

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: P555712

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-84-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: P555712  
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-81-84-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

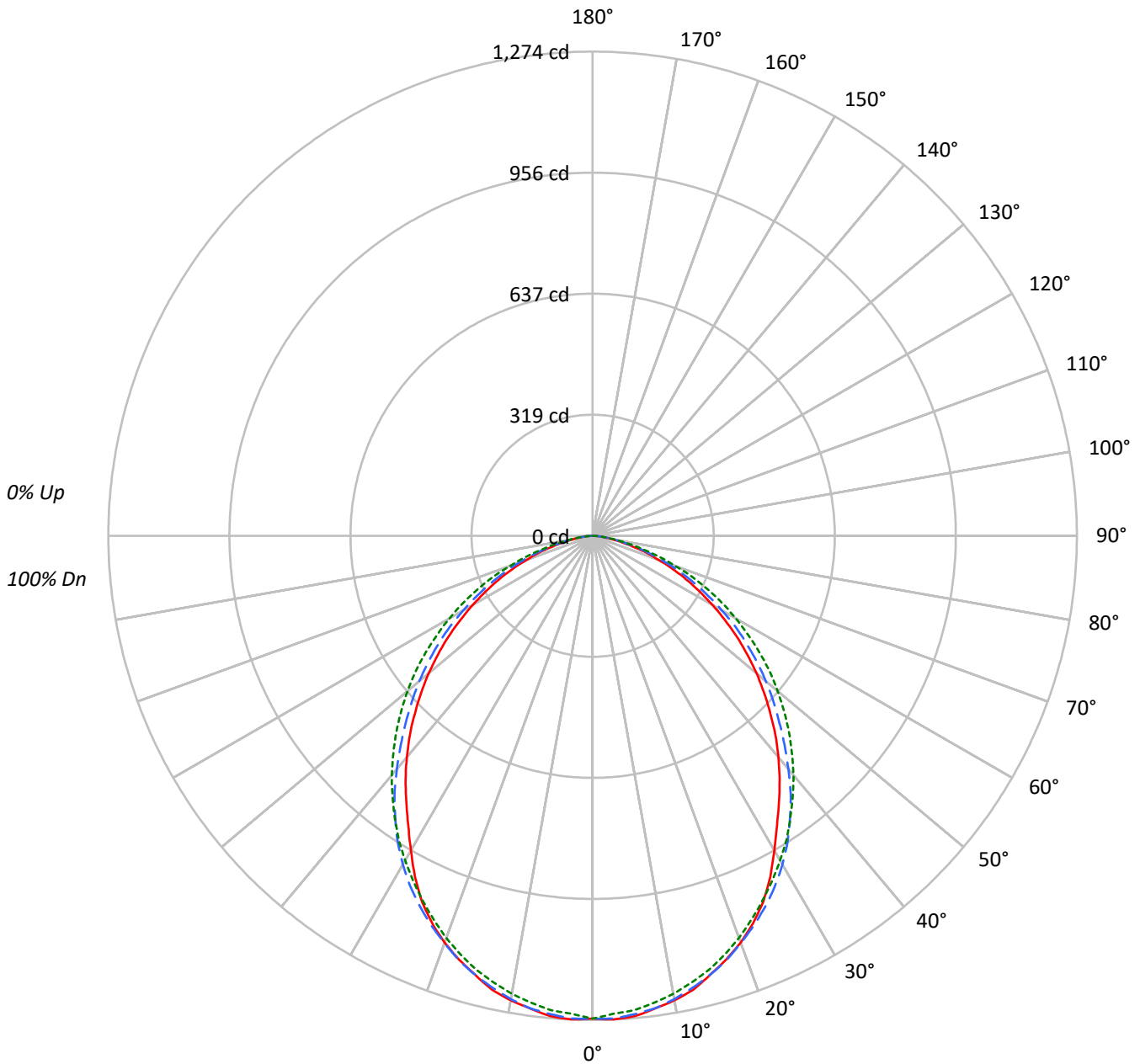
Lumens per Lamp: N/A  
Luminaire Lumens: 2938.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6838	6838	6838
5°	6856	6828	6769
10°	6784	6765	6687
15°	6663	6663	6588
20°	6522	6531	6447
25°	6308	6386	6285
30°	5940	6206	6131
35°	5612	5949	5959
40°	5339	5628	5775
45°	5034	5287	5558
50°	4712	4982	5321
55°	4346	4635	5034
60°	3915	4229	4681
65°	3456	3761	4259
70°	2880	3204	3618
75°	2264	2558	2832
80°	1618	1801	1996
85°	1056	1056	994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.6	4.1
10°-20°	336.1	11.4
20°-30°	491.1	16.7
30°-40°	557.5	19.0
40°-50°	538.1	18.3
50°-60°	443.9	15.1
60°-70°	295.6	10.1
70°-80°	132.3	4.5
80°-90°	23.7	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°	946.8	32.2
0°-40°	1504.3	51.2
0°-60°	2486.4	84.6
0°-90°	2938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1269	1269	1264	1257	1253	120
15°	1196	1199	1196	1191	1182	337
25°	1062	1070	1075	1068	1058	486
35°	854	866	906	910	907	535
45°	661	673	695	726	730	510
55°	463	471	494	521	536	413
65°	271	279	295	316	334	269
75°	109	115	123	129	136	119
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°	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1274.0	1274.5	1271.6	1263.8	1258.9
5°	1269.1	1268.7	1263.8	1256.9	1253.0
7.5°	1255.0	1256.0	1254.5	1244.7	1239.4
10°	1241.3	1241.8	1237.9	1230.1	1223.7
12.5°	1223.7	1223.3	1217.9	1214.0	1203.7
15°	1195.9	1198.9	1195.9	1190.6	1182.3
17.5°	1169.1	1169.1	1171.0	1161.8	1155.4
20°	1138.8	1140.3	1140.3	1133.0	1125.6
22.5°	1103.7	1108.1	1109.5	1101.7	1092.9
25°	1062.2	1070.5	1075.4	1067.5	1058.3
27.5°	1011.9	1024.6	1039.2	1033.4	1023.1
30°	955.8	974.3	998.7	993.8	986.5
32.5°	902.6	921.1	954.8	952.8	948.9
35°	854.2	865.9	905.5	910.4	907.0
37.5°	808.3	819.1	856.2	867.4	864.5
40°	760.0	771.7	801.0	821.0	822.0
42.5°	712.2	723.4	747.3	776.1	776.1
45°	661.4	672.6	694.6	726.3	730.2
47.5°	611.6	623.3	644.8	676.6	682.9
50°	562.8	573.6	595.0	625.8	635.5
52.5°	512.1	523.8	544.8	573.1	587.2
55°	463.2	471.0	494.0	521.3	536.5
57.5°	412.5	419.8	445.7	469.1	484.7
60°	363.7	372.9	392.9	416.9	434.9
62.5°	316.8	326.6	343.6	364.6	385.1
65°	271.4	278.7	295.3	316.3	334.4
67.5°	227.5	233.8	250.4	265.1	284.1
70°	183.0	191.3	203.6	217.7	229.9
72.5°	147.4	150.8	161.1	171.3	184.0
75°	108.9	114.7	123.0	128.9	136.2
77.5°	78.1	81.5	86.4	91.3	98.1
80°	52.2	53.7	58.1	59.1	64.4
82.5°	31.7	32.7	33.7	34.2	36.1
85°	17.1	17.1	17.1	16.1	16.1
87.5°	9.8	9.8	8.3	6.8	4.9
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)