

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: P554309

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-86-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: P554309
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

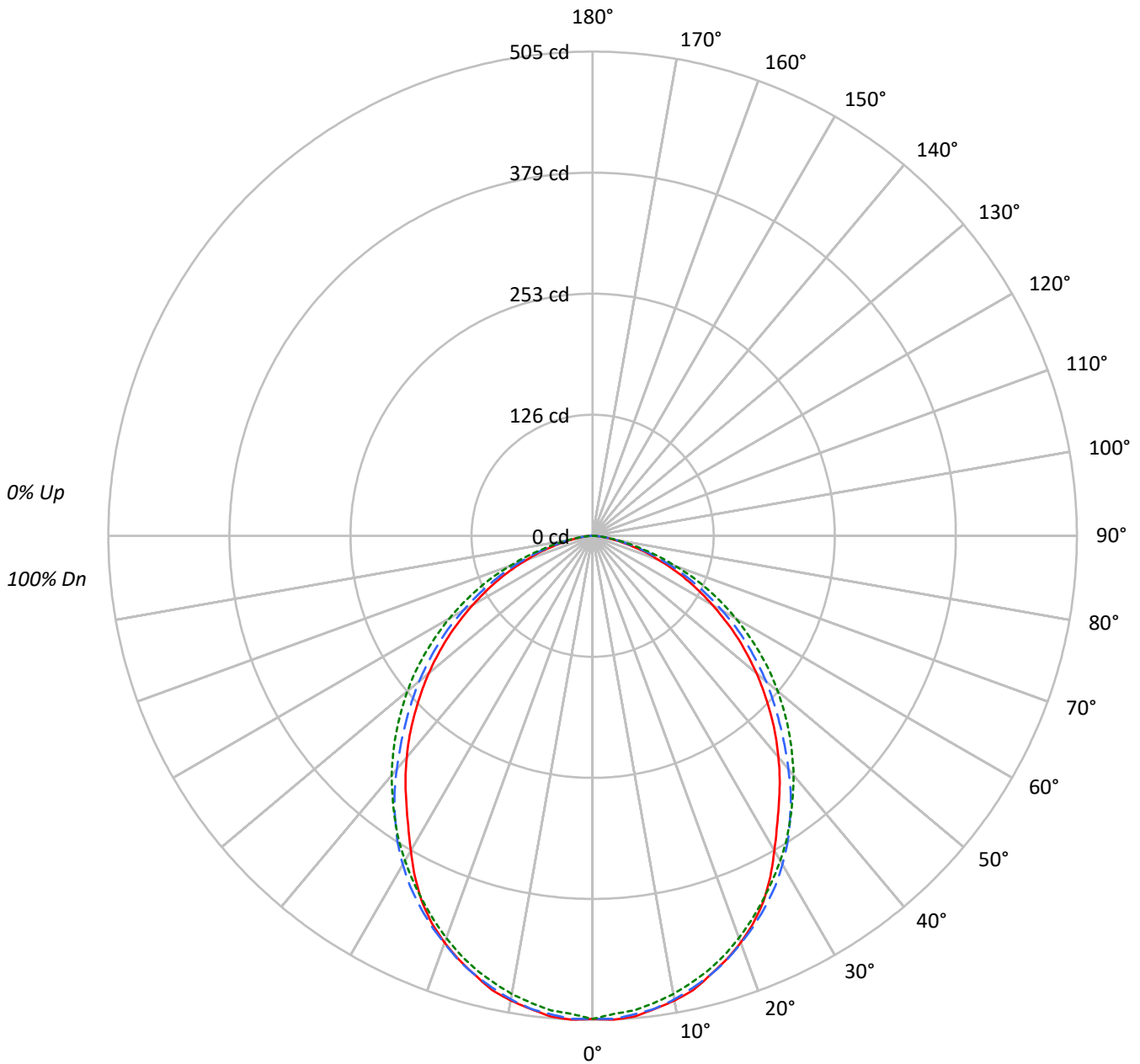
Lumens per Lamp: N/A
Luminaire Lumens: 1165.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2711	2711	2711
5°	2719	2707	2685
10°	2690	2683	2652
15°	2642	2642	2612
20°	2586	2590	2556
25°	2501	2532	2492
30°	2355	2461	2431
35°	2225	2359	2363
40°	2118	2231	2290
45°	1996	2096	2204
50°	1869	1975	2110
55°	1724	1838	1996
60°	1552	1677	1857
65°	1370	1491	1689
70°	1142	1270	1435
75°	898	1015	1123
80°	642	713	790
85°	420	420	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	4.1
10°-20°	133.3	11.4
20°-30°	194.7	16.7
30°-40°	221.1	19.0
40°-50°	213.4	18.3
50°-60°	176.0	15.1
60°-70°	117.2	10.1
70°-80°	52.5	4.5
80°-90°	9.4	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°	375.5	32.2
0°-40°	596.5	51.2
0°-60°	985.9	84.6
0°-90°	1165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	503	503	501	498	497	48
15°	474	475	474	472	469	134
25°	421	424	426	423	420	193
35°	339	343	359	361	360	212
45°	262	267	275	288	290	202
55°	184	187	196	207	213	164
65°	108	110	117	125	133	107
75°	43	46	49	51	54	47
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°	503.8	503.8	503.8	503.8	503.8
2.5°	505.2	505.4	504.2	501.1	499.2
5°	503.3	503.1	501.1	498.4	496.9
7.5°	497.6	498.0	497.4	493.6	491.4
10°	492.2	492.4	490.9	487.8	485.3
12.5°	485.3	485.1	482.9	481.4	477.3
15°	474.2	475.4	474.2	472.1	468.8
17.5°	463.6	463.6	464.3	460.7	458.2
20°	451.6	452.2	452.2	449.2	446.3
22.5°	437.6	439.4	440.0	436.9	433.4
25°	421.2	424.5	426.4	423.3	419.6
27.5°	401.2	406.3	412.1	409.8	405.7
30°	379.0	386.3	396.0	394.1	391.2
32.5°	357.9	365.2	378.6	377.8	376.3
35°	338.7	343.4	359.1	361.0	359.6
37.5°	320.5	324.8	339.5	344.0	342.8
40°	301.4	306.0	317.6	325.6	326.0
42.5°	282.4	286.9	296.3	307.8	307.8
45°	262.3	266.7	275.4	288.0	289.6
47.5°	242.5	247.2	255.7	268.3	270.8
50°	223.2	227.4	235.9	248.1	252.0
52.5°	203.0	207.7	216.0	227.2	232.9
55°	183.7	186.8	195.9	206.7	212.7
57.5°	163.6	166.5	176.7	186.0	192.2
60°	144.2	147.9	155.8	165.3	172.5
62.5°	125.6	129.5	136.3	144.6	152.7
65°	107.6	110.5	117.1	125.4	132.6
67.5°	90.2	92.7	99.3	105.1	112.7
70°	72.6	75.9	80.7	86.3	91.2
72.5°	58.5	59.8	63.9	67.9	73.0
75°	43.2	45.5	48.8	51.1	54.0
77.5°	31.0	32.3	34.3	36.2	38.9
80°	20.7	21.3	23.0	23.4	25.5
82.5°	12.6	13.0	13.4	13.5	14.3
85°	6.8	6.8	6.8	6.4	6.4
87.5°	3.9	3.9	3.3	2.7	1.9
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)