

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: P554865

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-84-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: P554865
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-30-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

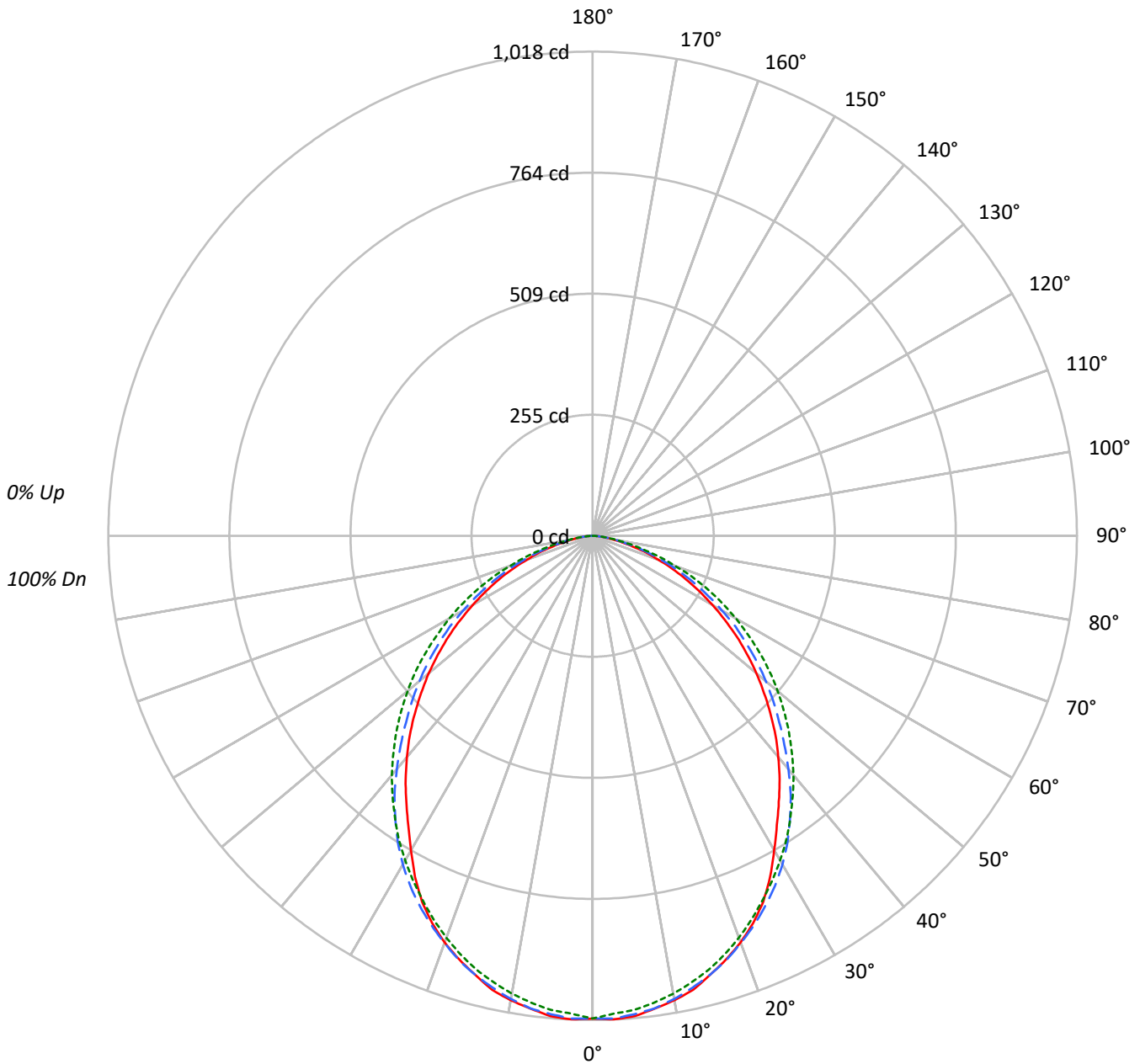
Lumens per Lamp: N/A
Luminaire Lumens: 2347.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554865

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-80-84-EDD

Luminous Intensity Polar Plot





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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°	5463	5463	5463
5°	5477	5454	5408
10°	5419	5404	5343
15°	5323	5323	5262
20°	5210	5217	5150
25°	5039	5101	5020
30°	4745	4958	4898
35°	4483	4752	4760
40°	4265	4496	4614
45°	4022	4223	4440
50°	3764	3980	4251
55°	3473	3703	4021
60°	3127	3379	3739
65°	2761	3004	3401
70°	2301	2559	2891
75°	1809	2044	2262
80°	1292	1438	1596
85°	840	840	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	4.1
10°-20°	268.5	11.4
20°-30°	392.3	16.7
30°-40°	445.3	19.0
40°-50°	429.9	18.3
50°-60°	354.6	15.1
60°-70°	236.2	10.1
70°-80°	105.7	4.5
80°-90°	18.9	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°	756.4	32.2
0°-40°	1201.7	51.2
0°-60°	1986.2	84.6
0°-90°	2347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1014	1014	1010	1004	1001	96
15°	955	958	955	951	944	269
25°	848	855	859	853	845	389
35°	682	692	723	727	724	428
45°	528	537	555	580	583	408
55°	370	376	395	416	428	330
65°	217	223	236	253	267	215
75°	87	92	98	103	109	95
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.0	1015.0	1015.0	1015.0	1015.0
2.5°	1017.7	1018.1	1015.8	1009.6	1005.7
5°	1013.8	1013.5	1009.6	1004.1	1001.0
7.5°	1002.5	1003.3	1002.1	994.4	990.1
10°	991.6	992.0	988.9	982.7	977.6
12.5°	977.6	977.2	972.9	969.8	961.6
15°	955.4	957.7	955.4	951.1	944.4
17.5°	933.9	933.9	935.5	928.1	923.0
20°	909.7	910.9	910.9	905.1	899.2
22.5°	881.7	885.2	886.3	880.1	873.1
25°	848.5	855.1	859.0	852.8	845.4
27.5°	808.3	818.5	830.2	825.5	817.3
30°	763.5	778.3	797.8	793.9	788.1
32.5°	721.0	735.8	762.7	761.2	758.0
35°	682.4	691.8	723.3	727.2	724.5
37.5°	645.7	654.3	684.0	692.9	690.6
40°	607.1	616.5	639.9	655.9	656.7
42.5°	568.9	577.9	597.0	620.0	620.0
45°	528.4	537.3	554.9	580.2	583.4
47.5°	488.6	498.0	515.1	540.5	545.5
50°	449.6	458.2	475.3	499.9	507.7
52.5°	409.0	418.4	435.2	457.8	469.1
55°	370.1	376.3	394.6	416.5	428.5
57.5°	329.5	335.3	356.0	374.7	387.2
60°	290.5	297.9	313.9	333.0	347.4
62.5°	253.1	260.9	274.5	291.3	307.7
65°	216.8	222.7	235.9	252.7	267.1
67.5°	181.7	186.8	200.0	211.7	226.9
70°	146.2	152.9	162.6	173.9	183.7
72.5°	117.8	120.5	128.7	136.9	147.0
75°	87.0	91.6	98.3	102.9	108.8
77.5°	62.4	65.1	69.0	72.9	78.4
80°	41.7	42.9	46.4	47.2	51.5
82.5°	25.3	26.1	26.9	27.3	28.9
85°	13.6	13.6	13.6	12.9	12.9
87.5°	7.8	7.8	6.6	5.5	3.9
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)