

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: P554343

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-87-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: P554343
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-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

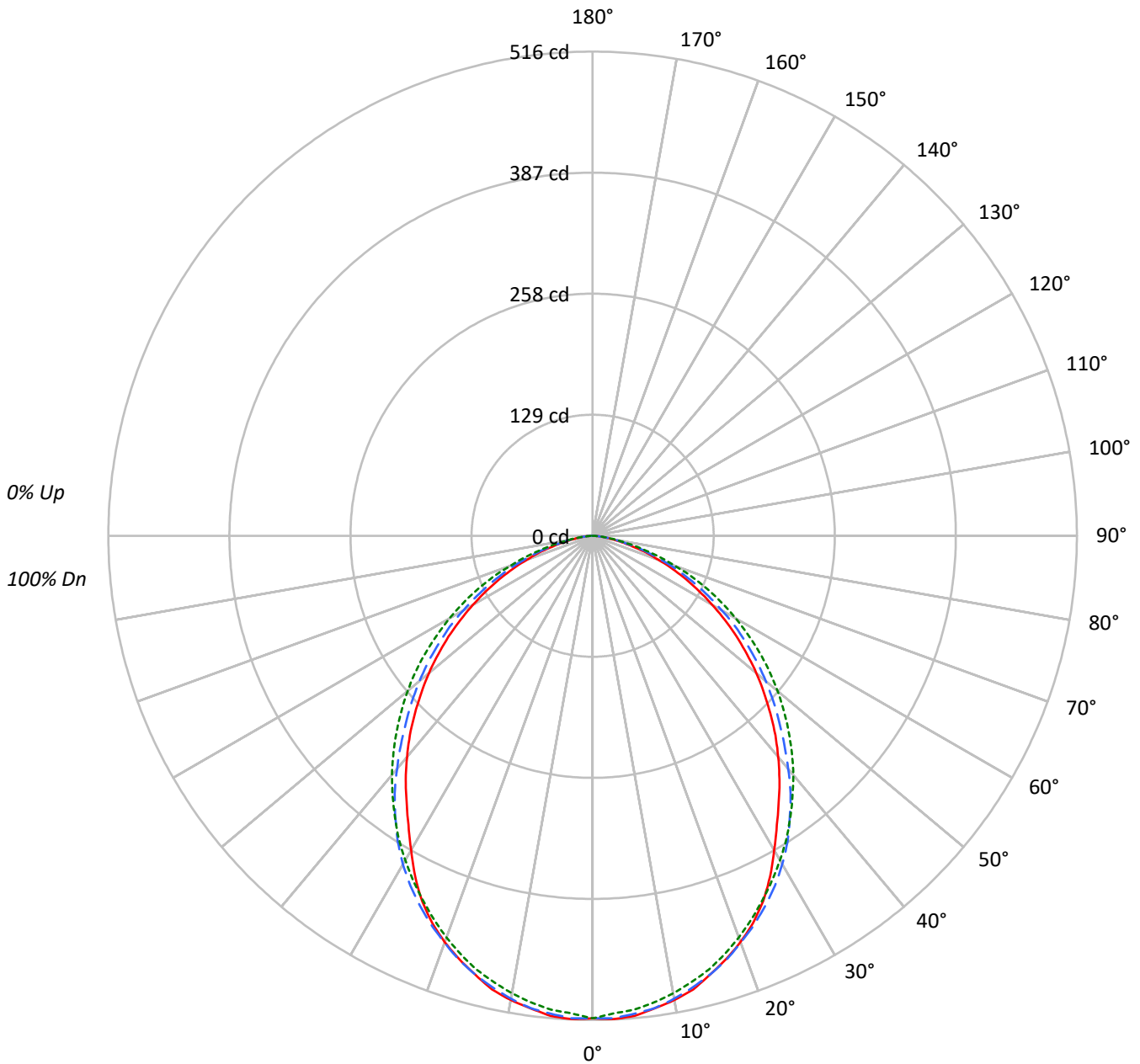
Lumens per Lamp: N/A
Luminaire Lumens: 1189.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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: P554343

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-87-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°	2767	2767	2767
5°	2775	2763	2740
10°	2746	2738	2706
15°	2697	2697	2666
20°	2640	2643	2609
25°	2553	2584	2543
30°	2404	2512	2481
35°	2271	2407	2411
40°	2161	2278	2337
45°	2038	2140	2249
50°	1907	2016	2153
55°	1759	1876	2037
60°	1584	1711	1894
65°	1398	1522	1723
70°	1166	1297	1463
75°	917	1036	1146
80°	654	728	809
85°	426	426	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	4.1
10°-20°	136.0	11.4
20°-30°	198.8	16.7
30°-40°	225.6	19.0
40°-50°	217.8	18.3
50°-60°	179.7	15.1
60°-70°	119.6	10.1
70°-80°	53.5	4.5
80°-90°	9.6	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°	383.2	32.2
0°-40°	608.8	51.2
0°-60°	1006.2	84.6
0°-90°	1189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	514	513	511	509	507	49
15°	484	485	484	482	478	136
25°	430	433	435	432	428	197
35°	346	350	366	368	367	217
45°	268	272	281	294	296	207
55°	188	191	200	211	217	167
65°	110	113	120	128	135	109
75°	44	46	50	52	55	48
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°	514.2	514.2	514.2	514.2	514.2
2.5°	515.6	515.8	514.6	511.4	509.5
5°	513.6	513.4	511.4	508.7	507.1
7.5°	507.9	508.3	507.7	503.7	501.6
10°	502.4	502.6	501.0	497.8	495.2
12.5°	495.2	495.0	492.9	491.3	487.1
15°	484.0	485.2	484.0	481.8	478.5
17.5°	473.1	473.1	473.9	470.2	467.6
20°	460.9	461.5	461.5	458.5	455.5
22.5°	446.7	448.4	449.0	445.9	442.3
25°	429.9	433.2	435.2	432.0	428.3
27.5°	409.5	414.6	420.6	418.2	414.1
30°	386.8	394.3	404.2	402.2	399.2
32.5°	365.3	372.8	386.4	385.6	384.0
35°	345.7	350.4	366.4	368.4	367.0
37.5°	327.1	331.5	346.5	351.0	349.9
40°	307.6	312.3	324.2	332.3	332.7
42.5°	288.2	292.8	302.4	314.1	314.1
45°	267.7	272.2	281.1	293.9	295.5
47.5°	247.5	252.3	261.0	273.8	276.4
50°	227.8	232.1	240.8	253.3	257.2
52.5°	207.2	212.0	220.5	231.9	237.6
55°	187.5	190.6	199.9	211.0	217.1
57.5°	166.9	169.9	180.4	189.8	196.2
60°	147.2	150.9	159.0	168.7	176.0
62.5°	128.2	132.2	139.1	147.6	155.9
65°	109.8	112.8	119.5	128.0	135.3
67.5°	92.1	94.6	101.3	107.3	115.0
70°	74.1	77.4	82.4	88.1	93.0
72.5°	59.7	61.0	65.2	69.3	74.5
75°	44.1	46.4	49.8	52.2	55.1
77.5°	31.6	33.0	35.0	36.9	39.7
80°	21.1	21.7	23.5	23.9	26.1
82.5°	12.8	13.2	13.6	13.8	14.6
85°	6.9	6.9	6.9	6.5	6.5
87.5°	4.0	4.0	3.4	2.8	2.0
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)