

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: P554548

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-80-86-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: P554548
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-LD4-1STD-50-UNV-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

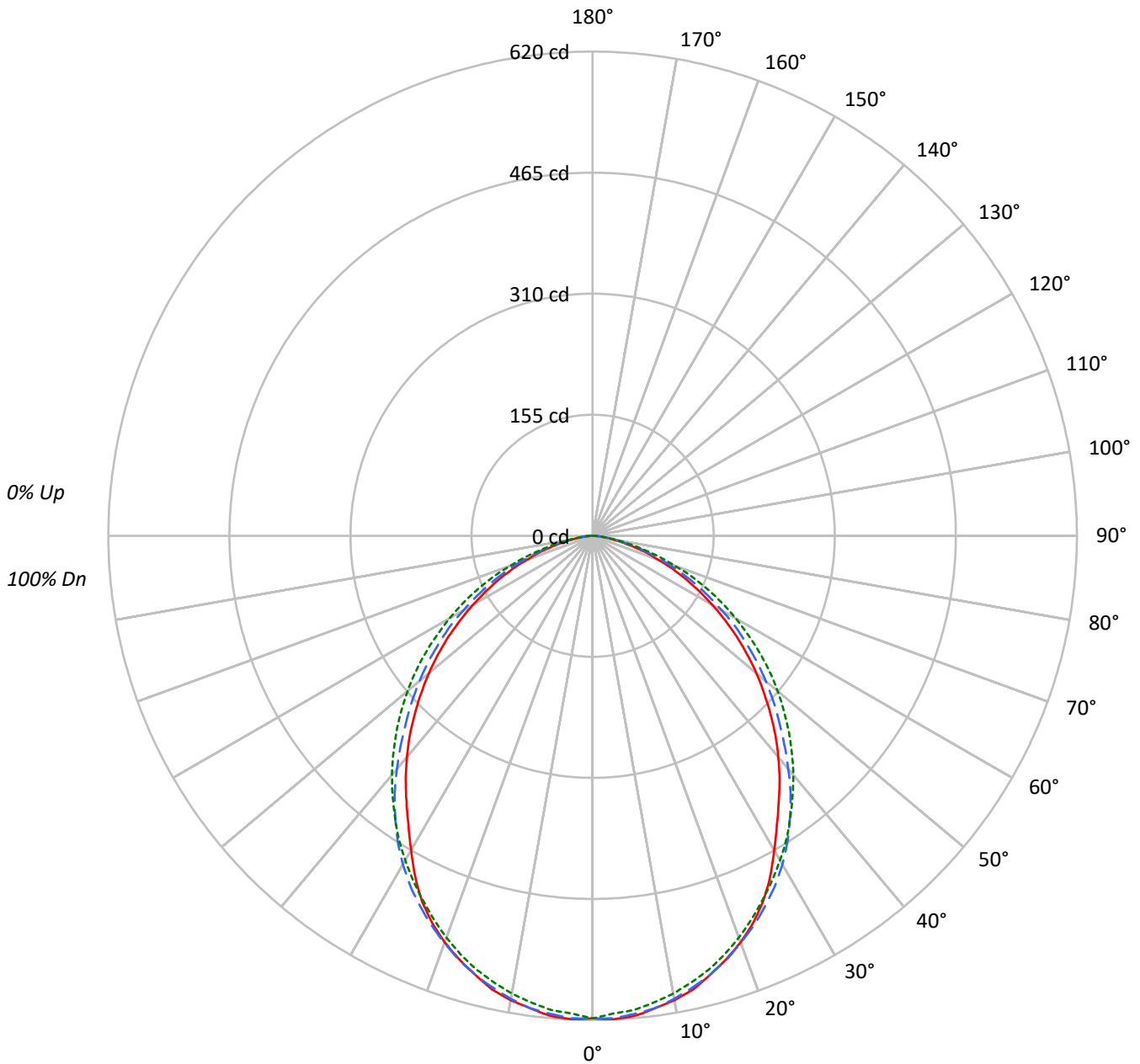
Lumens per Lamp: N/A
Luminaire Lumens: 1429.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P554548

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554548

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-86-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°	3326	3326	3326
5°	3335	3321	3293
10°	3300	3290	3253
15°	3241	3241	3204
20°	3172	3176	3136
25°	3068	3106	3056
30°	2889	3019	2982
35°	2730	2893	2898
40°	2597	2737	2809
45°	2449	2571	2704
50°	2292	2423	2588
55°	2114	2255	2448
60°	1904	2057	2277
65°	1681	1829	2071
70°	1400	1558	1759
75°	1100	1243	1377
80°	787	877	970
85°	513	513	482



TEST NUMBER: P554548

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	4.1
10°-20°	163.5	11.4
20°-30°	238.9	16.7
30°-40°	271.1	19.0
40°-50°	261.8	18.3
50°-60°	215.9	15.1
60°-70°	143.8	10.1
70°-80°	64.3	4.5
80°-90°	11.5	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°	460.5	32.2
0°-40°	731.7	51.2
0°-60°	1209.4	84.6
0°-90°	1429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	617	617	615	611	610	58
15°	582	583	582	579	575	164
25°	517	521	523	519	515	237
35°	416	421	440	443	441	260
45°	322	327	338	353	355	248
55°	225	229	240	254	261	201
65°	132	136	144	154	163	131
75°	53	56	60	63	66	58
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



TEST NUMBER: P554548

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618.0	618.0	618.0	618.0	618.0
2.5°	619.7	619.9	618.5	614.7	612.3
5°	617.3	617.1	614.7	611.4	609.5
7.5°	610.4	610.9	610.2	605.4	602.8
10°	603.8	604.0	602.1	598.3	595.2
12.5°	595.2	595.0	592.4	590.5	585.5
15°	581.7	583.1	581.7	579.1	575.0
17.5°	568.6	568.6	569.6	565.1	562.0
20°	553.9	554.6	554.6	551.1	547.5
22.5°	536.8	538.9	539.7	535.9	531.6
25°	516.6	520.7	523.0	519.2	514.7
27.5°	492.2	498.3	505.5	502.6	497.6
30°	464.9	473.9	485.8	483.4	479.8
32.5°	439.0	448.0	464.4	463.4	461.5
35°	415.5	421.2	440.4	442.8	441.1
37.5°	393.2	398.4	416.4	421.9	420.5
40°	369.7	375.4	389.6	399.3	399.8
42.5°	346.4	351.9	363.5	377.5	377.5
45°	321.7	327.2	337.8	353.3	355.2
47.5°	297.5	303.2	313.6	329.1	332.2
50°	273.7	279.0	289.4	304.4	309.1
52.5°	249.1	254.8	265.0	278.7	285.6
55°	225.3	229.1	240.3	253.6	260.9
57.5°	200.6	204.2	216.8	228.2	235.8
60°	176.9	181.4	191.1	202.8	211.5
62.5°	154.1	158.8	167.1	177.4	187.3
65°	132.0	135.6	143.6	153.8	162.6
67.5°	110.6	113.7	121.8	128.9	138.2
70°	89.0	93.1	99.0	105.9	111.8
72.5°	71.7	73.4	78.3	83.3	89.5
75°	52.9	55.8	59.8	62.7	66.2
77.5°	38.0	39.6	42.0	44.4	47.7
80°	25.4	26.1	28.3	28.7	31.3
82.5°	15.4	15.9	16.4	16.6	17.6
85°	8.3	8.3	8.3	7.8	7.8
87.5°	4.7	4.7	4.0	3.3	2.4
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)