

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: P555796

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-86-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: P555796
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-40-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

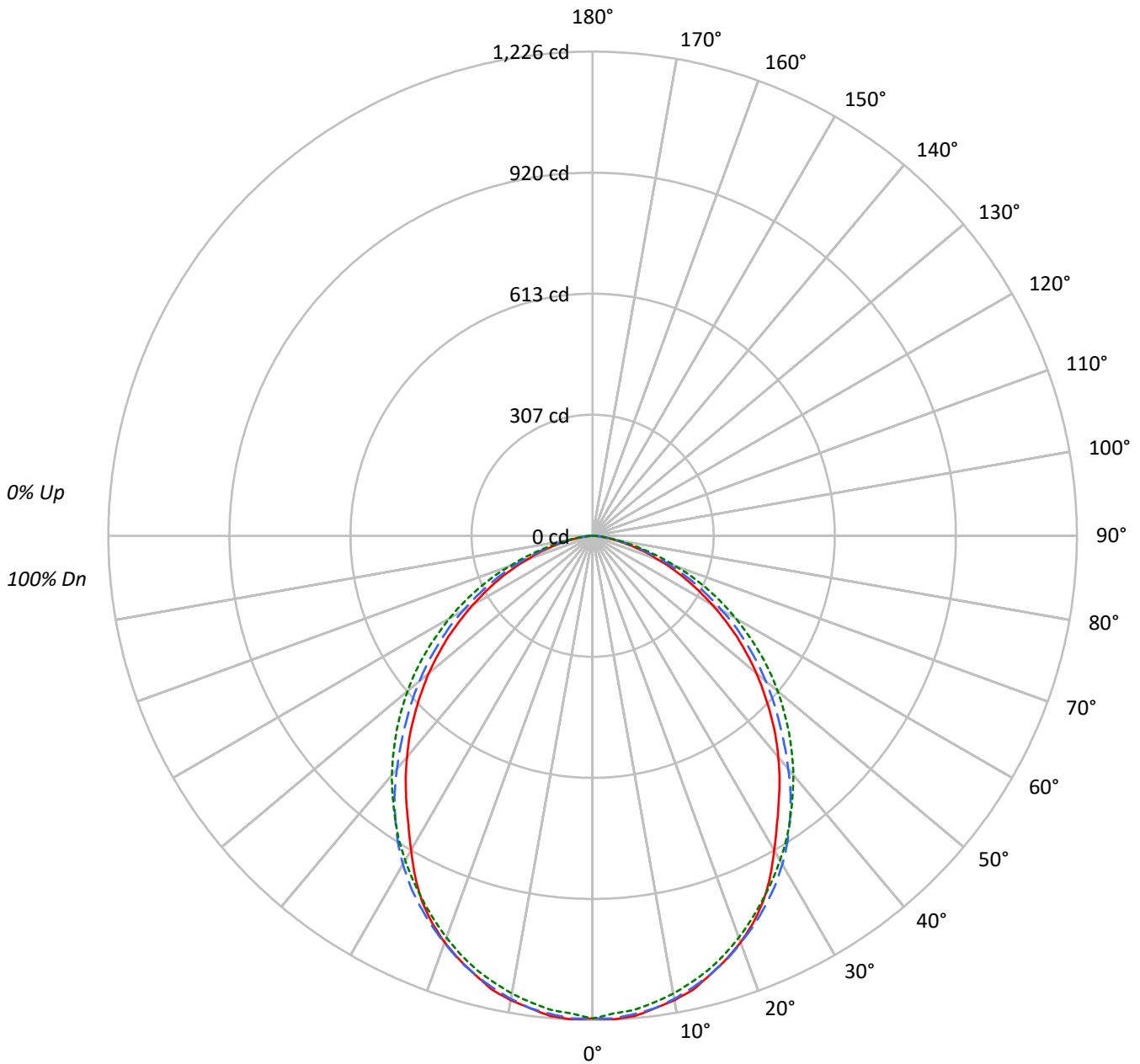
Lumens per Lamp: N/A
Luminaire Lumens: 2826.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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: P555796

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-82-86-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°	6578	6578	6578
5°	6595	6567	6512
10°	6525	6507	6433
15°	6409	6409	6336
20°	6274	6282	6201
25°	6067	6143	6045
30°	5713	5970	5897
35°	5399	5723	5732
40°	5136	5413	5555
45°	4842	5085	5346
50°	4533	4793	5118
55°	4181	4459	4842
60°	3765	4069	4503
65°	3325	3618	4096
70°	2771	3081	3479
75°	2177	2460	2724
80°	1556	1733	1922
85°	1013	1013	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	4.1
10°-20°	323.3	11.4
20°-30°	472.4	16.7
30°-40°	536.2	19.0
40°-50°	517.6	18.3
50°-60°	427.0	15.1
60°-70°	284.4	10.1
70°-80°	127.2	4.5
80°-90°	22.8	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°	910.7	32.2
0°-40°	1447.0	51.2
0°-60°	2391.6	84.6
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1221	1220	1216	1209	1205	116
15°	1150	1153	1150	1145	1137	324
25°	1022	1030	1034	1027	1018	468
35°	822	833	871	876	872	515
45°	636	647	668	699	702	491
55°	446	453	475	502	516	398
65°	261	268	284	304	322	259
75°	105	110	118	124	131	114
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°	1222.2	1222.2	1222.2	1222.2	1222.2
2.5°	1225.5	1225.9	1223.1	1215.6	1210.9
5°	1220.8	1220.3	1215.6	1209.0	1205.3
7.5°	1207.1	1208.1	1206.7	1197.3	1192.1
10°	1194.0	1194.5	1190.7	1183.2	1177.1
12.5°	1177.1	1176.6	1171.5	1167.7	1157.8
15°	1150.3	1153.2	1150.3	1145.2	1137.2
17.5°	1124.5	1124.5	1126.4	1117.5	1111.4
20°	1095.4	1096.8	1096.8	1089.8	1082.7
22.5°	1061.6	1065.8	1067.2	1059.7	1051.3
25°	1021.7	1029.7	1034.4	1026.8	1017.9
27.5°	973.3	985.5	999.6	994.0	984.1
30°	919.3	937.2	960.6	956.0	948.9
32.5°	868.2	886.0	918.4	916.5	912.8
35°	821.7	832.9	871.0	875.7	872.4
37.5°	777.5	787.9	823.5	834.3	831.5
40°	731.0	742.3	770.5	789.7	790.7
42.5°	685.0	695.8	718.8	746.5	746.5
45°	636.2	647.0	668.1	698.7	702.4
47.5°	588.3	599.6	620.2	650.8	656.9
50°	541.4	551.7	572.4	601.9	611.3
52.5°	492.5	503.8	524.0	551.2	564.8
55°	445.6	453.1	475.2	501.5	516.0
57.5°	396.7	403.8	428.7	451.2	466.2
60°	349.8	358.7	378.0	401.0	418.3
62.5°	304.7	314.1	330.5	350.7	370.5
65°	261.1	268.1	284.1	304.3	321.6
67.5°	218.8	224.9	240.9	255.0	273.3
70°	176.1	184.1	195.8	209.4	221.1
72.5°	141.8	145.1	154.9	164.8	177.0
75°	104.7	110.3	118.3	124.0	131.0
77.5°	75.1	78.4	83.1	87.8	94.4
80°	50.2	51.6	55.9	56.8	62.0
82.5°	30.5	31.5	32.4	32.9	34.7
85°	16.4	16.4	16.4	15.5	15.5
87.5°	9.4	9.4	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)