

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: P554102

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-87-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: P554102
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-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

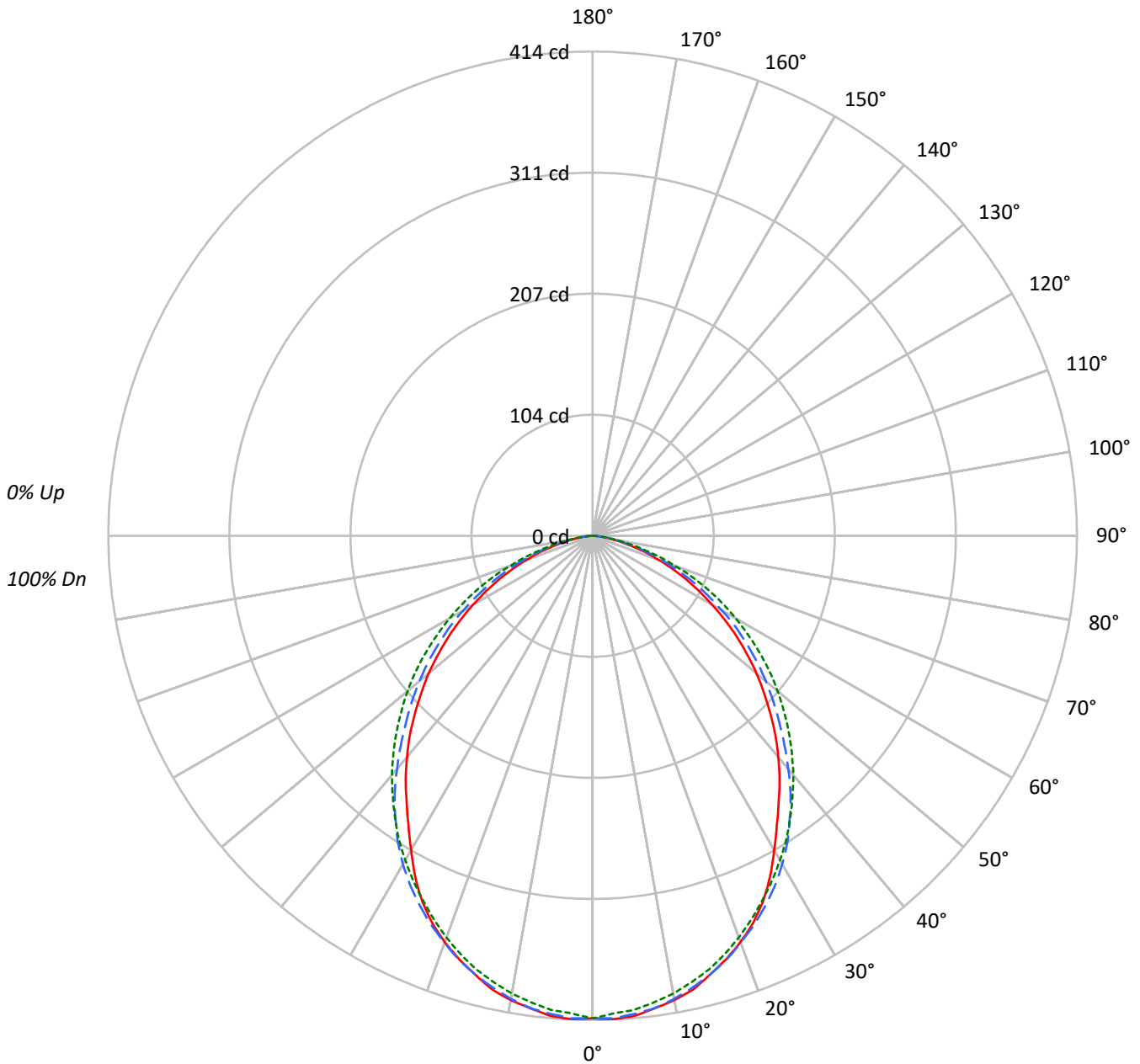
Lumens per Lamp: N/A
Luminaire Lumens: 954.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2221	2221	2221
5°	2226	2217	2198
10°	2203	2197	2172
15°	2164	2164	2139
20°	2118	2121	2093
25°	2048	2074	2040
30°	1928	2015	1991
35°	1823	1932	1935
40°	1734	1827	1875
45°	1635	1716	1805
50°	1531	1618	1728
55°	1411	1505	1635
60°	1271	1373	1520
65°	1122	1221	1383
70°	935	1040	1175
75°	734	830	919
80°	527	586	648
85°	340	340	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	4.1
10°-20°	109.1	11.4
20°-30°	159.5	16.7
30°-40°	181.0	19.0
40°-50°	174.7	18.3
50°-60°	144.2	15.1
60°-70°	96.0	10.1
70°-80°	43.0	4.5
80°-90°	7.7	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°	307.4	32.2
0°-40°	488.5	51.2
0°-60°	807.4	84.6
0°-90°	954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	412	412	410	408	407	39
15°	388	389	388	387	384	109
25°	345	348	349	347	344	158
35°	277	281	294	296	294	174
45°	215	218	226	236	237	166
55°	150	153	160	169	174	134
65°	88	90	96	103	109	87
75°	35	37	40	42	44	39
85°	6	6	6	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.6	412.6	412.6	412.6	412.6
2.5°	413.7	413.8	412.9	410.4	408.8
5°	412.1	411.9	410.4	408.1	406.9
7.5°	407.5	407.8	407.3	404.2	402.4
10°	403.1	403.2	402.0	399.4	397.4
12.5°	397.4	397.2	395.5	394.2	390.9
15°	388.3	389.3	388.3	386.6	383.9
17.5°	379.6	379.6	380.2	377.2	375.2
20°	369.8	370.3	370.3	367.9	365.5
22.5°	358.4	359.8	360.3	357.7	354.9
25°	344.9	347.6	349.2	346.6	343.6
27.5°	328.6	332.7	337.5	335.5	332.2
30°	310.3	316.4	324.3	322.7	320.3
32.5°	293.1	299.1	310.0	309.4	308.1
35°	277.4	281.2	294.0	295.6	294.5
37.5°	262.5	266.0	278.0	281.7	280.7
40°	246.8	250.6	260.1	266.6	266.9
42.5°	231.3	234.9	242.7	252.0	252.0
45°	214.8	218.4	225.5	235.9	237.1
47.5°	198.6	202.4	209.4	219.7	221.7
50°	182.8	186.2	193.2	203.2	206.4
52.5°	166.3	170.1	176.9	186.1	190.7
55°	150.4	153.0	160.4	169.3	174.2
57.5°	133.9	136.3	144.7	152.3	157.4
60°	118.1	121.1	127.6	135.4	141.2
62.5°	102.9	106.0	111.6	118.4	125.1
65°	88.1	90.5	95.9	102.7	108.6
67.5°	73.9	75.9	81.3	86.1	92.2
70°	59.4	62.1	66.1	70.7	74.7
72.5°	47.9	49.0	52.3	55.6	59.8
75°	35.3	37.2	39.9	41.8	44.2
77.5°	25.4	26.5	28.1	29.6	31.9
80°	17.0	17.4	18.9	19.2	20.9
82.5°	10.3	10.6	10.9	11.1	11.7
85°	5.5	5.5	5.5	5.2	5.2
87.5°	3.2	3.2	2.7	2.2	1.6
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)