

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: P555686

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-87-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: P555686
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-30-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

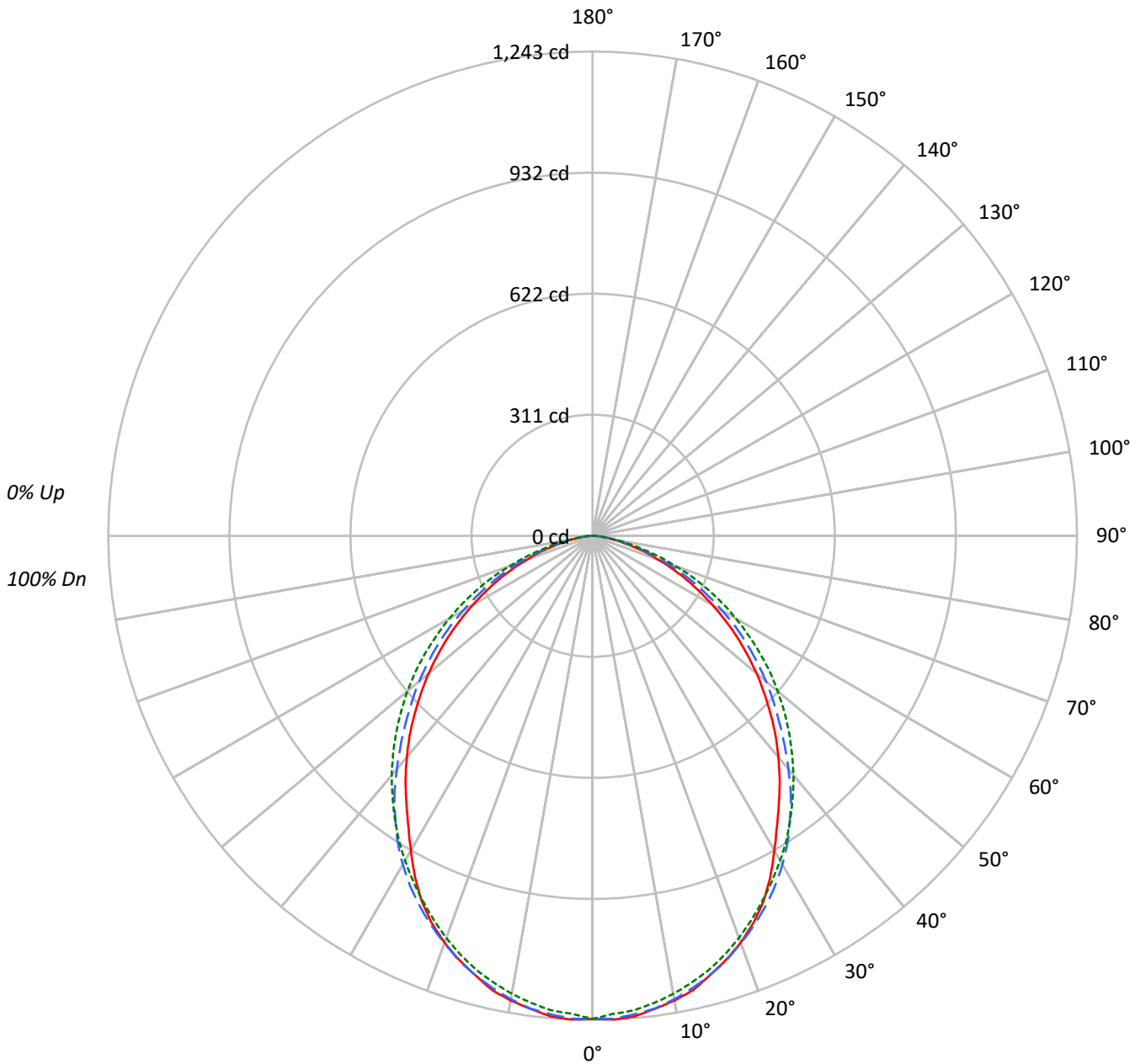
Lumens per Lamp: N/A
Luminaire Lumens: 2867.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P555686

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-93-87-EDD-90

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°	6673	6673	6673
5°	6691	6662	6606
10°	6620	6602	6526
15°	6502	6502	6428
20°	6365	6373	6291
25°	6155	6232	6133
30°	5796	6057	5983
35°	5477	5805	5815
40°	5211	5492	5636
45°	4912	5159	5424
50°	4598	4862	5193
55°	4241	4524	4912
60°	3820	4128	4568
65°	3372	3670	4155
70°	2810	3125	3531
75°	2208	2495	2764
80°	1581	1757	1949
85°	1031	1031	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	4.1
10°-20°	328.0	11.4
20°-30°	479.3	16.7
30°-40°	544.0	19.0
40°-50°	525.2	18.3
50°-60°	433.2	15.1
60°-70°	288.5	10.1
70°-80°	129.1	4.5
80°-90°	23.1	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°	923.9	32.2
0°-40°	1468.0	51.2
0°-60°	2426.3	84.6
0°-90°	2867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1238	1238	1233	1227	1223	117
15°	1167	1170	1167	1162	1154	329
25°	1036	1045	1049	1042	1033	475
35°	834	845	884	888	885	522
45°	645	656	678	709	713	498
55°	452	460	482	509	524	403
65°	265	272	288	309	326	263
75°	106	112	120	126	133	116
85°	17	17	17	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1243.2	1243.7	1240.9	1233.2	1228.5
5°	1238.5	1238.0	1233.2	1226.6	1222.8
7.5°	1224.7	1225.6	1224.2	1214.7	1209.4
10°	1211.3	1211.8	1208.0	1200.4	1194.2
12.5°	1194.2	1193.7	1188.5	1184.6	1174.6
15°	1167.0	1169.9	1167.0	1161.8	1153.7
17.5°	1140.8	1140.8	1142.7	1133.7	1127.5
20°	1111.3	1112.7	1112.7	1105.6	1098.4
22.5°	1077.0	1081.3	1082.7	1075.1	1066.5
25°	1036.5	1044.6	1049.4	1041.7	1032.7
27.5°	987.4	999.8	1014.1	1008.4	998.4
30°	932.7	950.8	974.6	969.8	962.7
32.5°	880.7	898.8	931.7	929.8	926.0
35°	833.6	845.0	883.6	888.4	885.0
37.5°	788.8	799.3	835.5	846.4	843.6
40°	741.7	753.1	781.7	801.2	802.2
42.5°	695.0	705.9	729.3	757.4	757.4
45°	645.4	656.4	677.8	708.8	712.6
47.5°	596.8	608.3	629.2	660.2	666.4
50°	549.2	559.7	580.7	610.7	620.2
52.5°	499.7	511.1	531.6	559.2	573.0
55°	452.0	459.7	482.1	508.7	523.5
57.5°	402.5	409.6	434.9	457.8	473.0
60°	354.9	363.9	383.5	406.8	424.4
62.5°	309.1	318.7	335.3	355.8	375.8
65°	264.8	272.0	288.2	308.7	326.3
67.5°	222.0	228.2	244.4	258.7	277.2
70°	178.6	186.7	198.6	212.4	224.4
72.5°	143.9	147.2	157.2	167.2	179.6
75°	106.2	111.9	120.0	125.8	132.9
77.5°	76.2	79.5	84.3	89.1	95.7
80°	51.0	52.4	56.7	57.6	62.9
82.5°	31.0	31.9	32.9	33.3	35.2
85°	16.7	16.7	16.7	15.7	15.7
87.5°	9.5	9.5	8.1	6.7	4.8
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)