

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: P555190

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-87-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: P555190  
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-LD4-2STD-35-UNV-80-87-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

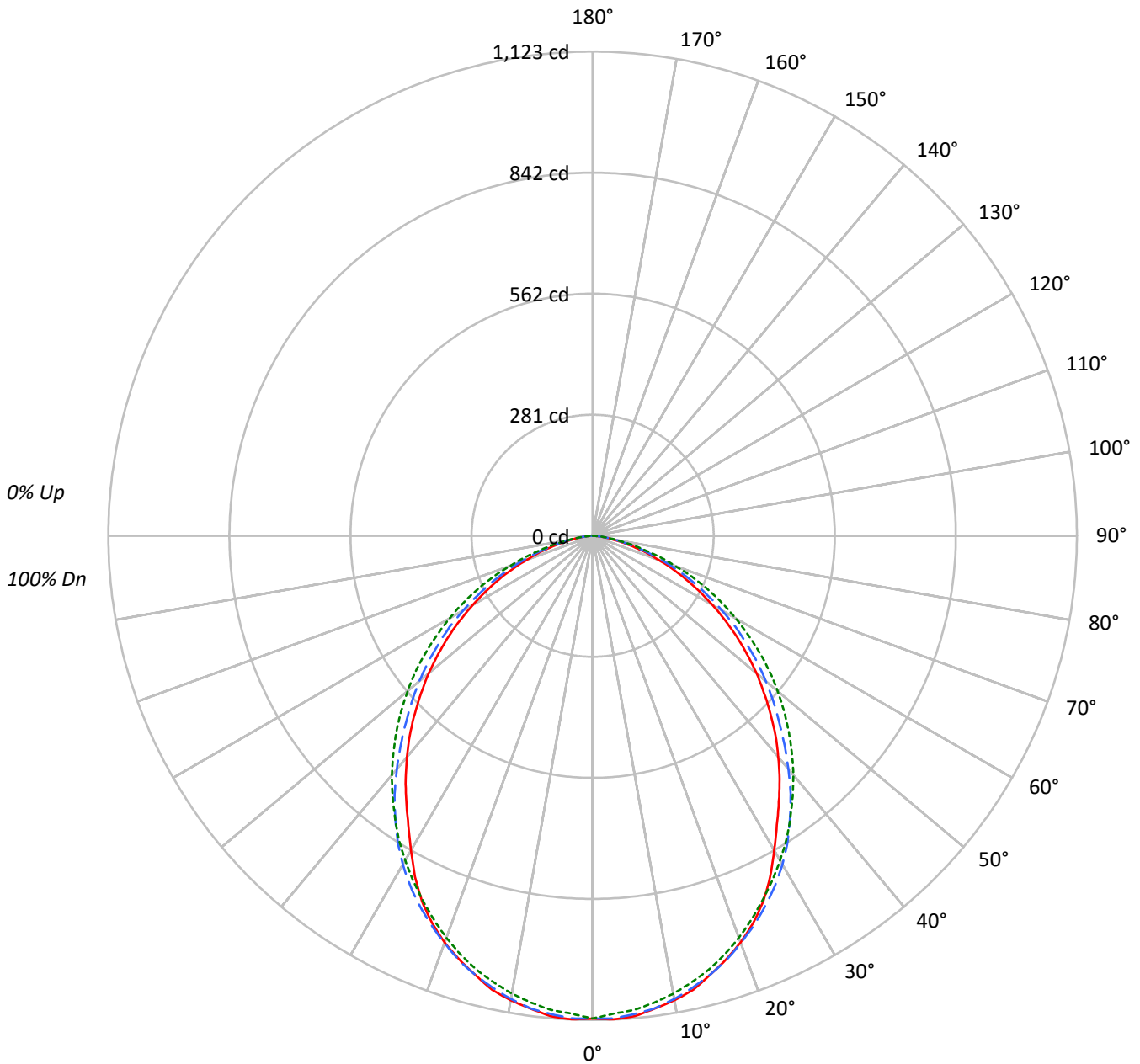
Lumens per Lamp: N/A  
Luminaire Lumens: 2589.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6026	6026	6026
5°	6042	6017	5965
10°	5978	5962	5893
15°	5872	5872	5805
20°	5747	5755	5681
25°	5558	5627	5538
30°	5234	5469	5402
35°	4946	5242	5251
40°	4705	4959	5089
45°	4437	4659	4898
50°	4153	4391	4690
55°	3830	4084	4435
60°	3450	3728	4126
65°	3046	3314	3753
70°	2538	2823	3188
75°	1994	2254	2495
80°	1426	1587	1760
85°	932	932	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	4.1
10°-20°	296.2	11.4
20°-30°	432.8	16.7
30°-40°	491.3	19.0
40°-50°	474.2	18.3
50°-60°	391.2	15.1
60°-70°	260.5	10.1
70°-80°	116.6	4.5
80°-90°	20.9	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°	834.4	32.2
0°-40°	1325.6	51.2
0°-60°	2191.1	84.6
0°-90°	2589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1118	1118	1114	1108	1104	106
15°	1054	1056	1054	1049	1042	297
25°	936	943	948	941	933	429
35°	753	763	798	802	799	472
45°	583	593	612	640	644	450
55°	408	415	435	459	473	364
65°	239	246	260	279	295	237
75°	96	101	108	114	120	105
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1119.7	1119.7	1119.7	1119.7	1119.7
2.5°	1122.7	1123.1	1120.5	1113.7	1109.4
5°	1118.4	1118.0	1113.7	1107.6	1104.2
7.5°	1105.9	1106.8	1105.5	1096.9	1092.1
10°	1093.9	1094.3	1090.9	1084.0	1078.4
12.5°	1078.4	1078.0	1073.2	1069.8	1060.7
15°	1053.9	1056.4	1053.9	1049.1	1041.8
17.5°	1030.2	1030.2	1031.9	1023.8	1018.2
20°	1003.5	1004.8	1004.8	998.4	991.9
22.5°	972.6	976.4	977.7	970.8	963.1
25°	936.0	943.3	947.6	940.7	932.6
27.5°	891.7	902.9	915.8	910.6	901.6
30°	842.2	858.6	880.1	875.8	869.3
32.5°	795.3	811.7	841.4	839.6	836.2
35°	752.8	763.1	797.9	802.2	799.2
37.5°	712.3	721.8	754.5	764.4	761.8
40°	669.7	680.1	705.9	723.5	724.4
42.5°	627.6	637.5	658.6	683.9	683.9
45°	582.9	592.7	612.1	640.1	643.5
47.5°	539.0	549.3	568.2	596.2	601.8
50°	496.0	505.4	524.4	551.4	560.1
52.5°	451.2	461.5	480.0	505.0	517.5
55°	408.2	415.1	435.3	459.4	472.7
57.5°	363.5	369.9	392.7	413.4	427.1
60°	320.5	328.6	346.3	367.3	383.3
62.5°	279.2	287.8	302.8	321.3	339.4
65°	239.2	245.6	260.2	278.7	294.7
67.5°	200.4	206.0	220.7	233.6	250.3
70°	161.3	168.6	179.4	191.8	202.6
72.5°	129.9	132.9	141.9	151.0	162.2
75°	95.9	101.1	108.4	113.6	120.0
77.5°	68.8	71.8	76.1	80.4	86.5
80°	46.0	47.3	51.2	52.0	56.8
82.5°	28.0	28.8	29.7	30.1	31.8
85°	15.1	15.1	15.1	14.2	14.2
87.5°	8.6	8.6	7.3	6.0	4.3
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)