

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: P554899

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-82-85-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: P554899
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

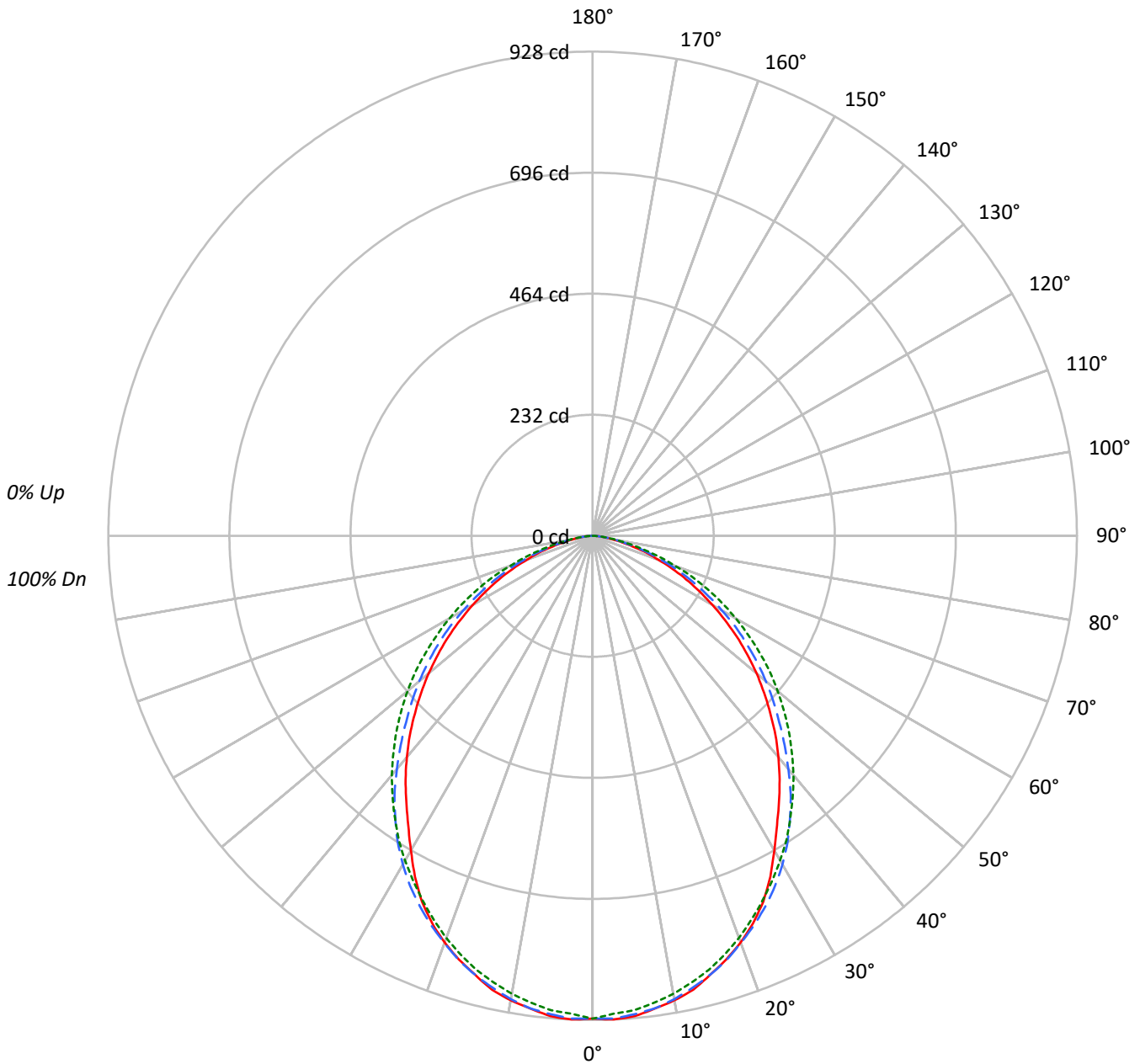
Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4981	4981	4981
5°	4994	4973	4931
10°	4941	4928	4871
15°	4854	4854	4798
20°	4751	4757	4696
25°	4594	4651	4577
30°	4327	4521	4466
35°	4088	4333	4340
40°	3889	4099	4206
45°	3667	3851	4048
50°	3432	3629	3876
55°	3166	3376	3666
60°	2851	3081	3410
65°	2518	2739	3102
70°	2098	2334	2636
75°	1649	1863	2063
80°	1178	1311	1454
85°	766	766	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	4.1
10°-20°	244.8	11.4
20°-30°	357.7	16.7
30°-40°	406.1	19.0
40°-50°	392.0	18.3
50°-60°	323.4	15.1
60°-70°	215.3	10.1
70°-80°	96.4	4.5
80°-90°	17.2	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°	689.7	32.2
0°-40°	1095.7	51.2
0°-60°	1811.1	84.6
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	924	924	920	916	913	87
15°	871	873	871	867	861	246
25°	774	780	783	778	771	354
35°	622	631	660	663	661	390
45°	482	490	506	529	532	372
55°	337	343	360	380	391	301
65°	198	203	215	230	244	196
75°	79	84	90	94	99	87
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.5	925.5	925.5	925.5	925.5
2.5°	928.0	928.3	926.2	920.5	917.0
5°	924.4	924.1	920.5	915.5	912.7
7.5°	914.1	914.8	913.8	906.7	902.7
10°	904.2	904.5	901.7	896.0	891.4
12.5°	891.4	891.0	887.1	884.3	876.8
15°	871.1	873.2	871.1	867.2	861.1
17.5°	851.5	851.5	853.0	846.2	841.6
20°	829.5	830.6	830.6	825.2	819.9
22.5°	803.9	807.1	808.2	802.5	796.1
25°	773.7	779.7	783.3	777.6	770.8
27.5°	737.1	746.3	757.0	752.7	745.2
30°	696.2	709.7	727.5	723.9	718.6
32.5°	657.4	670.9	695.5	694.0	691.2
35°	622.2	630.7	659.5	663.1	660.6
37.5°	588.8	596.6	623.6	631.8	629.7
40°	553.6	562.1	583.5	598.0	598.7
42.5°	518.7	526.9	544.3	565.3	565.3
45°	481.8	489.9	505.9	529.1	531.9
47.5°	445.5	454.0	469.7	492.8	497.4
50°	409.9	417.8	433.4	455.8	462.9
52.5°	373.0	381.5	396.8	417.4	427.7
55°	337.4	343.1	359.8	379.7	390.7
57.5°	300.4	305.8	324.6	341.7	353.1
60°	264.9	271.6	286.2	303.6	316.8
62.5°	230.8	237.9	250.3	265.6	280.5
65°	197.7	203.0	215.1	230.4	243.6
67.5°	165.7	170.3	182.4	193.1	206.9
70°	133.3	139.4	148.3	158.6	167.5
72.5°	107.4	109.9	117.3	124.8	134.0
75°	79.3	83.6	89.6	93.9	99.2
77.5°	56.9	59.4	62.9	66.5	71.5
80°	38.0	39.1	42.3	43.0	46.9
82.5°	23.1	23.8	24.5	24.9	26.3
85°	12.4	12.4	12.4	11.7	11.7
87.5°	7.1	7.1	6.0	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)