

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: P554265

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-88-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: P554265
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-40-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

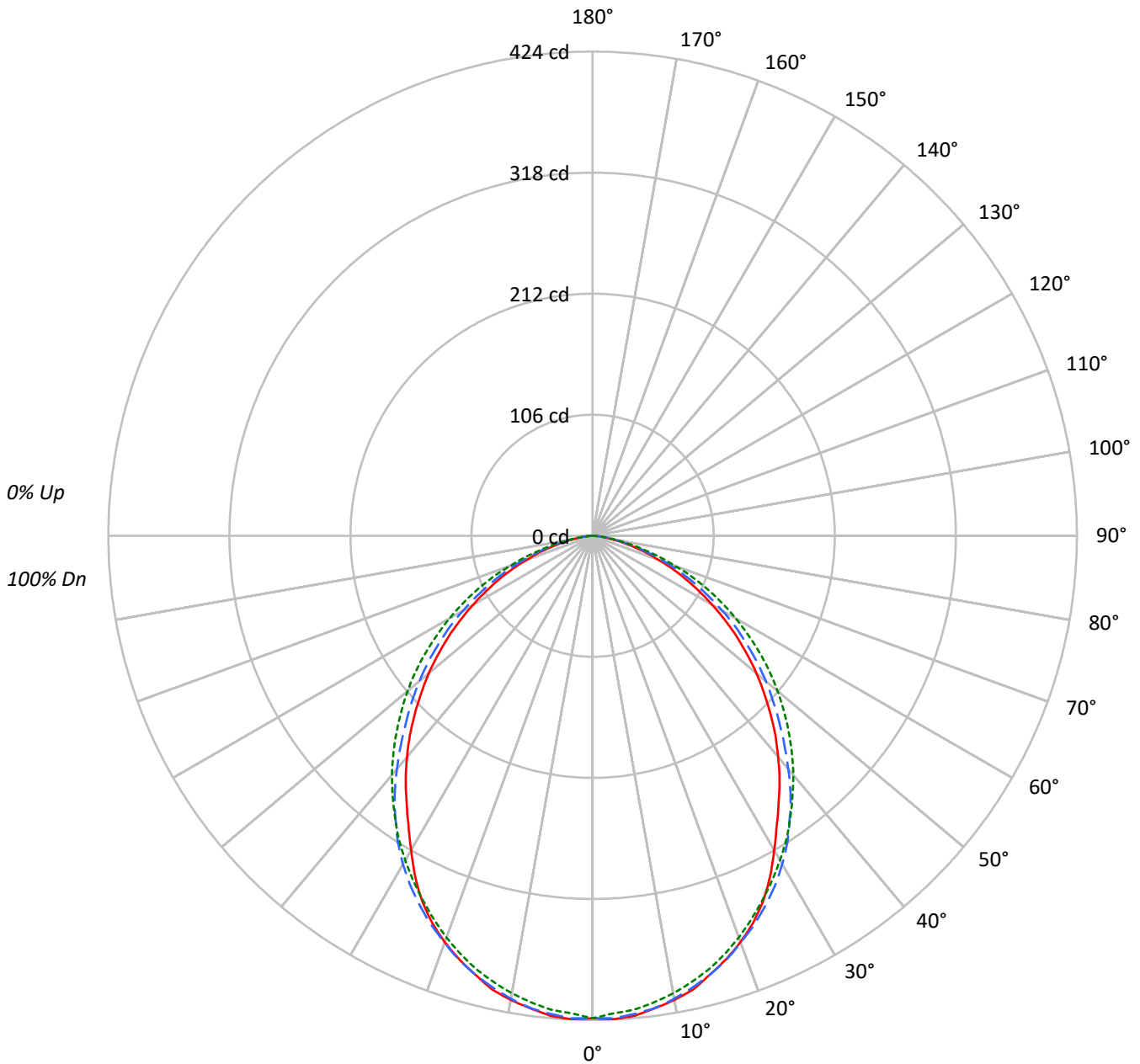
Lumens per Lamp: N/A
Luminaire Lumens: 977.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554265

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554265

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-88-EDD

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°	2274	2274	2274
5°	2280	2271	2251
10°	2256	2250	2224
15°	2216	2216	2190
20°	2169	2172	2144
25°	2097	2124	2090
30°	1975	2064	2039
35°	1867	1978	1982
40°	1775	1872	1921
45°	1674	1758	1848
50°	1567	1657	1769
55°	1445	1542	1674
60°	1301	1407	1556
65°	1150	1251	1416
70°	958	1065	1204
75°	753	850	942
80°	539	598	663
85°	352	352	333



TEST NUMBER: P554265

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	4.1
10°-20°	111.8	11.4
20°-30°	163.3	16.7
30°-40°	185.4	19.0
40°-50°	179.0	18.3
50°-60°	147.6	15.1
60°-70°	98.3	10.1
70°-80°	44.0	4.5
80°-90°	7.9	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°	314.9	32.2
0°-40°	500.2	51.2
0°-60°	826.8	84.6
0°-90°	977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	422	422	420	418	417	40
15°	398	399	398	396	393	112
25°	353	356	358	355	352	162
35°	284	288	301	303	302	178
45°	220	224	231	242	243	170
55°	154	157	164	173	178	137
65°	90	93	98	105	111	89
75°	36	38	41	43	45	40
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



TEST NUMBER: P554265

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-82-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	422.5	422.5	422.5	422.5	422.5
2.5°	423.7	423.8	422.9	420.3	418.6
5°	422.0	421.9	420.3	418.0	416.7
7.5°	417.3	417.7	417.2	413.9	412.1
10°	412.8	413.0	411.7	409.1	406.9
12.5°	406.9	406.8	405.0	403.7	400.3
15°	397.7	398.7	397.7	395.9	393.1
17.5°	388.8	388.8	389.4	386.3	384.2
20°	378.7	379.2	379.2	376.8	374.3
22.5°	367.0	368.5	369.0	366.4	363.4
25°	353.2	356.0	357.6	355.0	351.9
27.5°	336.5	340.7	345.6	343.6	340.2
30°	317.8	324.0	332.1	330.5	328.1
32.5°	300.1	306.3	317.5	316.9	315.6
35°	284.1	288.0	301.1	302.7	301.6
37.5°	268.8	272.4	284.7	288.4	287.5
40°	252.7	256.6	266.4	273.0	273.4
42.5°	236.8	240.6	248.5	258.1	258.1
45°	219.9	223.7	231.0	241.5	242.8
47.5°	203.4	207.3	214.4	225.0	227.1
50°	187.2	190.7	197.9	208.1	211.3
52.5°	170.3	174.2	181.2	190.6	195.3
55°	154.0	156.6	164.3	173.4	178.4
57.5°	137.2	139.6	148.2	156.0	161.2
60°	120.9	124.0	130.7	138.6	144.6
62.5°	105.3	108.6	114.3	121.3	128.1
65°	90.3	92.7	98.2	105.2	111.2
67.5°	75.6	77.8	83.3	88.1	94.5
70°	60.9	63.6	67.7	72.4	76.5
72.5°	49.0	50.2	53.6	57.0	61.2
75°	36.2	38.1	40.9	42.9	45.3
77.5°	26.0	27.1	28.7	30.4	32.6
80°	17.4	17.9	19.3	19.6	21.4
82.5°	10.6	10.9	11.2	11.4	12.0
85°	5.7	5.7	5.7	5.4	5.4
87.5°	3.2	3.2	2.8	2.3	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)