

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: P554558

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-80-97-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: P554558
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-LD4-1STD-50-UNV-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

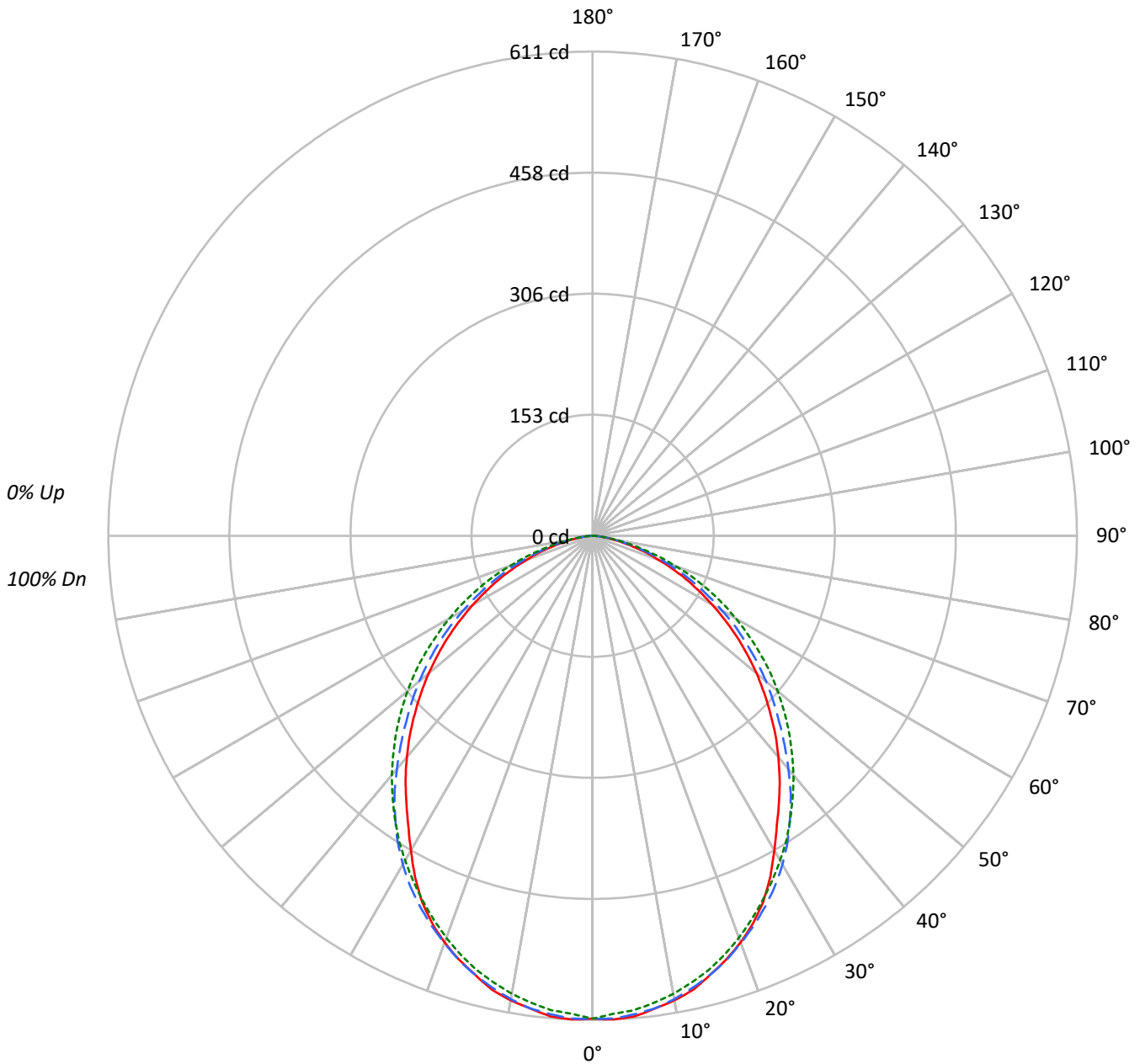
Lumens per Lamp: N/A
Luminaire Lumens: 1409.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P554558

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-97-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554558

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-97-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°	3280	3280	3280
5°	3289	3274	3246
10°	3253	3245	3207
15°	3195	3195	3159
20°	3128	3132	3092
25°	3025	3062	3014
30°	2849	2977	2940
35°	2692	2853	2858
40°	2561	2699	2770
45°	2414	2535	2665
50°	2260	2390	2552
55°	2085	2223	2414
60°	1877	2028	2245
65°	1658	1803	2043
70°	1382	1536	1736
75°	1085	1227	1358
80°	775	865	958
85°	506	506	475



TEST NUMBER: P554558

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-97-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	4.1
10°-20°	161.2	11.4
20°-30°	235.5	16.7
30°-40°	267.4	19.0
40°-50°	258.1	18.3
50°-60°	212.9	15.1
60°-70°	141.8	10.1
70°-80°	63.5	4.5
80°-90°	11.4	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°	454.1	32.2
0°-40°	721.4	51.2
0°-60°	1192.4	84.6
0°-90°	1409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	609	608	606	603	601	58
15°	574	575	574	571	567	162
25°	509	513	516	512	508	233
35°	410	415	434	437	435	257
45°	317	323	333	348	350	245
55°	222	226	237	250	257	198
65°	130	134	142	152	160	129
75°	52	55	59	62	65	57
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



TEST NUMBER: P554558

CATALOG NUMBER: FUSL-12-2-LD4-1STD-50-UNV-80-97-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.4	609.4	609.4	609.4	609.4
2.5°	611.0	611.2	609.8	606.1	603.7
5°	608.7	608.4	606.1	602.8	600.9
7.5°	601.9	602.3	601.6	596.9	594.4
10°	595.3	595.5	593.7	589.9	586.9
12.5°	586.9	586.6	584.1	582.2	577.3
15°	573.5	574.9	573.5	571.0	567.0
17.5°	560.7	560.7	561.6	557.2	554.1
20°	546.1	546.9	546.9	543.3	539.8
22.5°	529.3	531.4	532.1	528.4	524.1
25°	509.4	513.4	515.7	512.0	507.5
27.5°	485.3	491.4	498.4	495.6	490.7
30°	458.4	467.3	479.0	476.6	473.1
32.5°	432.8	441.7	457.9	457.0	455.1
35°	409.7	415.3	434.3	436.6	435.0
37.5°	387.7	392.8	410.6	416.0	414.6
40°	364.5	370.1	384.2	393.8	394.2
42.5°	341.5	346.9	358.4	372.2	372.2
45°	317.2	322.6	333.1	348.3	350.2
47.5°	293.3	298.9	309.2	324.5	327.5
50°	269.9	275.1	285.4	300.1	304.8
52.5°	245.6	251.2	261.3	274.8	281.6
55°	222.2	225.9	236.9	250.0	257.3
57.5°	197.8	201.3	213.7	225.0	232.5
60°	174.4	178.9	188.4	199.9	208.6
62.5°	151.9	156.6	164.8	174.9	184.7
65°	130.2	133.7	141.6	151.7	160.4
67.5°	109.1	112.1	120.1	127.1	136.2
70°	87.8	91.8	97.6	104.4	110.3
72.5°	70.7	72.3	77.3	82.2	88.3
75°	52.2	55.0	59.0	61.8	65.3
77.5°	37.5	39.1	41.4	43.8	47.1
80°	25.0	25.8	27.9	28.3	30.9
82.5°	15.2	15.7	16.2	16.4	17.3
85°	8.2	8.2	8.2	7.7	7.7
87.5°	4.7	4.7	4.0	3.3	2.3
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)