

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: P555229

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-96-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: P555229
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-35-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

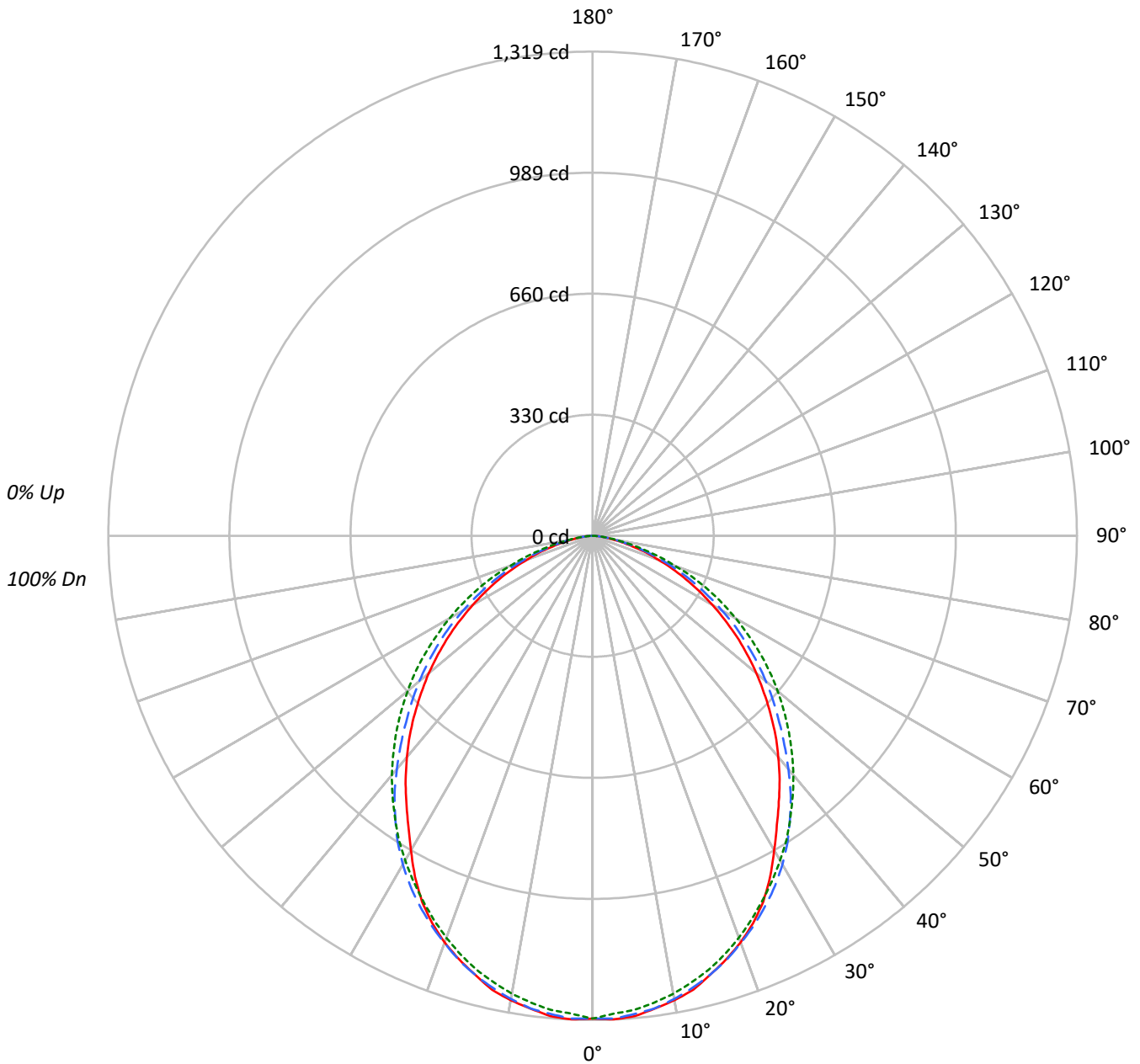
Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7078	7078	7078
5°	7097	7067	7007
10°	7021	7002	6922
15°	6897	6897	6818
20°	6751	6760	6673
25°	6529	6610	6505
30°	6148	6424	6346
35°	5809	6158	6167
40°	5527	5825	5977
45°	5211	5472	5753
50°	4877	5157	5508
55°	4499	4798	5210
60°	4052	4378	4846
65°	3577	3893	4408
70°	2982	3316	3745
75°	2344	2647	2932
80°	1677	1863	2067
85°	1093	1093	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	4.1
10°-20°	347.9	11.4
20°-30°	508.3	16.7
30°-40°	577.0	19.0
40°-50°	557.0	18.3
50°-60°	459.5	15.1
60°-70°	306.0	10.1
70°-80°	136.9	4.5
80°-90°	24.5	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°	980.0	32.2
0°-40°	1557.1	51.2
0°-60°	2573.6	84.6
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1314	1313	1308	1301	1297	124
15°	1238	1241	1238	1232	1224	349
25°	1099	1108	1113	1105	1095	503
35°	884	896	937	942	939	554
45°	685	696	719	752	756	528
55°	480	488	511	540	555	428
65°	281	288	306	327	346	279
75°	113	119	127	133	141	123
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.2	1315.2	1315.2	1315.2	1315.2
2.5°	1318.7	1319.2	1316.2	1308.1	1303.0
5°	1313.6	1313.1	1308.1	1301.0	1297.0
7.5°	1299.0	1300.0	1298.5	1288.4	1282.8
10°	1284.8	1285.3	1281.3	1273.2	1266.7
12.5°	1266.7	1266.1	1260.6	1256.5	1245.9
15°	1237.9	1240.9	1237.9	1232.3	1223.7
17.5°	1210.1	1210.1	1212.1	1202.5	1195.9
20°	1178.7	1180.3	1180.3	1172.7	1165.1
22.5°	1142.4	1146.9	1148.4	1140.3	1131.2
25°	1099.4	1108.0	1113.1	1105.0	1095.4
27.5°	1047.4	1060.5	1075.7	1069.6	1059.0
30°	989.3	1008.5	1033.7	1028.7	1021.1
32.5°	934.2	953.4	988.3	986.2	982.2
35°	884.2	896.3	937.2	942.3	938.7
37.5°	836.7	847.8	886.2	897.8	894.8
40°	786.7	798.8	829.1	849.8	850.8
42.5°	737.2	748.8	773.5	803.3	803.3
45°	684.6	696.2	719.0	751.8	755.8
47.5°	633.1	645.2	667.4	700.3	706.8
50°	582.5	593.7	615.9	647.7	657.8
52.5°	530.0	542.1	563.9	593.2	607.8
55°	479.5	487.6	511.3	539.6	555.3
57.5°	426.9	434.5	461.3	485.5	501.7
60°	376.4	386.0	406.7	431.5	450.2
62.5°	327.9	338.0	355.7	377.4	398.6
65°	280.9	288.5	305.7	327.4	346.1
67.5°	235.4	242.0	259.2	274.3	294.1
70°	189.5	198.1	210.7	225.3	238.0
72.5°	152.6	156.1	166.7	177.3	190.5
75°	112.7	118.7	127.3	133.4	141.0
77.5°	80.8	84.4	89.4	94.5	101.6
80°	54.1	55.6	60.1	61.1	66.7
82.5°	32.8	33.9	34.9	35.4	37.4
85°	17.7	17.7	17.7	16.7	16.7
87.5°	10.1	10.1	8.6	7.1	5.1
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)