

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: P554171

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-80-94-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: P554171
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-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

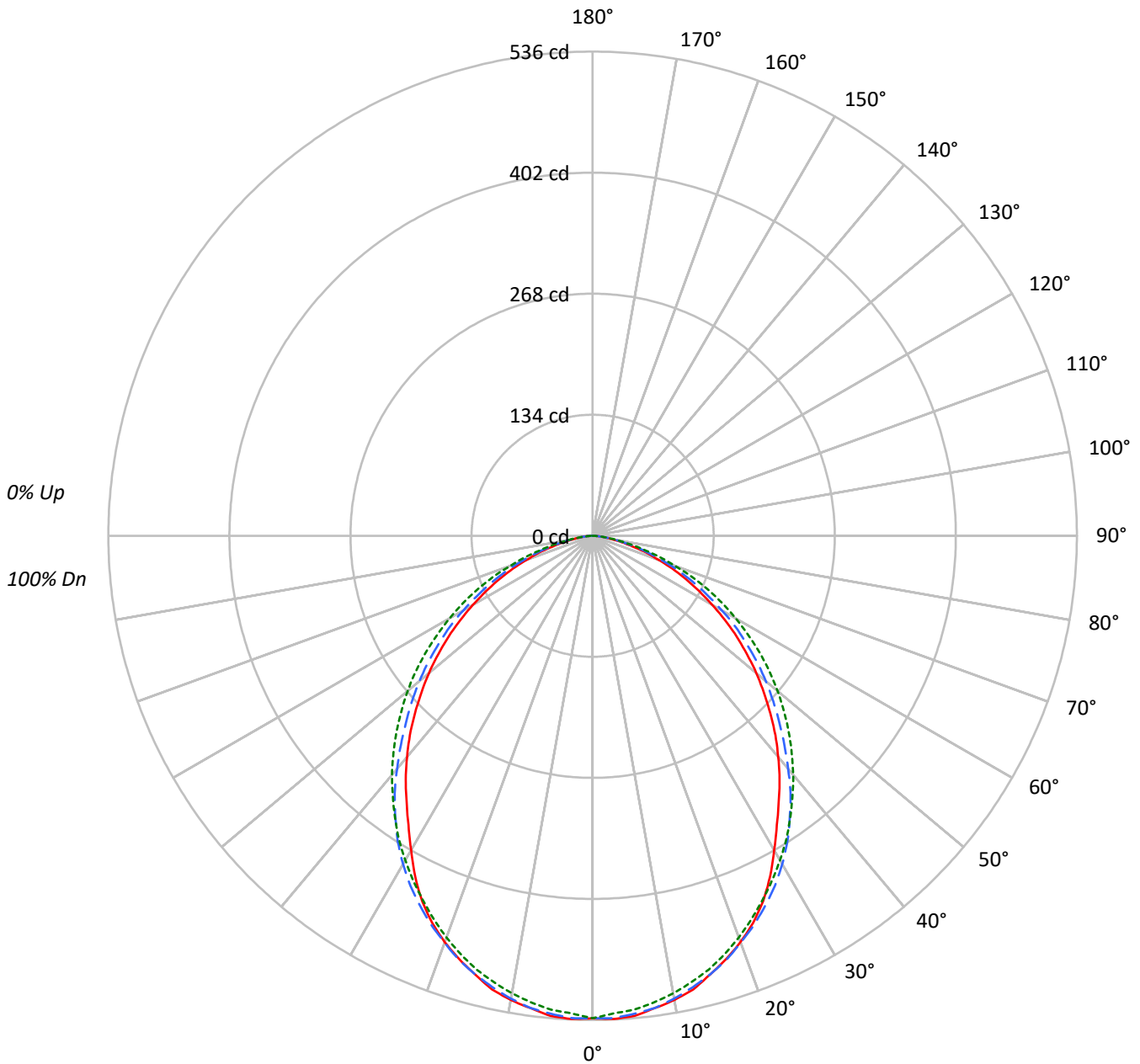
Lumens per Lamp: N/A
Luminaire Lumens: 1235.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554171

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554171

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-94-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°	2875	2875	2875
5°	2882	2870	2846
10°	2852	2844	2811
15°	2801	2801	2769
20°	2742	2745	2710
25°	2651	2684	2641
30°	2497	2609	2577
35°	2359	2501	2505
40°	2245	2366	2427
45°	2116	2222	2337
50°	1981	2094	2237
55°	1827	1949	2116
60°	1646	1778	1968
65°	1453	1580	1791
70°	1210	1347	1520
75°	952	1075	1189
80°	682	756	840
85°	445	445	420



TEST NUMBER: P554171

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.1
10°-20°	141.3	11.4
20°-30°	206.4	16.7
30°-40°	234.3	19.0
40°-50°	226.2	18.3
50°-60°	186.6	15.1
60°-70°	124.3	10.1
70°-80°	55.6	4.5
80°-90°	10.0	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°	398.0	32.2
0°-40°	632.3	51.2
0°-60°	1045.2	84.6
0°-90°	1235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	534	533	531	528	527	50
15°	503	504	503	500	497	142
25°	446	450	452	449	445	204
35°	359	364	381	383	381	225
45°	278	283	292	305	307	215
55°	195	198	208	219	226	174
65°	114	117	124	133	141	113
75°	46	48	52	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



TEST NUMBER: P554171

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-80-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.1	534.1	534.1	534.1	534.1
2.5°	535.5	535.7	534.5	531.2	529.2
5°	533.5	533.3	531.2	528.4	526.7
7.5°	527.5	527.9	527.3	523.2	521.0
10°	521.8	522.0	520.4	517.1	514.4
12.5°	514.4	514.2	511.9	510.3	506.0
15°	502.7	503.9	502.7	500.5	497.0
17.5°	491.4	491.4	492.2	488.3	485.7
20°	478.7	479.3	479.3	476.2	473.2
22.5°	463.9	465.8	466.4	463.1	459.4
25°	446.5	450.0	452.0	448.7	444.8
27.5°	425.4	430.7	436.8	434.4	430.1
30°	401.8	409.6	419.8	417.8	414.7
32.5°	379.4	387.2	401.3	400.5	398.9
35°	359.1	364.0	380.6	382.7	381.2
37.5°	339.8	344.3	359.9	364.6	363.4
40°	319.5	324.4	336.7	345.1	345.5
42.5°	299.4	304.1	314.1	326.2	326.2
45°	278.0	282.7	292.0	305.3	307.0
47.5°	257.1	262.0	271.1	284.4	287.1
50°	236.6	241.1	250.1	263.1	267.2
52.5°	215.2	220.2	229.0	240.9	246.8
55°	194.7	198.0	207.7	219.1	225.5
57.5°	173.4	176.5	187.3	197.2	203.8
60°	152.9	156.8	165.2	175.2	182.8
62.5°	133.2	137.3	144.5	153.3	161.9
65°	114.1	117.2	124.1	133.0	140.6
67.5°	95.6	98.3	105.3	111.4	119.4
70°	76.9	80.4	85.6	91.5	96.6
72.5°	62.0	63.4	67.7	72.0	77.4
75°	45.8	48.2	51.7	54.2	57.2
77.5°	32.8	34.3	36.3	38.4	41.2
80°	22.0	22.6	24.4	24.8	27.1
82.5°	13.3	13.7	14.2	14.4	15.2
85°	7.2	7.2	7.2	6.8	6.8
87.5°	4.1	4.1	3.5	2.9	2.1
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)