

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: P553879

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-87-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: P553879
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-LD4-1HI-30-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

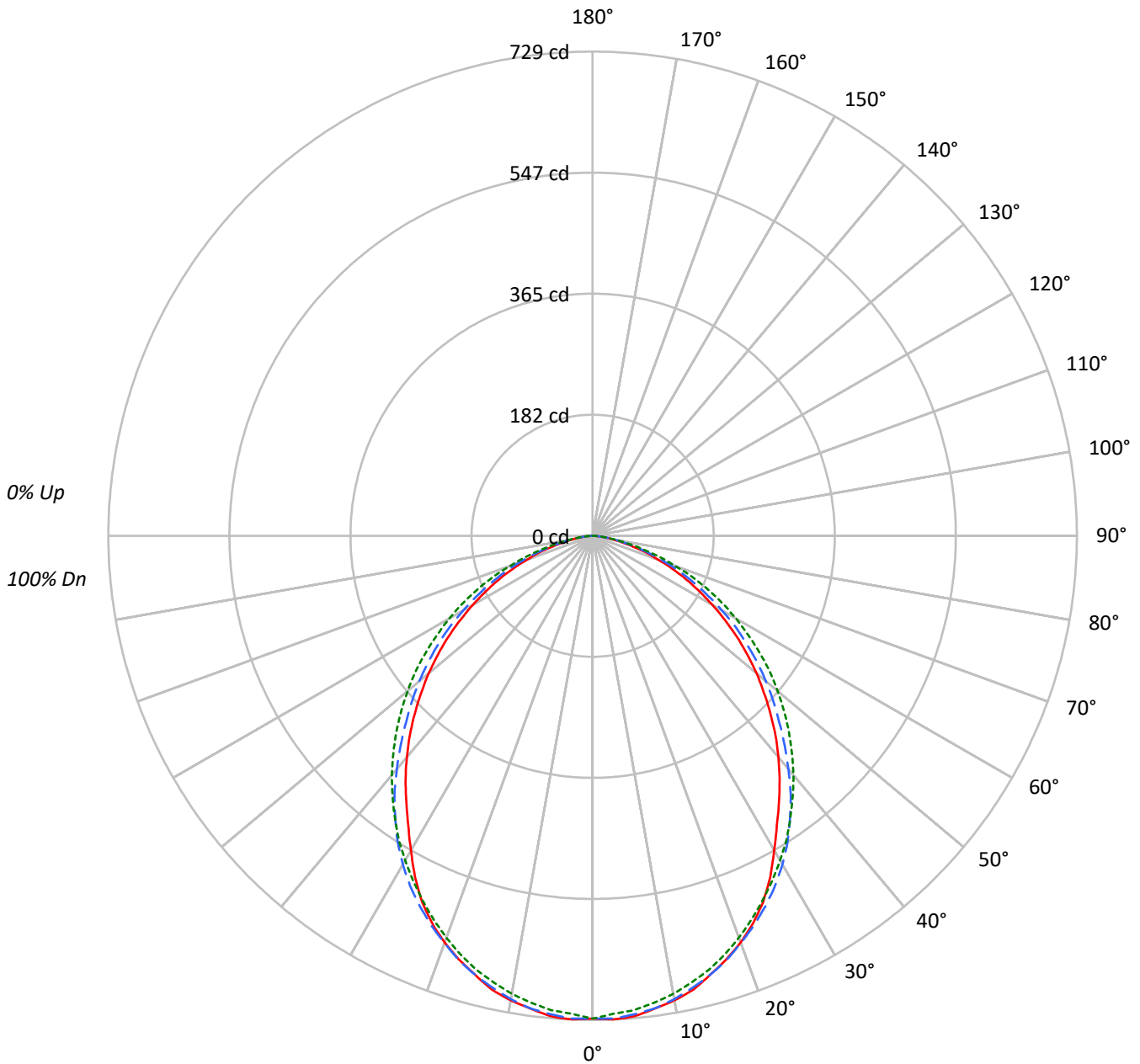
Lumens per Lamp: N/A
Luminaire Lumens: 1681.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3913	3913	3913
5°	3923	3907	3873
10°	3881	3871	3827
15°	3813	3813	3769
20°	3732	3737	3688
25°	3609	3654	3596
30°	3398	3551	3507
35°	3211	3404	3409
40°	3055	3220	3304
45°	2880	3025	3180
50°	2696	2851	3044
55°	2487	2652	2880
60°	2240	2420	2678
65°	1978	2152	2436
70°	1648	1833	2069
75°	1295	1464	1620
80°	927	1029	1144
85°	605	605	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	4.1
10°-20°	192.3	11.4
20°-30°	281.0	16.7
30°-40°	319.0	19.0
40°-50°	307.9	18.3
50°-60°	254.0	15.1
60°-70°	169.2	10.1
70°-80°	75.7	4.5
80°-90°	13.5	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°	541.7	32.2
0°-40°	860.7	51.2
0°-60°	1422.6	84.6
0°-90°	1681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	726	726	723	719	717	69
15°	684	686	684	681	676	193
25°	608	612	615	611	606	278
35°	489	496	518	521	519	306
45°	378	385	397	416	418	292
55°	265	270	283	298	307	237
65°	155	160	169	181	191	154
75°	62	66	70	74	78	68
85°	10	10	10	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.0	727.0	727.0	727.0	727.0
2.5°	728.9	729.2	727.5	723.1	720.3
5°	726.2	725.9	723.1	719.2	716.9
7.5°	718.1	718.6	717.8	712.2	709.1
10°	710.2	710.5	708.3	703.8	700.2
12.5°	700.2	699.9	696.8	694.6	688.7
15°	684.3	685.9	684.3	681.2	676.4
17.5°	668.9	668.9	670.0	664.7	661.1
20°	651.6	652.4	652.4	648.2	644.0
22.5°	631.5	634.0	634.8	630.4	625.3
25°	607.7	612.5	615.3	610.8	605.5
27.5°	579.0	586.2	594.6	591.3	585.4
30°	546.8	557.5	571.4	568.6	564.4
32.5°	516.4	527.0	546.3	545.2	542.9
35°	488.8	495.5	518.1	520.9	518.9
37.5°	462.5	468.6	489.9	496.3	494.6
40°	434.9	441.6	458.3	469.8	470.3
42.5°	407.5	413.9	427.6	444.1	444.1
45°	378.4	384.9	397.4	415.6	417.8
47.5°	349.9	356.7	368.9	387.1	390.7
50°	322.0	328.2	340.5	358.0	363.6
52.5°	293.0	299.7	311.7	327.9	336.0
55°	265.0	269.5	282.6	298.3	306.9
57.5°	236.0	240.2	255.0	268.4	277.3
60°	208.1	213.4	224.8	238.5	248.8
62.5°	181.3	186.8	196.6	208.6	220.4
65°	155.3	159.5	169.0	181.0	191.3
67.5°	130.1	133.8	143.3	151.7	162.5
70°	104.7	109.5	116.5	124.6	131.5
72.5°	84.3	86.3	92.2	98.0	105.3
75°	62.3	65.6	70.4	73.7	77.9
77.5°	44.7	46.6	49.4	52.2	56.1
80°	29.9	30.7	33.2	33.8	36.9
82.5°	18.2	18.7	19.3	19.6	20.7
85°	9.8	9.8	9.8	9.2	9.2
87.5°	5.6	5.6	4.7	3.9	2.8
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)