

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: P555671

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-87-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: P555671  
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-82-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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**

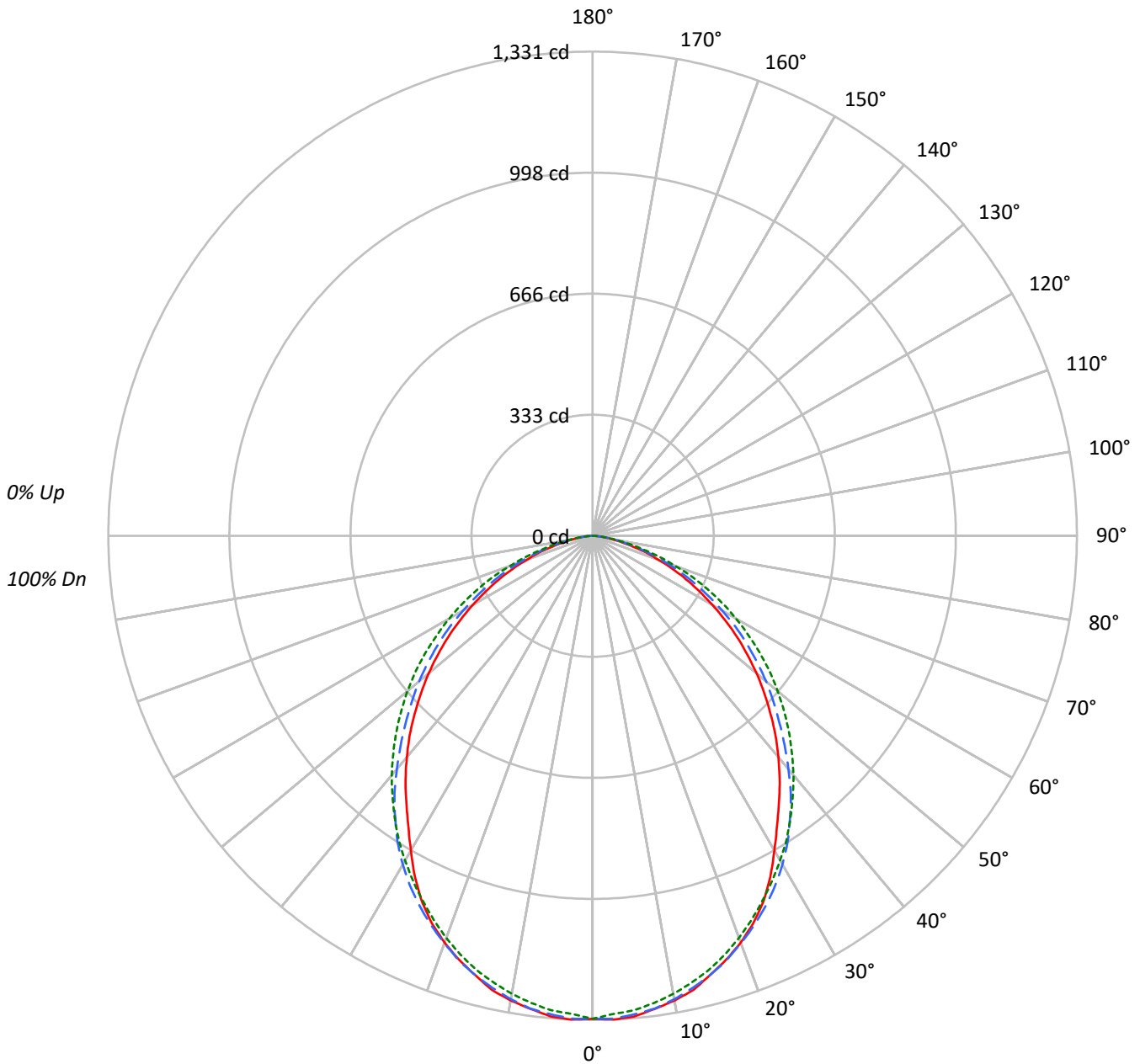
Lumens per Lamp: N/A  
Luminaire Lumens: 3070.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

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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°	7146	7146	7146
5°	7165	7135	7074
10°	7089	7069	6988
15°	6963	6963	6883
20°	6816	6824	6737
25°	6591	6673	6567
30°	6206	6486	6406
35°	5865	6217	6227
40°	5580	5880	6034
45°	5260	5524	5808
50°	4924	5206	5560
55°	4542	4844	5260
60°	4090	4420	4892
65°	3612	3930	4450
70°	3010	3347	3780
75°	2364	2672	2959
80°	1692	1881	2086
85°	1105	1105	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	4.1
10°-20°	351.2	11.4
20°-30°	513.2	16.7
30°-40°	582.5	19.0
40°-50°	562.3	18.3
50°-60°	463.9	15.1
60°-70°	308.9	10.1
70°-80°	138.2	4.5
80°-90°	24.7	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°	989.4	32.2
0°-40°	1571.9	51.2
0°-60°	2598.1	84.6
0°-90°	3070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1326	1326	1321	1313	1309	126
15°	1250	1253	1250	1244	1235	352
25°	1110	1119	1124	1116	1106	508
35°	893	905	946	951	948	559
45°	691	703	726	759	763	533
55°	484	492	516	545	561	432
65°	284	291	309	330	349	281
75°	114	120	128	135	142	124
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°	1327.7	1327.7	1327.7	1327.7	1327.7
2.5°	1331.3	1331.8	1328.7	1320.6	1315.5
5°	1326.2	1325.7	1320.6	1313.4	1309.3
7.5°	1311.4	1312.4	1310.9	1300.7	1295.1
10°	1297.1	1297.6	1293.5	1285.4	1278.7
12.5°	1278.7	1278.2	1272.6	1268.5	1257.8
15°	1249.7	1252.7	1249.7	1244.0	1235.4
17.5°	1221.6	1221.6	1223.6	1214.0	1207.3
20°	1190.0	1191.5	1191.5	1183.9	1176.2
22.5°	1153.3	1157.8	1159.4	1151.2	1142.0
25°	1109.9	1118.6	1123.7	1115.5	1105.8
27.5°	1057.4	1070.6	1085.9	1079.8	1069.1
30°	998.7	1018.1	1043.6	1038.5	1030.8
32.5°	943.1	962.5	997.7	995.6	991.6
35°	892.6	904.9	946.2	951.3	947.7
37.5°	844.7	855.9	894.7	906.4	903.3
40°	794.2	806.4	837.0	857.9	858.9
42.5°	744.2	755.9	780.9	811.0	811.0
45°	691.1	702.9	725.8	759.0	763.1
47.5°	639.1	651.4	673.8	706.9	713.6
50°	588.1	599.3	621.8	653.9	664.1
52.5°	535.1	547.3	569.2	598.8	613.6
55°	484.1	492.2	516.2	544.7	560.6
57.5°	431.0	438.7	465.7	490.2	506.5
60°	380.0	389.7	410.6	435.6	454.5
62.5°	331.0	341.2	359.1	381.0	402.4
65°	283.6	291.2	308.6	330.5	349.4
67.5°	237.7	244.3	261.7	277.0	296.9
70°	191.3	199.9	212.7	227.5	240.2
72.5°	154.0	157.6	168.3	179.0	192.3
75°	113.7	119.9	128.5	134.7	142.3
77.5°	81.6	85.2	90.3	95.4	102.5
80°	54.6	56.1	60.7	61.7	67.3
82.5°	33.2	34.2	35.2	35.7	37.7
85°	17.9	17.9	17.9	16.8	16.8
87.5°	10.2	10.2	8.7	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)