

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: P555646

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-97-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: P555646  
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-80-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

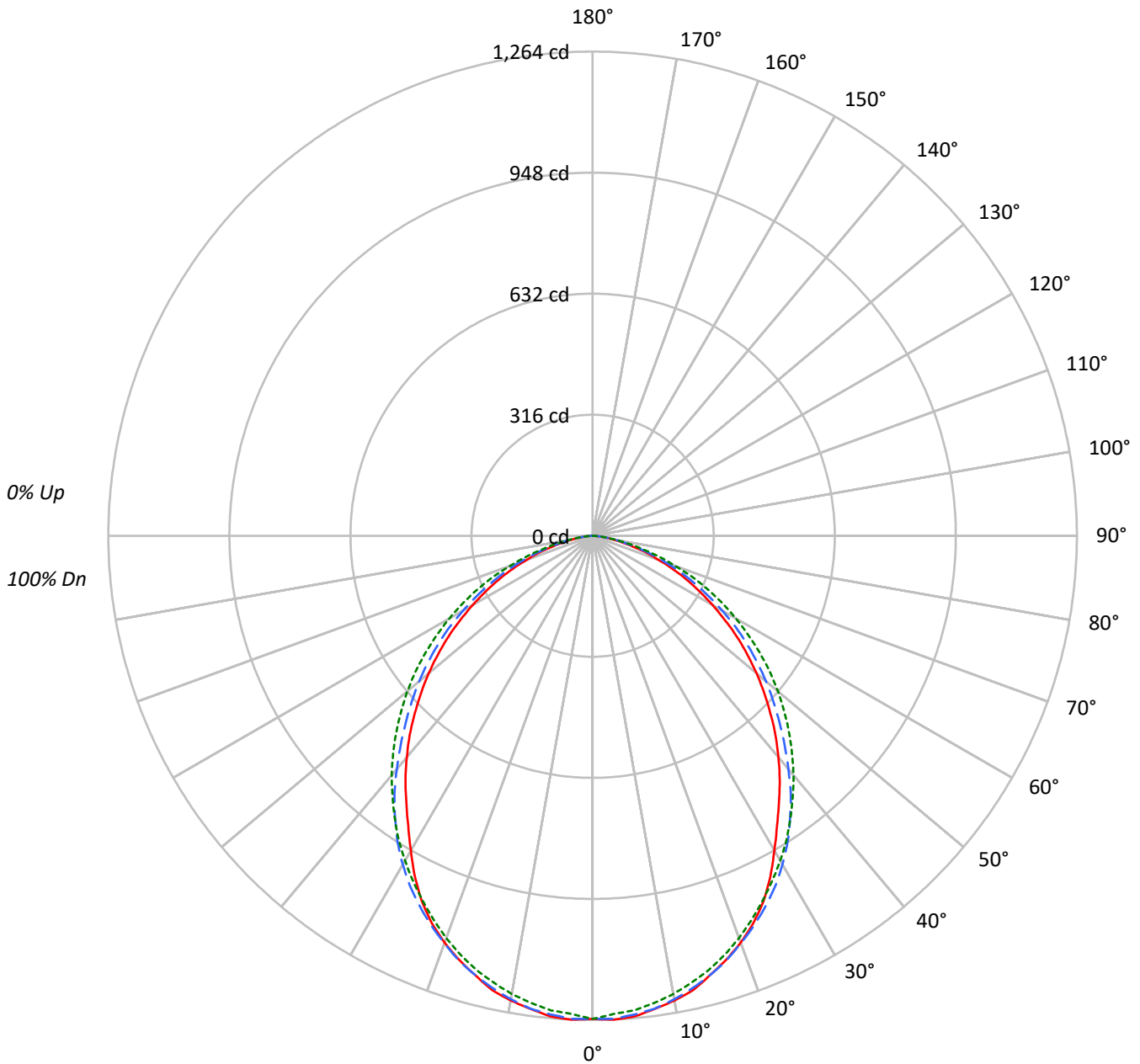
Lumens per Lamp: N/A  
Luminaire Lumens: 2916.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6787	6787	6787
5°	6805	6776	6719
10°	6733	6714	6638
15°	6614	6614	6538
20°	6474	6482	6399
25°	6260	6338	6237
30°	5895	6160	6085
35°	5570	5905	5914
40°	5299	5585	5732
45°	4997	5247	5517
50°	4677	4945	5282
55°	4314	4601	4996
60°	3885	4198	4647
65°	3431	3733	4227
70°	2859	3179	3591
75°	2246	2539	2811
80°	1605	1788	1984
85°	1050	1050	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	4.1
10°-20°	333.6	11.4
20°-30°	487.4	16.7
30°-40°	553.3	19.0
40°-50°	534.1	18.3
50°-60°	440.6	15.1
60°-70°	293.4	10.1
70°-80°	131.3	4.5
80°-90°	23.5	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°	939.7	32.2
0°-40°	1493.1	51.2
0°-60°	2467.8	84.6
0°-90°	2916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1260	1259	1254	1248	1244	119
15°	1187	1190	1187	1182	1173	335
25°	1054	1062	1067	1060	1050	483
35°	848	860	899	904	900	531
45°	656	668	689	721	725	507
55°	460	468	490	517	532	410
65°	269	277	293	314	332	267
75°	108	114	122	128	135	118
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°	1261.1	1261.1	1261.1	1261.1	1261.1
2.5°	1264.5	1265.0	1262.1	1254.3	1249.5
5°	1259.6	1259.2	1254.3	1247.5	1243.7
7.5°	1245.6	1246.6	1245.1	1235.4	1230.1
10°	1232.0	1232.5	1228.6	1220.9	1214.6
12.5°	1214.6	1214.1	1208.8	1204.9	1194.7
15°	1187.0	1189.9	1187.0	1181.6	1173.4
17.5°	1160.3	1160.3	1162.3	1153.1	1146.8
20°	1130.3	1131.7	1131.7	1124.5	1117.2
22.5°	1095.4	1099.8	1101.2	1093.5	1084.7
25°	1054.2	1062.5	1067.3	1059.6	1050.3
27.5°	1004.3	1016.9	1031.5	1025.6	1015.5
30°	948.6	967.0	991.2	986.4	979.1
32.5°	895.8	914.2	947.6	945.7	941.8
35°	847.8	859.5	898.7	903.6	900.2
37.5°	802.3	813.0	849.8	860.9	858.0
40°	754.3	766.0	795.0	814.9	815.9
42.5°	706.9	718.0	741.7	770.3	770.3
45°	656.5	667.6	689.4	720.9	724.8
47.5°	607.1	618.7	640.0	671.5	677.8
50°	558.6	569.3	590.6	621.1	630.8
52.5°	508.2	519.8	540.7	568.8	582.8
55°	459.8	467.5	490.3	517.4	532.4
57.5°	409.4	416.7	442.3	465.6	481.1
60°	360.9	370.1	390.0	413.7	431.7
62.5°	314.4	324.1	341.1	361.9	382.3
65°	269.4	276.6	293.1	313.9	331.9
67.5°	225.8	232.1	248.5	263.1	282.0
70°	181.7	189.9	202.0	216.1	228.2
72.5°	146.3	149.7	159.9	170.1	182.6
75°	108.0	113.9	122.1	127.9	135.2
77.5°	77.5	80.9	85.8	90.6	97.4
80°	51.8	53.3	57.7	58.6	64.0
82.5°	31.5	32.5	33.4	33.9	35.9
85°	17.0	17.0	17.0	16.0	16.0
87.5°	9.7	9.7	8.2	6.8	4.8
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)