

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: P554399

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-97-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: P554399
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-82-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

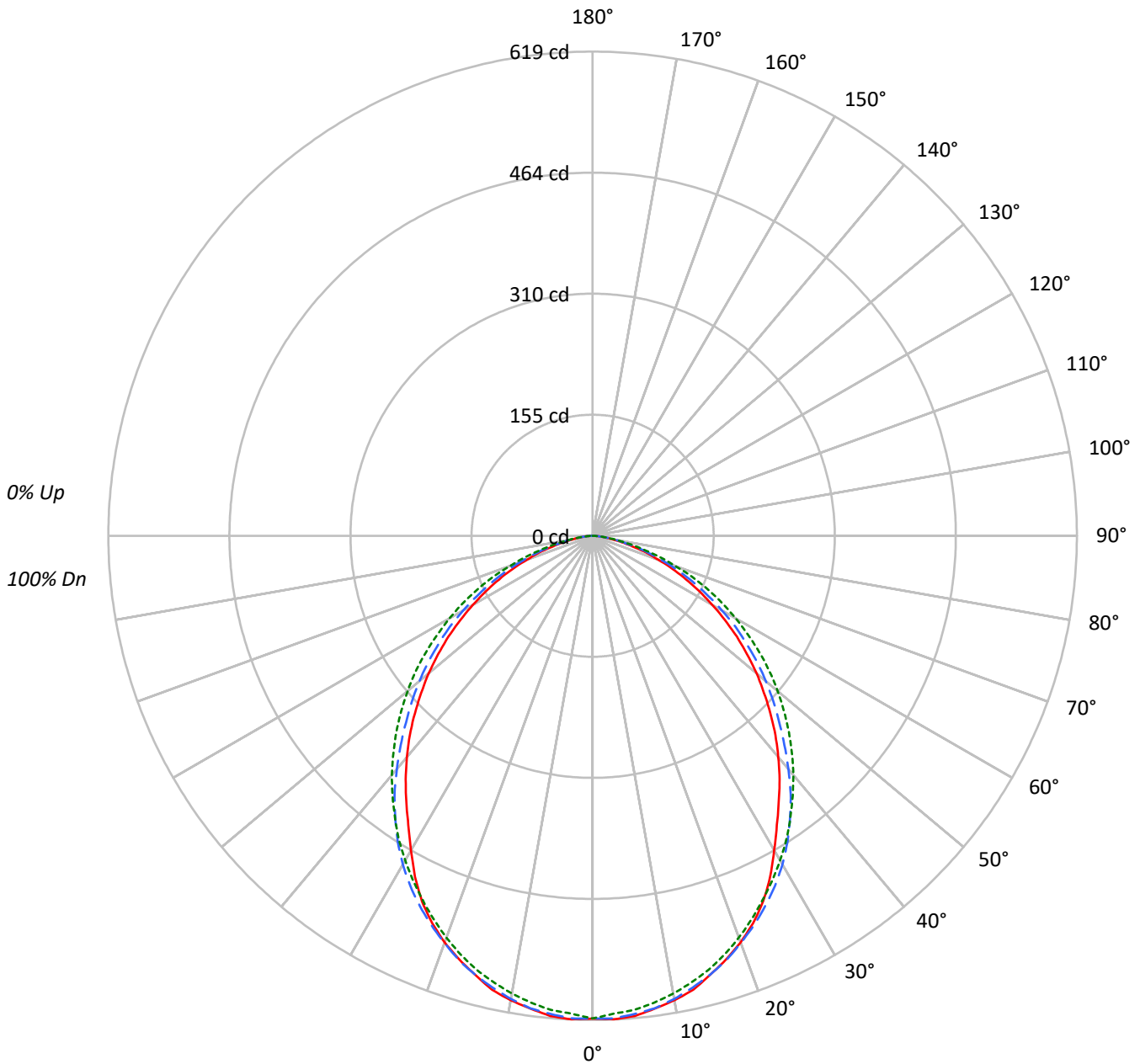
Lumens per Lamp: N/A
Luminaire Lumens: 1427.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3321	3321	3321
5°	3330	3316	3288
10°	3295	3286	3248
15°	3237	3237	3199
20°	3168	3172	3131
25°	3064	3102	3052
30°	2885	3015	2978
35°	2726	2890	2894
40°	2593	2734	2805
45°	2445	2568	2700
50°	2289	2420	2585
55°	2111	2251	2445
60°	1901	2055	2273
65°	1678	1826	2068
70°	1399	1556	1758
75°	1100	1241	1375
80°	787	874	970
85°	513	513	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	4.1
10°-20°	163.2	11.4
20°-30°	238.5	16.7
30°-40°	270.8	19.0
40°-50°	261.4	18.3
50°-60°	215.6	15.1
60°-70°	143.6	10.1
70°-80°	64.3	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°	459.9	32.2
0°-40°	730.6	51.2
0°-60°	1207.7	84.6
0°-90°	1427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	616	616	614	610	609	58
15°	581	582	581	578	574	164
25°	516	520	522	518	514	236
35°	415	421	440	442	440	260
45°	321	327	337	353	355	248
55°	225	229	240	253	261	201
65°	132	135	143	154	162	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°	617.1	617.1	617.1	617.1	617.1
2.5°	618.8	619.0	617.6	613.8	611.5
5°	616.4	616.2	613.8	610.5	608.6
7.5°	609.6	610.0	609.3	604.6	602.0
10°	602.9	603.2	601.3	597.5	594.4
12.5°	594.4	594.1	591.5	589.6	584.7
15°	580.9	582.3	580.9	578.3	574.2
17.5°	567.8	567.8	568.8	564.3	561.2
20°	553.1	553.8	553.8	550.3	546.7
22.5°	536.1	538.2	538.9	535.1	530.8
25°	515.9	519.9	522.3	518.5	514.0
27.5°	491.5	497.6	504.8	501.9	496.9
30°	464.2	473.2	485.1	482.7	479.2
32.5°	438.4	447.4	463.7	462.8	460.9
35°	414.9	420.6	439.8	442.2	440.5
37.5°	392.6	397.8	415.9	421.3	419.9
40°	369.1	374.8	389.1	398.8	399.3
42.5°	345.9	351.4	363.0	377.0	377.0
45°	321.3	326.7	337.4	352.8	354.7
47.5°	297.1	302.8	313.2	328.6	331.7
50°	273.4	278.6	289.0	303.9	308.7
52.5°	248.7	254.4	264.6	278.3	285.2
55°	225.0	228.8	239.9	253.2	260.6
57.5°	200.3	203.9	216.5	227.8	235.4
60°	176.6	181.1	190.9	202.5	211.2
62.5°	153.9	158.6	166.9	177.1	187.1
65°	131.8	135.4	143.4	153.6	162.4
67.5°	110.5	113.6	121.6	128.7	138.0
70°	88.9	92.9	98.9	105.7	111.7
72.5°	71.6	73.3	78.2	83.2	89.4
75°	52.9	55.7	59.7	62.6	66.1
77.5°	37.9	39.6	42.0	44.3	47.7
80°	25.4	26.1	28.2	28.7	31.3
82.5°	15.4	15.9	16.4	16.6	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)