

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: P554544

Luminaire Tested: **FUSL-12-2-LD4-1STD-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: P554544
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-80-84-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

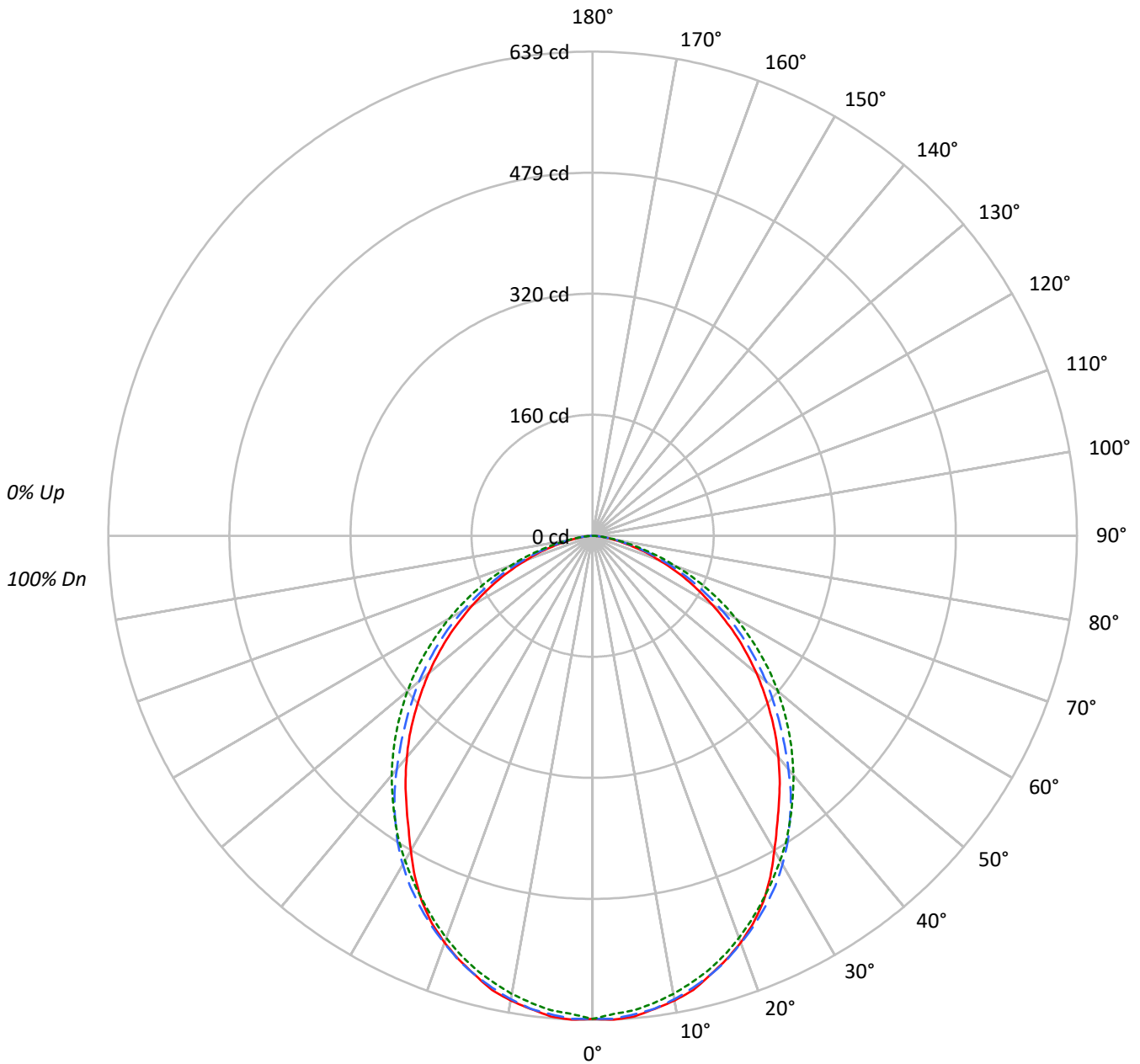
Lumens per Lamp: N/A
Luminaire Lumens: 1474.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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: P554544

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-84-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554544

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-84-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°	3431	3431	3431
5°	3440	3425	3397
10°	3404	3394	3355
15°	3343	3343	3305
20°	3272	3277	3234
25°	3165	3204	3153
30°	2980	3114	3076
35°	2816	2985	2989
40°	2679	2824	2897
45°	2525	2653	2789
50°	2364	2499	2670
55°	2181	2325	2525
60°	1963	2122	2349
65°	1734	1887	2137
70°	1445	1607	1814
75°	1135	1283	1420
80°	812	902	1001
85°	531	531	500



TEST NUMBER: P554544

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-84-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	4.1
10°-20°	168.6	11.4
20°-30°	246.4	16.7
30°-40°	279.7	19.0
40°-50°	270.0	18.3
50°-60°	222.7	15.1
60°-70°	148.3	10.1
70°-80°	66.4	4.5
80°-90°	11.9	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°	475.0	32.2
0°-40°	754.7	51.2
0°-60°	1247.4	84.6
0°-90°	1474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	637	636	634	631	629	60
15°	600	602	600	597	593	169
25°	533	537	540	536	531	244
35°	429	434	454	457	455	269
45°	332	338	348	364	366	256
55°	232	236	248	262	269	207
65°	136	140	148	159	168	135
75°	55	58	62	65	68	60
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



TEST NUMBER: P554544

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-84-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.5	637.5	637.5	637.5	637.5
2.5°	639.2	639.4	638.0	634.0	631.6
5°	636.7	636.5	634.0	630.6	628.7
7.5°	629.6	630.1	629.4	624.5	621.8
10°	622.8	623.0	621.1	617.1	614.0
12.5°	614.0	613.7	611.0	609.1	603.9
15°	600.0	601.5	600.0	597.3	593.1
17.5°	586.5	586.5	587.5	582.9	579.7
20°	571.3	572.1	572.1	568.4	564.7
22.5°	553.7	555.9	556.7	552.7	548.3
25°	532.9	537.1	539.5	535.6	530.9
27.5°	507.7	514.0	521.4	518.4	513.3
30°	479.5	488.8	501.1	498.6	494.9
32.5°	452.8	462.1	479.0	478.0	476.1
35°	428.6	434.4	454.3	456.7	455.0
37.5°	405.5	410.9	429.5	435.2	433.7
40°	381.3	387.2	401.9	411.9	412.4
42.5°	357.3	362.9	374.9	389.4	389.4
45°	331.8	337.5	348.5	364.4	366.4
47.5°	306.9	312.7	323.5	339.4	342.6
50°	282.4	287.8	298.5	314.0	318.9
52.5°	256.9	262.8	273.3	287.5	294.6
55°	232.4	236.3	247.8	261.6	269.1
57.5°	206.9	210.6	223.6	235.3	243.2
60°	182.4	187.1	197.1	209.1	218.2
62.5°	158.9	163.8	172.4	182.9	193.2
65°	136.2	139.8	148.2	158.7	167.8
67.5°	114.1	117.3	125.6	133.0	142.5
70°	91.8	96.0	102.1	109.2	115.3
72.5°	74.0	75.7	80.8	86.0	92.3
75°	54.6	57.6	61.7	64.7	68.3
77.5°	39.2	40.9	43.3	45.8	49.2
80°	26.2	26.9	29.1	29.6	32.3
82.5°	15.9	16.4	16.9	17.1	18.1
85°	8.6	8.6	8.6	8.1	8.1
87.5°	4.9	4.9	4.2	3.4	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)