

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: P555669

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-86-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: P555669
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

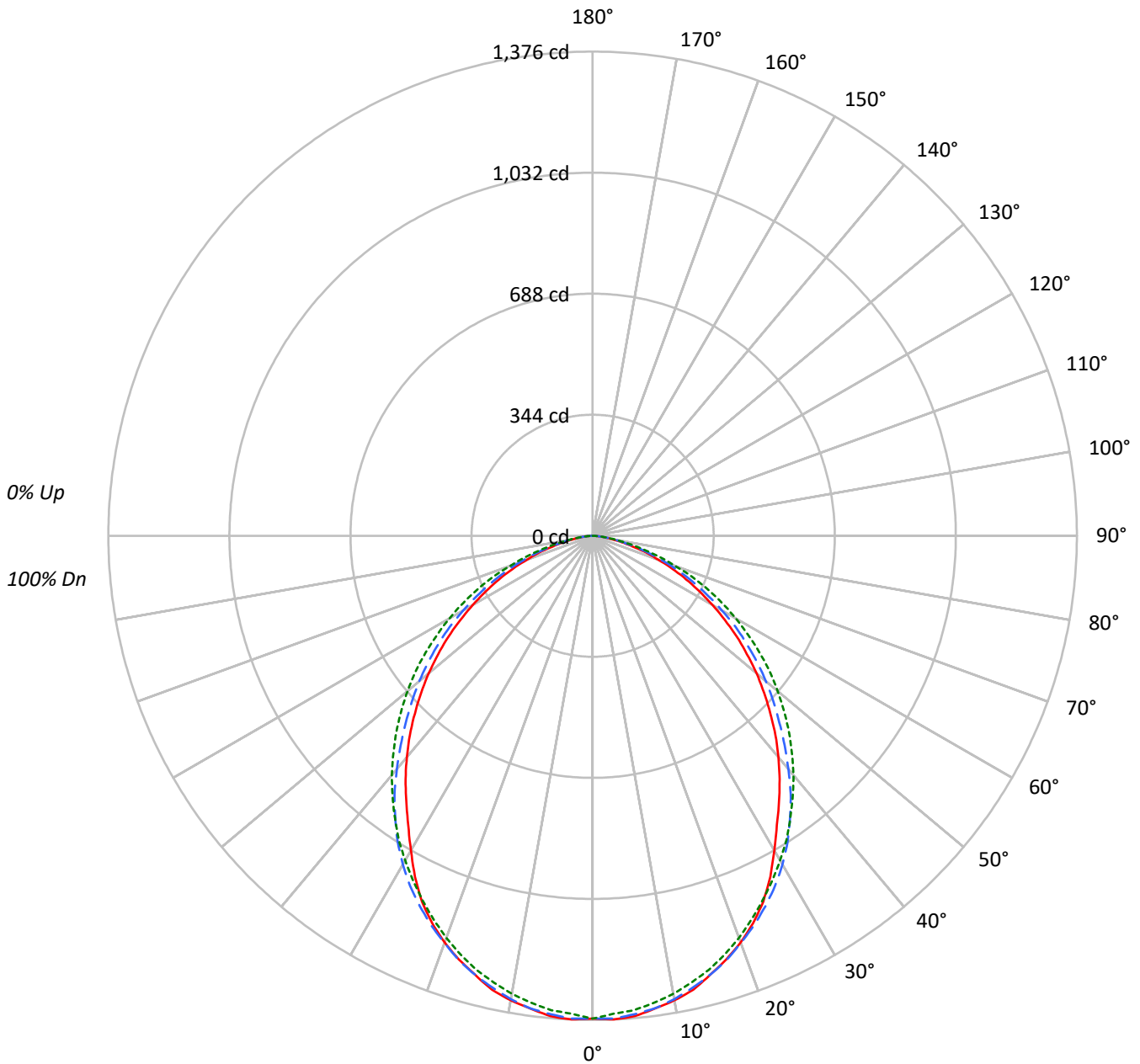
Lumens per Lamp: N/A
Luminaire Lumens: 3173.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	7385	7385	7385
5°	7405	7374	7311
10°	7326	7306	7223
15°	7197	7197	7114
20°	7044	7053	6963
25°	6812	6897	6787
30°	6415	6703	6621
35°	6062	6425	6435
40°	5767	6078	6237
45°	5437	5710	6003
50°	5089	5380	5747
55°	4694	5006	5437
60°	4227	4568	5056
65°	3733	4061	4599
70°	3111	3459	3907
75°	2445	2761	3059
80°	1748	1943	2157
85°	1142	1142	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	4.1
10°-20°	363.0	11.4
20°-30°	530.4	16.7
30°-40°	602.1	19.0
40°-50°	581.2	18.3
50°-60°	479.5	15.1
60°-70°	319.3	10.1
70°-80°	142.9	4.5
80°-90°	25.6	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°	1022.6	32.2
0°-40°	1624.6	51.2
0°-60°	2685.3	84.6
0°-90°	3173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1371	1370	1365	1358	1353	130
15°	1292	1295	1292	1286	1277	364
25°	1147	1156	1161	1153	1143	525
35°	923	935	978	983	980	578
45°	714	726	750	784	789	551
55°	500	509	534	563	579	447
65°	293	301	319	342	361	291
75°	118	124	133	139	147	129
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1375.9	1376.5	1373.3	1364.9	1359.6
5°	1370.7	1370.1	1364.9	1357.5	1353.3
7.5°	1355.4	1356.4	1354.8	1344.3	1338.5
10°	1340.6	1341.1	1336.9	1328.5	1321.6
12.5°	1321.6	1321.1	1315.3	1311.1	1300.0
15°	1291.6	1294.7	1291.6	1285.8	1276.8
17.5°	1262.6	1262.6	1264.7	1254.7	1247.8
20°	1229.9	1231.5	1231.5	1223.6	1215.7
22.5°	1191.9	1196.7	1198.3	1189.8	1180.3
25°	1147.1	1156.1	1161.4	1152.9	1142.9
27.5°	1092.8	1106.5	1122.4	1116.0	1105.0
30°	1032.2	1052.2	1078.6	1073.3	1065.4
32.5°	974.7	994.8	1031.2	1029.0	1024.8
35°	922.6	935.2	977.9	983.2	979.5
37.5°	873.0	884.6	924.7	936.8	933.6
40°	820.8	833.5	865.1	886.7	887.8
42.5°	769.2	781.3	807.1	838.2	838.2
45°	714.3	726.4	750.2	784.4	788.7
47.5°	660.6	673.2	696.4	730.7	737.5
50°	607.8	619.4	642.6	675.8	686.4
52.5°	553.0	565.7	588.3	618.9	634.2
55°	500.3	508.7	533.5	563.0	579.4
57.5°	445.5	453.4	481.3	506.6	523.5
60°	392.7	402.8	424.4	450.2	469.7
62.5°	342.1	352.7	371.1	393.8	415.9
65°	293.1	301.0	318.9	341.6	361.1
67.5°	245.7	252.5	270.4	286.3	306.8
70°	197.7	206.7	219.8	235.1	248.3
72.5°	159.2	162.9	174.0	185.0	198.7
75°	117.6	123.9	132.8	139.2	147.1
77.5°	84.3	88.0	93.3	98.6	106.0
80°	56.4	58.0	62.7	63.8	69.6
82.5°	34.3	35.3	36.4	36.9	39.0
85°	18.5	18.5	18.5	17.4	17.4
87.5°	10.5	10.5	9.0	7.4	5.3
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)