

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: P554938

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-94-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: P554938
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-LD4-2LO-35-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

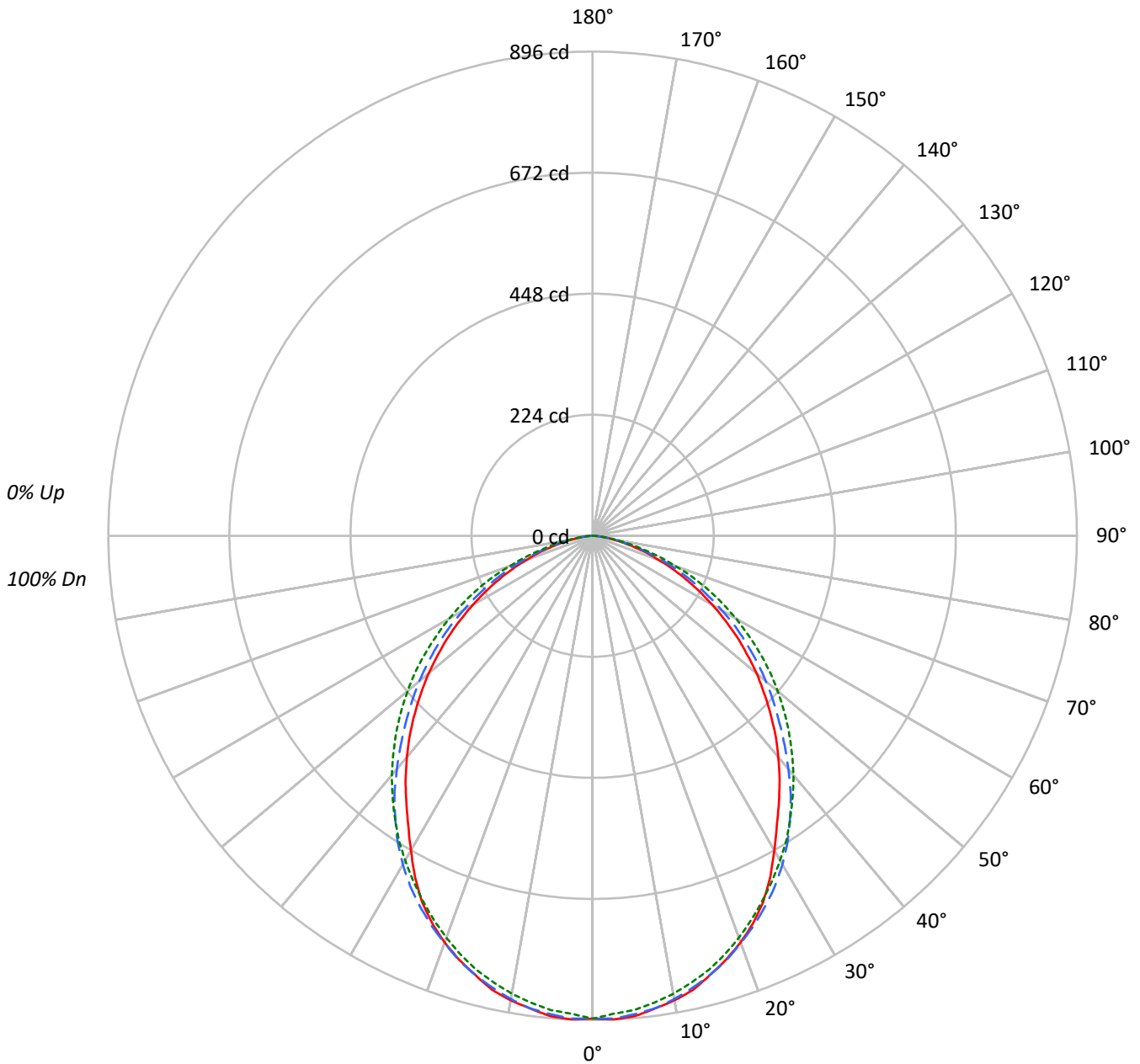
Lumens per Lamp: N/A
Luminaire Lumens: 2066.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

TEST NUMBER: P554938

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-80-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554938

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-80-94-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°	4809	4809	4809
5°	4822	4801	4760
10°	4770	4757	4703
15°	4686	4686	4632
20°	4586	4592	4533
25°	4435	4491	4419
30°	4177	4364	4311
35°	3947	4183	4190
40°	3755	3958	4061
45°	3540	3718	3908
50°	3314	3503	3742
55°	3056	3260	3539
60°	2752	2974	3292
65°	2430	2645	2994
70°	2025	2252	2544
75°	1591	1799	1992
80°	1137	1265	1404
85°	741	741	698



TEST NUMBER: P554938

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-80-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	4.1
10°-20°	236.3	11.4
20°-30°	345.4	16.7
30°-40°	392.0	19.0
40°-50°	378.4	18.3
50°-60°	312.2	15.1
60°-70°	207.9	10.1
70°-80°	93.0	4.5
80°-90°	16.6	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°	665.8	32.2
0°-40°	1057.8	51.2
0°-60°	1748.4	84.6
0°-90°	2066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	892	892	889	884	881	84
15°	841	843	841	837	831	237
25°	747	753	756	751	744	342
35°	601	609	637	640	638	376
45°	465	473	488	511	514	359
55°	326	331	347	367	377	291
65°	191	196	208	222	235	189
75°	76	81	86	91	96	84
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



TEST NUMBER: P554938

CATALOG NUMBER: FUSL-12-2-LD4-2LO-35-UNV-80-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.5	893.5	893.5	893.5	893.5
2.5°	895.9	896.2	894.2	888.7	885.3
5°	892.5	892.1	888.7	883.9	881.1
7.5°	882.5	883.2	882.2	875.3	871.5
10°	872.9	873.2	870.5	865.0	860.5
12.5°	860.5	860.2	856.4	853.7	846.5
15°	841.0	843.0	841.0	837.2	831.4
17.5°	822.1	822.1	823.5	816.9	812.5
20°	800.8	801.8	801.8	796.7	791.5
22.5°	776.1	779.2	780.2	774.7	768.5
25°	746.9	752.8	756.2	750.7	744.2
27.5°	711.6	720.5	730.8	726.7	719.5
30°	672.1	685.1	702.3	698.9	693.7
32.5°	634.7	647.7	671.4	670.0	667.3
35°	600.7	608.9	636.7	640.2	637.8
37.5°	568.4	576.0	602.1	610.0	607.9
40°	534.4	542.7	563.3	577.4	578.0
42.5°	500.8	508.7	525.5	545.8	545.8
45°	465.1	473.0	488.5	510.8	513.5
47.5°	430.1	438.3	453.4	475.8	480.2
50°	395.8	403.3	418.4	440.1	446.9
52.5°	360.1	368.3	383.1	403.0	412.9
55°	325.7	331.2	347.4	366.6	377.2
57.5°	290.1	295.2	313.4	329.9	340.9
60°	255.7	262.2	276.3	293.1	305.8
62.5°	222.8	229.6	241.7	256.4	270.8
65°	190.8	196.0	207.7	222.4	235.1
67.5°	160.0	164.4	176.1	186.4	199.8
70°	128.7	134.6	143.1	153.1	161.7
72.5°	103.7	106.1	113.3	120.5	129.4
75°	76.5	80.7	86.5	90.6	95.8
77.5°	54.9	57.3	60.8	64.2	69.0
80°	36.7	37.8	40.8	41.5	45.3
82.5°	22.3	23.0	23.7	24.0	25.4
85°	12.0	12.0	12.0	11.3	11.3
87.5°	6.9	6.9	5.8	4.8	3.4
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)