

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: P554387

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-85-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: P554387
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-30-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

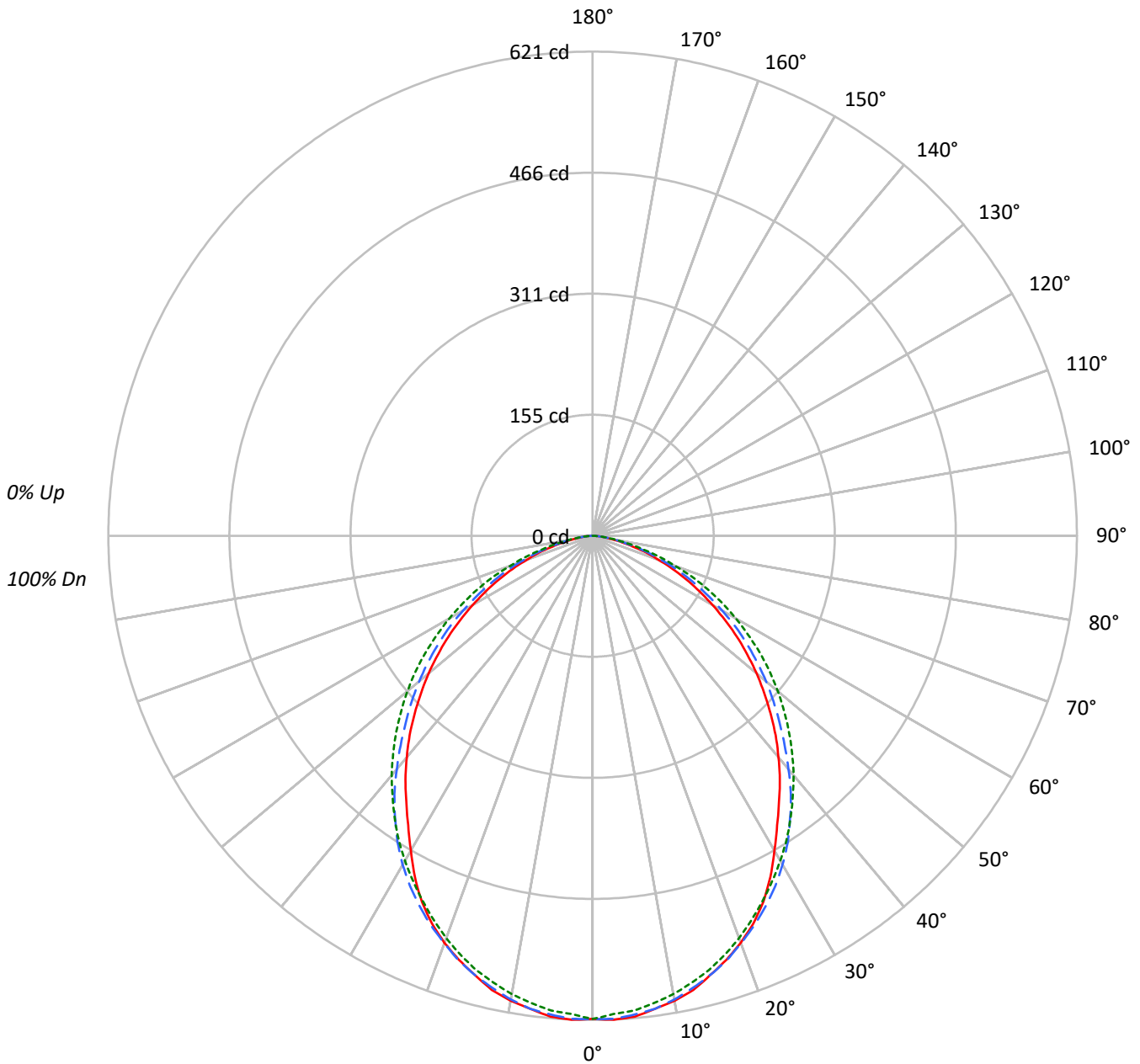
Lumens per Lamp: N/A
Luminaire Lumens: 1433.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3335	3335	3335
5°	3344	3330	3302
10°	3309	3300	3262
15°	3250	3250	3213
20°	3182	3186	3144
25°	3077	3115	3065
30°	2897	3027	2990
35°	2737	2901	2907
40°	2604	2745	2817
45°	2455	2579	2711
50°	2298	2430	2596
55°	2120	2260	2456
60°	1910	2063	2283
65°	1686	1834	2077
70°	1405	1563	1764
75°	1104	1248	1381
80°	790	877	973
85°	513	513	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	4.1
10°-20°	163.9	11.4
20°-30°	239.5	16.7
30°-40°	271.9	19.0
40°-50°	262.5	18.3
50°-60°	216.5	15.1
60°-70°	144.2	10.1
70°-80°	64.5	4.5
80°-90°	11.5	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°	461.8	32.2
0°-40°	733.7	51.2
0°-60°	1212.7	84.6
0°-90°	1433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	619	619	616	613	611	59
15°	583	585	583	581	577	164
25°	518	522	524	521	516	237
35°	417	422	442	444	442	261
45°	323	328	339	354	356	249
55°	226	230	241	254	262	202
65°	132	136	144	154	163	131
75°	53	56	60	63	66	58
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.7	619.7	619.7	619.7	619.7
2.5°	621.4	621.6	620.2	616.4	614.0
5°	619.0	618.8	616.4	613.1	611.2
7.5°	612.1	612.6	611.9	607.1	604.5
10°	605.5	605.7	603.8	600.0	596.9
12.5°	596.9	596.6	594.0	592.1	587.1
15°	583.3	584.7	583.3	580.7	576.6
17.5°	570.2	570.2	571.2	566.6	563.5
20°	555.5	556.2	556.2	552.6	549.0
22.5°	538.3	540.5	541.2	537.4	533.1
25°	518.1	522.1	524.5	520.7	516.2
27.5°	493.6	499.7	506.9	504.0	499.0
30°	466.2	475.2	487.1	484.7	481.2
32.5°	440.2	449.3	465.7	464.7	462.8
35°	416.6	422.4	441.6	444.0	442.4
37.5°	394.3	399.5	417.6	423.1	421.6
40°	370.7	376.4	390.7	400.5	400.9
42.5°	347.4	352.8	364.5	378.6	378.6
45°	322.6	328.1	338.8	354.3	356.2
47.5°	298.3	304.0	314.5	330.0	333.1
50°	274.5	279.7	290.2	305.2	310.0
52.5°	249.8	255.5	265.7	279.5	286.4
55°	225.9	229.8	240.9	254.3	261.7
57.5°	201.2	204.8	217.4	228.8	236.4
60°	177.4	181.9	191.7	203.3	212.1
62.5°	154.5	159.3	167.6	177.8	187.8
65°	132.4	135.9	144.0	154.3	163.1
67.5°	110.9	114.0	122.1	129.3	138.6
70°	89.3	93.3	99.3	106.2	112.1
72.5°	71.9	73.6	78.6	83.6	89.8
75°	53.1	55.9	60.0	62.9	66.4
77.5°	38.1	39.8	42.1	44.5	47.9
80°	25.5	26.2	28.3	28.8	31.4
82.5°	15.5	16.0	16.4	16.7	17.6
85°	8.3	8.3	8.3	7.9	7.9
87.5°	4.8	4.8	4.0	3.3	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)