

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: P554072

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-82-88-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: P554072
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-50-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

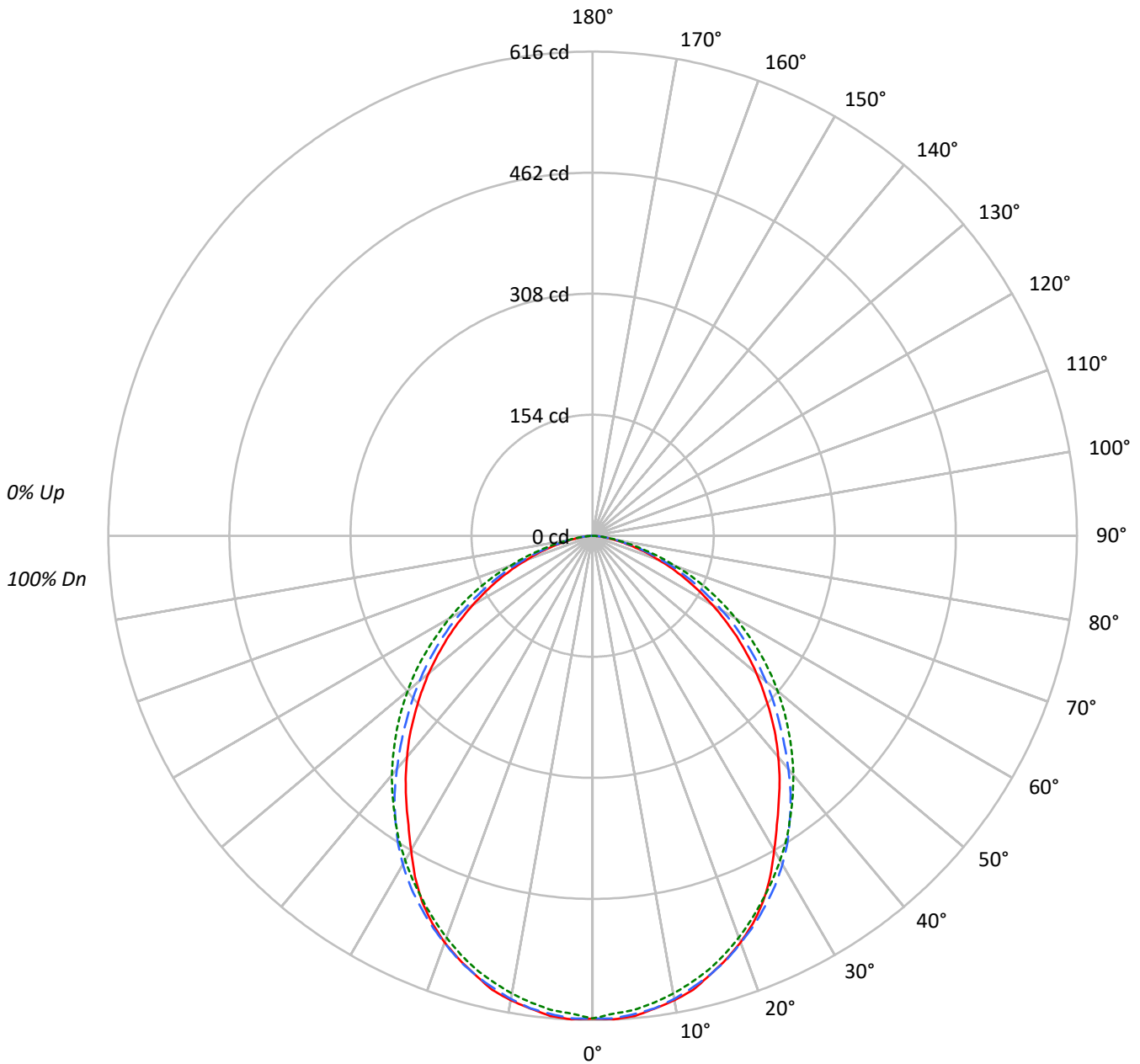
Lumens per Lamp: N/A
Luminaire Lumens: 1420.0 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	3305	3305	3305
5°	3314	3300	3272
10°	3279	3270	3233
15°	3221	3221	3184
20°	3152	3156	3116
25°	3049	3086	3037
30°	2871	3000	2963
35°	2713	2875	2880
40°	2581	2720	2791
45°	2433	2555	2686
50°	2277	2408	2572
55°	2101	2241	2433
60°	1892	2044	2263
65°	1671	1817	2058
70°	1393	1548	1748
75°	1094	1237	1368
80°	781	871	964
85°	513	513	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	4.1
10°-20°	162.4	11.4
20°-30°	237.4	16.7
30°-40°	269.4	19.0
40°-50°	260.1	18.3
50°-60°	214.6	15.1
60°-70°	142.9	10.1
70°-80°	63.9	4.5
80°-90°	11.4	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°	457.6	32.2
0°-40°	727.1	51.2
0°-60°	1201.7	84.6
0°-90°	1420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	613	613	611	608	606	58
15°	578	579	578	575	571	163
25°	513	517	520	516	512	235
35°	413	418	438	440	438	259
45°	320	325	336	351	353	247
55°	224	228	239	252	259	200
65°	131	135	143	153	162	130
75°	53	55	60	62	66	57
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°	614.1	614.1	614.1	614.1	614.1
2.5°	615.8	616.0	614.6	610.8	608.5
5°	613.4	613.2	610.8	607.5	605.6
7.5°	606.6	607.0	606.3	601.6	599.0
10°	600.0	600.2	598.3	594.5	591.5
12.5°	591.5	591.2	588.6	586.7	581.8
15°	578.0	579.4	578.0	575.4	571.4
17.5°	565.0	565.0	566.0	561.5	558.4
20°	550.4	551.1	551.1	547.6	544.0
22.5°	533.4	535.6	536.3	532.5	528.2
25°	513.4	517.4	519.7	516.0	511.5
27.5°	489.1	495.2	502.3	499.5	494.5
30°	461.9	470.9	482.7	480.3	476.8
32.5°	436.2	445.2	461.5	460.5	458.6
35°	412.9	418.5	437.6	440.0	438.3
37.5°	390.7	395.9	413.8	419.2	417.8
40°	367.3	373.0	387.2	396.8	397.3
42.5°	344.2	349.6	361.2	375.1	375.1
45°	319.7	325.1	335.7	351.1	352.9
47.5°	295.6	301.3	311.7	327.0	330.1
50°	272.0	277.2	287.6	302.5	307.2
52.5°	247.5	253.1	263.3	277.0	283.8
55°	223.9	227.7	238.8	252.0	259.3
57.5°	199.4	202.9	215.4	226.7	234.3
60°	175.8	180.2	189.9	201.5	210.2
62.5°	153.1	157.8	166.1	176.2	186.1
65°	131.2	134.7	142.7	152.9	161.6
67.5°	109.9	113.0	121.0	128.1	137.3
70°	88.5	92.5	98.4	105.2	111.1
72.5°	71.2	72.9	77.9	82.8	88.9
75°	52.6	55.4	59.5	62.3	65.8
77.5°	37.7	39.4	41.8	44.1	47.4
80°	25.2	26.0	28.1	28.5	31.1
82.5°	15.3	15.8	16.3	16.5	17.5
85°	8.3	8.3	8.3	7.8	7.8
87.5°	4.7	4.7	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)