

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: P555700

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-80-86-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: P555700  
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-35-UNV-80-86-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

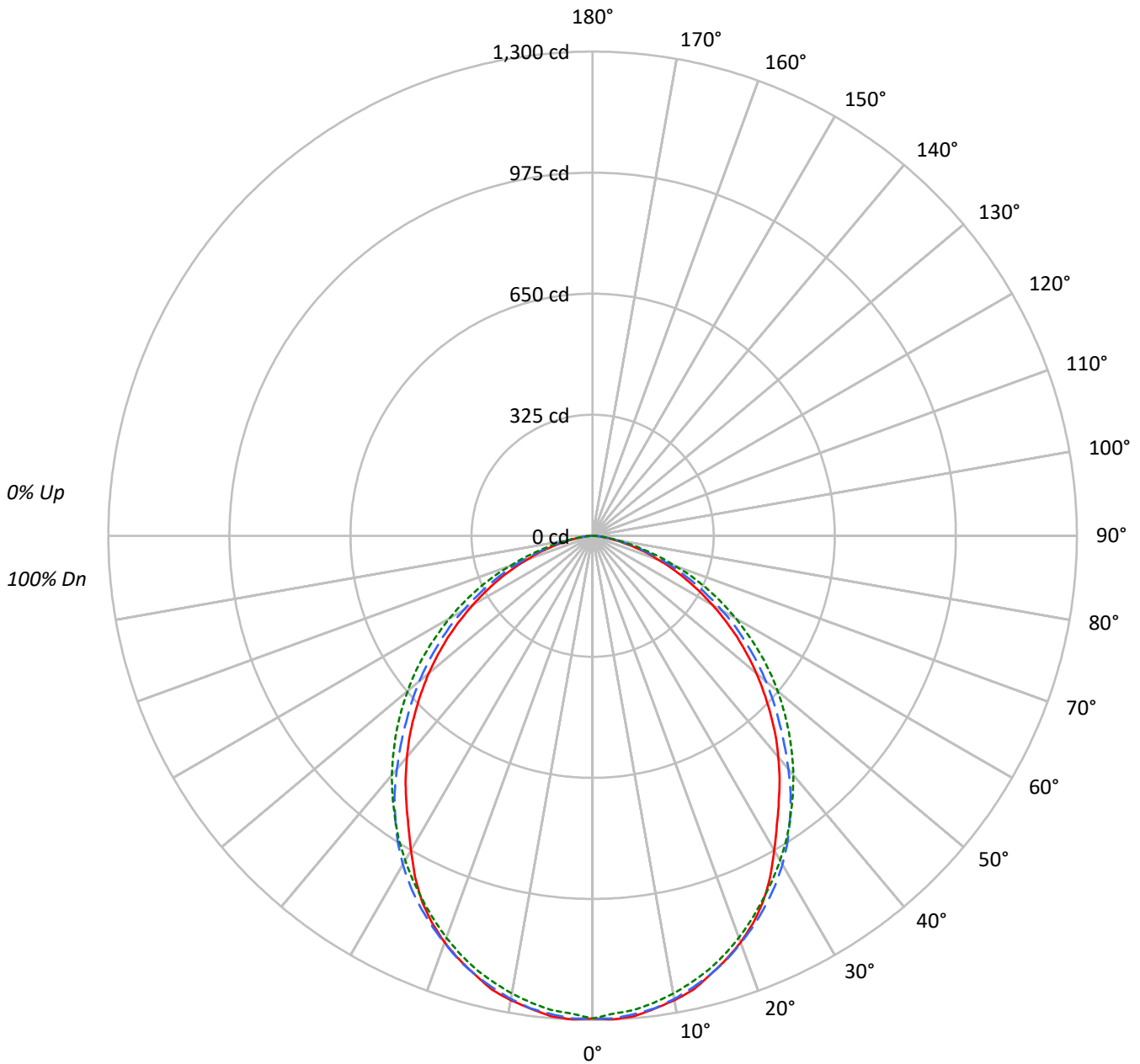
Lumens per Lamp: N/A  
Luminaire Lumens: 2997.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

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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°	6976	6976	6976
5°	6994	6965	6905
10°	6920	6901	6822
15°	6797	6797	6720
20°	6653	6662	6576
25°	6434	6514	6410
30°	6059	6331	6254
35°	5725	6069	6079
40°	5447	5741	5891
45°	5135	5393	5670
50°	4807	5082	5428
55°	4434	4728	5134
60°	3993	4314	4776
65°	3526	3837	4344
70°	2938	3267	3690
75°	2308	2610	2888
80°	1652	1838	2036
85°	1074	1074	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.0	4.1
10°-20°	342.8	11.4
20°-30°	501.0	16.7
30°-40°	568.7	19.0
40°-50°	549.0	18.3
50°-60°	452.9	15.1
60°-70°	301.6	10.1
70°-80°	135.0	4.5
80°-90°	24.2	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°	965.8	32.2
0°-40°	1534.5	51.2
0°-60°	2536.3	84.6
0°-90°	2997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1295	1294	1289	1282	1278	123
15°	1220	1223	1220	1214	1206	344
25°	1084	1092	1097	1089	1080	496
35°	871	883	924	929	925	546
45°	675	686	709	741	745	521
55°	472	480	504	532	547	422
65°	277	284	301	323	341	275
75°	111	117	126	132	139	121
85°	17	17	17	16	16	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1299.6	1300.1	1297.1	1289.2	1284.2
5°	1294.6	1294.1	1289.2	1282.2	1278.2
7.5°	1280.2	1281.2	1279.7	1269.7	1264.3
10°	1266.2	1266.7	1262.8	1254.8	1248.3
12.5°	1248.3	1247.8	1242.3	1238.4	1227.9
15°	1219.9	1222.9	1219.9	1214.5	1206.0
17.5°	1192.6	1192.6	1194.5	1185.1	1178.6
20°	1161.7	1163.2	1163.2	1155.7	1148.2
22.5°	1125.8	1130.3	1131.8	1123.8	1114.9
25°	1083.5	1092.0	1097.0	1089.0	1079.5
27.5°	1032.2	1045.2	1060.1	1054.1	1043.7
30°	975.0	993.9	1018.8	1013.8	1006.3
32.5°	920.7	939.6	974.0	972.0	968.0
35°	871.4	883.3	923.7	928.6	925.2
37.5°	824.6	835.5	873.4	884.8	881.8
40°	775.3	787.2	817.1	837.5	838.5
42.5°	726.5	737.9	762.3	791.7	791.7
45°	674.7	686.2	708.6	740.9	744.9
47.5°	623.9	635.9	657.8	690.1	696.6
50°	574.1	585.1	607.0	638.4	648.3
52.5°	522.3	534.3	555.7	584.6	599.0
55°	472.5	480.5	503.9	531.8	547.2
57.5°	420.8	428.2	454.6	478.5	494.4
60°	371.0	380.4	400.8	425.2	443.7
62.5°	323.2	333.1	350.5	372.0	392.9
65°	276.9	284.3	301.3	322.7	341.1
67.5°	232.0	238.5	255.4	270.4	289.8
70°	186.7	195.2	207.6	222.1	234.5
72.5°	150.4	153.9	164.3	174.8	187.7
75°	111.0	117.0	125.5	131.5	138.9
77.5°	79.7	83.2	88.1	93.1	100.1
80°	53.3	54.8	59.3	60.3	65.7
82.5°	32.4	33.4	34.4	34.9	36.8
85°	17.4	17.4	17.4	16.4	16.4
87.5°	10.0	10.0	8.5	7.0	5.0
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)