

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: P554442

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-81-94-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: P554442
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-LD4-1STD-35-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

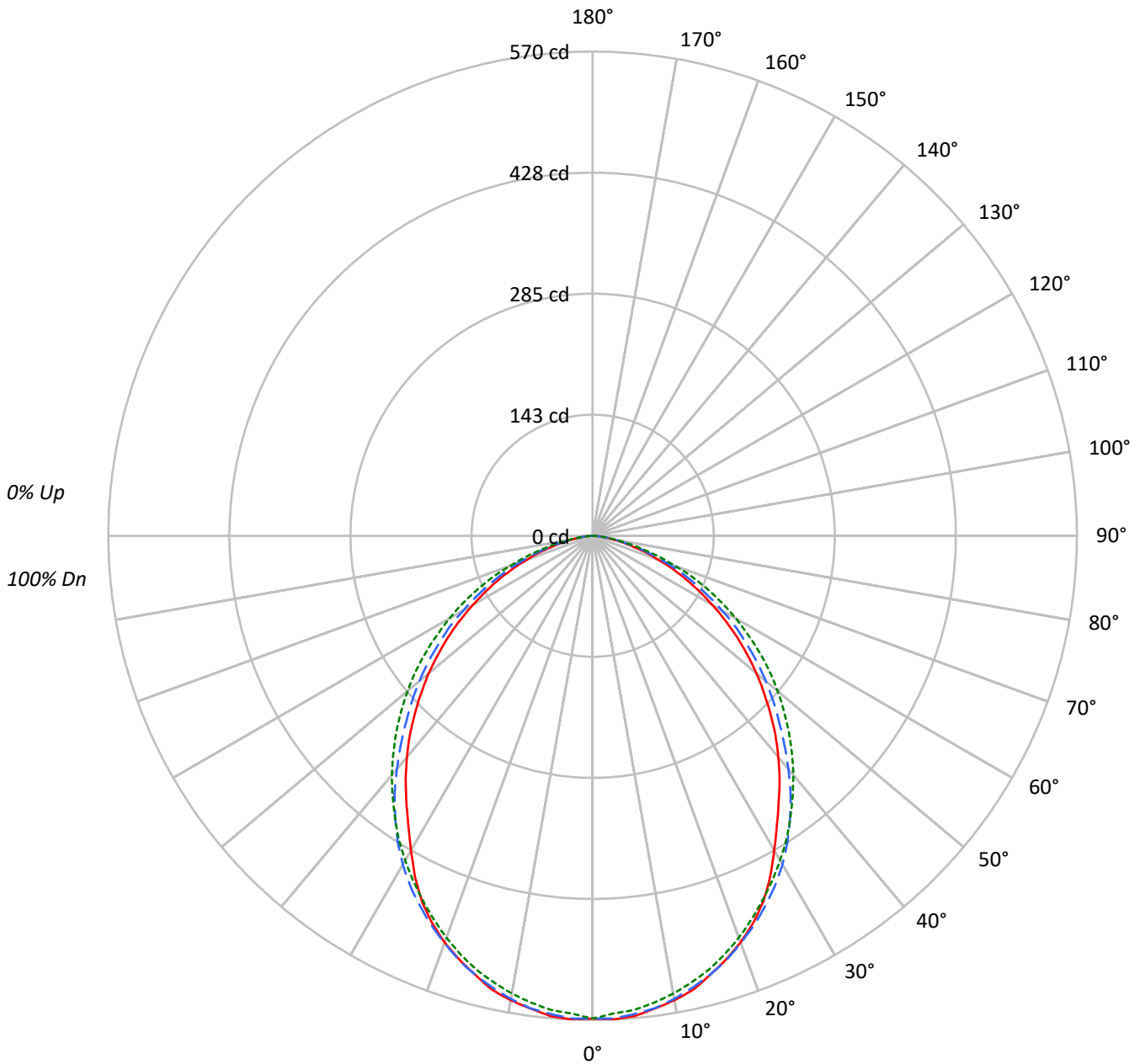
Lumens per Lamp: N/A
Luminaire Lumens: 1314.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3059	3059	3059
5°	3066	3054	3028
10°	3034	3025	2991
15°	2980	2980	2946
20°	2917	2921	2883
25°	2821	2856	2811
30°	2657	2776	2742
35°	2510	2661	2665
40°	2388	2517	2583
45°	2251	2365	2486
50°	2107	2228	2380
55°	1944	2073	2251
60°	1750	1891	2094
65°	1546	1682	1904
70°	1289	1432	1618
75°	1013	1144	1266
80°	725	806	893
85°	469	469	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	4.1
10°-20°	150.3	11.4
20°-30°	219.7	16.7
30°-40°	249.3	19.0
40°-50°	240.7	18.3
50°-60°	198.5	15.1
60°-70°	132.2	10.1
70°-80°	59.2	4.5
80°-90°	10.6	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°	423.5	32.2
0°-40°	672.8	51.2
0°-60°	1112.0	84.6
0°-90°	1314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	568	567	565	562	560	54
15°	535	536	535	532	529	151
25°	475	479	481	478	473	218
35°	382	387	405	407	406	239
45°	296	301	311	325	327	228
55°	207	211	221	233	240	185
65°	121	125	132	142	150	120
75°	49	51	55	58	61	53
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.3	568.3	568.3	568.3	568.3
2.5°	569.8	570.0	568.7	565.2	563.0
5°	567.6	567.4	565.2	562.2	560.4
7.5°	561.3	561.7	561.1	556.7	554.3
10°	555.2	555.4	553.6	550.2	547.3
12.5°	547.3	547.1	544.7	542.9	538.4
15°	534.9	536.2	534.9	532.5	528.8
17.5°	522.9	522.9	523.7	519.6	516.7
20°	509.3	510.0	510.0	506.7	503.4
22.5°	493.6	495.6	496.2	492.7	488.8
25°	475.1	478.8	480.9	477.5	473.3
27.5°	452.6	458.2	464.8	462.2	457.6
30°	427.5	435.8	446.7	444.5	441.2
32.5°	403.7	412.0	427.0	426.1	424.4
35°	382.0	387.3	405.0	407.2	405.6
37.5°	361.5	366.3	382.9	387.9	386.6
40°	339.9	345.2	358.3	367.2	367.6
42.5°	318.5	323.5	334.2	347.1	347.1
45°	295.8	300.8	310.7	324.9	326.6
47.5°	273.5	278.8	288.4	302.6	305.4
50°	251.7	256.5	266.1	279.9	284.2
52.5°	229.0	234.3	243.6	256.3	262.6
55°	207.2	210.7	220.9	233.2	239.9
57.5°	184.5	187.7	199.3	209.8	216.8
60°	162.6	166.8	175.7	186.4	194.5
62.5°	141.7	146.1	153.7	163.1	172.2
65°	121.4	124.7	132.1	141.5	149.5
67.5°	101.7	104.6	112.0	118.5	127.1
70°	81.9	85.6	91.0	97.4	102.8
72.5°	65.9	67.5	72.0	76.6	82.3
75°	48.7	51.3	55.0	57.6	60.9
77.5°	34.9	36.5	38.6	40.8	43.9
80°	23.4	24.0	26.0	26.4	28.8
82.5°	14.2	14.6	15.1	15.3	16.2
85°	7.6	7.6	7.6	7.2	7.2
87.5°	4.4	4.4	3.7	3.1	2.2
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)