

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: P554967

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-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: P554967
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

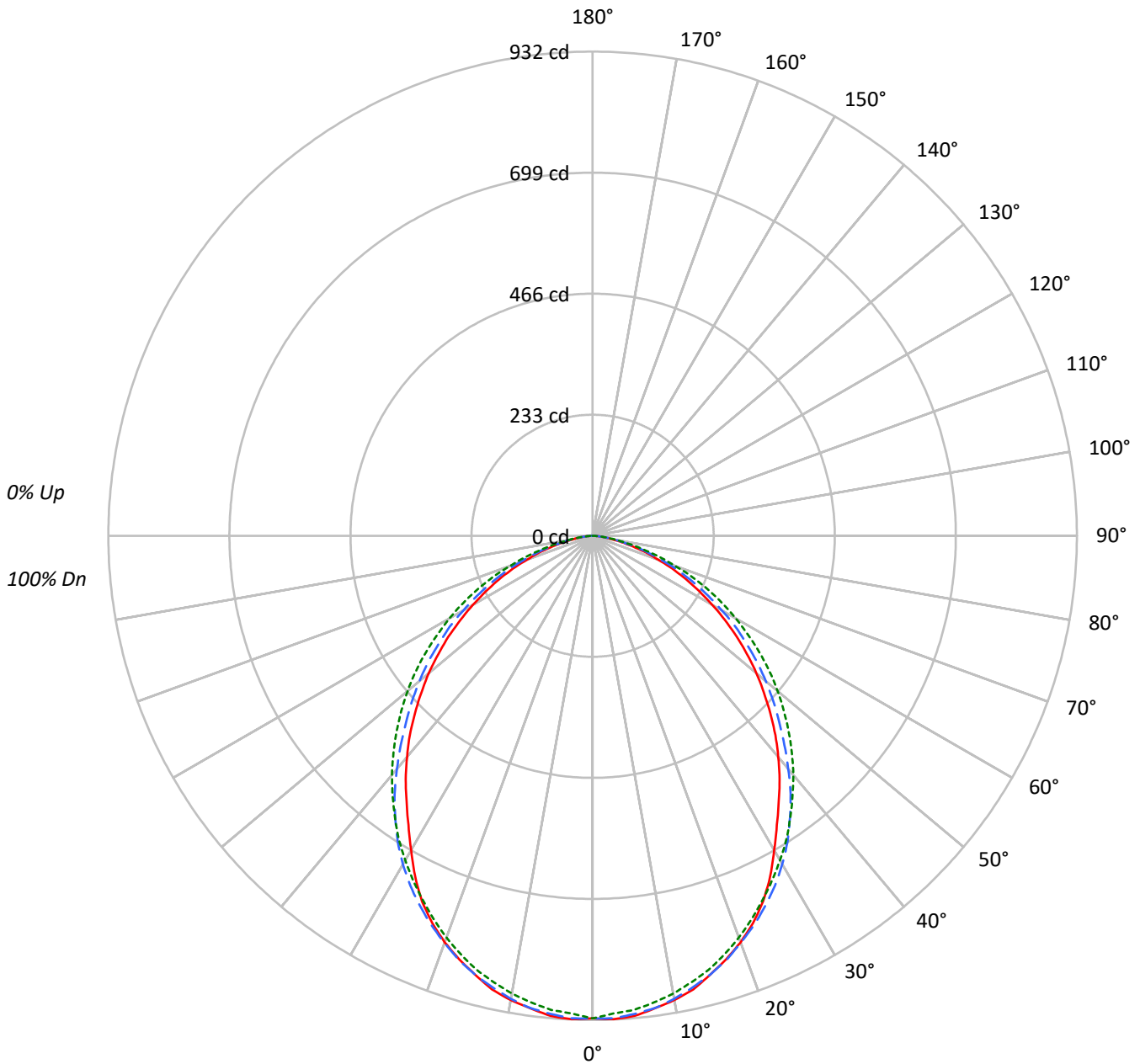
Lumens per Lamp: N/A
Luminaire Lumens: 2148.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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°	5000	5000	5000
5°	5013	4992	4949
10°	4959	4946	4890
15°	4872	4872	4816
20°	4769	4775	4714
25°	4612	4669	4594
30°	4343	4538	4483
35°	4103	4349	4357
40°	3904	4114	4222
45°	3681	3865	4064
50°	3445	3642	3891
55°	3178	3389	3680
60°	2862	3092	3423
65°	2527	2749	3114
70°	2105	2341	2645
75°	1655	1869	2071
80°	1184	1317	1460
85°	772	772	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	4.1
10°-20°	245.7	11.4
20°-30°	359.1	16.7
30°-40°	407.6	19.0
40°-50°	393.4	18.3
50°-60°	324.6	15.1
60°-70°	216.1	10.1
70°-80°	96.7	4.5
80°-90°	17.3	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°	692.2	32.2
0°-40°	1099.8	51.2
0°-60°	1817.8	84.6
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	928	928	924	919	916	88
15°	874	876	874	870	864	246
25°	777	783	786	780	774	356
35°	624	633	662	666	663	391
45°	484	492	508	531	534	373
55°	339	344	361	381	392	302
65°	198	204	216	231	244	197
75°	80	84	90	94	100	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°	929.0	929.0	929.0	929.0	929.0
2.5°	931.5	931.8	929.7	924.0	920.4
5°	927.9	927.5	924.0	919.0	916.1
7.5°	917.5	918.2	917.2	910.0	906.1
10°	907.5	907.9	905.0	899.3	894.7
12.5°	894.7	894.3	890.4	887.6	880.1
15°	874.4	876.5	874.4	870.4	864.4
17.5°	854.7	854.7	856.2	849.4	844.7
20°	832.6	833.7	833.7	828.3	823.0
22.5°	806.9	810.1	811.2	805.5	799.1
25°	776.6	782.6	786.2	780.5	773.7
27.5°	739.8	749.1	759.8	755.5	748.0
30°	698.8	712.3	730.2	726.6	721.3
32.5°	659.9	673.4	698.1	696.6	693.8
35°	624.5	633.1	662.0	665.6	663.1
37.5°	591.0	598.8	626.0	634.2	632.0
40°	555.7	564.2	585.6	600.3	601.0
42.5°	520.7	528.9	546.4	567.4	567.4
45°	483.6	491.8	507.8	531.0	533.9
47.5°	447.2	455.7	471.4	494.6	499.3
50°	411.5	419.3	435.0	457.5	464.7
52.5°	374.4	382.9	398.3	419.0	429.3
55°	338.7	344.4	361.2	381.1	392.2
57.5°	301.6	306.9	325.8	343.0	354.4
60°	265.9	272.7	287.3	304.8	318.0
62.5°	231.6	238.8	251.2	266.6	281.6
65°	198.4	203.8	215.9	231.3	244.5
67.5°	166.3	170.9	183.1	193.8	207.7
70°	133.8	139.9	148.8	159.2	168.1
72.5°	107.8	110.3	117.8	125.3	134.5
75°	79.6	83.9	89.9	94.2	99.6
77.5°	57.1	59.6	63.2	66.7	71.7
80°	38.2	39.3	42.5	43.2	47.1
82.5°	23.2	23.9	24.6	25.0	26.4
85°	12.5	12.5	12.5	11.8	11.8
87.5°	7.1	7.1	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)