

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: P554326

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-82-87-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: P554326
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

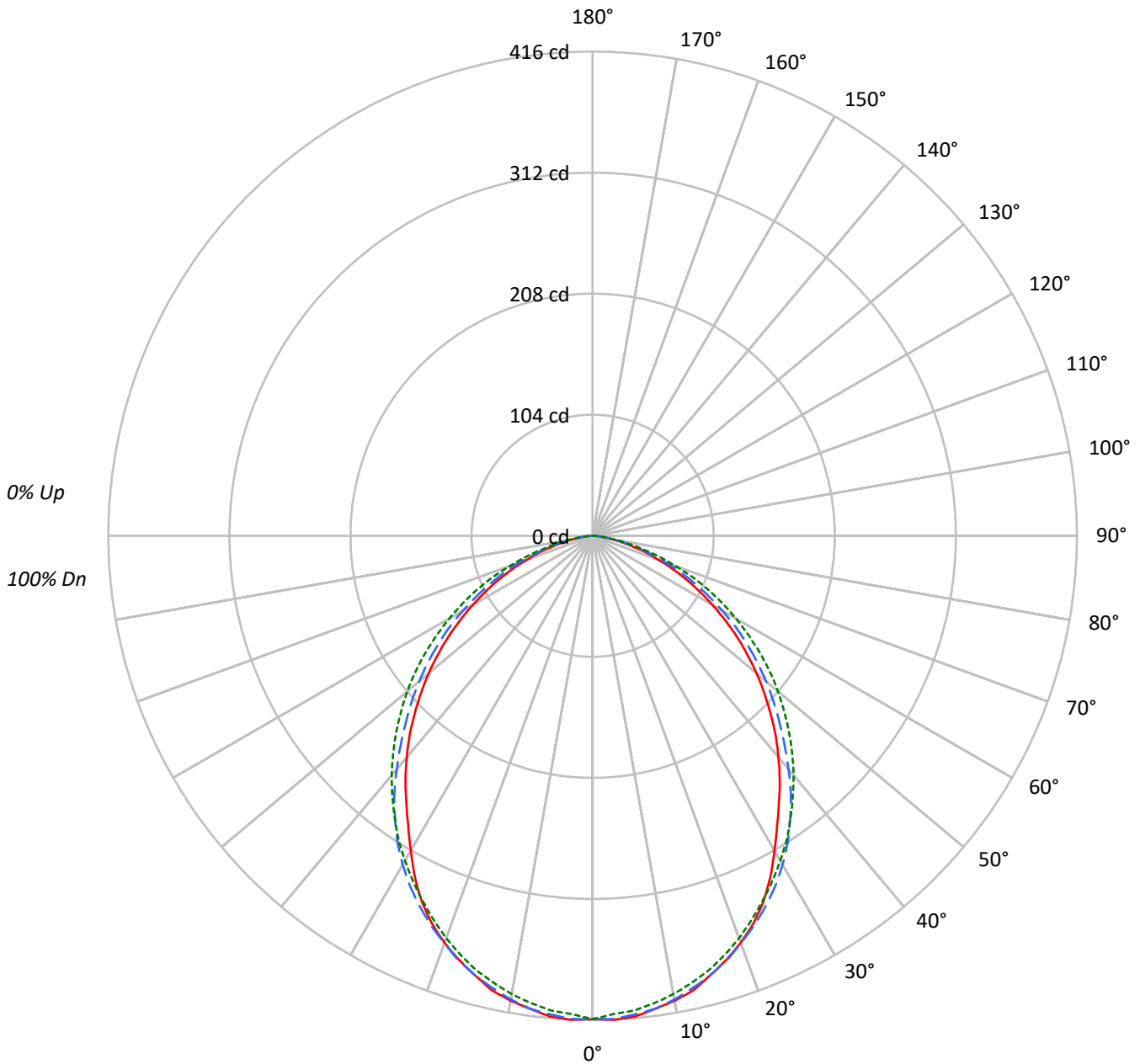
Lumens per Lamp: N/A
Luminaire Lumens: 960.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554326

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-82-87-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554326

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-82-87-EDD-90

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°	2235	2235	2235
5°	2240	2231	2212
10°	2217	2211	2185
15°	2177	2177	2152
20°	2131	2134	2107
25°	2061	2087	2053
30°	1941	2028	2003
35°	1834	1944	1947
40°	1744	1839	1887
45°	1645	1728	1816
50°	1540	1628	1739
55°	1421	1514	1645
60°	1279	1382	1530
65°	1130	1229	1392
70°	941	1046	1182
75°	740	836	925
80°	530	589	654
85°	346	346	327



TEST NUMBER: P554326

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-82-87-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	4.1
10°-20°	109.8	11.4
20°-30°	160.5	16.7
30°-40°	182.2	19.0
40°-50°	175.8	18.3
50°-60°	145.1	15.1
60°-70°	96.6	10.1
70°-80°	43.2	4.5
80°-90°	7.7	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°	309.4	32.2
0°-40°	491.5	51.2
0°-60°	812.4	84.6
0°-90°	960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	415	414	413	411	409	39
15°	391	392	391	389	386	110
25°	347	350	351	349	346	159
35°	279	283	296	298	296	175
45°	216	220	227	237	239	167
55°	151	154	161	170	175	135
65°	89	91	96	103	109	88
75°	36	38	40	42	44	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



TEST NUMBER: P554326

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-82-87-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	415.2	415.2	415.2	415.2	415.2
2.5°	416.3	416.5	415.5	412.9	411.3
5°	414.7	414.5	412.9	410.7	409.4
7.5°	410.1	410.4	409.9	406.7	405.0
10°	405.6	405.8	404.5	401.9	399.9
12.5°	399.9	399.7	397.9	396.7	393.3
15°	390.8	391.7	390.8	389.0	386.3
17.5°	382.0	382.0	382.6	379.6	377.5
20°	372.1	372.6	372.6	370.2	367.8
22.5°	360.6	362.1	362.5	360.0	357.1
25°	347.1	349.8	351.4	348.8	345.8
27.5°	330.6	334.8	339.6	337.7	334.3
30°	312.3	318.4	326.3	324.7	322.3
32.5°	294.9	301.0	312.0	311.3	310.1
35°	279.1	283.0	295.9	297.5	296.3
37.5°	264.1	267.6	279.8	283.4	282.5
40°	248.3	252.2	261.7	268.3	268.6
42.5°	232.7	236.4	244.2	253.6	253.6
45°	216.1	219.8	227.0	237.3	238.6
47.5°	199.9	203.7	210.7	221.1	223.1
50°	183.9	187.4	194.4	204.5	207.7
52.5°	167.3	171.1	178.0	187.3	191.9
55°	151.4	153.9	161.4	170.3	175.3
57.5°	134.8	137.2	145.6	153.3	158.4
60°	118.8	121.9	128.4	136.2	142.1
62.5°	103.5	106.7	112.3	119.1	125.8
65°	88.7	91.1	96.5	103.4	109.3
67.5°	74.3	76.4	81.8	86.6	92.8
70°	59.8	62.5	66.5	71.1	75.1
72.5°	48.2	49.3	52.6	56.0	60.1
75°	35.6	37.5	40.2	42.1	44.5
77.5°	25.5	26.6	28.2	29.8	32.1
80°	17.1	17.5	19.0	19.3	21.1
82.5°	10.4	10.7	11.0	11.2	11.8
85°	5.6	5.6	5.6	5.3	5.3
87.5°	3.2	3.2	2.7	2.2	1.6
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)