

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: P555742

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-97-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: P555742  
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-82-97-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375  
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

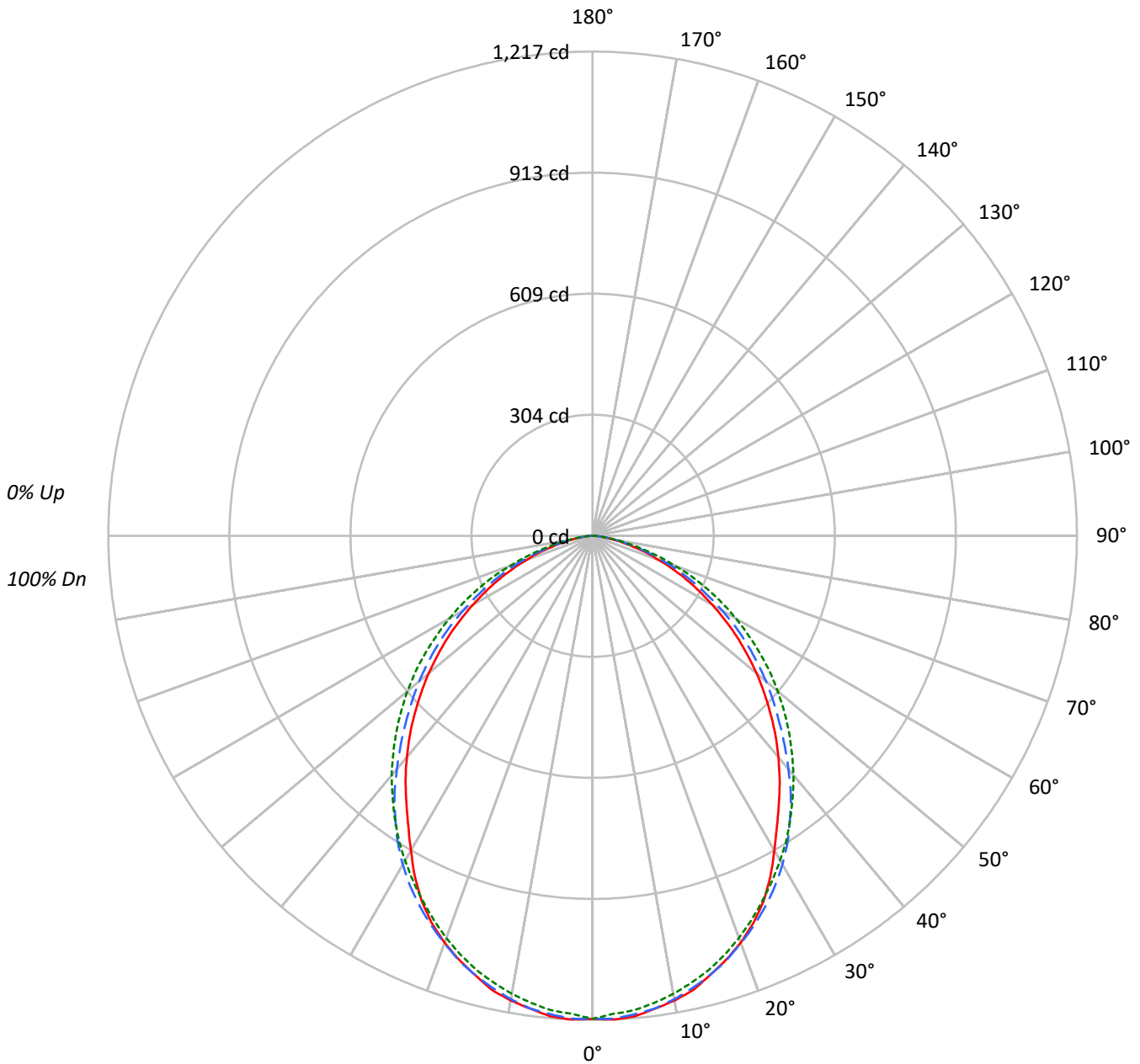
Lumens per Lamp: N/A  
Luminaire Lumens: 2807.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
Input Voltage (V): NR  
Input Current (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°	6534	6534	6534
5°	6551	6523	6468
10°	6481	6463	6390
15°	6366	6366	6293
20°	6231	6239	6159
25°	6026	6101	6004
30°	5675	5930	5857
35°	5362	5684	5693
40°	5101	5377	5518
45°	4810	5051	5310
50°	4502	4760	5084
55°	4153	4429	4809
60°	3739	4041	4472
65°	3302	3594	4069
70°	2752	3061	3457
75°	2163	2443	2705
80°	1547	1720	1909
85°	1007	1007	951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	4.1
10°-20°	321.1	11.4
20°-30°	469.2	16.7
30°-40°	532.6	19.0
40°-50°	514.2	18.3
50°-60°	424.2	15.1
60°-70°	282.4	10.1
70°-80°	126.4	4.5
80°-90°	22.6	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°	904.6	32.2
0°-40°	1437.2	51.2
0°-60°	2375.5	84.6
0°-90°	2807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1213	1212	1207	1201	1197	115
15°	1143	1145	1143	1138	1130	322
25°	1015	1023	1027	1020	1011	465
35°	816	827	865	870	866	511
45°	632	643	664	694	698	488
55°	443	450	472	498	512	395
65°	259	266	282	302	320	257
75°	104	110	118	123	130	114
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1217.2	1217.7	1214.9	1207.4	1202.8
5°	1212.6	1212.1	1207.4	1200.9	1197.2
7.5°	1199.0	1200.0	1198.6	1189.2	1184.1
10°	1186.0	1186.4	1182.7	1175.2	1169.2
12.5°	1169.2	1168.7	1163.6	1159.9	1150.1
15°	1142.6	1145.4	1142.6	1137.5	1129.5
17.5°	1117.0	1117.0	1118.8	1110.0	1103.9
20°	1088.0	1089.4	1089.4	1082.4	1075.4
22.5°	1054.5	1058.7	1060.1	1052.6	1044.2
25°	1014.8	1022.7	1027.4	1019.9	1011.1
27.5°	966.8	978.9	992.9	987.3	977.5
30°	913.1	930.9	954.2	949.5	942.5
32.5°	862.3	880.0	912.2	910.3	906.6
35°	816.1	827.3	865.1	869.8	866.5
37.5°	772.3	782.6	818.0	828.7	825.9
40°	726.1	737.3	765.3	784.4	785.4
42.5°	680.4	691.2	714.0	741.5	741.5
45°	631.9	642.7	663.6	694.0	697.7
47.5°	584.4	595.6	616.1	646.4	652.4
50°	537.7	548.0	568.5	597.9	607.2
52.5°	489.2	500.4	520.5	547.5	561.0
55°	442.6	450.0	472.0	498.1	512.5
57.5°	394.1	401.1	425.8	448.2	463.1
60°	347.4	356.3	375.4	398.3	415.5
62.5°	302.7	312.0	328.3	348.4	368.0
65°	259.3	266.3	282.2	302.2	319.5
67.5°	217.3	223.4	239.2	253.2	271.4
70°	174.9	182.8	194.5	208.0	219.7
72.5°	140.8	144.1	153.9	163.7	175.8
75°	104.0	109.6	117.5	123.1	130.1
77.5°	74.6	77.9	82.5	87.2	93.7
80°	49.9	51.3	55.5	56.4	61.6
82.5°	30.3	31.2	32.2	32.6	34.5
85°	16.3	16.3	16.3	15.4	15.4
87.5°	9.3	9.3	7.9	6.5	4.7
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)