

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: P554101

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-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: P554101
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-LD4-1LO-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

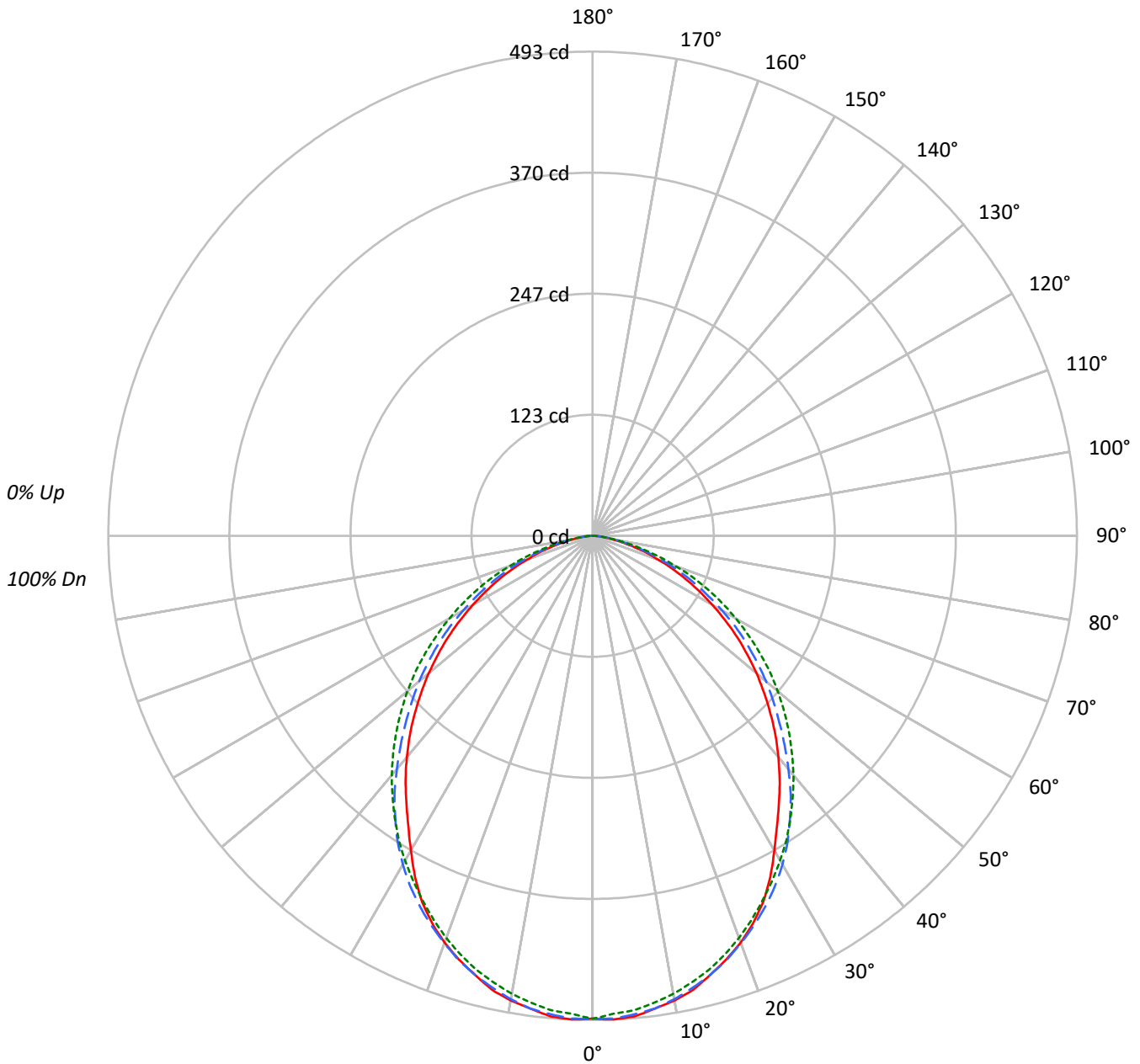
Lumens per Lamp: N/A
Luminaire Lumens: 1137.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2646	2646	2646
5°	2654	2642	2620
10°	2625	2618	2588
15°	2579	2579	2549
20°	2524	2527	2495
25°	2441	2472	2432
30°	2299	2402	2373
35°	2172	2302	2306
40°	2066	2178	2235
45°	1948	2046	2151
50°	1824	1928	2060
55°	1682	1794	1948
60°	1514	1637	1812
65°	1337	1456	1648
70°	1114	1240	1400
75°	875	990	1096
80°	626	697	772
85°	408	408	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	4.1
10°-20°	130.1	11.4
20°-30°	190.1	16.7
30°-40°	215.7	19.0
40°-50°	208.3	18.3
50°-60°	171.8	15.1
60°-70°	114.4	10.1
70°-80°	51.2	4.5
80°-90°	9.2	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°	366.4	32.2
0°-40°	582.2	51.2
0°-60°	962.2	84.6
0°-90°	1137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	491	491	489	486	485	46
15°	463	464	463	461	458	130
25°	411	414	416	413	410	188
35°	331	335	350	352	351	207
45°	256	260	269	281	283	197
55°	179	182	191	202	208	160
65°	105	108	114	122	129	104
75°	42	44	48	50	53	46
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.7	491.7	491.7	491.7	491.7
2.5°	493.0	493.2	492.1	489.1	487.2
5°	491.2	491.0	489.1	486.4	484.9
7.5°	485.7	486.1	485.5	481.7	479.6
10°	480.4	480.6	479.1	476.0	473.6
12.5°	473.6	473.4	471.3	469.8	465.8
15°	462.8	464.0	462.8	460.7	457.5
17.5°	452.4	452.4	453.2	449.6	447.1
20°	440.7	441.3	441.3	438.5	435.6
22.5°	427.1	428.8	429.4	426.4	423.0
25°	411.1	414.3	416.2	413.1	409.5
27.5°	391.6	396.5	402.2	399.9	395.9
30°	369.9	377.1	386.5	384.6	381.8
32.5°	349.3	356.5	369.5	368.7	367.2
35°	330.6	335.1	350.4	352.3	351.0
37.5°	312.8	317.0	331.3	335.7	334.6
40°	294.1	298.7	310.0	317.7	318.1
42.5°	275.6	280.0	289.2	300.4	300.4
45°	256.0	260.3	268.8	281.1	282.6
47.5°	236.7	241.2	249.5	261.8	264.3
50°	217.8	222.0	230.3	242.2	246.0
52.5°	198.2	202.7	210.8	221.8	227.3
55°	179.3	182.3	191.2	201.8	207.6
57.5°	159.6	162.5	172.5	181.5	187.6
60°	140.7	144.3	152.1	161.3	168.3
62.5°	122.6	126.4	133.0	141.1	149.0
65°	105.0	107.9	114.3	122.4	129.4
67.5°	88.0	90.5	96.9	102.6	109.9
70°	70.8	74.1	78.8	84.3	89.0
72.5°	57.0	58.4	62.3	66.3	71.2
75°	42.1	44.4	47.6	49.9	52.7
77.5°	30.2	31.5	33.4	35.3	38.0
80°	20.2	20.8	22.5	22.9	24.9
82.5°	12.3	12.7	13.0	13.2	14.0
85°	6.6	6.6	6.6	6.2	6.2
87.5°	3.8	3.8	3.2	2.6	1.9
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)