

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: P554275

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-85-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: P554275
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

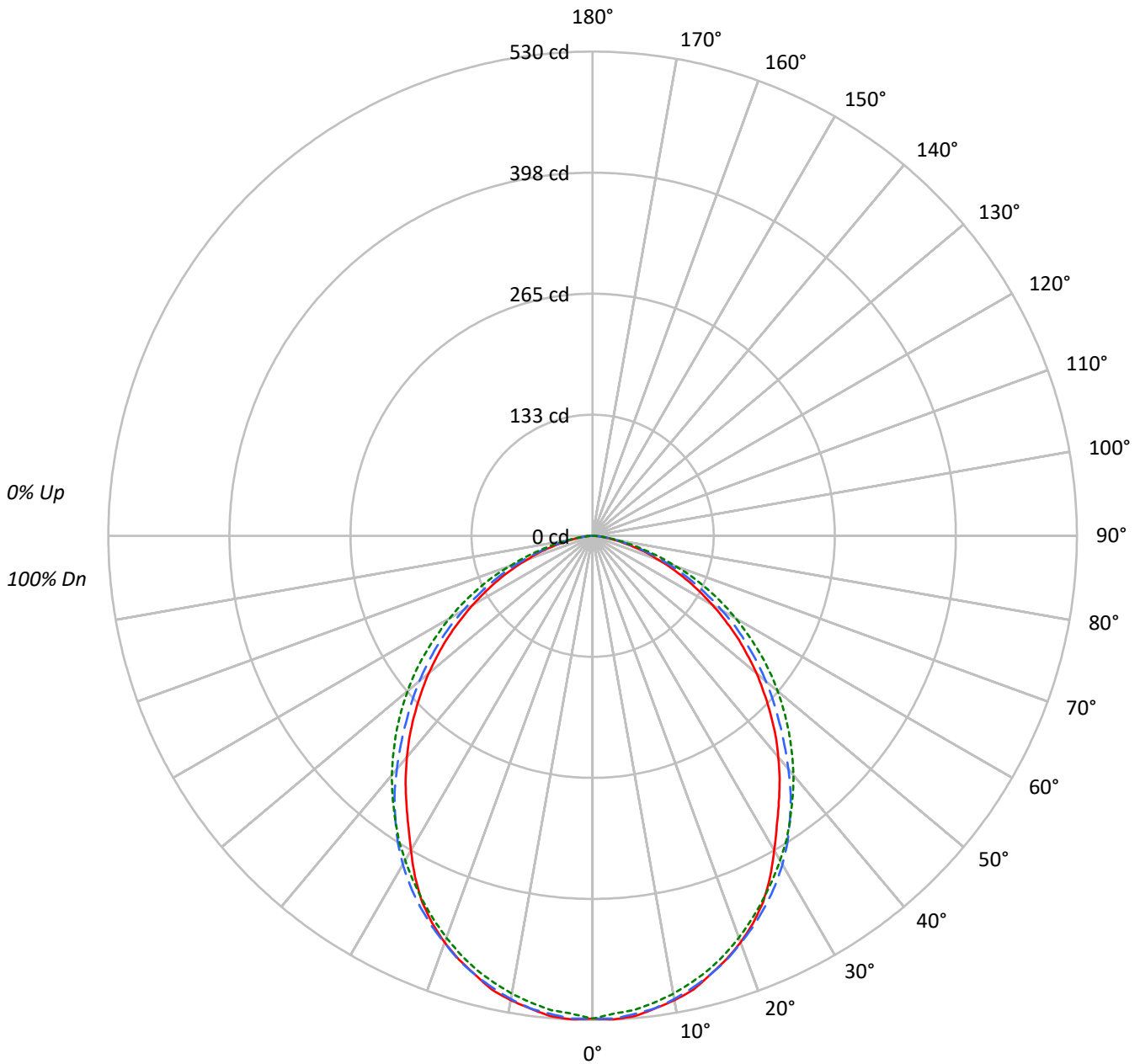
Lumens per Lamp: N/A
Luminaire Lumens: 1222.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2844	2844	2844
5°	2852	2840	2816
10°	2822	2814	2782
15°	2771	2771	2740
20°	2713	2716	2682
25°	2624	2656	2614
30°	2470	2582	2550
35°	2334	2474	2478
40°	2221	2341	2402
45°	2094	2199	2312
50°	1960	2072	2213
55°	1808	1928	2093
60°	1629	1759	1947
65°	1438	1564	1771
70°	1197	1333	1504
75°	942	1065	1177
80°	673	750	831
85°	438	438	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	4.1
10°-20°	139.8	11.4
20°-30°	204.3	16.7
30°-40°	231.9	19.0
40°-50°	223.8	18.3
50°-60°	184.7	15.1
60°-70°	123.0	10.1
70°-80°	55.0	4.5
80°-90°	9.8	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°	393.8	32.2
0°-40°	625.7	51.2
0°-60°	1034.2	84.6
0°-90°	1222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	528	528	526	523	521	50
15°	497	499	497	495	492	140
25°	442	445	447	444	440	202
35°	355	360	377	379	377	223
45°	275	280	289	302	304	212
55°	193	196	206	217	223	172
65°	113	116	123	132	139	112
75°	45	48	51	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.5	528.5	528.5	528.5	528.5
2.5°	529.9	530.1	528.9	525.6	523.6
5°	527.9	527.7	525.6	522.8	521.2
7.5°	522.0	522.4	521.8	517.7	515.5
10°	516.3	516.5	514.9	511.6	509.0
12.5°	509.0	508.8	506.6	504.9	500.7
15°	497.4	498.6	497.4	495.2	491.7
17.5°	486.3	486.3	487.1	483.2	480.6
20°	473.7	474.3	474.3	471.2	468.2
22.5°	459.0	460.9	461.5	458.2	454.6
25°	441.8	445.2	447.3	444.0	440.2
27.5°	420.9	426.2	432.2	429.8	425.5
30°	397.5	405.2	415.4	413.4	410.3
32.5°	375.4	383.1	397.1	396.3	394.7
35°	355.3	360.2	376.6	378.6	377.2
37.5°	336.2	340.7	356.1	360.8	359.6
40°	316.1	321.0	333.2	341.5	341.9
42.5°	296.2	300.9	310.8	322.8	322.8
45°	275.1	279.8	288.9	302.1	303.7
47.5°	254.4	259.3	268.2	281.4	284.0
50°	234.1	238.6	247.5	260.3	264.3
52.5°	213.0	217.8	226.6	238.4	244.2
55°	192.7	195.9	205.5	216.8	223.1
57.5°	171.6	174.6	185.4	195.1	201.6
60°	151.3	155.1	163.4	173.4	180.9
62.5°	131.8	135.8	142.9	151.7	160.2
65°	112.9	115.9	122.8	131.6	139.1
67.5°	94.6	97.3	104.2	110.2	118.2
70°	76.1	79.6	84.7	90.6	95.6
72.5°	61.3	62.7	67.0	71.3	76.5
75°	45.3	47.7	51.2	53.6	56.6
77.5°	32.5	33.9	35.9	38.0	40.8
80°	21.7	22.3	24.2	24.6	26.8
82.5°	13.2	13.6	14.0	14.2	15.0
85°	7.1	7.1	7.1	6.7	6.7
87.5°	4.1	4.1	3.5	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)