

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: P554355

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-85-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: P554355  
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-LD4-1STD-30-UNV-80-85-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

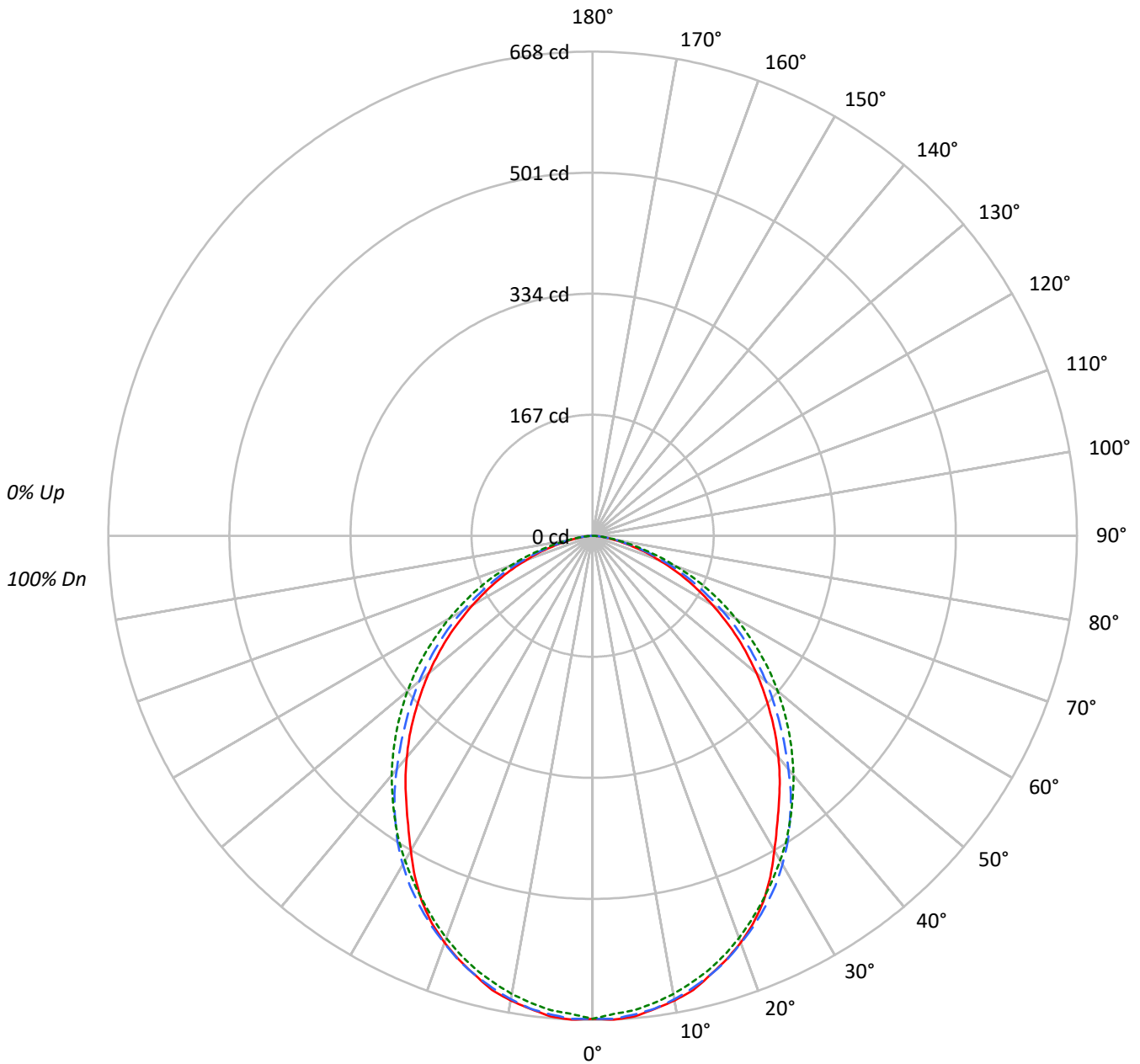
Lumens per Lamp: N/A  
Luminaire Lumens: 1541.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	3587	3587	3587
5°	3596	3581	3551
10°	3558	3548	3508
15°	3495	3495	3455
20°	3421	3426	3381
25°	3308	3349	3296
30°	3115	3255	3215
35°	2944	3120	3125
40°	2800	2951	3029
45°	2640	2773	2915
50°	2472	2613	2791
55°	2280	2431	2640
60°	2053	2218	2455
65°	1813	1973	2234
70°	1511	1681	1898
75°	1187	1341	1485
80°	849	945	1048
85°	556	556	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.7	4.1
10°-20°	176.3	11.4
20°-30°	257.6	16.7
30°-40°	292.4	19.0
40°-50°	282.3	18.3
50°-60°	232.8	15.1
60°-70°	155.1	10.1
70°-80°	69.4	4.5
80°-90°	12.4	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°	496.6	32.2
0°-40°	789.0	51.2
0°-60°	1304.1	84.6
0°-90°	1541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	665	663	659	657	63
15°	627	629	627	624	620	177
25°	557	562	564	560	555	255
35°	448	454	475	478	476	281
45°	347	353	364	381	383	268
55°	243	247	259	273	281	217
65°	142	146	155	166	175	141
75°	57	60	64	68	71	62
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	666.4	666.4	666.4	666.4	666.4
2.5°	668.2	668.5	667.0	662.9	660.3
5°	665.7	665.4	662.9	659.3	657.2
7.5°	658.2	658.8	658.0	652.9	650.1
10°	651.1	651.3	649.3	645.2	641.9
12.5°	641.9	641.6	638.8	636.7	631.4
15°	627.3	628.8	627.3	624.5	620.1
17.5°	613.2	613.2	614.2	609.3	606.0
20°	597.3	598.1	598.1	594.2	590.4
22.5°	578.9	581.2	582.0	577.9	573.2
25°	557.1	561.5	564.0	559.9	555.1
27.5°	530.7	537.4	545.1	542.0	536.6
30°	501.3	511.0	523.8	521.3	517.4
32.5°	473.4	483.1	500.8	499.8	497.7
35°	448.1	454.2	474.9	477.5	475.7
37.5°	424.0	429.6	449.1	455.0	453.4
40°	398.6	404.8	420.1	430.6	431.2
42.5°	373.5	379.4	392.0	407.1	407.1
45°	346.9	352.8	364.3	381.0	383.0
47.5°	320.8	326.9	338.2	354.9	358.2
50°	295.2	300.8	312.1	328.2	333.3
52.5°	268.6	274.7	285.7	300.6	308.0
55°	243.0	247.1	259.1	273.4	281.4
57.5°	216.3	220.2	233.8	246.0	254.2
60°	190.7	195.6	206.1	218.6	228.1
62.5°	166.2	171.3	180.2	191.3	202.0
65°	142.4	146.2	154.9	165.9	175.4
67.5°	119.3	122.6	131.3	139.0	149.0
70°	96.0	100.4	106.8	114.2	120.6
72.5°	77.3	79.1	84.5	89.9	96.5
75°	57.1	60.2	64.5	67.6	71.4
77.5°	41.0	42.8	45.3	47.9	51.5
80°	27.4	28.2	30.5	31.0	33.8
82.5°	16.6	17.2	17.7	17.9	18.9
85°	9.0	9.0	9.0	8.4	8.4
87.5°	5.1	5.1	4.4	3.6	2.6
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)