

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: P553872

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-84-EDD-90**

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: P553872
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

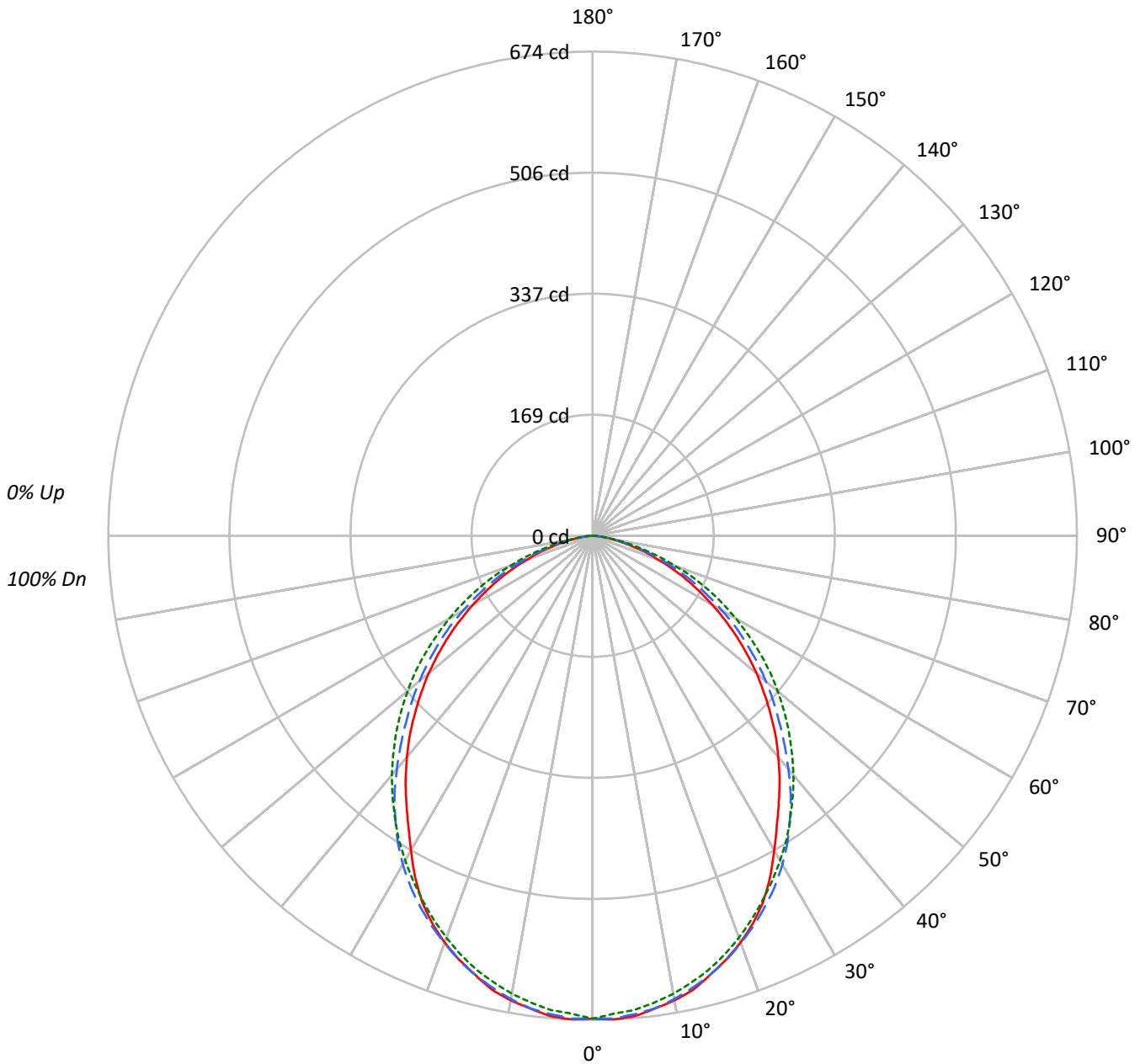
Lumens per Lamp: N/A
Luminaire Lumens: 1554.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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			100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73			73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54			54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47			47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34			34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30			30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3617	3617	3617
5°	3627	3612	3581
10°	3588	3578	3537
15°	3525	3525	3484
20°	3450	3454	3410
25°	3336	3378	3324
30°	3141	3283	3243
35°	2968	3146	3152
40°	2824	2977	3055
45°	2662	2796	2940
50°	2493	2635	2815
55°	2299	2452	2662
60°	2071	2237	2476
65°	1829	1989	2253
70°	1523	1695	1913
75°	1198	1354	1497
80°	855	951	1057
85°	556	556	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	4.1
10°-20°	177.8	11.4
20°-30°	259.8	16.7
30°-40°	294.9	19.0
40°-50°	284.6	18.3
50°-60°	234.8	15.1
60°-70°	156.4	10.1
70°-80°	70.0	4.5
80°-90°	12.5	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°	500.8	32.2
0°-40°	795.7	51.2
0°-60°	1315.1	84.6
0°-90°	1554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	671	671	668	665	663	64
15°	633	634	633	630	625	178
25°	562	566	569	565	560	257
35°	452	458	479	482	480	283
45°	350	356	367	384	386	270
55°	245	249	261	276	284	219
65°	144	147	156	167	177	142
75°	58	61	65	68	72	63
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.1	672.1	672.1	672.1	672.1
2.5°	673.9	674.1	672.6	668.5	665.9
5°	671.3	671.0	668.5	664.8	662.8
7.5°	663.8	664.3	663.5	658.4	655.5
10°	656.6	656.8	654.8	650.6	647.3
12.5°	647.3	647.0	644.2	642.1	636.7
15°	632.6	634.1	632.6	629.7	625.3
17.5°	618.4	618.4	619.4	614.5	611.1
20°	602.4	603.1	603.1	599.3	595.4
22.5°	583.8	586.1	586.9	582.7	578.1
25°	561.8	566.2	568.8	564.7	559.8
27.5°	535.2	541.9	549.7	546.6	541.2
30°	505.5	515.3	528.3	525.7	521.8
32.5°	477.4	487.2	505.0	504.0	501.9
35°	451.8	458.0	478.9	481.5	479.7
37.5°	427.6	433.2	452.9	458.8	457.3
40°	402.0	408.2	423.7	434.3	434.8
42.5°	376.7	382.6	395.3	410.5	410.5
45°	349.8	355.8	367.4	384.2	386.3
47.5°	323.5	329.7	341.1	357.8	361.2
50°	297.7	303.4	314.7	331.0	336.2
52.5°	270.8	277.0	288.1	303.1	310.6
55°	245.0	249.2	261.3	275.7	283.7
57.5°	218.2	222.0	235.7	248.1	256.4
60°	192.4	197.3	207.8	220.5	230.0
62.5°	167.6	172.7	181.8	192.9	203.7
65°	143.6	147.4	156.2	167.3	176.9
67.5°	120.3	123.7	132.5	140.2	150.3
70°	96.8	101.2	107.7	115.2	121.6
72.5°	78.0	79.8	85.2	90.6	97.3
75°	57.6	60.7	65.1	68.2	72.0
77.5°	41.3	43.1	45.7	48.3	51.9
80°	27.6	28.4	30.7	31.2	34.1
82.5°	16.8	17.3	17.8	18.1	19.1
85°	9.0	9.0	9.0	8.5	8.5
87.5°	5.2	5.2	4.4	3.6	2.6
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)