

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: P554997

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-86-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: P554997
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-40-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

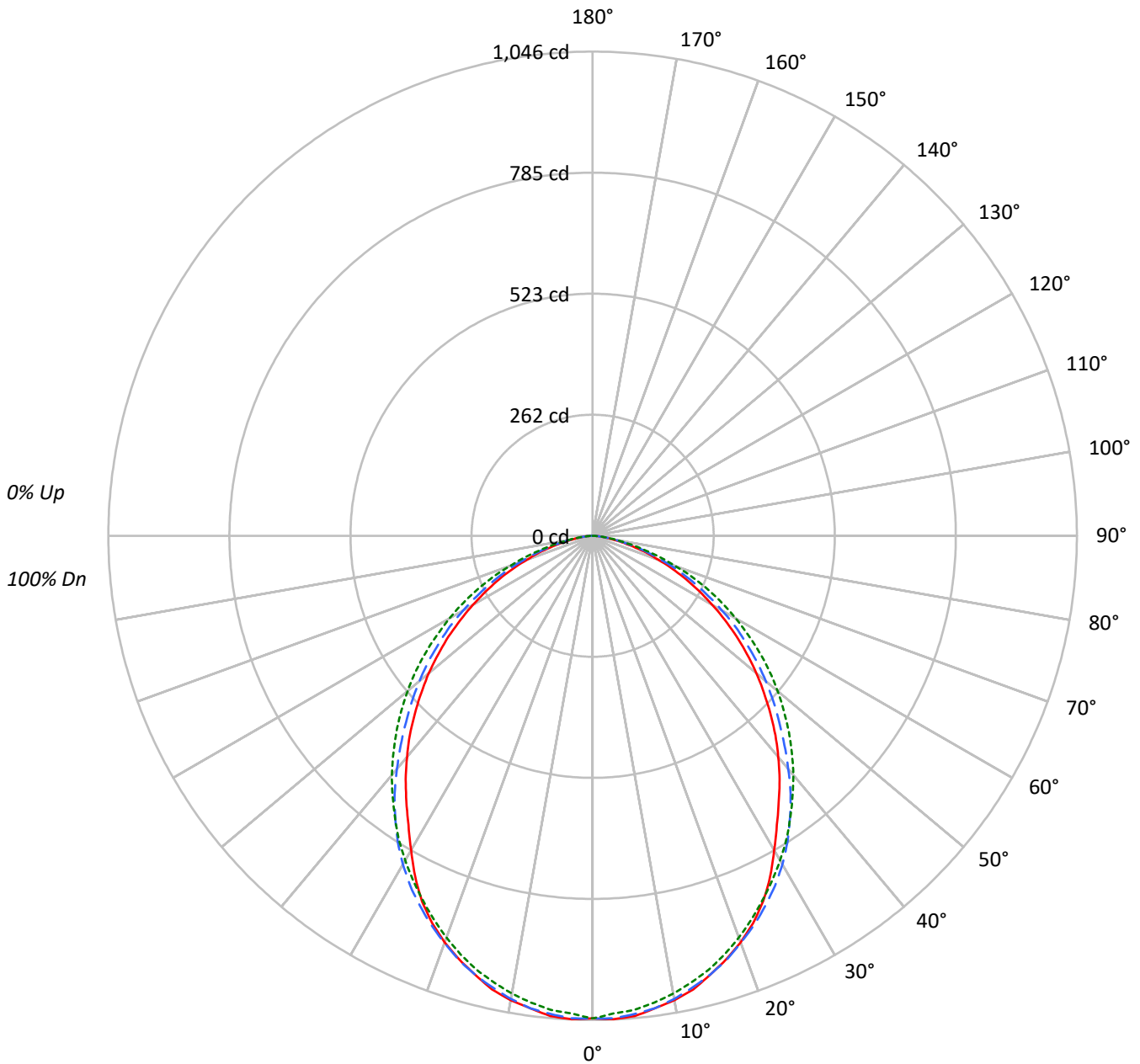
Lumens per Lamp: N/A
Luminaire Lumens: 2411.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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

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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°	5612	5612	5612
5°	5627	5603	5555
10°	5567	5552	5488
15°	5468	5468	5406
20°	5352	5359	5290
25°	5176	5241	5157
30°	4874	5093	5031
35°	4606	4882	4890
40°	4382	4618	4740
45°	4131	4338	4561
50°	3867	4088	4366
55°	3567	3804	4130
60°	3212	3471	3842
65°	2836	3086	3494
70°	2364	2628	2969
75°	1857	2098	2325
80°	1330	1478	1640
85°	865	865	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	4.1
10°-20°	275.8	11.4
20°-30°	403.0	16.7
30°-40°	457.5	19.0
40°-50°	441.6	18.3
50°-60°	364.3	15.1
60°-70°	242.6	10.1
70°-80°	108.6	4.5
80°-90°	19.4	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°	777.0	32.2
0°-40°	1234.5	51.2
0°-60°	2040.4	84.6
0°-90°	2411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1042	1041	1037	1032	1028	99
15°	981	984	981	977	970	277
25°	872	878	882	876	868	399
35°	701	711	743	747	744	439
45°	543	552	570	596	599	419
55°	380	387	405	428	440	339
65°	223	229	242	260	274	221
75°	89	94	101	106	112	98
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1045.5	1045.9	1043.5	1037.1	1033.1
5°	1041.5	1041.1	1037.1	1031.5	1028.3
7.5°	1029.9	1030.7	1029.5	1021.5	1017.1
10°	1018.7	1019.1	1015.9	1009.4	1004.2
12.5°	1004.2	1003.8	999.4	996.2	987.8
15°	981.4	983.8	981.4	977.0	970.2
17.5°	959.4	959.4	961.0	953.4	948.2
20°	934.5	935.7	935.7	929.7	923.7
22.5°	905.7	909.3	910.5	904.1	896.9
25°	871.6	878.5	882.5	876.1	868.4
27.5°	830.4	840.8	852.8	848.0	839.6
30°	784.3	799.5	819.6	815.6	809.6
32.5°	740.7	755.9	783.5	781.9	778.7
35°	701.0	710.6	743.1	747.1	744.3
37.5°	663.4	672.2	702.6	711.8	709.4
40°	623.7	633.3	657.3	673.8	674.6
42.5°	584.4	593.7	613.3	636.9	636.9
45°	542.8	552.0	570.0	596.1	599.3
47.5°	501.9	511.5	529.2	555.2	560.4
50°	461.9	470.7	488.3	513.5	521.5
52.5°	420.2	429.8	447.0	470.3	481.9
55°	380.1	386.6	405.4	427.8	440.2
57.5°	338.5	344.5	365.7	385.0	397.8
60°	298.4	306.0	322.5	342.1	356.9
62.5°	260.0	268.0	282.0	299.2	316.1
65°	222.7	228.7	242.3	259.6	274.4
67.5°	186.7	191.9	205.5	217.5	233.1
70°	150.2	157.0	167.0	178.7	188.7
72.5°	121.0	123.8	132.2	140.6	151.0
75°	89.3	94.1	100.9	105.8	111.8
77.5°	64.1	66.9	70.9	74.9	80.5
80°	42.9	44.1	47.7	48.5	52.9
82.5°	26.0	26.8	27.6	28.0	29.6
85°	14.0	14.0	14.0	13.2	13.2
87.5°	8.0	8.0	6.8	5.6	4.0
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)