

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: P555674

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-94-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: P555674
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-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

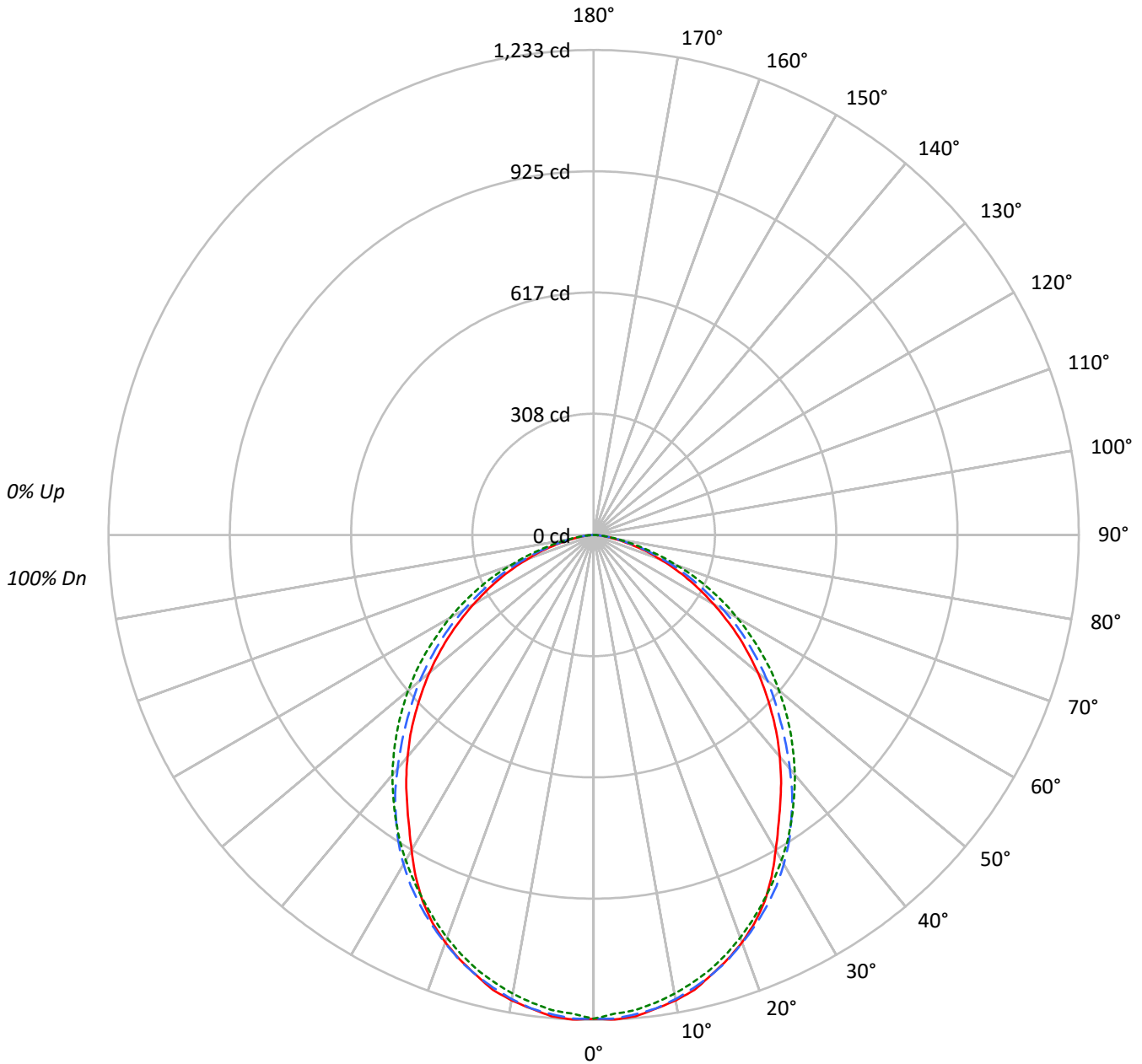
Lumens per Lamp: N/A
Luminaire Lumens: 2844.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6620	6620	6620
5°	6637	6609	6553
10°	6567	6549	6474
15°	6450	6450	6376
20°	6314	6322	6241
25°	6106	6182	6083
30°	5750	6008	5935
35°	5433	5759	5768
40°	5169	5448	5590
45°	4873	5118	5380
50°	4562	4823	5151
55°	4207	4487	4873
60°	3789	4095	4532
65°	3345	3641	4122
70°	2788	3100	3503
75°	2192	2477	2741
80°	1568	1742	1934
85°	1019	1019	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.1
10°-20°	325.3	11.4
20°-30°	475.4	16.7
30°-40°	539.6	19.0
40°-50°	520.9	18.3
50°-60°	429.7	15.1
60°-70°	286.2	10.1
70°-80°	128.1	4.5
80°-90°	22.9	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°	916.5	32.2
0°-40°	1456.2	51.2
0°-60°	2406.9	84.6
0°-90°	2844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1228	1228	1223	1217	1213	116
15°	1158	1160	1158	1152	1144	326
25°	1028	1036	1041	1033	1024	471
35°	827	838	876	881	878	518
45°	640	651	672	703	707	494
55°	448	456	478	505	519	400
65°	263	270	286	306	324	261
75°	105	111	119	125	132	115
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.0	1230.0	1230.0	1230.0	1230.0
2.5°	1233.3	1233.7	1230.9	1223.3	1218.6
5°	1228.5	1228.1	1223.3	1216.7	1212.9
7.5°	1214.8	1215.8	1214.4	1204.9	1199.7
10°	1201.6	1202.1	1198.3	1190.7	1184.6
12.5°	1184.6	1184.1	1178.9	1175.1	1165.2
15°	1157.7	1160.5	1157.7	1152.5	1144.4
17.5°	1131.7	1131.7	1133.6	1124.6	1118.4
20°	1102.4	1103.8	1103.8	1096.7	1089.6
22.5°	1068.4	1072.6	1074.0	1066.5	1058.0
25°	1028.2	1036.2	1041.0	1033.4	1024.4
27.5°	979.5	991.8	1006.0	1000.3	990.4
30°	925.2	943.1	966.8	962.0	955.0
32.5°	873.7	891.6	924.2	922.3	918.6
35°	826.9	838.2	876.5	881.2	877.9
37.5°	782.5	792.9	828.8	839.7	836.8
40°	735.7	747.0	775.4	794.8	795.7
42.5°	689.4	700.3	723.4	751.3	751.3
45°	640.3	651.1	672.4	703.1	706.9
47.5°	592.1	603.4	624.2	654.9	661.0
50°	544.8	555.2	576.0	605.8	615.2
52.5°	495.7	507.0	527.3	554.7	568.4
55°	448.4	456.0	478.2	504.6	519.3
57.5°	399.3	406.4	431.4	454.1	469.2
60°	352.0	361.0	380.4	403.5	421.0
62.5°	306.7	316.1	332.7	353.0	372.8
65°	262.7	269.8	285.9	306.2	323.7
67.5°	220.2	226.3	242.4	256.6	275.0
70°	177.2	185.2	197.0	210.7	222.6
72.5°	142.7	146.0	155.9	165.9	178.1
75°	105.4	111.0	119.1	124.7	131.8
77.5°	75.6	78.9	83.6	88.4	95.0
80°	50.6	52.0	56.2	57.2	62.4
82.5°	30.7	31.7	32.6	33.1	35.0
85°	16.5	16.5	16.5	15.6	15.6
87.5°	9.5	9.5	8.0	6.6	4.7
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)