

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: P555826

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-85-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: P555826  
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-50-UNV-80-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

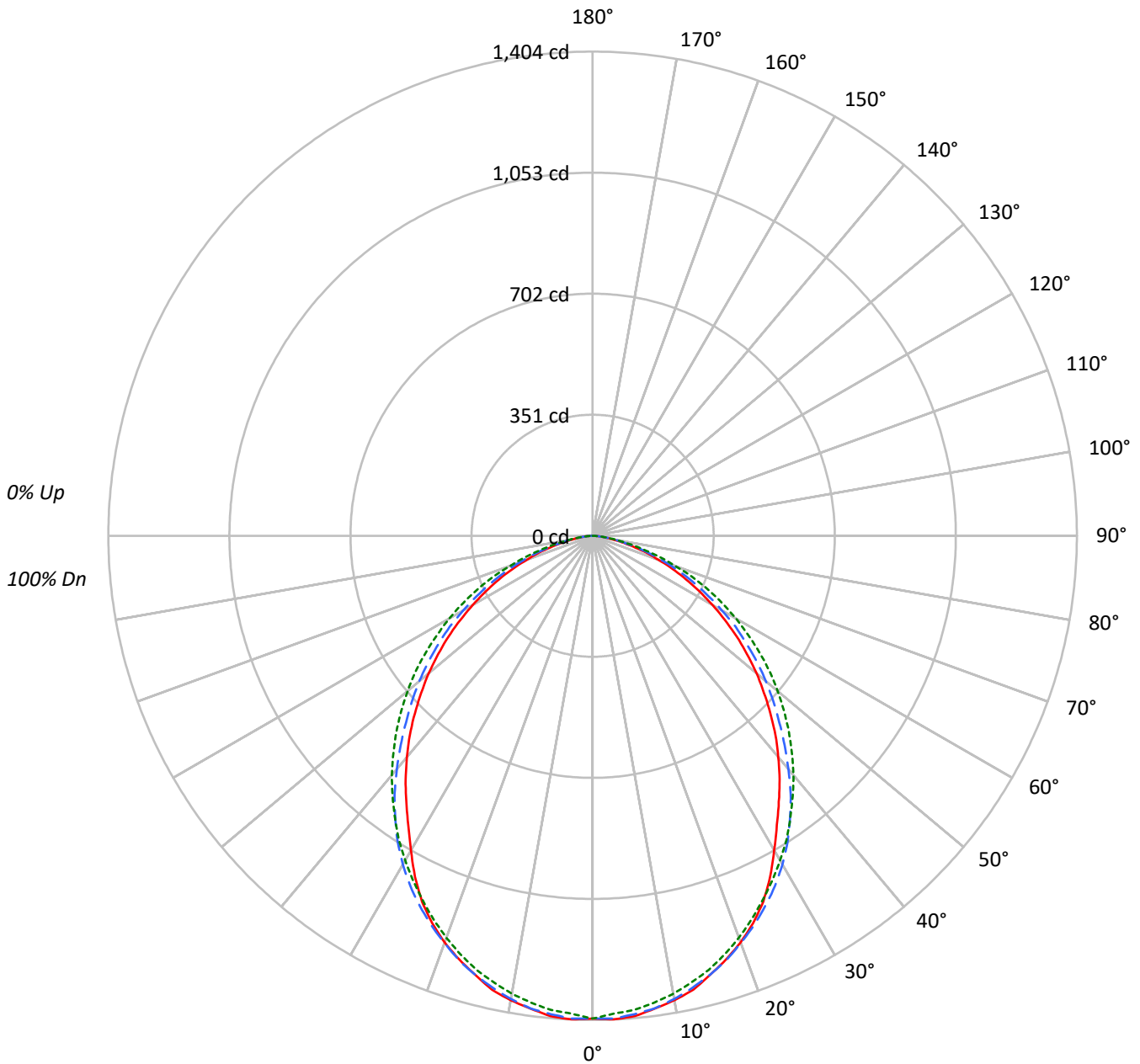
Lumens per Lamp: N/A  
Luminaire Lumens: 3237.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7534	7534	7534
5°	7554	7522	7459
10°	7474	7454	7368
15°	7341	7341	7258
20°	7186	7195	7103
25°	6950	7036	6924
30°	6544	6838	6755
35°	6184	6554	6566
40°	5883	6200	6363
45°	5546	5825	6124
50°	5192	5489	5863
55°	4789	5107	5546
60°	4313	4660	5158
65°	3808	4144	4691
70°	3174	3530	3986
75°	2493	2818	3119
80°	1782	1984	2201
85°	1161	1161	1093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	4.1
10°-20°	370.3	11.4
20°-30°	541.1	16.7
30°-40°	614.2	19.0
40°-50°	592.9	18.3
50°-60°	489.1	15.1
60°-70°	325.7	10.1
70°-80°	145.8	4.5
80°-90°	26.1	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°	1043.2	32.2
0°-40°	1657.4	51.2
0°-60°	2739.5	84.6
0°-90°	3237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1398	1398	1392	1385	1381	132
15°	1318	1321	1318	1312	1303	371
25°	1170	1179	1185	1176	1166	536
35°	941	954	998	1003	999	590
45°	729	741	765	800	805	562
55°	510	519	544	574	591	456
65°	299	307	325	348	368	296
75°	120	126	136	142	150	131
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1403.7	1404.2	1401.0	1392.4	1387.0
5°	1398.3	1397.8	1392.4	1384.9	1380.6
7.5°	1382.7	1383.8	1382.2	1371.4	1365.5
10°	1367.7	1368.2	1363.9	1355.3	1348.3
12.5°	1348.3	1347.8	1341.8	1337.5	1326.2
15°	1317.6	1320.9	1317.6	1311.7	1302.6
17.5°	1288.1	1288.1	1290.2	1280.0	1273.0
20°	1254.7	1256.3	1256.3	1248.3	1240.2
22.5°	1216.0	1220.8	1222.4	1213.8	1204.2
25°	1170.3	1179.4	1184.8	1176.2	1166.0
27.5°	1114.9	1128.9	1145.0	1138.5	1127.2
30°	1053.0	1073.5	1100.4	1095.0	1086.9
32.5°	994.4	1014.8	1052.0	1049.8	1045.5
35°	941.2	954.1	997.6	1003.0	999.3
37.5°	890.6	902.4	943.3	955.7	952.5
40°	837.4	850.3	882.5	904.6	905.7
42.5°	784.7	797.0	823.4	855.1	855.1
45°	728.7	741.1	765.3	800.3	804.6
47.5°	673.9	686.8	710.4	745.4	752.4
50°	620.1	631.9	655.6	689.5	700.2
52.5°	564.2	577.1	600.2	631.4	647.0
55°	510.4	519.0	544.3	574.4	591.1
57.5°	454.4	462.5	491.0	516.8	534.0
60°	400.7	410.9	432.9	459.3	479.2
62.5°	349.0	359.8	378.6	401.7	424.3
65°	299.0	307.1	325.4	348.5	368.4
67.5°	250.6	257.6	275.9	292.0	313.0
70°	201.7	210.8	224.3	239.9	253.3
72.5°	162.4	166.2	177.5	188.8	202.8
75°	119.9	126.4	135.5	142.0	150.0
77.5°	86.0	89.8	95.2	100.6	108.1
80°	57.5	59.2	64.0	65.1	71.0
82.5°	35.0	36.0	37.1	37.6	39.8
85°	18.8	18.8	18.8	17.7	17.7
87.5°	10.8	10.8	9.1	7.5	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)