

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: P554231

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-80-87-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: P554231
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-40-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

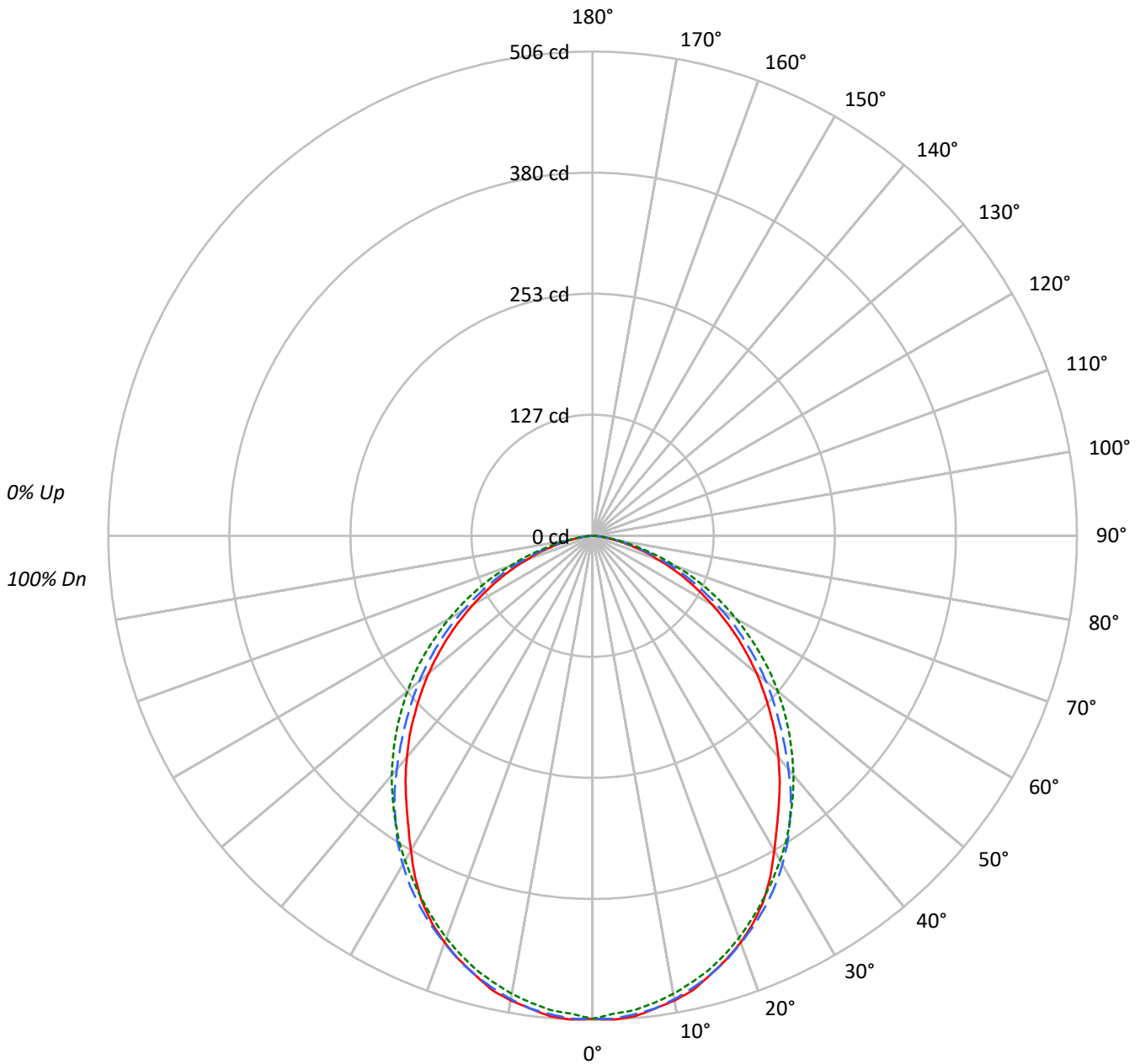
Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554231

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-87-EDD

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°	2716	2716	2716
5°	2723	2712	2689
10°	2695	2687	2657
15°	2647	2647	2617
20°	2590	2594	2561
25°	2505	2536	2496
30°	2359	2465	2435
35°	2229	2363	2367
40°	2121	2236	2294
45°	1999	2100	2208
50°	1872	1979	2113
55°	1727	1841	2000
60°	1554	1680	1860
65°	1373	1494	1691
70°	1144	1273	1437
75°	898	1017	1125
80°	642	716	793
85°	420	420	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	4.1
10°-20°	133.5	11.4
20°-30°	195.1	16.7
30°-40°	221.4	19.0
40°-50°	213.8	18.3
50°-60°	176.3	15.1
60°-70°	117.4	10.1
70°-80°	52.6	4.5
80°-90°	9.4	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°	376.1	32.2
0°-40°	597.5	51.2
0°-60°	987.6	84.6
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	504	504	502	499	498	48
15°	475	476	475	473	470	134
25°	422	425	427	424	420	193
35°	339	344	360	362	360	213
45°	263	267	276	288	290	203
55°	184	187	196	207	213	164
65°	108	111	117	126	133	107
75°	43	46	49	51	54	47
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	504.7	504.7	504.7	504.7	504.7
2.5°	506.1	506.2	505.1	502.0	500.0
5°	504.1	503.9	502.0	499.3	497.7
7.5°	498.5	498.9	498.3	494.4	492.3
10°	493.1	493.3	491.7	488.6	486.1
12.5°	486.1	485.9	483.8	482.2	478.1
15°	475.0	476.2	475.0	472.9	469.6
17.5°	464.4	464.4	465.1	461.5	458.9
20°	452.3	452.9	452.9	450.0	447.1
22.5°	438.4	440.1	440.7	437.6	434.1
25°	421.9	425.2	427.1	424.0	420.4
27.5°	401.9	407.0	412.8	410.5	406.4
30°	379.6	387.0	396.7	394.8	391.9
32.5°	358.5	365.9	379.3	378.5	376.9
35°	339.3	344.0	359.7	361.6	360.2
37.5°	321.1	325.3	340.1	344.5	343.4
40°	301.9	306.5	318.2	326.1	326.5
42.5°	282.9	287.3	296.8	308.3	308.3
45°	262.7	267.2	275.9	288.5	290.1
47.5°	242.9	247.6	256.1	268.7	271.3
50°	223.6	227.8	236.4	248.6	252.4
52.5°	203.4	208.0	216.4	227.6	233.3
55°	184.0	187.1	196.2	207.1	213.1
57.5°	163.8	166.7	177.0	186.3	192.5
60°	144.4	148.1	156.1	165.6	172.8
62.5°	125.8	129.7	136.5	144.8	153.0
65°	107.8	110.7	117.3	125.6	132.8
67.5°	90.4	92.9	99.5	105.3	112.8
70°	72.7	76.0	80.9	86.5	91.3
72.5°	58.6	59.9	64.0	68.1	73.1
75°	43.2	45.6	48.9	51.2	54.1
77.5°	31.0	32.4	34.3	36.3	39.0
80°	20.7	21.3	23.1	23.5	25.6
82.5°	12.6	13.0	13.4	13.6	14.3
85°	6.8	6.8	6.8	6.4	6.4
87.5°	3.9	3.9	3.3	2.7	1.9
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)