

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: P555031

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-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: P555031
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-LD4-2LO-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

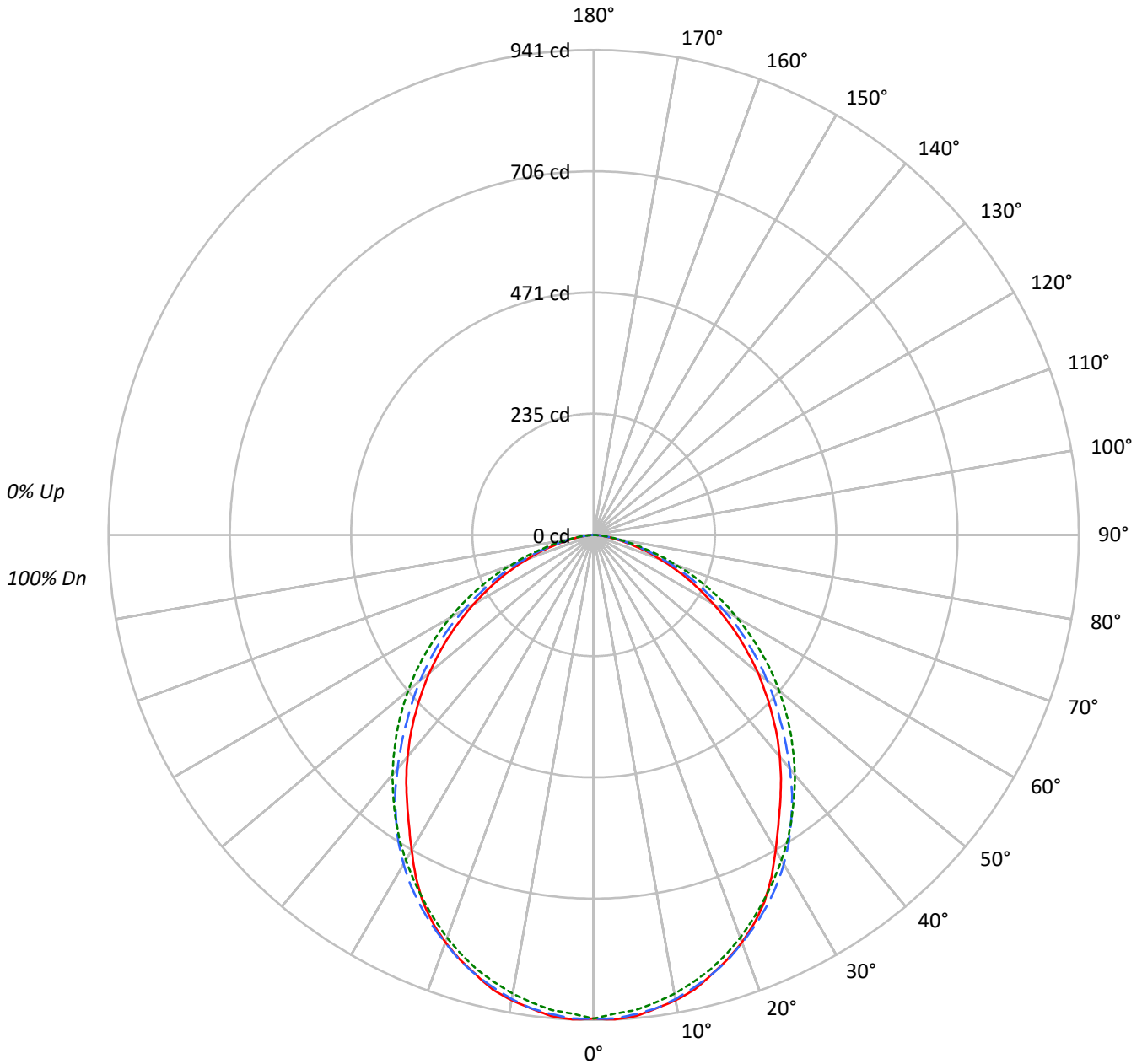
Lumens per Lamp: N/A
Luminaire Lumens: 2170.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5051	5051	5051
5°	5064	5043	5000
10°	5010	4997	4940
15°	4922	4922	4865
20°	4817	4824	4762
25°	4659	4717	4641
30°	4387	4584	4528
35°	4145	4394	4401
40°	3944	4156	4265
45°	3718	3905	4106
50°	3481	3680	3930
55°	3210	3424	3718
60°	2891	3124	3457
65°	2553	2777	3145
70°	2127	2365	2672
75°	1672	1890	2092
80°	1196	1330	1475
85°	778	778	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	4.1
10°-20°	248.2	11.4
20°-30°	362.7	16.7
30°-40°	411.8	19.0
40°-50°	397.5	18.3
50°-60°	327.9	15.1
60°-70°	218.4	10.1
70°-80°	97.7	4.5
80°-90°	17.5	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°	699.3	32.2
0°-40°	1111.1	51.2
0°-60°	1836.5	84.6
0°-90°	2170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	937	937	933	928	926	89
15°	883	886	883	879	873	249
25°	784	791	794	788	782	359
35°	631	640	669	672	670	395
45°	488	497	513	536	539	377
55°	342	348	365	385	396	305
65°	200	206	218	234	247	199
75°	80	85	91	95	101	88
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.5	938.5	938.5	938.5	938.5
2.5°	941.0	941.4	939.2	933.4	929.8
5°	937.4	937.0	933.4	928.4	925.5
7.5°	926.9	927.7	926.6	919.4	915.4
10°	916.8	917.2	914.3	908.5	903.9
12.5°	903.9	903.5	899.5	896.6	889.1
15°	883.3	885.5	883.3	879.3	873.2
17.5°	863.5	863.5	864.9	858.1	853.4
20°	841.1	842.2	842.2	836.8	831.4
22.5°	815.2	818.4	819.5	813.7	807.2
25°	784.5	790.7	794.3	788.5	781.6
27.5°	747.4	756.8	767.6	763.2	755.7
30°	705.9	719.6	737.7	734.0	728.6
32.5°	666.6	680.3	705.2	703.8	700.9
35°	630.9	639.6	668.8	672.4	669.9
37.5°	597.0	605.0	632.4	640.7	638.5
40°	561.4	570.0	591.6	606.4	607.1
42.5°	526.0	534.3	552.0	573.2	573.2
45°	488.5	496.8	513.0	536.5	539.4
47.5°	451.7	460.4	476.3	499.7	504.4
50°	415.7	423.6	439.5	462.2	469.4
52.5°	378.2	386.9	402.4	423.3	433.7
55°	342.1	347.9	364.9	385.0	396.2
57.5°	304.7	310.1	329.2	346.5	358.0
60°	268.6	275.4	290.2	307.9	321.2
62.5°	234.0	241.2	253.8	269.3	284.5
65°	200.5	205.9	218.1	233.6	247.0
67.5°	168.0	172.7	185.0	195.8	209.8
70°	135.2	141.3	150.3	160.8	169.8
72.5°	108.9	111.4	119.0	126.5	135.9
75°	80.4	84.7	90.9	95.2	100.6
77.5°	57.7	60.2	63.8	67.4	72.5
80°	38.6	39.7	42.9	43.6	47.6
82.5°	23.4	24.2	24.9	25.2	26.7
85°	12.6	12.6	12.6	11.9	11.9
87.5°	7.2	7.2	6.1	5.0	3.6
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)