

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: P554867

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-85-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: P554867
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-30-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

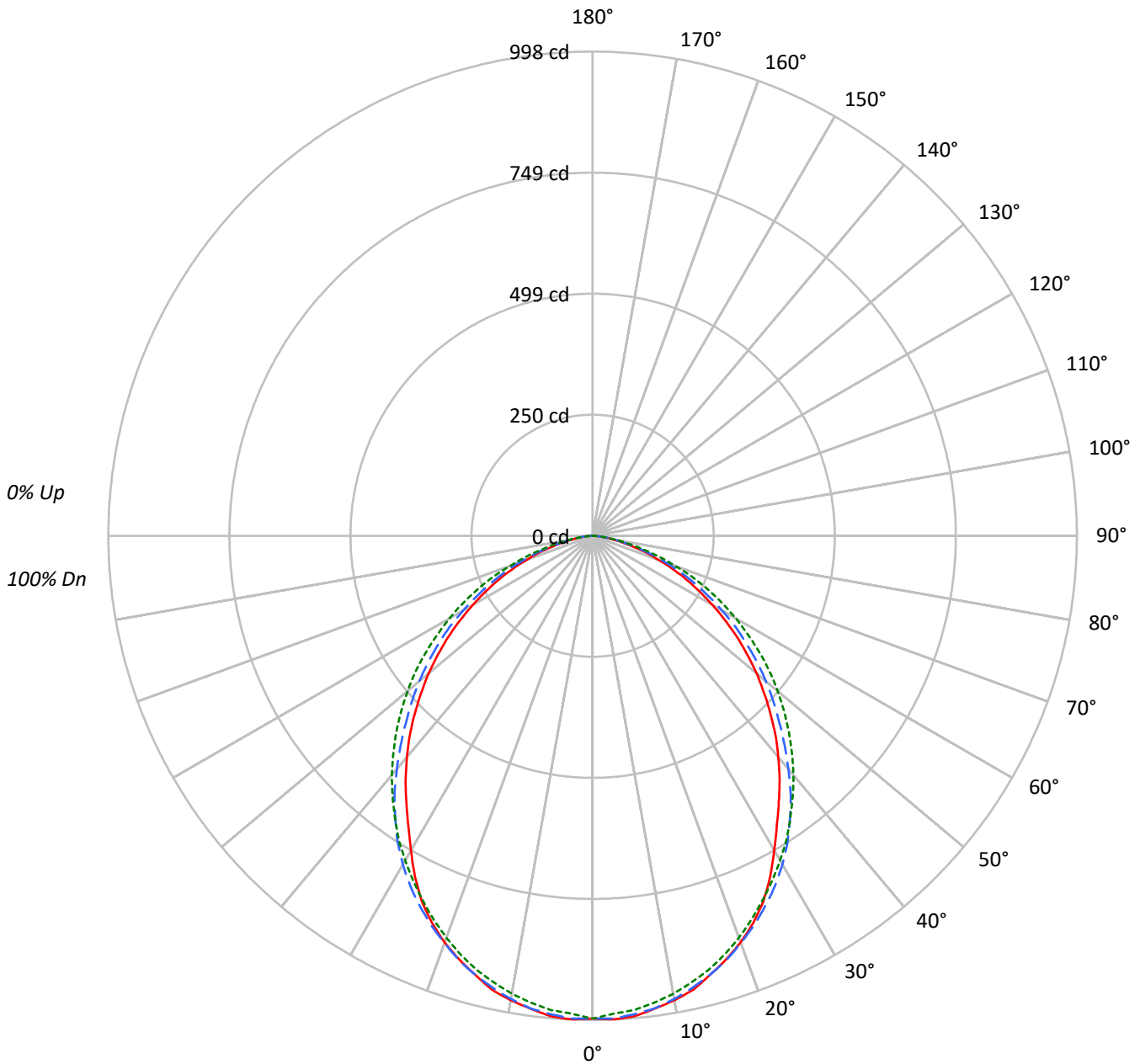
Lumens per Lamp: N/A
Luminaire Lumens: 2301.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5356	5356	5356
5°	5370	5347	5302
10°	5313	5298	5238
15°	5219	5219	5159
20°	5108	5115	5049
25°	4940	5001	4922
30°	4652	4861	4801
35°	4395	4660	4667
40°	4182	4408	4523
45°	3943	4141	4353
50°	3691	3902	4168
55°	3404	3630	3942
60°	3066	3313	3666
65°	2707	2946	3335
70°	2257	2508	2834
75°	1774	2002	2219
80°	1268	1410	1565
85°	827	827	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	4.1
10°-20°	263.2	11.4
20°-30°	384.6	16.7
30°-40°	436.6	19.0
40°-50°	421.5	18.3
50°-60°	347.7	15.1
60°-70°	231.5	10.1
70°-80°	103.6	4.5
80°-90°	18.5	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°	741.5	32.2
0°-40°	1178.2	51.2
0°-60°	1947.3	84.6
0°-90°	2301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	994	994	990	984	981	94
15°	937	939	937	932	926	264
25°	832	838	842	836	829	381
35°	669	678	709	713	710	419
45°	518	527	544	569	572	400
55°	363	369	387	408	420	324
65°	213	218	231	248	262	211
75°	85	90	96	101	107	93
85°	13	13	13	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.1	995.1	995.1	995.1	995.1
2.5°	997.8	998.2	995.9	989.8	985.9
5°	994.0	993.6	989.8	984.4	981.4
7.5°	982.9	983.7	982.5	974.9	970.7
10°	972.2	972.6	969.5	963.4	958.4
12.5°	958.4	958.0	953.8	950.8	942.7
15°	936.6	938.9	936.6	932.4	925.9
17.5°	915.6	915.6	917.1	909.9	904.9
20°	891.9	893.0	893.0	887.3	881.6
22.5°	864.4	867.8	869.0	862.8	856.0
25°	831.9	838.4	842.2	836.1	828.8
27.5°	792.5	802.4	813.9	809.3	801.3
30°	748.5	763.1	782.2	778.4	772.6
32.5°	706.9	721.4	747.8	746.2	743.2
35°	669.0	678.2	709.2	713.0	710.3
37.5°	633.1	641.5	670.6	679.3	677.1
40°	595.2	604.4	627.4	643.0	643.8
42.5°	557.8	566.6	585.3	607.9	607.9
45°	518.0	526.8	544.0	568.9	571.9
47.5°	479.0	488.2	505.0	529.9	534.8
50°	440.8	449.2	466.0	490.1	497.8
52.5°	401.0	410.2	426.6	448.8	459.9
55°	362.8	368.9	386.9	408.3	420.1
57.5°	323.0	328.8	349.0	367.4	379.6
60°	284.8	292.1	307.8	326.5	340.6
62.5°	248.1	255.8	269.1	285.6	301.6
65°	212.6	218.3	231.3	247.7	261.9
67.5°	178.2	183.1	196.1	207.6	222.5
70°	143.4	149.9	159.4	170.5	180.1
72.5°	115.5	118.1	126.2	134.2	144.1
75°	85.3	89.8	96.3	100.9	106.7
77.5°	61.2	63.8	67.7	71.5	76.8
80°	40.9	42.1	45.5	46.3	50.5
82.5°	24.8	25.6	26.4	26.8	28.3
85°	13.4	13.4	13.4	12.6	12.6
87.5°	7.6	7.6	6.5	5.4	3.8
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)