

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: P555752

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-88-EDD-90**

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: P555752
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-LD4-3LO-35-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

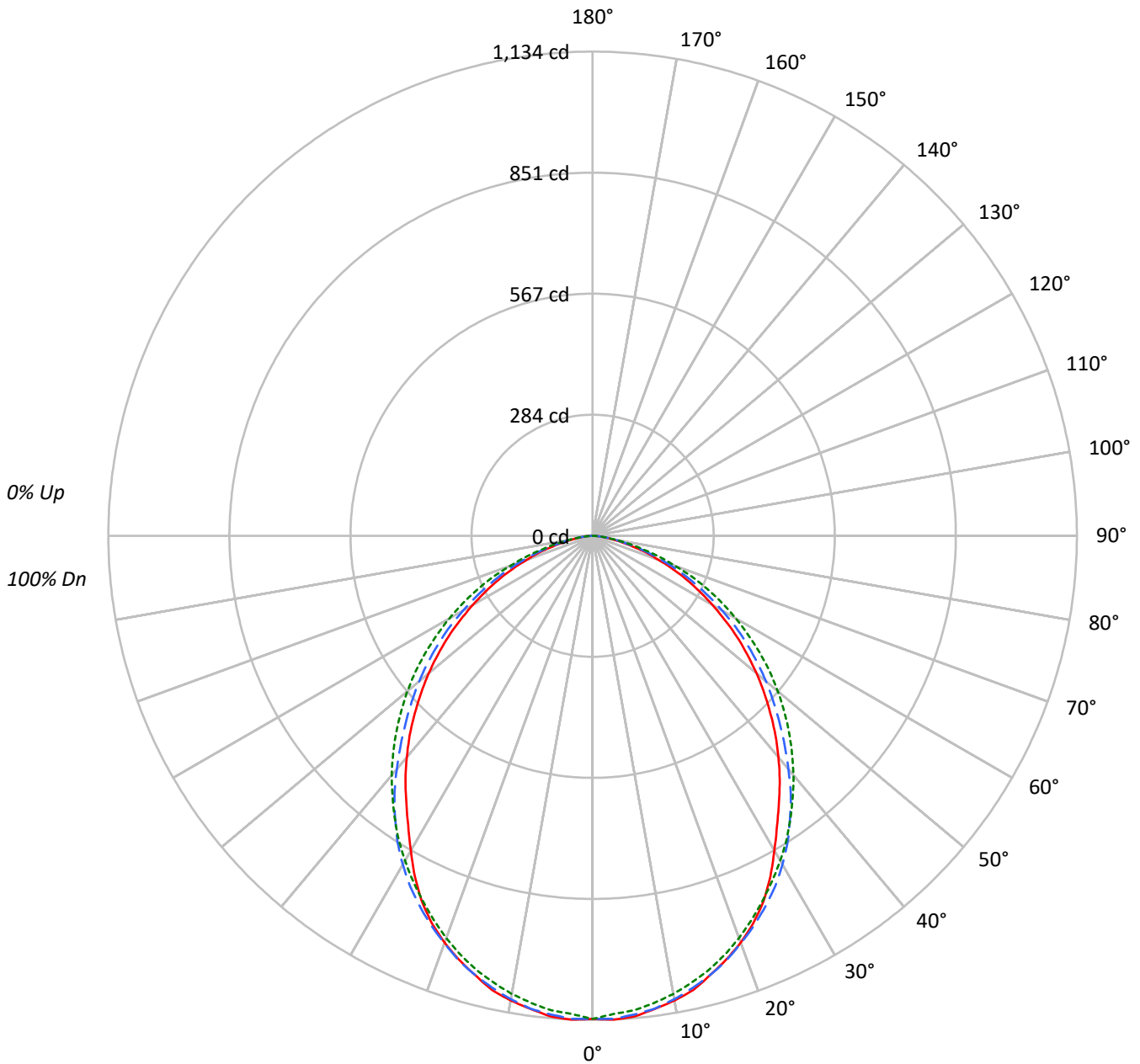
Lumens per Lamp: N/A
Luminaire Lumens: 2616.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6089	6089	6089
5°	6105	6079	6028
10°	6040	6024	5955
15°	5933	5933	5865
20°	5808	5815	5741
25°	5616	5686	5596
30°	5289	5527	5459
35°	4997	5297	5306
40°	4754	5011	5142
45°	4482	4708	4949
50°	4196	4436	4738
55°	3871	4127	4482
60°	3485	3766	4169
65°	3078	3349	3791
70°	2565	2851	3221
75°	2015	2277	2522
80°	1441	1602	1779
85°	939	939	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	4.1
10°-20°	299.2	11.4
20°-30°	437.3	16.7
30°-40°	496.4	19.0
40°-50°	479.2	18.3
50°-60°	395.3	15.1
60°-70°	263.2	10.1
70°-80°	117.8	4.5
80°-90°	21.1	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°	843.1	32.2
0°-40°	1339.4	51.2
0°-60°	2213.9	84.6
0°-90°	2616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1130	1130	1125	1119	1116	107
15°	1065	1068	1065	1060	1053	300
25°	946	953	958	950	942	433
35°	761	771	806	811	808	477
45°	589	599	618	647	650	454
55°	412	419	440	464	478	368
65°	242	248	263	282	298	240
75°	97	102	110	115	121	106
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.4	1131.4	1131.4	1131.4	1131.4
2.5°	1134.4	1134.8	1132.2	1125.3	1120.9
5°	1130.0	1129.6	1125.3	1119.2	1115.7
7.5°	1117.4	1118.3	1117.0	1108.3	1103.5
10°	1105.3	1105.7	1102.2	1095.3	1089.6
12.5°	1089.6	1089.2	1084.4	1080.9	1071.8
15°	1064.9	1067.5	1064.9	1060.1	1052.7
17.5°	1040.9	1040.9	1042.7	1034.4	1028.8
20°	1014.0	1015.3	1015.3	1008.8	1002.3
22.5°	982.7	986.6	987.9	981.0	973.1
25°	945.8	953.2	957.5	950.5	942.3
27.5°	901.0	912.3	925.3	920.1	911.0
30°	851.0	867.5	889.3	884.9	878.4
32.5°	803.6	820.2	850.1	848.4	844.9
35°	760.6	771.0	806.2	810.6	807.6
37.5°	719.8	729.3	762.3	772.3	769.7
40°	676.7	687.2	713.2	731.1	731.9
42.5°	634.1	644.1	665.4	691.1	691.1
45°	588.9	598.9	618.5	646.7	650.2
47.5°	544.6	555.0	574.2	602.4	608.1
50°	501.1	510.7	529.8	557.2	565.9
52.5°	455.9	466.4	485.1	510.3	522.9
55°	412.5	419.4	439.8	464.2	477.7
57.5°	367.3	373.8	396.8	417.7	431.6
60°	323.8	332.1	349.9	371.2	387.3
62.5°	282.1	290.8	306.0	324.7	342.9
65°	241.7	248.2	263.0	281.6	297.7
67.5°	202.5	208.2	223.0	236.0	253.0
70°	163.0	170.4	181.2	193.8	204.7
72.5°	131.3	134.3	143.4	152.6	163.9
75°	96.9	102.1	109.5	114.7	121.3
77.5°	69.5	72.6	76.9	81.3	87.4
80°	46.5	47.8	51.7	52.6	57.4
82.5°	28.3	29.1	30.0	30.4	32.2
85°	15.2	15.2	15.2	14.3	14.3
87.5°	8.7	8.7	7.4	6.1	4.3
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)