

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: P555124

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-86-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: P555124  
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-LD4-2STD-30-UNV-80-86-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

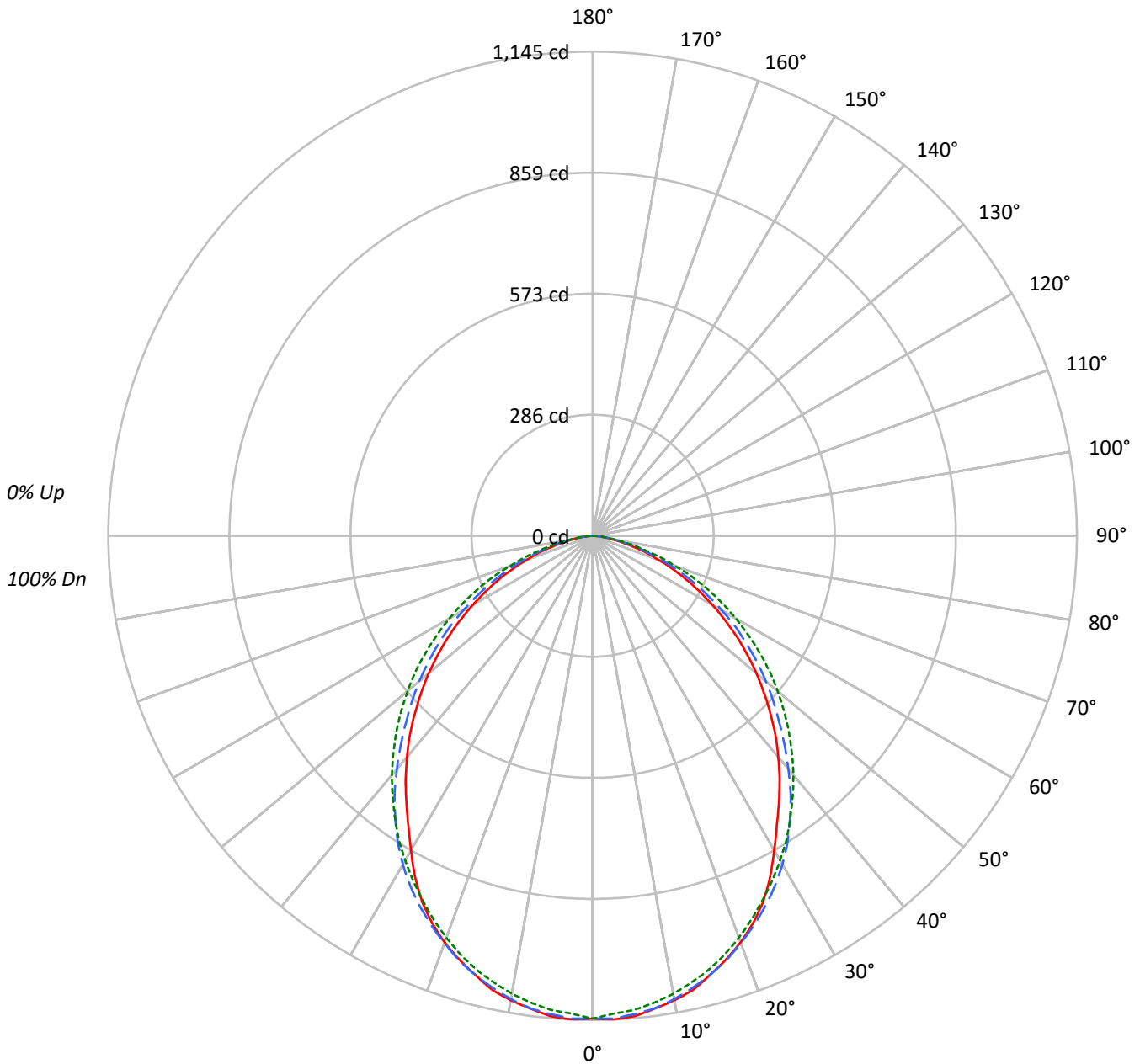
Lumens per Lamp: N/A  
Luminaire Lumens: 2640.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6145	6145	6145
5°	6161	6135	6083
10°	6096	6079	6009
15°	5987	5987	5919
20°	5861	5868	5793
25°	5668	5738	5647
30°	5337	5577	5509
35°	5043	5345	5355
40°	4798	5057	5189
45°	4523	4751	4994
50°	4234	4477	4782
55°	3906	4165	4523
60°	3518	3801	4207
65°	3106	3380	3827
70°	2589	2878	3251
75°	2034	2298	2545
80°	1454	1618	1795
85°	951	951	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	4.1
10°-20°	302.0	11.4
20°-30°	441.3	16.7
30°-40°	500.9	19.0
40°-50°	483.6	18.3
50°-60°	398.9	15.1
60°-70°	265.7	10.1
70°-80°	118.9	4.5
80°-90°	21.3	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°	850.8	32.2
0°-40°	1351.7	51.2
0°-60°	2234.2	84.6
0°-90°	2640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1140	1140	1136	1130	1126	108
15°	1075	1077	1075	1070	1062	303
25°	954	962	966	959	951	437
35°	768	778	814	818	815	481
45°	594	604	624	653	656	459
55°	416	423	444	468	482	372
65°	244	250	265	284	300	242
75°	98	103	110	116	122	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1144.8	1145.2	1142.6	1135.6	1131.2
5°	1140.4	1140.0	1135.6	1129.5	1125.9
7.5°	1127.7	1128.6	1127.3	1118.5	1113.7
10°	1115.4	1115.9	1112.3	1105.3	1099.6
12.5°	1099.6	1099.2	1094.4	1090.9	1081.6
15°	1074.6	1077.3	1074.6	1069.8	1062.3
17.5°	1050.5	1050.5	1052.3	1043.9	1038.2
20°	1023.3	1024.6	1024.6	1018.0	1011.5
22.5°	991.7	995.7	997.0	990.0	982.1
25°	954.4	961.9	966.3	959.3	950.9
27.5°	909.3	920.7	933.8	928.6	919.4
30°	858.8	875.5	897.4	893.0	886.5
32.5°	811.0	827.7	857.9	856.2	852.7
35°	767.6	778.1	813.6	818.0	815.0
37.5°	726.4	736.0	769.3	779.4	776.8
40°	682.9	693.5	719.8	737.8	738.6
42.5°	639.9	650.0	671.5	697.4	697.4
45°	594.3	604.4	624.2	652.7	656.2
47.5°	549.6	560.1	579.4	607.9	613.6
50°	505.7	515.4	534.7	562.3	571.1
52.5°	460.1	470.6	489.5	514.9	527.7
55°	416.3	423.3	443.9	468.4	482.0
57.5°	370.6	377.2	400.5	421.5	435.6
60°	326.8	335.1	353.1	374.6	390.8
62.5°	284.7	293.4	308.8	327.7	346.1
65°	243.9	250.5	265.4	284.2	300.5
67.5°	204.4	210.1	225.0	238.2	255.3
70°	164.5	171.9	182.9	195.6	206.6
72.5°	132.5	135.5	144.7	154.0	165.4
75°	97.8	103.1	110.5	115.8	122.4
77.5°	70.2	73.2	77.6	82.0	88.2
80°	46.9	48.2	52.2	53.1	57.9
82.5°	28.5	29.4	30.3	30.7	32.5
85°	15.4	15.4	15.4	14.5	14.5
87.5°	8.8	8.8	7.5	6.1	4.4
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)