

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: P555147

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-81-94-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: P555147  
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-30-UNV-81-94-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187  
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

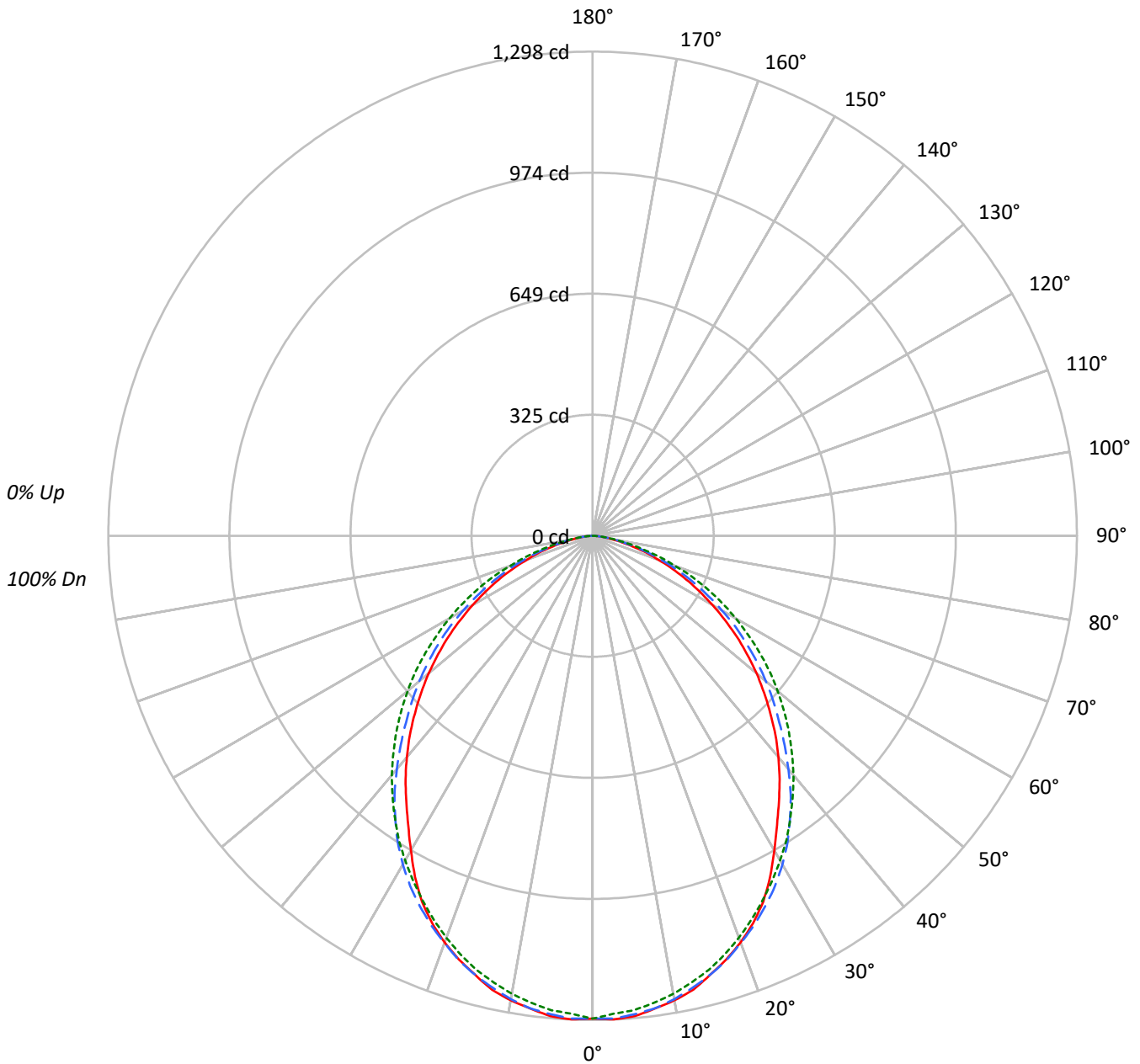
Lumens per Lamp: N/A  
Luminaire Lumens: 2993.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6966	6966	6966
5°	6985	6955	6896
10°	6911	6892	6813
15°	6788	6788	6711
20°	6644	6653	6568
25°	6426	6505	6402
30°	6051	6323	6246
35°	5717	6060	6070
40°	5440	5733	5883
45°	5128	5386	5662
50°	4801	5076	5421
55°	4428	4722	5128
60°	3988	4309	4769
65°	3521	3831	4337
70°	2935	3264	3685
75°	2306	2606	2884
80°	1649	1835	2033
85°	1074	1074	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	4.1
10°-20°	342.4	11.4
20°-30°	500.3	16.7
30°-40°	567.9	19.0
40°-50°	548.2	18.3
50°-60°	452.3	15.1
60°-70°	301.2	10.1
70°-80°	134.8	4.5
80°-90°	24.1	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°	964.6	32.2
0°-40°	1532.5	51.2
0°-60°	2533.0	84.6
0°-90°	2993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2993.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1293	1292	1287	1280	1276	122
15°	1218	1221	1218	1213	1204	343
25°	1082	1090	1096	1088	1078	496
35°	870	882	922	927	924	545
45°	674	685	708	740	744	520
55°	472	480	503	531	546	421
65°	276	284	301	322	341	274
75°	111	117	125	131	139	121
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1294.4	1294.4	1294.4	1294.4	1294.4
2.5°	1297.9	1298.4	1295.4	1287.4	1282.5
5°	1292.9	1292.4	1287.4	1280.5	1276.5
7.5°	1278.5	1279.5	1278.0	1268.0	1262.6
10°	1264.6	1265.1	1261.1	1253.1	1246.7
12.5°	1246.7	1246.2	1240.7	1236.7	1226.3
15°	1218.3	1221.3	1218.3	1212.8	1204.4
17.5°	1191.0	1191.0	1193.0	1183.5	1177.0
20°	1160.1	1161.6	1161.6	1154.2	1146.7
22.5°	1124.3	1128.8	1130.3	1122.3	1113.4
25°	1082.1	1090.5	1095.5	1087.5	1078.1
27.5°	1030.8	1043.8	1058.7	1052.7	1042.3
30°	973.7	992.6	1017.4	1012.4	1005.0
32.5°	919.5	938.3	972.7	970.7	966.7
35°	870.2	882.2	922.4	927.4	923.9
37.5°	823.5	834.4	872.2	883.6	880.7
40°	774.3	786.2	816.0	836.4	837.4
42.5°	725.5	737.0	761.3	790.7	790.7
45°	673.8	685.2	707.6	739.9	743.9
47.5°	623.1	635.0	656.9	689.2	695.7
50°	573.4	584.3	606.2	637.5	647.4
52.5°	521.6	533.6	555.0	583.8	598.2
55°	471.9	479.9	503.2	531.1	546.5
57.5°	420.2	427.7	454.0	477.9	493.8
60°	370.5	379.9	400.3	424.7	443.1
62.5°	322.7	332.7	350.1	371.5	392.3
65°	276.5	283.9	300.8	322.2	340.6
67.5°	231.7	238.2	255.1	270.0	289.4
70°	186.5	194.9	207.4	221.8	234.2
72.5°	150.2	153.7	164.1	174.5	187.5
75°	110.9	116.9	125.3	131.3	138.7
77.5°	79.6	83.0	88.0	93.0	100.0
80°	53.2	54.7	59.2	60.2	65.6
82.5°	32.3	33.3	34.3	34.8	36.8
85°	17.4	17.4	17.4	16.4	16.4
87.5°	9.9	9.9	8.5	7.0	5.0
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)