

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: P555664

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-84-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: P555664  
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-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

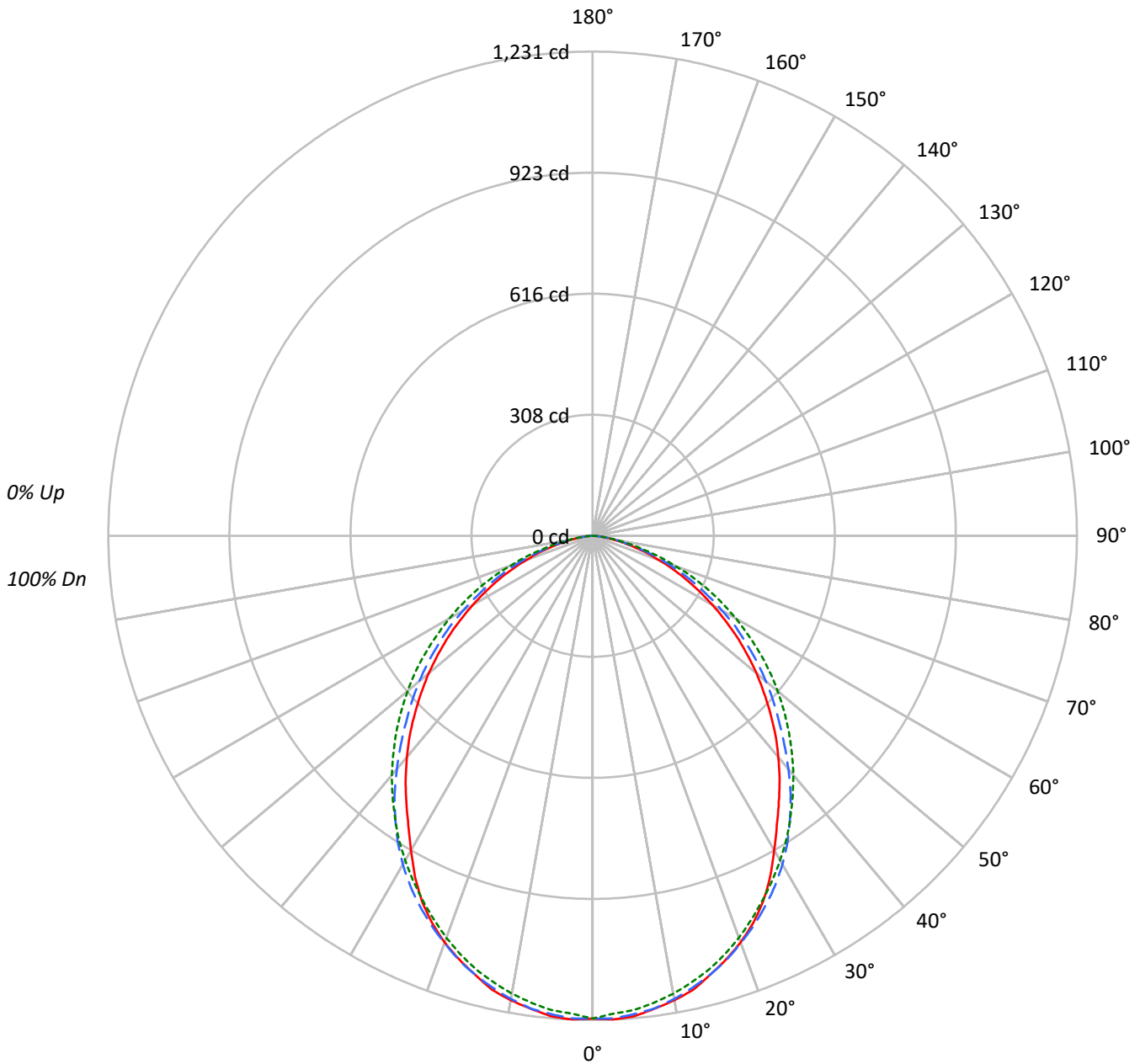
Lumens per Lamp: N/A  
Luminaire Lumens: 2838.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6606	6606	6606
5°	6623	6595	6539
10°	6553	6535	6460
15°	6437	6437	6363
20°	6301	6309	6227
25°	6093	6169	6071
30°	5737	5995	5922
35°	5422	5747	5756
40°	5158	5436	5578
45°	4863	5107	5369
50°	4552	4813	5140
55°	4199	4478	4862
60°	3781	4086	4522
65°	3339	3633	4113
70°	2782	3094	3495
75°	2185	2470	2737
80°	1565	1739	1928
85°	1019	1019	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	4.1
10°-20°	324.6	11.4
20°-30°	474.4	16.7
30°-40°	538.5	19.0
40°-50°	519.8	18.3
50°-60°	428.8	15.1
60°-70°	285.6	10.1
70°-80°	127.8	4.5
80°-90°	22.9	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°	914.6	32.2
0°-40°	1453.1	51.2
0°-60°	2401.8	84.6
0°-90°	2838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1226	1226	1221	1214	1210	116
15°	1155	1158	1155	1150	1142	326
25°	1026	1034	1039	1031	1022	470
35°	825	836	875	879	876	517
45°	639	650	671	702	705	493
55°	448	455	477	504	518	399
65°	262	269	285	306	323	260
75°	105	111	119	124	132	115
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1227.4	1227.4	1227.4	1227.4	1227.4
2.5°	1230.7	1231.1	1228.3	1220.8	1216.0
5°	1225.9	1225.5	1220.8	1214.2	1210.4
7.5°	1212.3	1213.2	1211.8	1202.4	1197.2
10°	1199.1	1199.5	1195.8	1188.2	1182.1
12.5°	1182.1	1181.6	1176.4	1172.7	1162.8
15°	1155.2	1158.0	1155.2	1150.0	1142.0
17.5°	1129.3	1129.3	1131.2	1122.2	1116.1
20°	1100.1	1101.5	1101.5	1094.4	1087.3
22.5°	1066.1	1070.3	1071.8	1064.2	1055.7
25°	1026.0	1034.0	1038.8	1031.2	1022.3
27.5°	977.5	989.7	1003.9	998.2	988.3
30°	923.2	941.2	964.7	960.0	952.9
32.5°	871.8	889.8	922.3	920.4	916.6
35°	825.2	836.5	874.7	879.4	876.1
37.5°	780.8	791.2	827.0	837.9	835.1
40°	734.2	745.5	773.8	793.1	794.0
42.5°	687.9	698.8	721.9	749.7	749.7
45°	638.9	649.8	671.0	701.6	705.4
47.5°	590.8	602.1	622.9	653.5	659.7
50°	543.7	554.0	574.8	604.5	613.9
52.5°	494.6	505.9	526.2	553.6	567.2
55°	447.5	455.0	477.2	503.6	518.2
57.5°	398.4	405.5	430.5	453.1	468.2
60°	351.3	360.2	379.6	402.7	420.1
62.5°	306.0	315.4	331.9	352.2	372.0
65°	262.2	269.2	285.3	305.5	323.0
67.5°	219.7	225.9	241.9	256.0	274.4
70°	176.8	184.8	196.6	210.3	222.1
72.5°	142.4	145.7	155.6	165.5	177.8
75°	105.1	110.8	118.8	124.5	131.6
77.5°	75.4	78.7	83.5	88.2	94.8
80°	50.5	51.9	56.1	57.1	62.2
82.5°	30.6	31.6	32.5	33.0	34.9
85°	16.5	16.5	16.5	15.6	15.6
87.5°	9.4	9.4	8.0	6.6	4.7
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)