

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: P555071

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-80-97-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: P555071
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-50-UNV-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

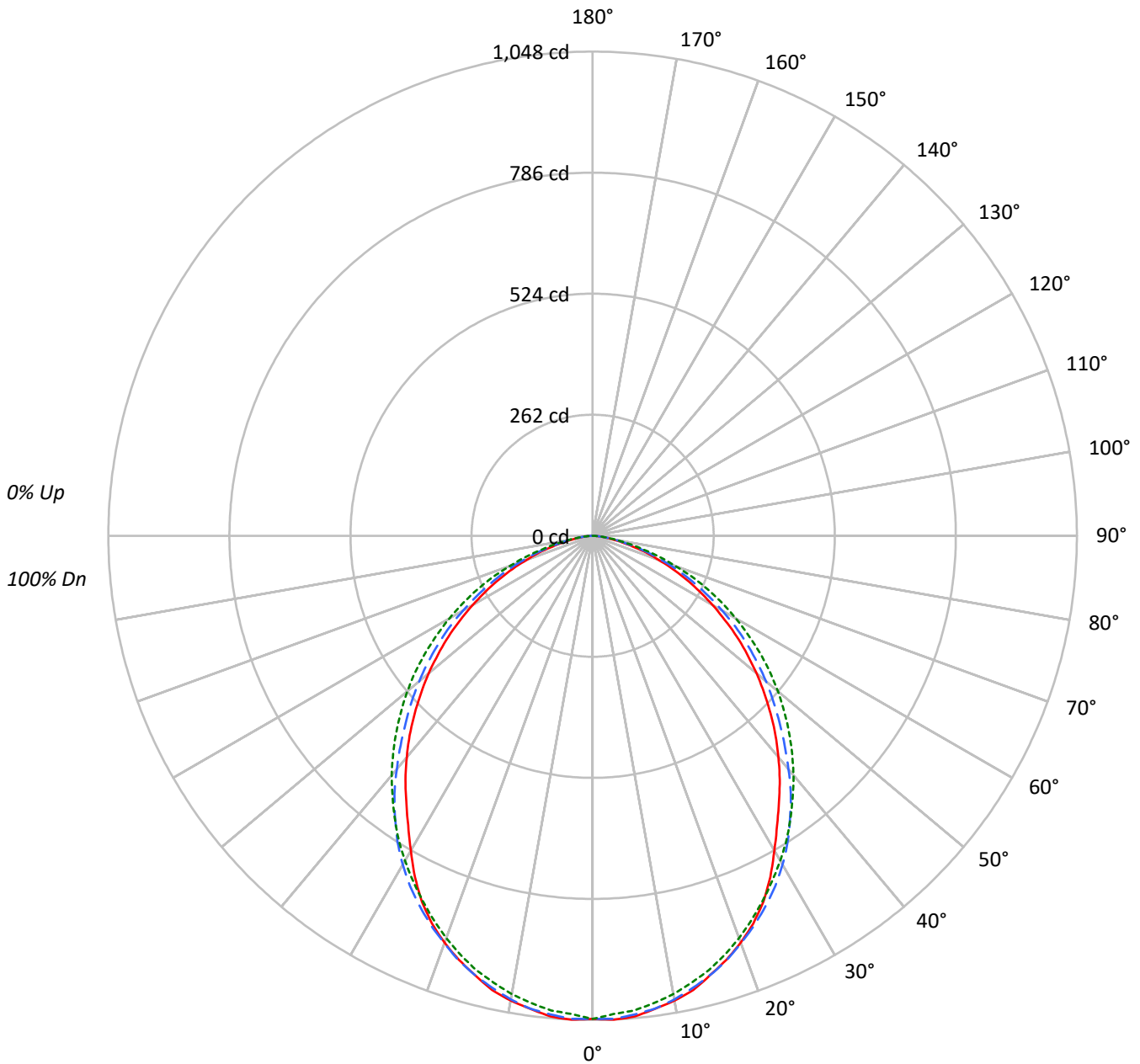
Lumens per Lamp: N/A
Luminaire Lumens: 2418.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	5628	5628	5628
5°	5643	5619	5572
10°	5583	5568	5504
15°	5484	5484	5421
20°	5368	5375	5306
25°	5191	5255	5172
30°	4888	5108	5046
35°	4619	4896	4904
40°	4395	4632	4753
45°	4144	4351	4574
50°	3878	4100	4380
55°	3577	3815	4143
60°	3222	3481	3852
65°	2845	3096	3505
70°	2371	2636	2977
75°	1863	2104	2331
80°	1333	1481	1643
85°	871	871	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	4.1
10°-20°	276.6	11.4
20°-30°	404.2	16.7
30°-40°	458.8	19.0
40°-50°	442.9	18.3
50°-60°	365.4	15.1
60°-70°	243.3	10.1
70°-80°	108.9	4.5
80°-90°	19.5	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°	779.3	32.2
0°-40°	1238.1	51.2
0°-60°	2046.3	84.6
0°-90°	2418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1044	1044	1040	1034	1031	99
15°	984	987	984	980	973	277
25°	874	881	885	879	871	400
35°	703	713	745	749	746	440
45°	544	554	572	598	601	420
55°	381	388	407	429	442	340
65°	223	229	243	260	275	221
75°	90	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°	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1048.5	1048.9	1046.5	1040.1	1036.1
5°	1044.5	1044.1	1040.1	1034.5	1031.3
7.5°	1032.9	1033.7	1032.5	1024.4	1020.0
10°	1021.6	1022.0	1018.8	1012.4	1007.2
12.5°	1007.2	1006.8	1002.3	999.1	990.7
15°	984.3	986.7	984.3	979.8	973.0
17.5°	962.2	962.2	963.8	956.1	950.9
20°	937.3	938.5	938.5	932.4	926.4
22.5°	908.3	911.9	913.1	906.7	899.5
25°	874.2	881.0	885.0	878.6	871.0
27.5°	832.8	843.2	855.3	850.5	842.0
30°	786.6	801.9	822.0	817.9	811.9
32.5°	742.8	758.1	785.8	784.2	781.0
35°	703.0	712.7	745.2	749.2	746.4
37.5°	665.3	674.1	704.6	713.9	711.5
40°	625.5	635.1	659.3	675.7	676.5
42.5°	586.1	595.4	615.1	638.8	638.8
45°	544.4	553.6	571.7	597.8	601.0
47.5°	503.4	513.0	530.7	556.8	562.0
50°	463.2	472.0	489.7	515.0	523.1
52.5°	421.4	431.1	448.3	471.6	483.3
55°	381.2	387.7	406.6	429.1	441.5
57.5°	339.5	345.5	366.8	386.1	398.9
60°	299.3	306.9	323.4	343.1	357.9
62.5°	260.7	268.8	282.8	300.1	317.0
65°	223.4	229.4	243.1	260.3	275.2
67.5°	187.2	192.4	206.1	218.1	233.8
70°	150.7	157.5	167.5	179.2	189.2
72.5°	121.3	124.1	132.6	141.0	151.5
75°	89.6	94.4	101.2	106.1	112.1
77.5°	64.3	67.1	71.1	75.1	80.7
80°	43.0	44.2	47.8	48.6	53.0
82.5°	26.1	26.9	27.7	28.1	29.7
85°	14.1	14.1	14.1	13.3	13.3
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)