

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: P555665

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-84-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: P555665  
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-82-84-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

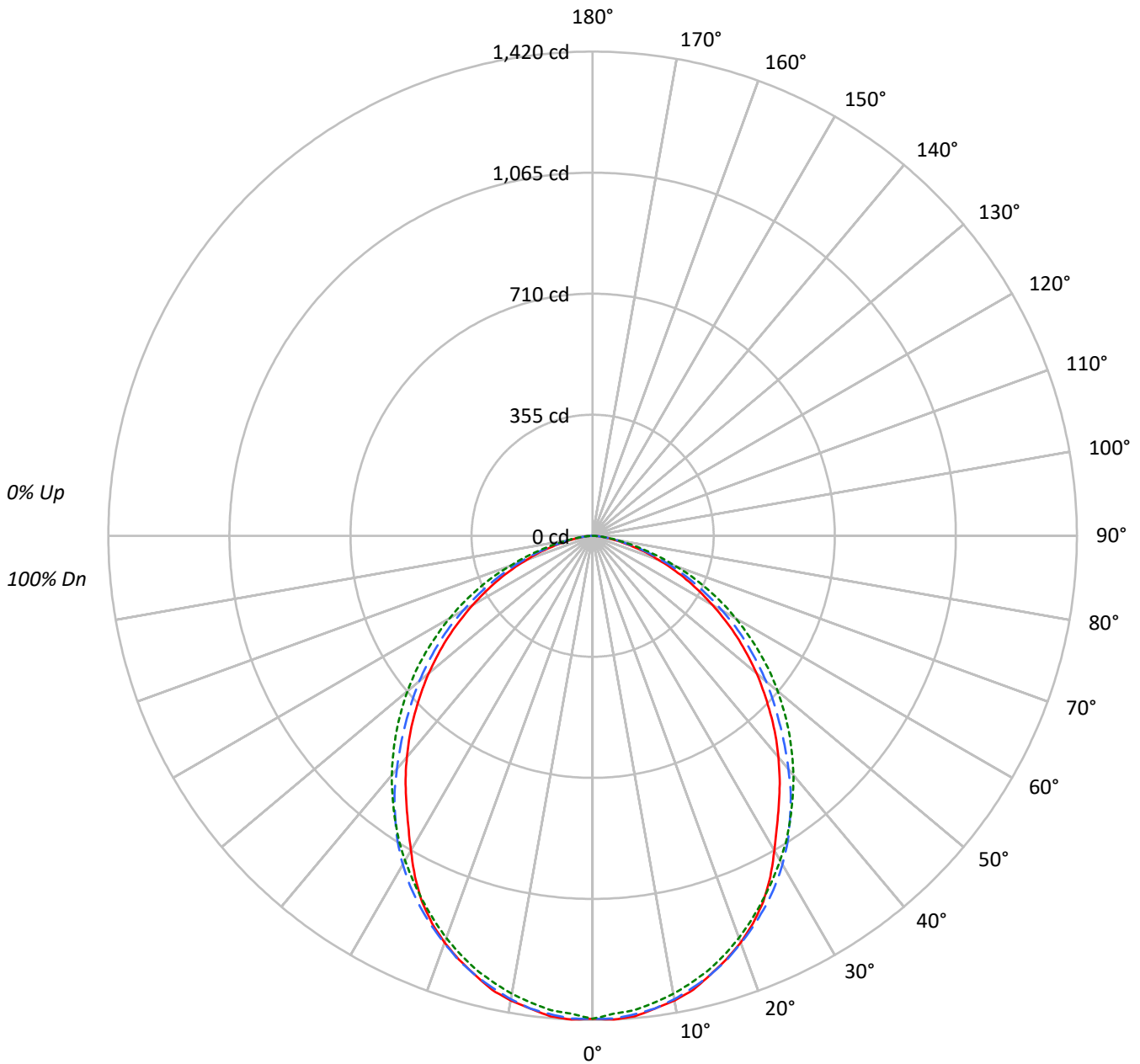
Lumens per Lamp: N/A  
Luminaire Lumens: 3275.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7623	7623	7623
5°	7643	7611	7546
10°	7562	7541	7455
15°	7428	7428	7343
20°	7270	7280	7186
25°	7031	7118	7005
30°	6621	6919	6834
35°	6256	6631	6642
40°	5952	6273	6438
45°	5612	5893	6196
50°	5253	5554	5931
55°	4845	5167	5611
60°	4364	4715	5218
65°	3852	4192	4746
70°	3210	3570	4033
75°	2522	2851	3157
80°	1804	2008	2225
85°	1173	1173	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	4.1
10°-20°	374.6	11.4
20°-30°	547.5	16.7
30°-40°	621.4	19.0
40°-50°	599.9	18.3
50°-60°	494.9	15.1
60°-70°	329.5	10.1
70°-80°	147.5	4.5
80°-90°	26.4	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°	1055.4	32.2
0°-40°	1676.9	51.2
0°-60°	2771.6	84.6
0°-90°	3275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3275.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1415	1414	1409	1401	1397	134
15°	1333	1336	1333	1327	1318	376
25°	1184	1193	1199	1190	1180	542
35°	952	965	1009	1015	1011	597
45°	737	750	774	810	814	569
55°	516	525	551	581	598	461
65°	302	311	329	353	373	300
75°	121	128	137	144	152	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1416.4	1416.4	1416.4	1416.4	1416.4
2.5°	1420.2	1420.7	1417.4	1408.7	1403.3
5°	1414.7	1414.2	1408.7	1401.1	1396.8
7.5°	1398.9	1400.0	1398.4	1387.5	1381.5
10°	1383.7	1384.2	1379.9	1371.2	1364.1
12.5°	1364.1	1363.6	1357.6	1353.2	1341.8
15°	1333.1	1336.4	1333.1	1327.1	1317.9
17.5°	1303.2	1303.2	1305.4	1295.0	1287.9
20°	1269.4	1271.1	1271.1	1262.9	1254.7
22.5°	1230.3	1235.2	1236.8	1228.1	1218.3
25°	1184.0	1193.3	1198.7	1190.0	1179.7
27.5°	1128.0	1142.1	1158.4	1151.9	1140.5
30°	1065.4	1086.1	1113.3	1107.8	1099.7
32.5°	1006.1	1026.8	1064.3	1062.1	1057.8
35°	952.2	965.3	1009.3	1014.8	1011.0
37.5°	901.1	913.0	954.4	966.9	963.6
40°	847.2	860.3	892.9	915.2	916.3
42.5°	793.9	806.4	833.1	865.2	865.2
45°	737.3	749.8	774.3	809.7	814.0
47.5°	681.8	694.8	718.8	754.2	761.2
50°	627.4	639.3	663.3	697.6	708.4
52.5°	570.8	583.8	607.2	638.8	654.6
55°	516.4	525.1	550.7	581.1	598.0
57.5°	459.8	467.9	496.8	522.9	540.3
60°	405.4	415.7	438.0	464.7	484.8
62.5°	353.1	364.0	383.1	406.5	429.3
65°	302.5	310.7	329.2	352.6	372.7
67.5°	253.6	260.6	279.1	295.5	316.7
70°	204.0	213.3	226.9	242.7	256.3
72.5°	164.3	168.1	179.6	191.0	205.1
75°	121.3	127.9	137.1	143.6	151.8
77.5°	87.1	90.9	96.3	101.8	109.4
80°	58.2	59.9	64.8	65.8	71.8
82.5°	35.4	36.5	37.5	38.1	40.3
85°	19.0	19.0	19.0	18.0	18.0
87.5°	10.9	10.9	9.3	7.6	5.4
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)