

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: P555660

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-96-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: P555660  
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-30-UNV-81-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

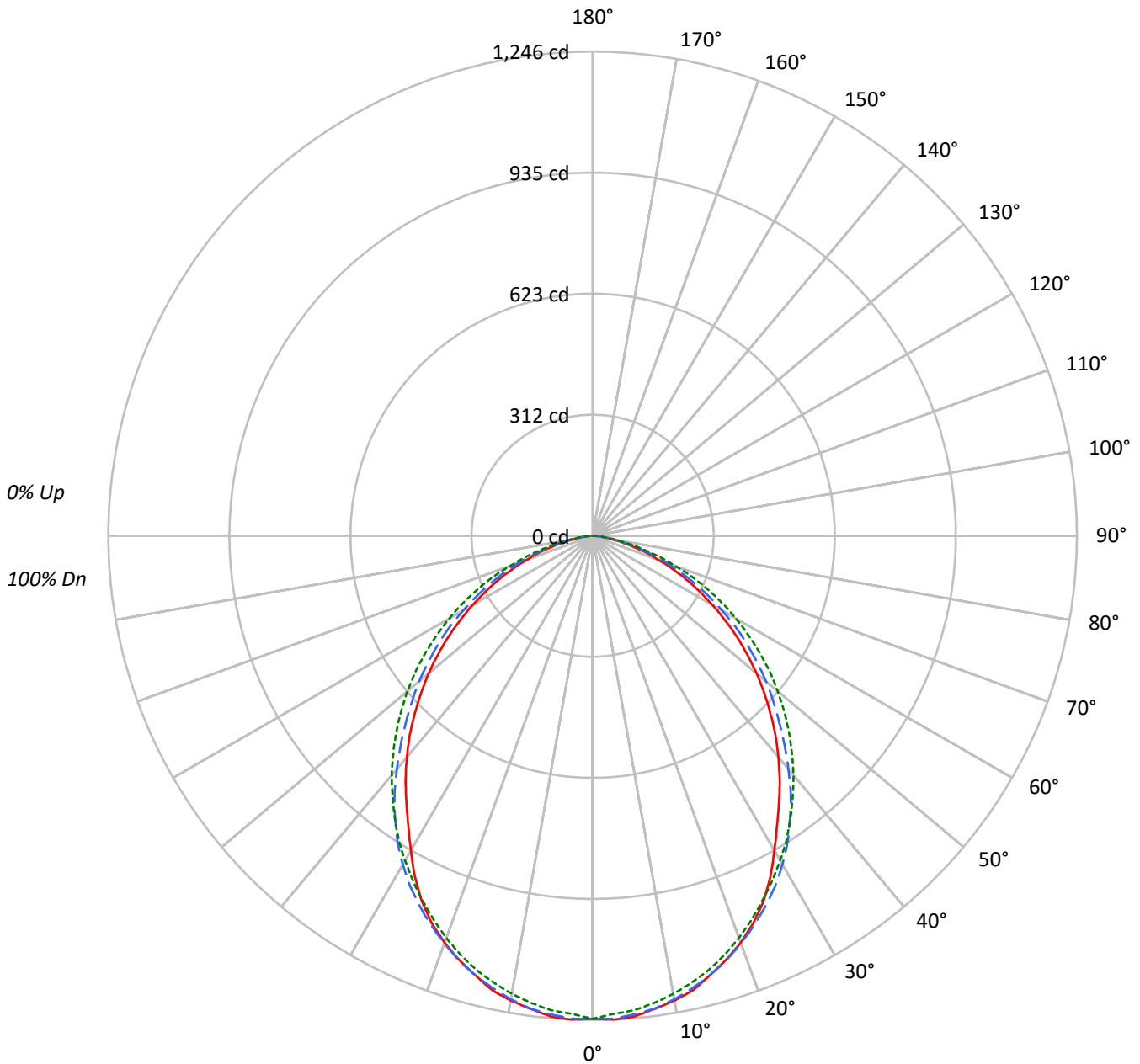
Lumens per Lamp: N/A  
Luminaire Lumens: 2874.0 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P555660

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-81-96-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P555660

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-81-96-EDD-90

**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°	6689	6689	6689
5°	6707	6679	6622
10°	6636	6618	6542
15°	6518	6518	6444
20°	6380	6388	6306
25°	6170	6247	6147
30°	5810	6072	5997
35°	5490	5820	5829
40°	5224	5505	5649
45°	4924	5172	5437
50°	4610	4874	5205
55°	4252	4534	4924
60°	3829	4138	4580
65°	3381	3679	4166
70°	2818	3133	3539
75°	2215	2502	2770
80°	1584	1760	1953
85°	1031	1031	976



TEST NUMBER: P555660

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-81-96-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	4.1
10°-20°	328.8	11.4
20°-30°	480.4	16.7
30°-40°	545.3	19.0
40°-50°	526.4	18.3
50°-60°	434.3	15.1
60°-70°	289.2	10.1
70°-80°	129.4	4.5
80°-90°	23.1	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°	926.2	32.2
0°-40°	1471.5	51.2
0°-60°	2432.3	84.6
0°-90°	2874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1242	1241	1236	1230	1226	118
15°	1170	1173	1170	1165	1156	330
25°	1039	1047	1052	1044	1035	476
35°	836	847	886	890	887	524
45°	647	658	680	710	714	499
55°	453	461	483	510	525	404
65°	266	273	289	309	327	263
75°	106	112	120	126	133	116
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



TEST NUMBER: P555660

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-81-96-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1242.9	1242.9	1242.9	1242.9	1242.9
2.5°	1246.3	1246.8	1243.9	1236.2	1231.5
5°	1241.5	1241.0	1236.2	1229.6	1225.7
7.5°	1227.7	1228.6	1227.2	1217.6	1212.4
10°	1214.3	1214.8	1210.9	1203.3	1197.1
12.5°	1197.1	1196.6	1191.4	1187.5	1177.5
15°	1169.9	1172.7	1169.9	1164.6	1156.5
17.5°	1143.6	1143.6	1145.5	1136.4	1130.2
20°	1114.0	1115.4	1115.4	1108.3	1101.1
22.5°	1079.6	1083.9	1085.4	1077.7	1069.1
25°	1039.0	1047.2	1051.9	1044.3	1035.2
27.5°	989.9	1002.3	1016.6	1010.9	1000.8
30°	934.9	953.1	977.0	972.2	965.0
32.5°	882.9	901.0	934.0	932.1	928.3
35°	835.6	847.1	885.8	890.5	887.2
37.5°	790.7	801.2	837.5	848.5	845.7
40°	743.5	754.9	783.6	803.2	804.1
42.5°	696.7	707.7	731.1	759.2	759.2
45°	647.0	658.0	679.5	710.5	714.3
47.5°	598.3	609.8	630.8	661.8	668.0
50°	550.6	561.1	582.1	612.2	621.7
52.5°	500.9	512.4	532.9	560.6	574.4
55°	453.1	460.8	483.2	510.0	524.8
57.5°	403.5	410.6	436.0	458.9	474.2
60°	355.7	364.8	384.4	407.8	425.5
62.5°	309.9	319.4	336.2	356.7	376.7
65°	265.5	272.7	288.9	309.4	327.1
67.5°	222.5	228.7	245.0	259.3	277.9
70°	179.1	187.2	199.1	213.0	224.9
72.5°	144.2	147.5	157.6	167.6	180.0
75°	106.5	112.2	120.3	126.1	133.2
77.5°	76.4	79.7	84.5	89.3	96.0
80°	51.1	52.5	56.8	57.8	63.0
82.5°	31.0	32.0	32.9	33.4	35.3
85°	16.7	16.7	16.7	15.8	15.8
87.5°	9.5	9.5	8.1	6.7	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)