

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: P553848

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-80-88-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: P553848
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-LD4-1HI-30-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

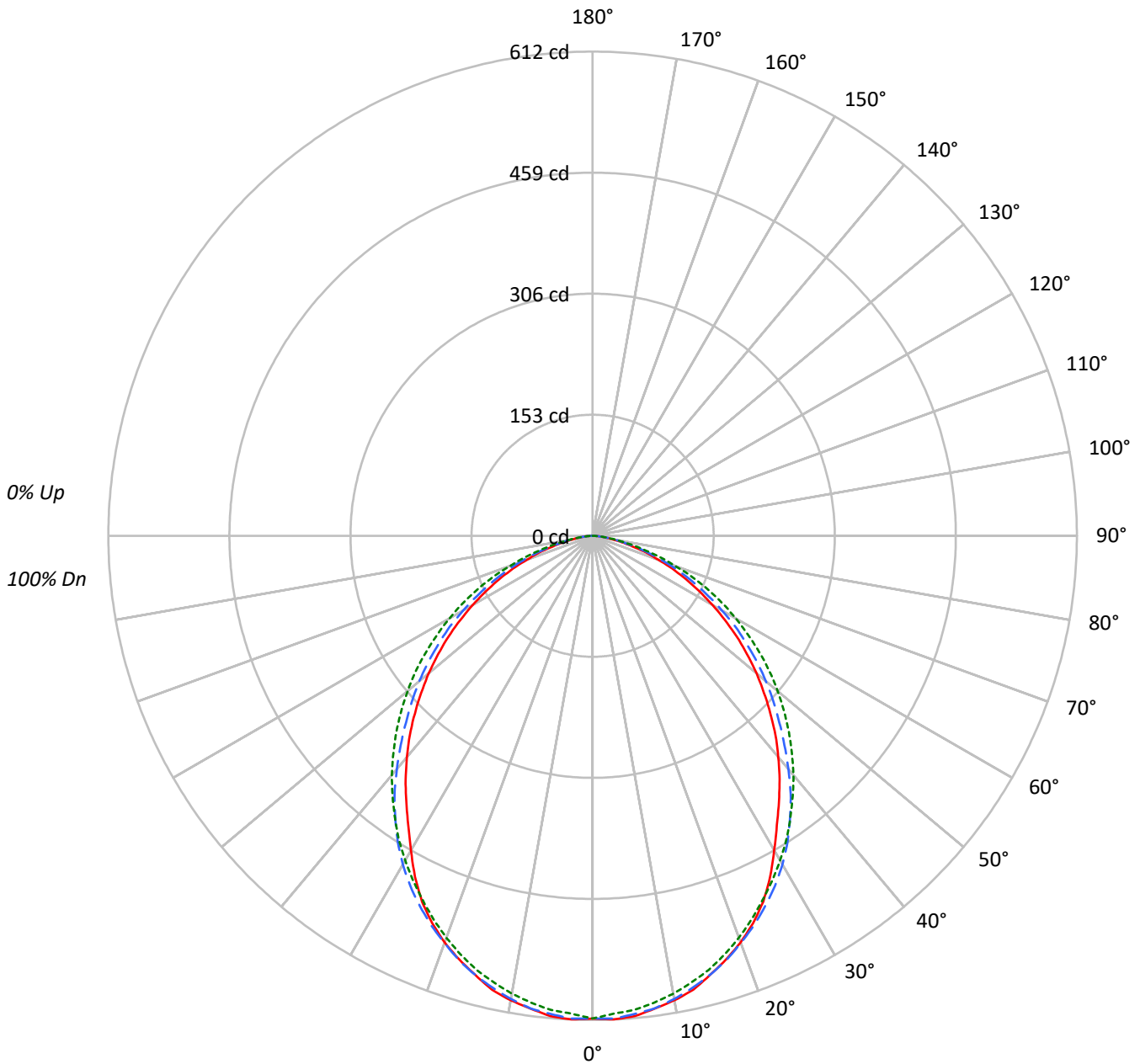
Lumens per Lamp: N/A
Luminaire Lumens: 1411.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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: P553848

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-80-88-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P553848

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-80-88-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°	3284	3284	3284
5°	3293	3279	3251
10°	3258	3249	3212
15°	3200	3200	3164
20°	3132	3136	3096
25°	3029	3067	3018
30°	2852	2980	2944
35°	2696	2857	2862
40°	2564	2703	2774
45°	2418	2539	2669
50°	2263	2393	2555
55°	2088	2226	2417
60°	1880	2031	2249
65°	1659	1806	2045
70°	1383	1539	1737
75°	1088	1229	1360
80°	778	865	958
85°	506	506	475



TEST NUMBER: P553848

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-80-88-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	4.1
10°-20°	161.4	11.4
20°-30°	235.9	16.7
30°-40°	267.7	19.0
40°-50°	258.4	18.3
50°-60°	213.2	15.1
60°-70°	142.0	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°	454.7	32.2
0°-40°	722.5	51.2
0°-60°	1194.1	84.6
0°-90°	1411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	610	609	607	604	602	58
15°	574	576	574	572	568	162
25°	510	514	516	513	508	234
35°	410	416	435	437	436	257
45°	318	323	334	349	351	245
55°	222	226	237	250	258	199
65°	130	134	142	152	161	129
75°	52	55	59	62	65	57
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



TEST NUMBER: P553848

CATALOG NUMBER: FUSL-12-2-LD4-1HI-30-UNV-80-88-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.2	610.2	610.2	610.2	610.2
2.5°	611.9	612.1	610.7	606.9	604.6
5°	609.5	609.3	606.9	603.7	601.8
7.5°	602.7	603.2	602.5	597.8	595.2
10°	596.2	596.4	594.5	590.8	587.7
12.5°	587.7	587.5	584.9	583.0	578.1
15°	574.4	575.8	574.4	571.8	567.8
17.5°	561.5	561.5	562.4	557.9	554.9
20°	546.9	547.6	547.6	544.1	540.6
22.5°	530.0	532.2	532.9	529.1	524.9
25°	510.1	514.1	516.4	512.7	508.2
27.5°	486.0	492.1	499.1	496.3	491.4
30°	459.0	467.9	479.6	477.3	473.8
32.5°	433.5	442.4	458.5	457.6	455.7
35°	410.3	415.9	434.9	437.2	435.6
37.5°	388.2	393.4	411.2	416.6	415.2
40°	365.0	370.6	384.7	394.3	394.8
42.5°	342.0	347.4	358.9	372.7	372.7
45°	317.7	323.0	333.6	348.8	350.7
47.5°	293.7	299.4	309.7	324.9	328.0
50°	270.3	275.5	285.8	300.5	305.2
52.5°	245.9	251.5	261.6	275.2	282.0
55°	222.5	226.2	237.2	250.4	257.6
57.5°	198.1	201.6	214.0	225.3	232.8
60°	174.7	179.1	188.7	200.2	208.9
62.5°	152.1	156.8	165.0	175.1	185.0
65°	130.3	133.9	141.8	151.9	160.6
67.5°	109.2	112.3	120.3	127.3	136.4
70°	87.9	91.9	97.8	104.6	110.4
72.5°	70.8	72.4	77.4	82.3	88.4
75°	52.3	55.1	59.1	61.9	65.4
77.5°	37.5	39.1	41.5	43.8	47.1
80°	25.1	25.8	27.9	28.4	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)