

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: P555163

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-82-94-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: P555163
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-LD4-2STD-30-UNV-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

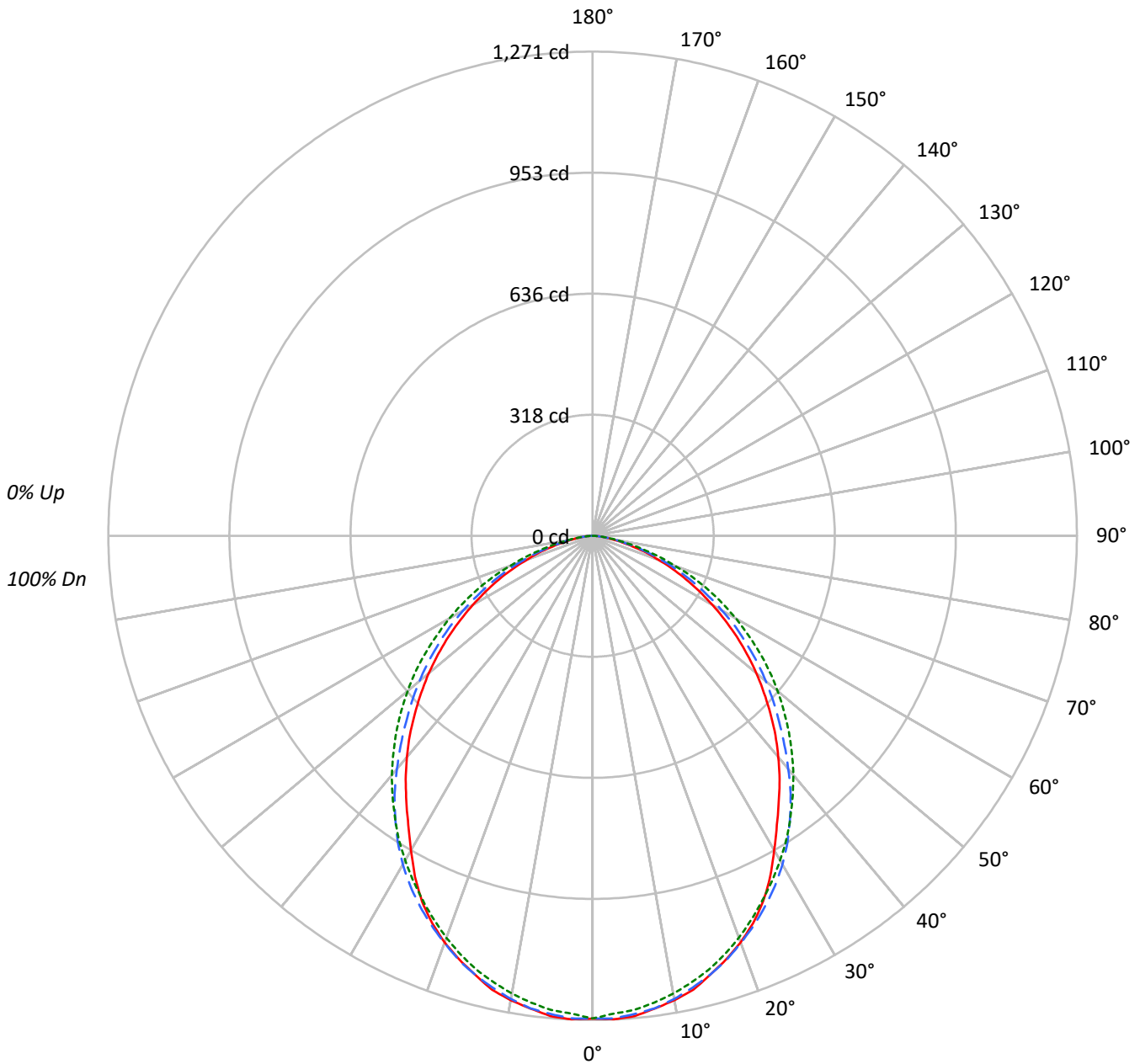
Lumens per Lamp: N/A
Luminaire Lumens: 2930.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6819	6819	6819
5°	6838	6809	6751
10°	6765	6747	6669
15°	6646	6646	6569
20°	6505	6513	6430
25°	6290	6368	6267
30°	5924	6190	6114
35°	5597	5933	5943
40°	5325	5612	5760
45°	5020	5272	5543
50°	4700	4968	5307
55°	4335	4622	5020
60°	3904	4218	4668
65°	3447	3750	4247
70°	2873	3194	3608
75°	2258	2551	2824
80°	1615	1795	1993
85°	1050	1050	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	4.1
10°-20°	335.2	11.4
20°-30°	489.8	16.7
30°-40°	556.0	19.0
40°-50°	536.7	18.3
50°-60°	442.7	15.1
60°-70°	294.8	10.1
70°-80°	131.9	4.5
80°-90°	23.6	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°	944.3	32.2
0°-40°	1500.2	51.2
0°-60°	2479.6	84.6
0°-90°	2930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1266	1265	1260	1254	1250	120
15°	1193	1196	1193	1187	1179	336
25°	1059	1068	1072	1065	1055	485
35°	852	864	903	908	904	534
45°	660	671	693	724	728	509
55°	462	470	493	520	535	412
65°	271	278	294	315	334	268
75°	109	114	123	128	136	119
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1270.6	1271.0	1268.1	1260.3	1255.5
5°	1265.7	1265.2	1260.3	1253.5	1249.6
7.5°	1251.6	1252.5	1251.1	1241.3	1236.0
10°	1237.9	1238.4	1234.5	1226.7	1220.4
12.5°	1220.4	1219.9	1214.6	1210.7	1200.5
15°	1192.7	1195.6	1192.7	1187.3	1179.0
17.5°	1165.9	1165.9	1167.8	1158.6	1152.3
20°	1135.7	1137.2	1137.2	1129.9	1122.6
22.5°	1100.7	1105.0	1106.5	1098.7	1090.0
25°	1059.3	1067.6	1072.4	1064.6	1055.4
27.5°	1009.1	1021.8	1036.4	1030.6	1020.3
30°	953.2	971.7	996.0	991.1	983.8
32.5°	900.1	918.6	952.2	950.2	946.3
35°	851.9	863.6	903.0	907.9	904.5
37.5°	806.1	816.9	853.9	865.0	862.1
40°	758.0	769.6	798.8	818.8	819.8
42.5°	710.2	721.4	745.3	774.0	774.0
45°	659.6	670.8	692.7	724.4	728.3
47.5°	610.0	621.6	643.1	674.7	681.0
50°	561.3	572.0	593.4	624.1	633.8
52.5°	510.7	522.3	543.3	571.5	585.6
55°	462.0	469.8	492.6	519.9	535.0
57.5°	411.3	418.7	444.5	467.8	483.4
60°	362.7	371.9	391.9	415.7	433.7
62.5°	315.9	325.7	342.7	363.6	384.1
65°	270.7	278.0	294.5	315.4	333.5
67.5°	226.9	233.2	249.7	264.3	283.3
70°	182.6	190.8	203.0	217.1	229.3
72.5°	147.0	150.4	160.6	170.9	183.5
75°	108.6	114.4	122.7	128.5	135.8
77.5°	77.9	81.3	86.2	91.0	97.8
80°	52.1	53.5	57.9	58.9	64.3
82.5°	31.6	32.6	33.6	34.1	36.0
85°	17.0	17.0	17.0	16.1	16.1
87.5°	9.7	9.7	8.3	6.8	4.9
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)