

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: P555181

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-93-96-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: P555181  
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-93-96-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

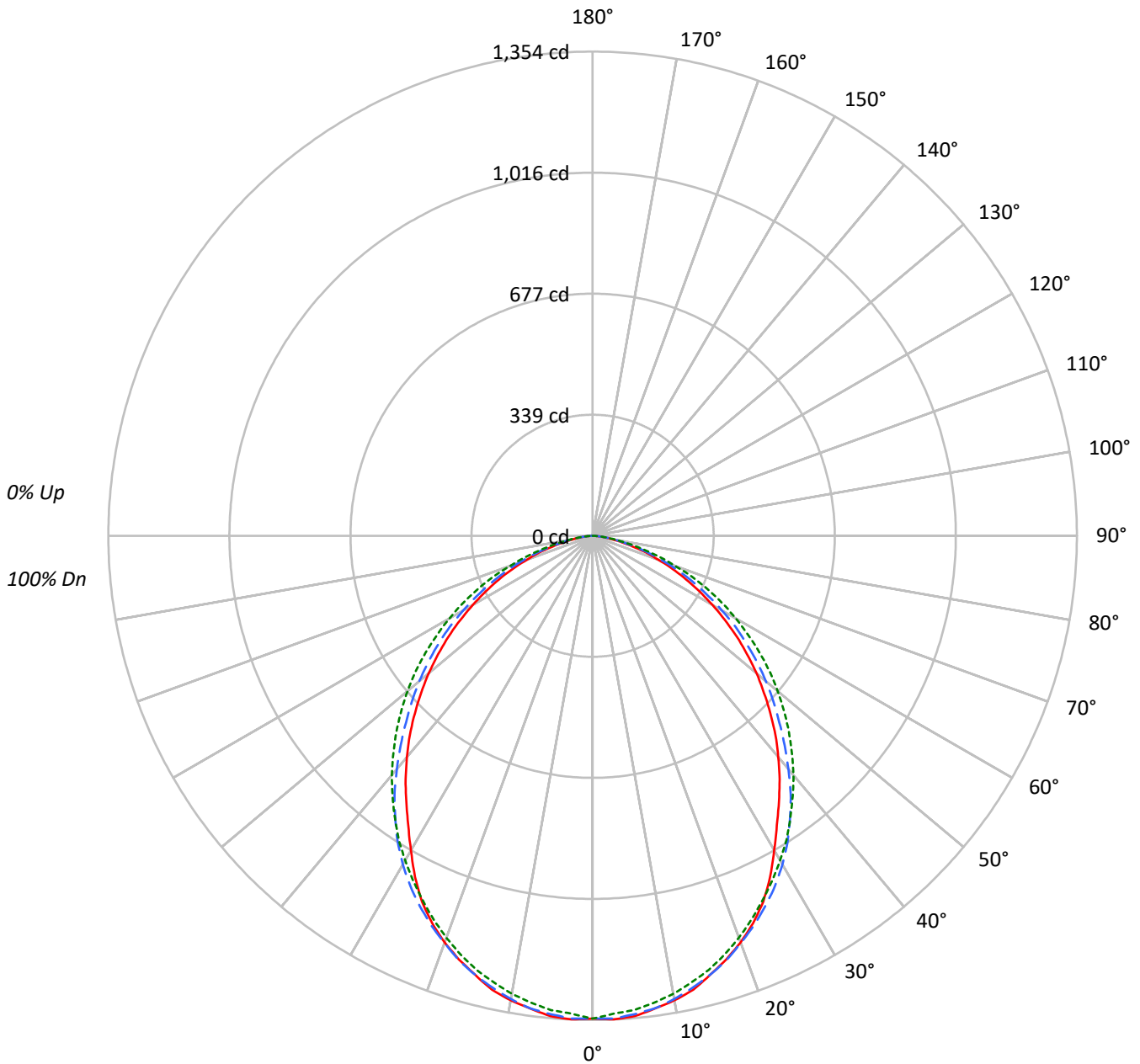
Lumens per Lamp: N/A  
Luminaire Lumens: 3122.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	7267	7267	7267
5°	7286	7255	7193
10°	7209	7189	7107
15°	7081	7081	7000
20°	6931	6940	6850
25°	6703	6786	6678
30°	6311	6596	6515
35°	5964	6322	6332
40°	5674	5980	6137
45°	5349	5618	5906
50°	5008	5294	5655
55°	4618	4925	5349
60°	4159	4495	4975
65°	3673	3996	4525
70°	3061	3404	3844
75°	2406	2718	3009
80°	1720	1912	2123
85°	1124	1124	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	4.1
10°-20°	357.1	11.4
20°-30°	521.9	16.7
30°-40°	592.4	19.0
40°-50°	571.9	18.3
50°-60°	471.8	15.1
60°-70°	314.2	10.1
70°-80°	140.6	4.5
80°-90°	25.2	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°	1006.1	32.2
0°-40°	1598.5	51.2
0°-60°	2642.1	84.6
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1349	1348	1343	1336	1332	128
15°	1271	1274	1271	1265	1256	358
25°	1129	1138	1143	1134	1124	517
35°	908	920	962	967	964	569
45°	703	715	738	772	776	542
55°	492	500	525	554	570	439
65°	288	296	314	336	355	286
75°	116	122	131	137	145	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1350.2	1350.2	1350.2	1350.2	1350.2
2.5°	1353.8	1354.3	1351.2	1342.9	1337.7
5°	1348.6	1348.1	1342.9	1335.7	1331.5
7.5°	1333.6	1334.6	1333.1	1322.7	1317.0
10°	1319.1	1319.6	1315.4	1307.1	1300.4
12.5°	1300.4	1299.9	1294.2	1290.0	1279.1
15°	1270.8	1273.9	1270.8	1265.1	1256.3
17.5°	1242.3	1242.3	1244.4	1234.5	1227.8
20°	1210.1	1211.7	1211.7	1203.9	1196.1
22.5°	1172.8	1177.5	1179.0	1170.7	1161.4
25°	1128.7	1137.5	1142.7	1134.4	1124.5
27.5°	1075.3	1088.8	1104.3	1098.1	1087.2
30°	1015.6	1035.3	1061.3	1056.1	1048.3
32.5°	959.1	978.8	1014.6	1012.5	1008.4
35°	907.7	920.2	962.2	967.4	963.8
37.5°	859.0	870.4	909.8	921.7	918.6
40°	807.6	820.1	851.2	872.5	873.5
42.5°	756.8	768.7	794.1	824.7	824.7
45°	702.8	714.8	738.1	771.8	776.0
47.5°	649.9	662.4	685.2	718.9	725.7
50°	598.1	609.5	632.3	665.0	675.4
52.5°	544.1	556.6	578.9	609.0	624.0
55°	492.2	500.5	524.9	554.0	570.1
57.5°	438.3	446.1	473.6	498.5	515.1
60°	386.4	396.3	417.6	443.0	462.2
62.5°	336.6	347.0	365.2	387.5	409.3
65°	288.4	296.2	313.8	336.1	355.3
67.5°	241.7	248.5	266.1	281.7	301.9
70°	194.5	203.3	216.3	231.3	244.3
72.5°	156.6	160.3	171.2	182.1	195.6
75°	115.7	121.9	130.7	136.9	144.7
77.5°	83.0	86.6	91.8	97.0	104.3
80°	55.5	57.1	61.7	62.8	68.5
82.5°	33.7	34.8	35.8	36.3	38.4
85°	18.2	18.2	18.2	17.1	17.1
87.5°	10.4	10.4	8.8	7.3	5.2
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)