	108	116	123	99
75°	40	42	45	47	50	44
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P554290

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-80-85-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	466.6	466.6	466.6	466.6	466.6
2.5°	467.9	468.1	467.0	464.1	462.3
5°	466.1	465.9	464.1	461.6	460.2
7.5°	460.9	461.3	460.7	457.1	455.2
10°	455.9	456.1	454.6	451.8	449.4
12.5°	449.4	449.3	447.3	445.8	442.1
15°	439.2	440.3	439.2	437.2	434.2
17.5°	429.4	429.4	430.1	426.7	424.3
20°	418.2	418.8	418.8	416.1	413.4
22.5°	405.3	406.9	407.5	404.6	401.4
25°	390.1	393.1	394.9	392.1	388.7
27.5°	371.6	376.3	381.7	379.5	375.7
30°	351.0	357.8	366.8	365.0	362.3
32.5°	331.5	338.3	350.7	349.9	348.5
35°	313.7	318.0	332.5	334.3	333.1
37.5°	296.9	300.8	314.4	318.6	317.5
40°	279.1	283.4	294.2	301.5	301.9
42.5°	261.6	265.7	274.5	285.0	285.0
45°	242.9	247.0	255.1	266.8	268.2
47.5°	224.6	228.9	236.8	248.5	250.8
50°	206.7	210.6	218.5	229.8	233.4
52.5°	188.1	192.4	200.1	210.5	215.7
55°	170.1	173.0	181.4	191.5	197.0
57.5°	151.5	154.2	163.7	172.3	178.0
60°	133.6	137.0	144.3	153.1	159.7
62.5°	116.3	119.9	126.2	133.9	141.4
65°	99.7	102.4	108.5	116.2	122.8
67.5°	83.5	85.9	92.0	97.3	104.3
70°	67.2	70.3	74.8	80.0	84.4
72.5°	54.1	55.4	59.2	62.9	67.6
75°	40.0	42.1	45.2	47.3	50.0
77.5°	28.7	29.9	31.7	33.5	36.0
80°	19.2	19.7	21.3	21.7	23.7
82.5°	11.7	12.0	12.4	12.5	13.3
85°	6.3	6.3	6.3	5.9	5.9
87.5°	3.6	3.6	3.0	2.5	1.8
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)