

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: P555737

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-88-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: P555737  
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-35-UNV-82-88-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

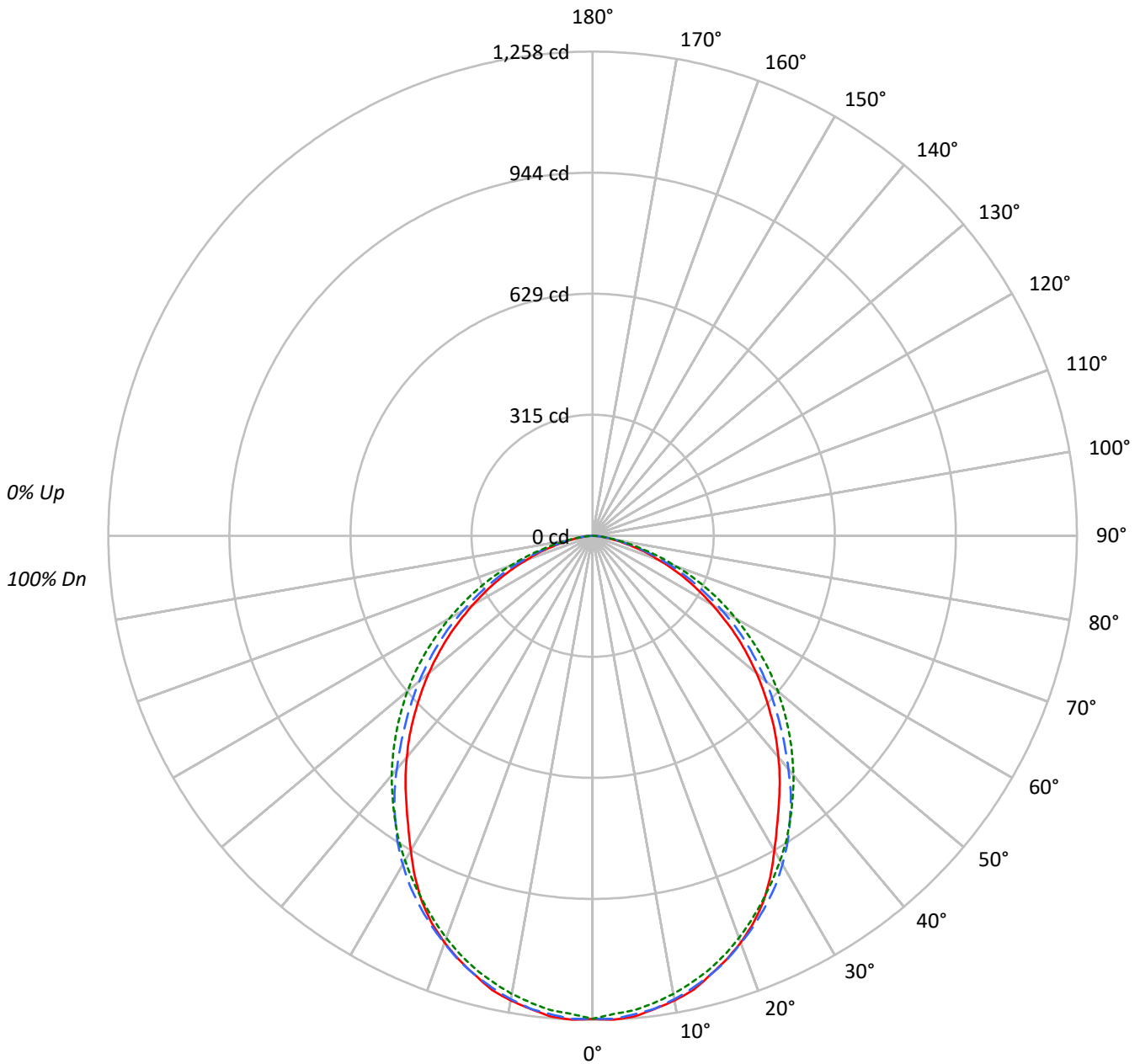
Lumens per Lamp: N/A  
Luminaire Lumens: 2902.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	6754	6754	6754
5°	6773	6744	6687
10°	6701	6682	6606
15°	6582	6582	6507
20°	6443	6451	6368
25°	6230	6308	6207
30°	5867	6131	6055
35°	5544	5876	5886
40°	5274	5559	5704
45°	4972	5222	5490
50°	4654	4921	5256
55°	4294	4578	4972
60°	3866	4177	4624
65°	3414	3715	4206
70°	2845	3164	3574
75°	2235	2527	2797
80°	1599	1779	1971
85°	1044	1044	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	4.1
10°-20°	332.0	11.4
20°-30°	485.1	16.7
30°-40°	550.7	19.0
40°-50°	531.6	18.3
50°-60°	438.5	15.1
60°-70°	292.0	10.1
70°-80°	130.7	4.5
80°-90°	23.4	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°	935.2	32.2
0°-40°	1485.9	51.2
0°-60°	2455.9	84.6
0°-90°	2902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1254	1253	1248	1242	1238	119
15°	1181	1184	1181	1176	1168	333
25°	1049	1057	1062	1054	1045	480
35°	844	855	894	899	896	529
45°	653	664	686	717	721	504
55°	458	465	488	515	530	408
65°	268	275	292	312	330	266
75°	108	113	122	127	134	118
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°	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1258.4	1258.9	1256.0	1248.3	1243.5
5°	1253.6	1253.1	1248.3	1241.5	1237.7
7.5°	1239.6	1240.6	1239.1	1229.5	1224.2
10°	1226.1	1226.6	1222.7	1215.0	1208.8
12.5°	1208.8	1208.3	1203.0	1199.1	1189.0
15°	1181.3	1184.2	1181.3	1176.0	1167.8
17.5°	1154.8	1154.8	1156.7	1147.5	1141.3
20°	1124.9	1126.3	1126.3	1119.1	1111.8
22.5°	1090.1	1094.5	1095.9	1088.2	1079.5
25°	1049.2	1057.4	1062.2	1054.5	1045.3
27.5°	999.5	1012.0	1026.5	1020.7	1010.6
30°	944.1	962.4	986.5	981.7	974.4
32.5°	891.5	909.8	943.1	941.2	937.3
35°	843.8	855.3	894.4	899.2	895.8
37.5°	798.4	809.1	845.7	856.8	853.9
40°	750.7	762.3	791.2	811.0	811.9
42.5°	703.5	714.5	738.2	766.6	766.6
45°	653.3	664.4	686.1	717.4	721.3
47.5°	604.1	615.7	636.9	668.3	674.5
50°	555.9	566.5	587.7	618.1	627.8
52.5°	505.8	517.3	538.1	566.0	580.0
55°	457.6	465.3	487.9	514.9	529.9
57.5°	407.4	414.7	440.2	463.3	478.8
60°	359.2	368.4	388.1	411.8	429.6
62.5°	312.9	322.6	339.4	360.2	380.4
65°	268.1	275.3	291.7	312.4	330.3
67.5°	224.7	231.0	247.3	261.8	280.6
70°	180.8	189.0	201.1	215.0	227.1
72.5°	145.6	149.0	159.1	169.2	181.8
75°	107.5	113.3	121.5	127.3	134.5
77.5°	77.1	80.5	85.3	90.2	96.9
80°	51.6	53.0	57.4	58.3	63.6
82.5°	31.3	32.3	33.3	33.8	35.7
85°	16.9	16.9	16.9	15.9	15.9
87.5°	9.6	9.6	8.2	6.8	4.8
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)