

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: P555714

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-85-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: P555714  
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-81-85-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

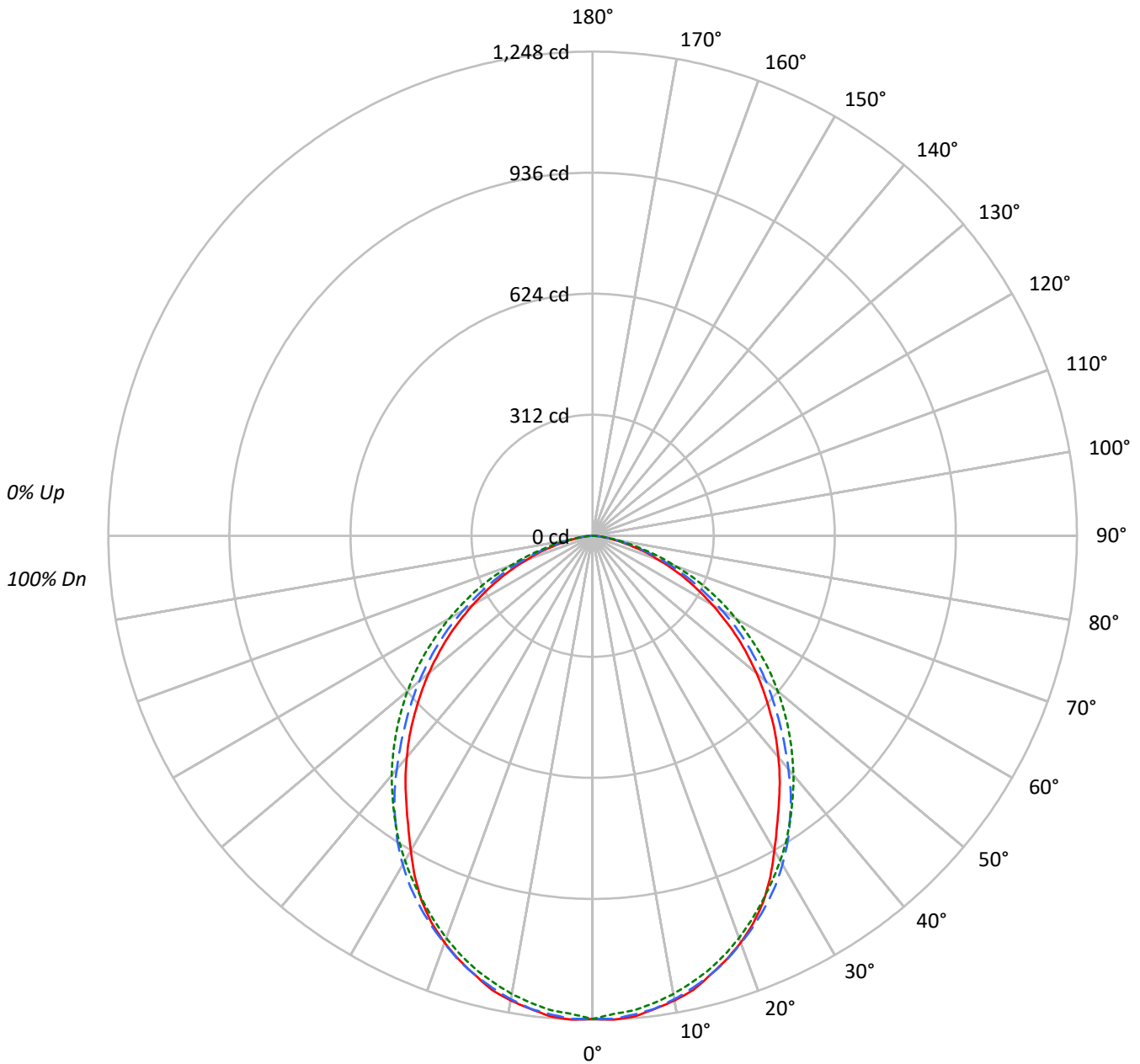
Lumens per Lamp: N/A  
Luminaire Lumens: 2879.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
Input Voltage (V): NR  
Input Current (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°	6701	6701	6701
5°	6719	6690	6634
10°	6648	6629	6554
15°	6530	6530	6455
20°	6391	6400	6317
25°	6181	6258	6158
30°	5821	6082	6008
35°	5500	5830	5839
40°	5233	5514	5659
45°	4933	5181	5447
50°	4618	4882	5215
55°	4259	4542	4933
60°	3836	4145	4588
65°	3387	3685	4173
70°	2823	3139	3545
75°	2219	2506	2776
80°	1587	1764	1956
85°	1031	1031	976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	4.1
10°-20°	329.3	11.4
20°-30°	481.3	16.7
30°-40°	546.3	19.0
40°-50°	527.3	18.3
50°-60°	435.0	15.1
60°-70°	289.7	10.1
70°-80°	129.6	4.5
80°-90°	23.2	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°	927.8	32.2
0°-40°	1474.1	51.2
0°-60°	2436.5	84.6
0°-90°	2879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1244	1243	1238	1232	1228	118
15°	1172	1175	1172	1167	1158	330
25°	1041	1049	1054	1046	1037	477
35°	837	849	887	892	889	524
45°	648	659	681	712	716	500
55°	454	462	484	511	526	405
65°	266	273	289	310	328	264
75°	107	112	120	126	134	117
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°	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1248.4	1248.9	1246.0	1238.4	1233.6
5°	1243.7	1243.2	1238.4	1231.7	1227.9
7.5°	1229.8	1230.7	1229.3	1219.7	1214.5
10°	1216.4	1216.9	1213.0	1205.4	1199.2
12.5°	1199.2	1198.7	1193.4	1189.6	1179.6
15°	1171.9	1174.8	1171.9	1166.6	1158.5
17.5°	1145.6	1145.6	1147.5	1138.4	1132.2
20°	1115.9	1117.4	1117.4	1110.2	1103.0
22.5°	1081.5	1085.8	1087.2	1079.6	1071.0
25°	1040.8	1049.0	1053.8	1046.1	1037.0
27.5°	991.6	1004.0	1018.4	1012.6	1002.6
30°	936.6	954.7	978.7	973.9	966.7
32.5°	884.4	902.6	935.6	933.7	929.9
35°	837.1	848.6	887.3	892.1	888.7
37.5°	792.1	802.6	839.0	850.0	847.1
40°	744.8	756.2	784.9	804.6	805.5
42.5°	697.9	708.9	732.3	760.5	760.5
45°	648.1	659.1	680.7	711.8	715.6
47.5°	599.3	610.8	631.9	663.0	669.2
50°	551.5	562.0	583.1	613.2	622.8
52.5°	501.8	513.2	533.8	561.6	575.4
55°	453.9	461.6	484.1	510.9	525.7
57.5°	404.2	411.4	436.7	459.7	475.0
60°	356.4	365.4	385.1	408.5	426.2
62.5°	310.4	320.0	336.7	357.3	377.4
65°	266.0	273.1	289.4	310.0	327.7
67.5°	222.9	229.1	245.4	259.7	278.4
70°	179.4	187.5	199.5	213.3	225.3
72.5°	144.5	147.8	157.8	167.9	180.3
75°	106.7	112.4	120.5	126.3	133.5
77.5°	76.5	79.9	84.7	89.4	96.1
80°	51.2	52.6	56.9	57.9	63.1
82.5°	31.1	32.0	33.0	33.5	35.4
85°	16.7	16.7	16.7	15.8	15.8
87.5°	9.6	9.6	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)