

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: P554351

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-97-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: P554351
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-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

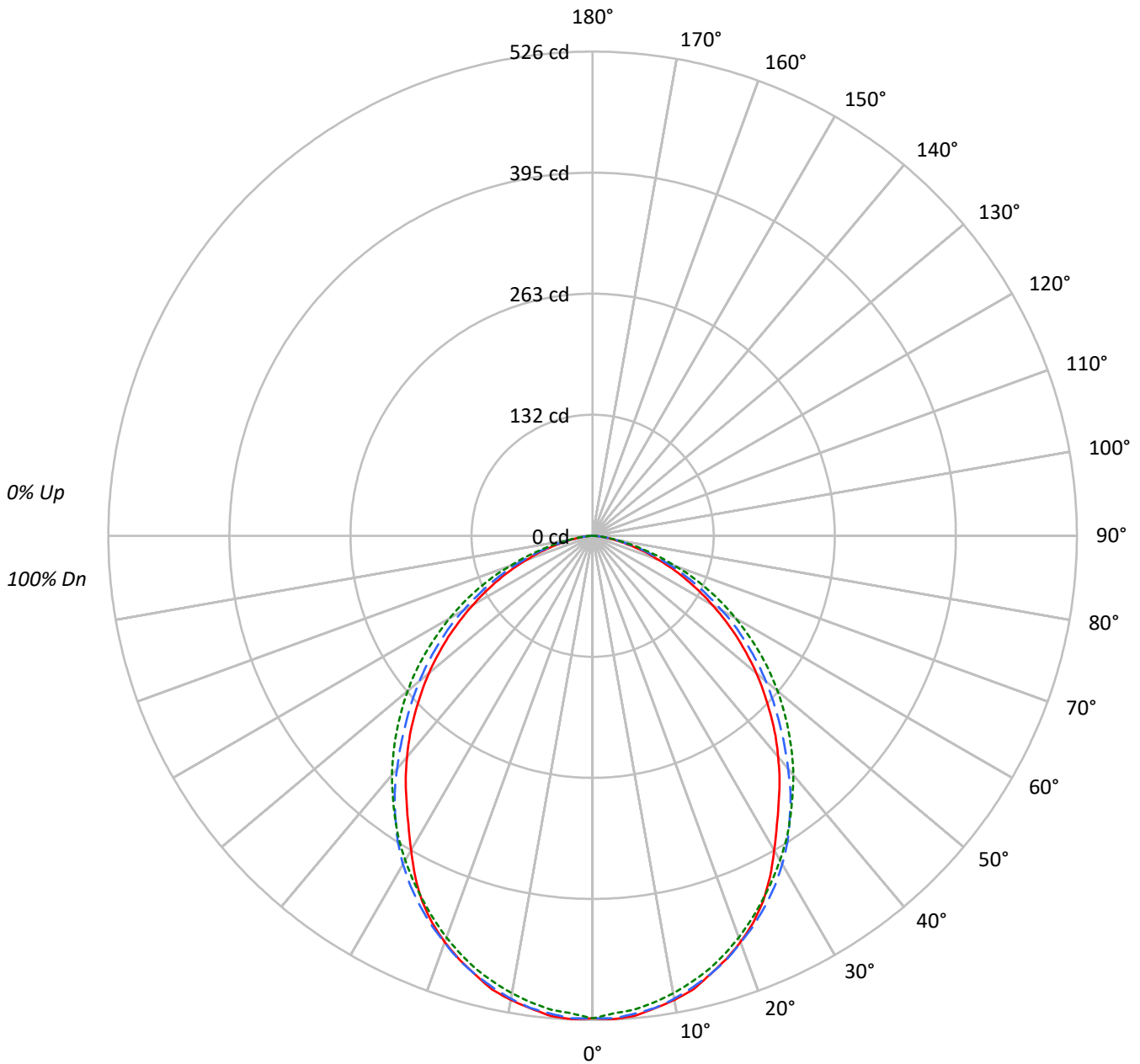
Lumens per Lamp: N/A
Luminaire Lumens: 1212.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554351

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-97-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554351

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-97-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°	2821	2821	2821
5°	2829	2816	2793
10°	2799	2791	2759
15°	2749	2749	2717
20°	2691	2694	2660
25°	2602	2634	2593
30°	2450	2560	2529
35°	2315	2454	2458
40°	2203	2321	2382
45°	2077	2181	2293
50°	1944	2056	2195
55°	1793	1912	2076
60°	1615	1745	1931
65°	1426	1551	1756
70°	1188	1322	1492
75°	934	1054	1169
80°	666	744	824
85°	432	432	408



TEST NUMBER: P554351

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-97-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	4.1
10°-20°	138.6	11.4
20°-30°	202.6	16.7
30°-40°	230.0	19.0
40°-50°	222.0	18.3
50°-60°	183.1	15.1
60°-70°	122.0	10.1
70°-80°	54.6	4.5
80°-90°	9.7	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°	390.6	32.2
0°-40°	620.6	51.2
0°-60°	1025.7	84.6
0°-90°	1212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	524	523	521	518	517	50
15°	493	495	493	491	488	139
25°	438	442	444	440	437	201
35°	352	357	374	376	374	221
45°	273	278	286	300	301	211
55°	191	194	204	215	221	171
65°	112	115	122	130	138	111
75°	45	47	51	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



TEST NUMBER: P554351

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-93-97-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.2	524.2	524.2	524.2	524.2
2.5°	525.6	525.8	524.6	521.3	519.3
5°	523.6	523.4	521.3	518.5	516.9
7.5°	517.7	518.1	517.5	513.5	511.3
10°	512.1	512.3	510.7	507.4	504.8
12.5°	504.8	504.6	502.4	500.8	496.6
15°	493.3	494.6	493.3	491.1	487.7
17.5°	482.3	482.3	483.1	479.3	476.6
20°	469.8	470.4	470.4	467.4	464.4
22.5°	455.3	457.1	457.7	454.5	450.9
25°	438.2	441.6	443.6	440.4	436.6
27.5°	417.4	422.7	428.7	426.3	422.1
30°	394.3	401.9	412.0	410.0	407.0
32.5°	372.3	380.0	393.9	393.1	391.5
35°	352.4	357.2	373.5	375.5	374.1
37.5°	333.5	337.9	353.2	357.8	356.6
40°	313.5	318.4	330.4	338.7	339.1
42.5°	293.8	298.4	308.3	320.2	320.2
45°	272.9	277.5	286.5	299.6	301.2
47.5°	252.3	257.1	266.0	279.1	281.7
50°	232.2	236.6	245.5	258.2	262.2
52.5°	211.2	216.1	224.7	236.4	242.2
55°	191.1	194.3	203.8	215.1	221.3
57.5°	170.2	173.2	183.8	193.5	200.0
60°	150.0	153.8	162.1	172.0	179.4
62.5°	130.7	134.7	141.8	150.4	158.9
65°	112.0	115.0	121.8	130.5	137.9
67.5°	93.8	96.5	103.3	109.3	117.2
70°	75.5	78.9	84.0	89.8	94.8
72.5°	60.8	62.2	66.5	70.7	75.9
75°	44.9	47.3	50.7	53.2	56.2
77.5°	32.2	33.6	35.6	37.7	40.5
80°	21.5	22.2	24.0	24.4	26.6
82.5°	13.1	13.5	13.9	14.1	14.9
85°	7.0	7.0	7.0	6.6	6.6
87.5°	4.0	4.0	3.4	2.8	2.0
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)