

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: P554125

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-81-96-EDD**

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: P554125
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-LD4-1LO-30-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

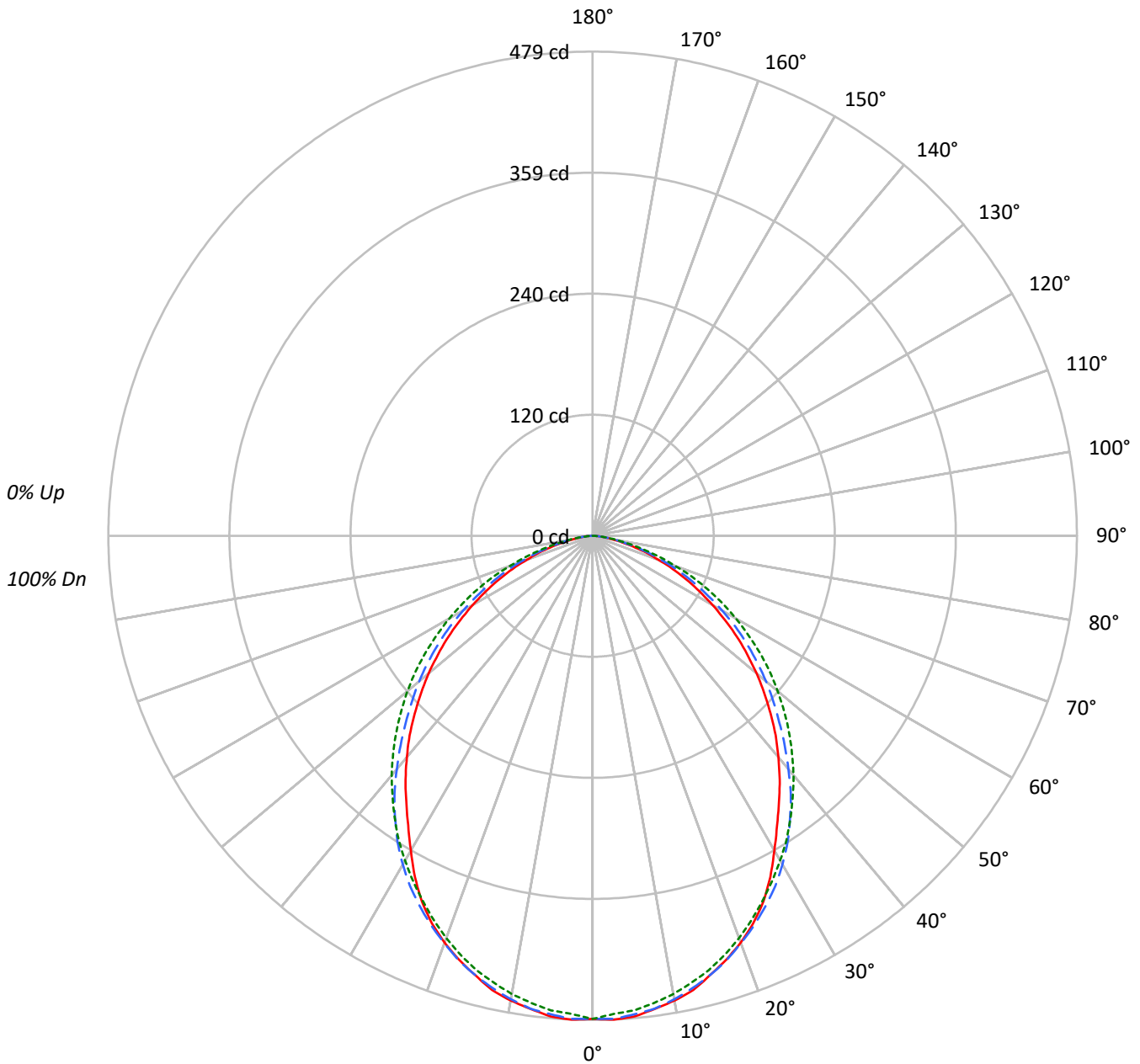
Lumens per Lamp: N/A
Luminaire Lumens: 1105.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2572	2572	2572
5°	2579	2568	2546
10°	2552	2544	2516
15°	2506	2506	2478
20°	2453	2456	2425
25°	2372	2401	2363
30°	2234	2334	2306
35°	2111	2238	2241
40°	2008	2117	2172
45°	1894	1988	2091
50°	1773	1874	2001
55°	1635	1743	1894
60°	1473	1591	1761
65°	1300	1415	1602
70°	1083	1205	1361
75°	850	963	1065
80°	607	676	750
85°	395	395	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	4.1
10°-20°	126.4	11.4
20°-30°	184.7	16.7
30°-40°	209.7	19.0
40°-50°	202.4	18.3
50°-60°	167.0	15.1
60°-70°	111.2	10.1
70°-80°	49.8	4.5
80°-90°	8.9	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°	356.1	32.2
0°-40°	565.8	51.2
0°-60°	935.2	84.6
0°-90°	1105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	477	477	475	473	471	45
15°	450	451	450	448	445	127
25°	400	403	404	402	398	183
35°	321	326	341	342	341	201
45°	249	253	261	273	275	192
55°	174	177	186	196	202	155
65°	102	105	111	119	126	101
75°	41	43	46	48	51	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.9	477.9	477.9	477.9	477.9
2.5°	479.2	479.4	478.3	475.3	473.5
5°	477.3	477.1	475.3	472.7	471.3
7.5°	472.0	472.4	471.8	468.2	466.1
10°	466.9	467.1	465.6	462.6	460.3
12.5°	460.3	460.1	458.1	456.6	452.7
15°	449.8	450.9	449.8	447.8	444.7
17.5°	439.7	439.7	440.4	436.9	434.6
20°	428.3	428.9	428.9	426.1	423.4
22.5°	415.1	416.7	417.3	414.4	411.1
25°	399.5	402.6	404.4	401.5	398.0
27.5°	380.6	385.4	390.9	388.7	384.8
30°	359.5	366.4	375.6	373.8	371.0
32.5°	339.5	346.4	359.1	358.4	356.9
35°	321.3	325.7	340.6	342.4	341.1
37.5°	304.0	308.1	322.0	326.2	325.1
40°	285.8	290.3	301.3	308.8	309.2
42.5°	267.9	272.1	281.1	291.9	291.9
45°	248.8	253.0	261.2	273.2	274.7
47.5°	230.0	234.4	242.5	254.5	256.8
50°	211.7	215.7	223.8	235.4	239.0
52.5°	192.6	197.0	204.9	215.5	220.9
55°	174.2	177.2	185.8	196.1	201.8
57.5°	155.1	157.9	167.6	176.4	182.3
60°	136.8	140.3	147.8	156.8	163.6
62.5°	119.1	122.8	129.2	137.1	144.9
65°	102.1	104.8	111.1	119.0	125.8
67.5°	85.6	87.9	94.2	99.7	106.8
70°	68.8	72.0	76.6	81.9	86.5
72.5°	55.4	56.7	60.6	64.4	69.2
75°	40.9	43.1	46.3	48.5	51.2
77.5°	29.4	30.7	32.5	34.3	36.9
80°	19.6	20.2	21.8	22.2	24.2
82.5°	11.9	12.3	12.7	12.9	13.6
85°	6.4	6.4	6.4	6.1	6.1
87.5°	3.7	3.7	3.1	2.6	1.8
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)