

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: P555127

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-87-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: P555127  
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-30-UNV-80-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

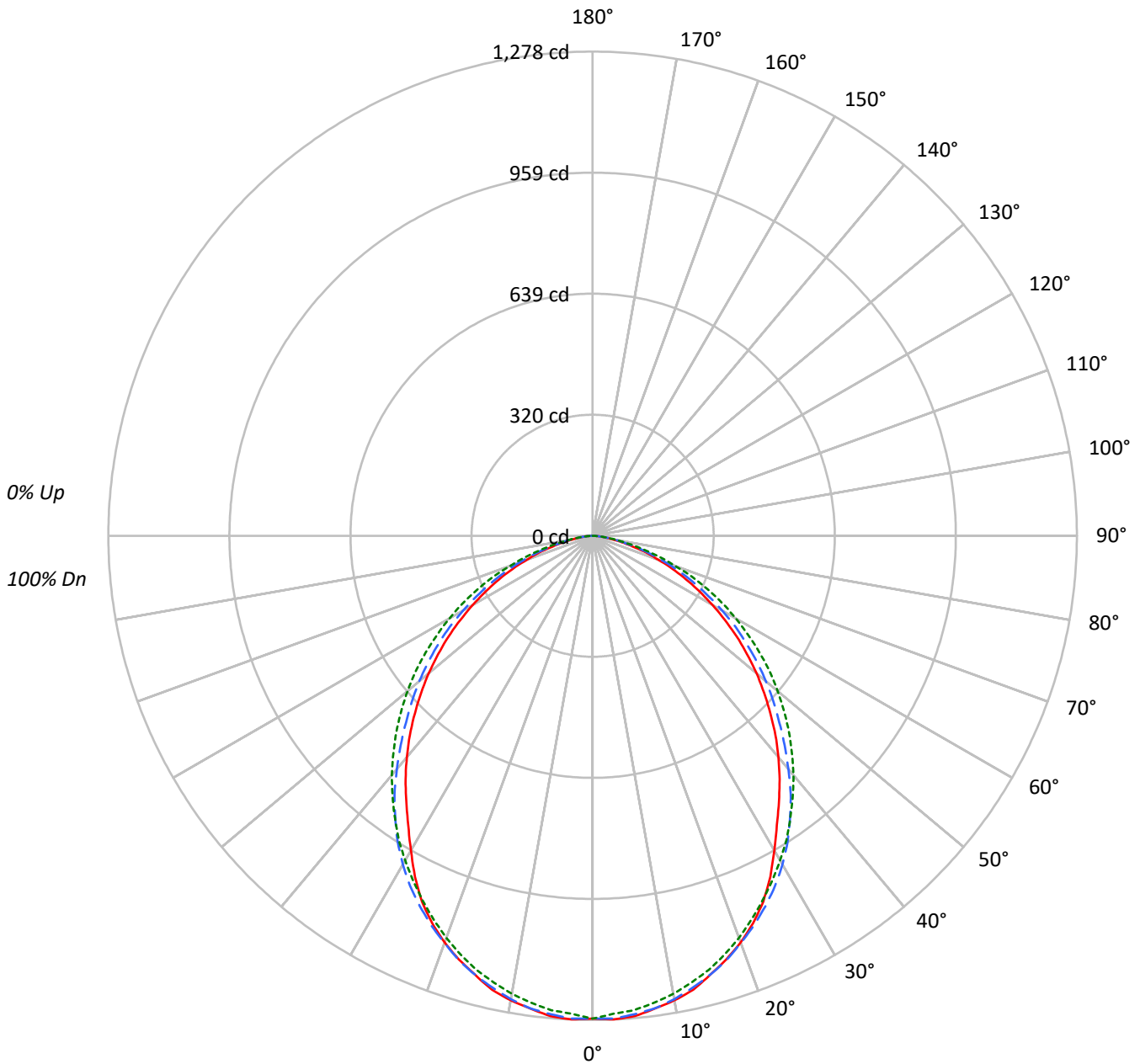
Lumens per Lamp: N/A  
Luminaire Lumens: 2947.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6859	6859	6859
5°	6877	6848	6790
10°	6804	6786	6708
15°	6684	6684	6608
20°	6542	6551	6467
25°	6327	6406	6304
30°	5958	6226	6149
35°	5629	5968	5977
40°	5356	5645	5793
45°	5049	5303	5575
50°	4726	4998	5338
55°	4360	4649	5049
60°	3927	4243	4696
65°	3466	3772	4271
70°	2889	3213	3629
75°	2271	2566	2840
80°	1624	1807	2002
85°	1056	1056	1000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.0	4.1
10°-20°	337.1	11.4
20°-30°	492.6	16.7
30°-40°	559.2	19.0
40°-50°	539.8	18.3
50°-60°	445.3	15.1
60°-70°	296.5	10.1
70°-80°	132.7	4.5
80°-90°	23.7	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°	949.7	32.2
0°-40°	1508.9	51.2
0°-60°	2494.0	84.6
0°-90°	2947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1273	1272	1268	1261	1257	120
15°	1200	1202	1200	1194	1186	338
25°	1065	1074	1079	1071	1062	488
35°	857	869	908	913	910	537
45°	663	675	697	729	732	512
55°	465	472	496	523	538	415
65°	272	280	296	317	335	270
75°	109	115	123	129	137	119
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1274.5	1274.5	1274.5	1274.5	1274.5
2.5°	1277.9	1278.4	1275.5	1267.6	1262.8
5°	1273.0	1272.5	1267.6	1260.8	1256.9
7.5°	1258.8	1259.8	1258.3	1248.6	1243.2
10°	1245.1	1245.6	1241.7	1233.9	1227.5
12.5°	1227.5	1227.0	1221.6	1217.7	1207.4
15°	1199.6	1202.5	1199.6	1194.2	1185.9
17.5°	1172.7	1172.7	1174.6	1165.3	1158.9
20°	1142.3	1143.8	1143.8	1136.4	1129.1
22.5°	1107.0	1111.5	1112.9	1105.1	1096.3
25°	1065.4	1073.8	1078.7	1070.8	1061.5
27.5°	1015.0	1027.7	1042.4	1036.5	1026.3
30°	958.7	977.3	1001.8	996.9	989.5
32.5°	905.3	923.9	957.7	955.8	951.8
35°	856.8	868.6	908.3	913.2	909.7
37.5°	810.8	821.6	858.8	870.1	867.1
40°	762.4	774.1	803.5	823.6	824.5
42.5°	714.4	725.6	749.6	778.5	778.5
45°	663.4	674.7	696.7	728.6	732.5
47.5°	613.5	625.3	646.8	678.6	685.0
50°	564.5	575.3	596.9	627.7	637.5
52.5°	513.6	525.4	546.4	574.8	589.0
55°	464.7	472.5	495.5	522.9	538.1
57.5°	413.7	421.1	447.0	470.5	486.2
60°	364.8	374.1	394.2	418.1	436.3
62.5°	317.8	327.6	344.7	365.8	386.3
65°	272.2	279.6	296.2	317.3	335.4
67.5°	228.2	234.5	251.2	265.9	285.0
70°	183.6	191.9	204.2	218.4	230.6
72.5°	147.9	151.3	161.6	171.9	184.6
75°	109.2	115.1	123.4	129.3	136.6
77.5°	78.3	81.8	86.7	91.6	98.4
80°	52.4	53.9	58.3	59.2	64.6
82.5°	31.8	32.8	33.8	34.3	36.2
85°	17.1	17.1	17.1	16.2	16.2
87.5°	9.8	9.8	8.3	6.9	4.9
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)