

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: P554288

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-84-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: P554288
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

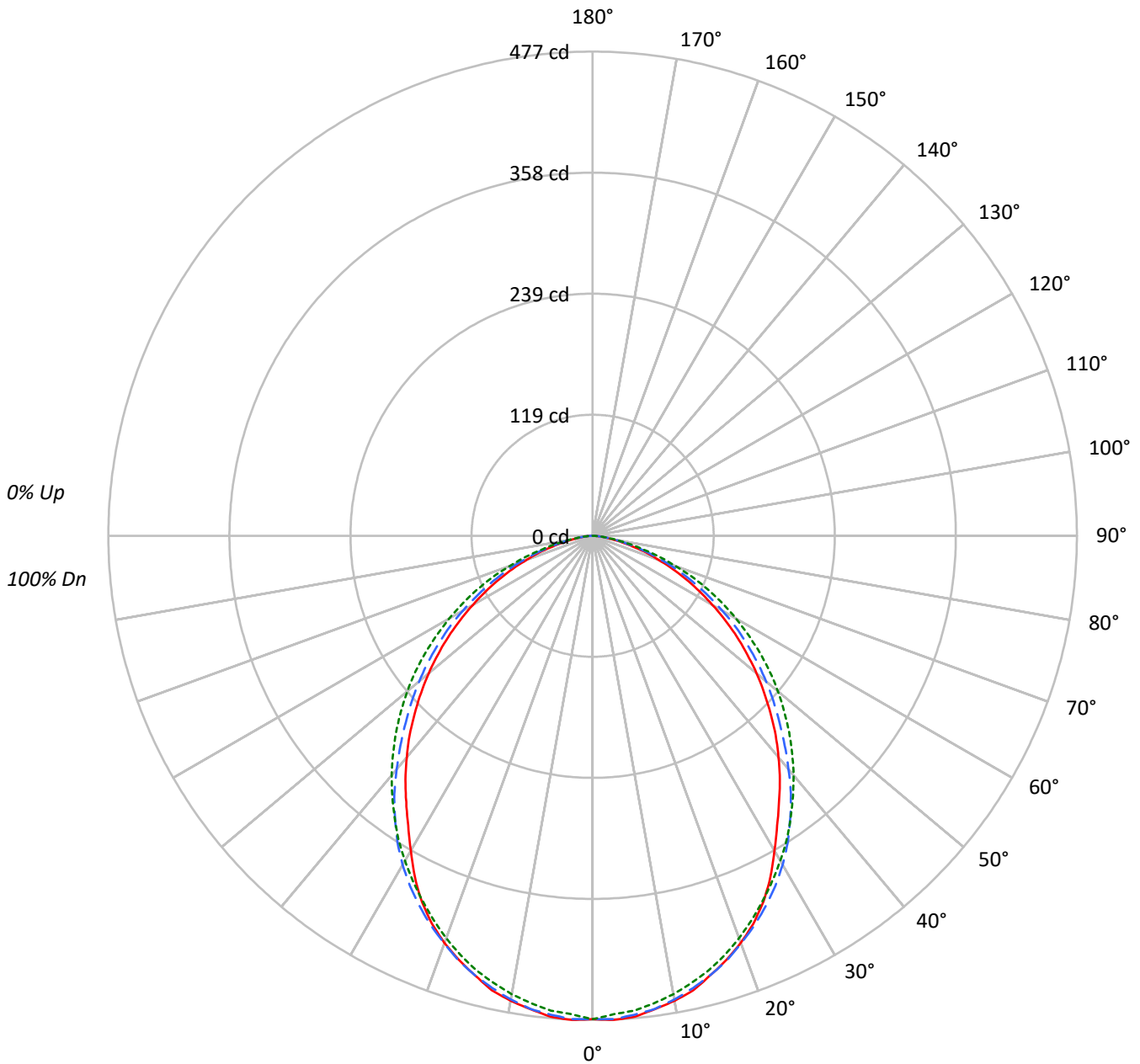
Lumens per Lamp: N/A
Luminaire Lumens: 1101.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	2563	2563	2563
5°	2569	2559	2537
10°	2542	2535	2506
15°	2497	2497	2468
20°	2444	2447	2416
25°	2363	2393	2355
30°	2226	2326	2298
35°	2103	2229	2233
40°	2001	2109	2164
45°	1887	1981	2083
50°	1766	1867	1994
55°	1629	1737	1886
60°	1467	1586	1755
65°	1295	1410	1596
70°	1079	1201	1356
75°	848	959	1061
80°	607	676	747
85°	395	395	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	4.1
10°-20°	125.9	11.4
20°-30°	184.1	16.7
30°-40°	208.9	19.0
40°-50°	201.7	18.3
50°-60°	166.4	15.1
60°-70°	110.8	10.1
70°-80°	49.6	4.5
80°-90°	8.9	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°	354.8	32.2
0°-40°	563.7	51.2
0°-60°	931.8	84.6
0°-90°	1101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	475	474	471	470	45
15°	448	449	448	446	443	126
25°	398	401	403	400	397	182
35°	320	324	339	341	340	201
45°	248	252	260	272	274	191
55°	174	176	185	195	201	155
65°	102	104	111	118	125	101
75°	41	43	46	48	51	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.2	476.2	476.2	476.2	476.2
2.5°	477.4	477.6	476.5	473.6	471.8
5°	475.6	475.4	473.6	471.0	469.6
7.5°	470.3	470.7	470.1	466.5	464.4
10°	465.2	465.4	463.9	461.0	458.6
12.5°	458.6	458.4	456.4	454.9	451.1
15°	448.2	449.3	448.2	446.2	443.0
17.5°	438.1	438.1	438.8	435.4	433.0
20°	426.8	427.3	427.3	424.6	421.8
22.5°	413.6	415.2	415.8	412.9	409.6
25°	398.0	401.2	403.0	400.1	396.6
27.5°	379.2	384.0	389.4	387.3	383.4
30°	358.2	365.1	374.3	372.4	369.7
32.5°	338.2	345.2	357.8	357.1	355.6
35°	320.1	324.5	339.3	341.2	339.9
37.5°	302.9	306.9	320.9	325.1	324.0
40°	284.8	289.2	300.2	307.7	308.0
42.5°	266.9	271.1	280.1	290.9	290.9
45°	247.9	252.1	260.3	272.2	273.7
47.5°	229.2	233.6	241.6	253.5	255.9
50°	210.9	214.9	223.0	234.5	238.2
52.5°	191.9	196.3	204.1	214.8	220.1
55°	173.6	176.5	185.1	195.4	201.0
57.5°	154.6	157.3	167.0	175.8	181.6
60°	136.3	139.8	147.3	156.2	163.0
62.5°	118.7	122.4	128.8	136.6	144.3
65°	101.7	104.5	110.7	118.5	125.3
67.5°	85.2	87.6	93.8	99.3	106.5
70°	68.6	71.7	76.3	81.6	86.2
72.5°	55.2	56.5	60.4	64.2	69.0
75°	40.8	43.0	46.1	48.3	51.0
77.5°	29.3	30.5	32.4	34.2	36.8
80°	19.6	20.1	21.8	22.1	24.1
82.5°	11.9	12.3	12.6	12.8	13.5
85°	6.4	6.4	6.4	6.0	6.0
87.5°	3.7	3.7	3.1	2.6	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)