

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: P554194

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-85-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: P554194
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-35-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

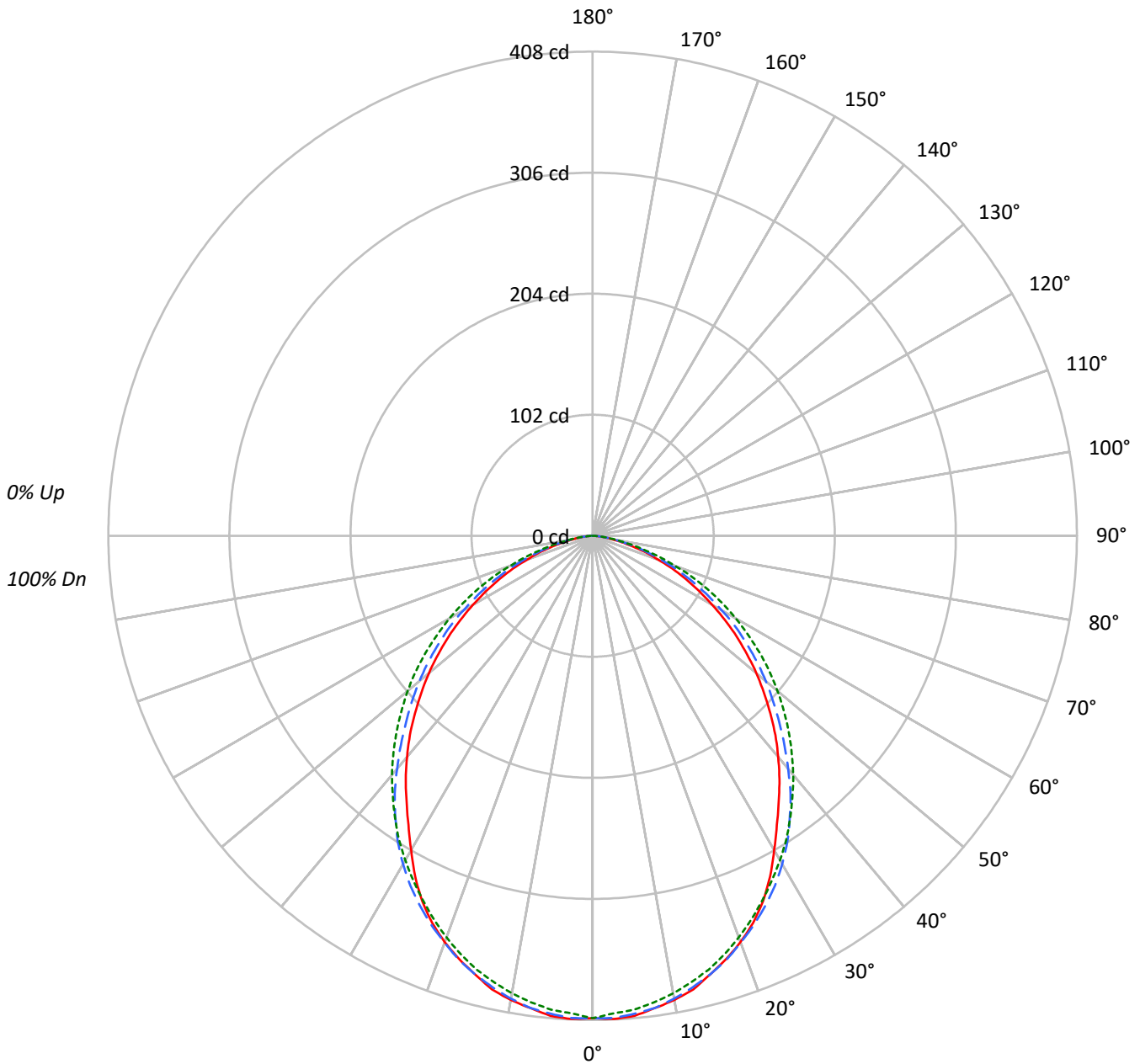
Lumens per Lamp: N/A
Luminaire Lumens: 940.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554194

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-85-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554194

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-85-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°	2188	2188	2188
5°	2194	2184	2166
10°	2171	2165	2140
15°	2132	2132	2108
20°	2087	2089	2062
25°	2018	2043	2011
30°	1900	1986	1961
35°	1796	1903	1907
40°	1709	1801	1848
45°	1611	1691	1778
50°	1508	1594	1702
55°	1391	1483	1610
60°	1253	1353	1498
65°	1105	1203	1363
70°	922	1024	1158
75°	724	819	907
80°	518	576	638
85°	340	340	321



TEST NUMBER: P554194

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-85-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	4.1
10°-20°	107.5	11.4
20°-30°	157.1	16.7
30°-40°	178.4	19.0
40°-50°	172.2	18.3
50°-60°	142.0	15.1
60°-70°	94.6	10.1
70°-80°	42.3	4.5
80°-90°	7.6	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°	302.9	32.2
0°-40°	481.3	51.2
0°-60°	795.5	84.6
0°-90°	940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	406	406	404	402	401	38
15°	383	384	383	381	378	108
25°	340	342	344	342	339	156
35°	273	277	290	291	290	171
45°	212	215	222	232	234	163
55°	148	151	158	167	172	132
65°	87	89	94	101	107	86
75°	35	37	39	41	44	38
85°	6	6	6	5	5	7
90°	0	0	0	0	0	



TEST NUMBER: P554194

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-82-85-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	406.5	406.5	406.5	406.5	406.5
2.5°	407.6	407.8	406.8	404.3	402.8
5°	406.1	405.9	404.3	402.2	400.9
7.5°	401.5	401.8	401.4	398.2	396.5
10°	397.2	397.3	396.1	393.6	391.5
12.5°	391.5	391.4	389.7	388.4	385.1
15°	382.6	383.6	382.6	380.9	378.3
17.5°	374.0	374.0	374.7	371.7	369.7
20°	364.4	364.8	364.8	362.5	360.1
22.5°	353.1	354.5	355.0	352.5	349.7
25°	339.8	342.5	344.1	341.6	338.6
27.5°	323.8	327.8	332.5	330.6	327.3
30°	305.8	311.7	319.5	318.0	315.6
32.5°	288.8	294.7	305.5	304.9	303.6
35°	273.3	277.1	289.7	291.3	290.2
37.5°	258.6	262.1	273.9	277.5	276.6
40°	243.2	246.9	256.3	262.7	263.0
42.5°	227.9	231.5	239.1	248.3	248.3
45°	211.6	215.2	222.2	232.4	233.6
47.5°	195.7	199.4	206.3	216.5	218.5
50°	180.1	183.5	190.4	200.2	203.3
52.5°	163.8	167.6	174.3	183.4	187.9
55°	148.2	150.7	158.0	166.8	171.6
57.5°	132.0	134.3	142.6	150.1	155.1
60°	116.4	119.3	125.7	133.4	139.2
62.5°	101.4	104.5	109.9	116.7	123.2
65°	86.8	89.2	94.5	101.2	107.0
67.5°	72.8	74.8	80.1	84.8	90.9
70°	58.6	61.2	65.1	69.7	73.6
72.5°	47.2	48.3	51.5	54.8	58.9
75°	34.8	36.7	39.4	41.2	43.6
77.5°	25.0	26.1	27.6	29.2	31.4
80°	16.7	17.2	18.6	18.9	20.6
82.5°	10.2	10.5	10.8	10.9	11.6
85°	5.5	5.5	5.5	5.2	5.2
87.5°	3.1	3.1	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)