

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: P554295

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-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: P554295
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-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

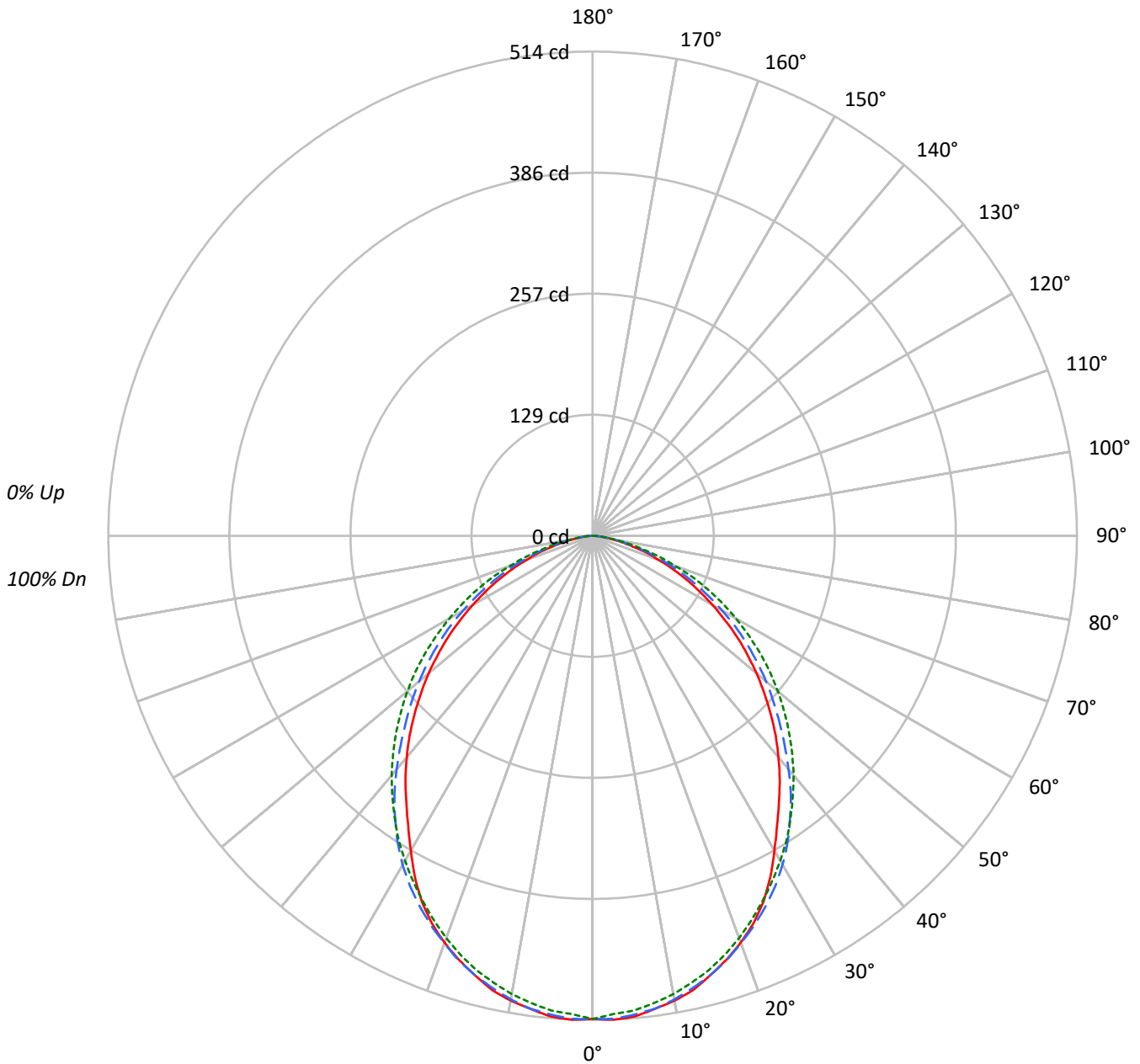
Lumens per Lamp: N/A
Luminaire Lumens: 1186.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2760	2760	2760
5°	2768	2756	2733
10°	2739	2731	2700
15°	2690	2690	2659
20°	2633	2636	2603
25°	2546	2578	2537
30°	2398	2506	2475
35°	2265	2401	2405
40°	2155	2272	2331
45°	2032	2134	2244
50°	1902	2011	2148
55°	1755	1871	2032
60°	1580	1707	1890
65°	1396	1518	1719
70°	1163	1293	1460
75°	913	1033	1144
80°	654	725	806
85°	426	426	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	4.1
10°-20°	135.7	11.4
20°-30°	198.2	16.7
30°-40°	225.0	19.0
40°-50°	217.2	18.3
50°-60°	179.2	15.1
60°-70°	119.3	10.1
70°-80°	53.4	4.5
80°-90°	9.5	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°	382.2	32.2
0°-40°	607.2	51.2
0°-60°	1003.7	84.6
0°-90°	1186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	512	512	510	507	506	48
15°	483	484	483	481	477	136
25°	429	432	434	431	427	196
35°	345	350	366	368	366	216
45°	267	272	280	293	295	206
55°	187	190	199	210	217	167
65°	110	112	119	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°	512.9	512.9	512.9	512.9	512.9
2.5°	514.3	514.5	513.3	510.2	508.2
5°	512.3	512.1	510.2	507.4	505.8
7.5°	506.6	507.0	506.4	502.5	500.3
10°	501.1	501.3	499.7	496.6	494.0
12.5°	494.0	493.8	491.6	490.1	485.9
15°	482.8	483.9	482.8	480.6	477.2
17.5°	471.9	471.9	472.7	469.0	466.4
20°	459.7	460.3	460.3	457.3	454.4
22.5°	445.5	447.3	447.9	444.7	441.2
25°	428.8	432.1	434.1	430.9	427.2
27.5°	408.5	413.6	419.5	417.1	413.0
30°	385.8	393.3	403.2	401.2	398.2
32.5°	364.3	371.8	385.4	384.6	383.1
35°	344.8	349.6	365.5	367.5	366.1
37.5°	326.3	330.6	345.6	350.2	349.0
40°	306.8	311.5	323.4	331.4	331.8
42.5°	287.5	292.0	301.7	313.3	313.3
45°	267.0	271.5	280.4	293.2	294.8
47.5°	246.9	251.6	260.3	273.1	275.7
50°	227.2	231.5	240.2	252.6	256.6
52.5°	206.7	211.4	219.9	231.3	237.0
55°	187.0	190.2	199.4	210.4	216.6
57.5°	166.5	169.5	179.9	189.4	195.7
60°	146.8	150.5	158.6	168.3	175.6
62.5°	127.9	131.8	138.7	147.2	155.5
65°	109.6	112.5	119.2	127.7	135.0
67.5°	91.8	94.4	101.1	107.0	114.7
70°	73.9	77.2	82.2	87.9	92.8
72.5°	59.5	60.9	65.0	69.2	74.3
75°	43.9	46.3	49.7	52.0	55.0
77.5°	31.5	32.9	34.9	36.8	39.6
80°	21.1	21.7	23.4	23.8	26.0
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°	3.9	3.9	3.3	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)