

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: P554350

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-97-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: P554350
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-50-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

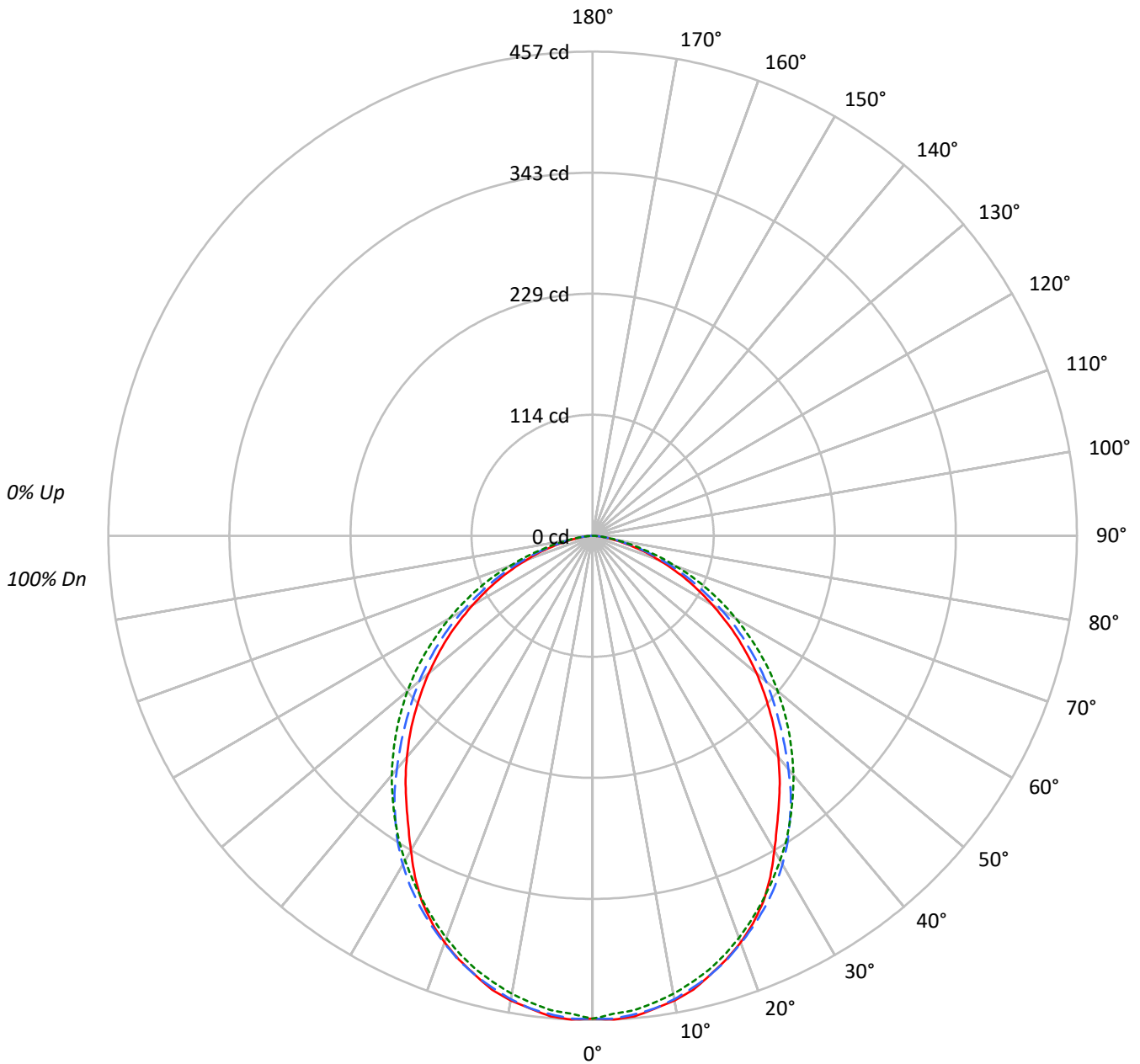
Lumens per Lamp: N/A
Luminaire Lumens: 1054.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2453	2453	2453
5°	2460	2450	2428
10°	2434	2427	2399
15°	2390	2390	2363
20°	2340	2343	2313
25°	2263	2291	2255
30°	2131	2227	2199
35°	2014	2134	2138
40°	1916	2019	2072
45°	1806	1897	1994
50°	1690	1788	1909
55°	1559	1663	1806
60°	1405	1518	1679
65°	1240	1349	1528
70°	1034	1149	1298
75°	813	917	1017
80°	580	645	716
85°	377	377	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	4.1
10°-20°	120.6	11.4
20°-30°	176.2	16.7
30°-40°	200.0	19.0
40°-50°	193.1	18.3
50°-60°	159.3	15.1
60°-70°	106.1	10.1
70°-80°	47.5	4.5
80°-90°	8.5	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°	339.7	32.2
0°-40°	539.7	51.2
0°-60°	892.0	84.6
0°-90°	1054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	455	455	453	451	450	43
15°	429	430	429	427	424	121
25°	381	384	386	383	380	175
35°	306	311	325	327	325	192
45°	237	241	249	261	262	183
55°	166	169	177	187	192	148
65°	97	100	106	114	120	97
75°	39	41	44	46	49	43
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.8	455.8	455.8	455.8	455.8
2.5°	457.1	457.2	456.2	453.4	451.6
5°	455.3	455.1	453.4	450.9	449.5
7.5°	450.2	450.6	450.0	446.5	444.6
10°	445.3	445.5	444.1	441.3	439.0
12.5°	439.0	438.8	436.9	435.5	431.8
15°	429.0	430.1	429.0	427.1	424.1
17.5°	419.4	419.4	420.1	416.8	414.5
20°	408.5	409.1	409.1	406.4	403.8
22.5°	395.9	397.5	398.0	395.2	392.1
25°	381.1	384.0	385.8	383.0	379.7
27.5°	363.0	367.6	372.8	370.7	367.0
30°	342.9	349.5	358.3	356.5	353.9
32.5°	323.8	330.4	342.5	341.8	340.4
35°	306.5	310.7	324.8	326.6	325.4
37.5°	290.0	293.8	307.2	311.2	310.1
40°	272.7	276.9	287.4	294.5	294.9
42.5°	255.5	259.5	268.1	278.4	278.4
45°	237.3	241.3	249.2	260.6	262.0
47.5°	219.4	223.6	231.3	242.7	245.0
50°	201.9	205.8	213.5	224.5	228.0
52.5°	183.7	187.9	195.4	205.6	210.7
55°	166.2	169.0	177.2	187.0	192.5
57.5°	148.0	150.6	159.9	168.3	173.9
60°	130.5	133.8	141.0	149.5	156.0
62.5°	113.7	117.2	123.3	130.8	138.2
65°	97.4	100.0	105.9	113.5	120.0
67.5°	81.6	83.9	89.8	95.1	101.9
70°	65.7	68.6	73.0	78.1	82.5
72.5°	52.9	54.1	57.8	61.5	66.0
75°	39.1	41.2	44.1	46.2	48.9
77.5°	28.0	29.2	31.0	32.7	35.2
80°	18.7	19.3	20.8	21.2	23.1
82.5°	11.4	11.7	12.1	12.3	13.0
85°	6.1	6.1	6.1	5.8	5.8
87.5°	3.5	3.5	3.0	2.5	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)