

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: P554225

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-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: P554225
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

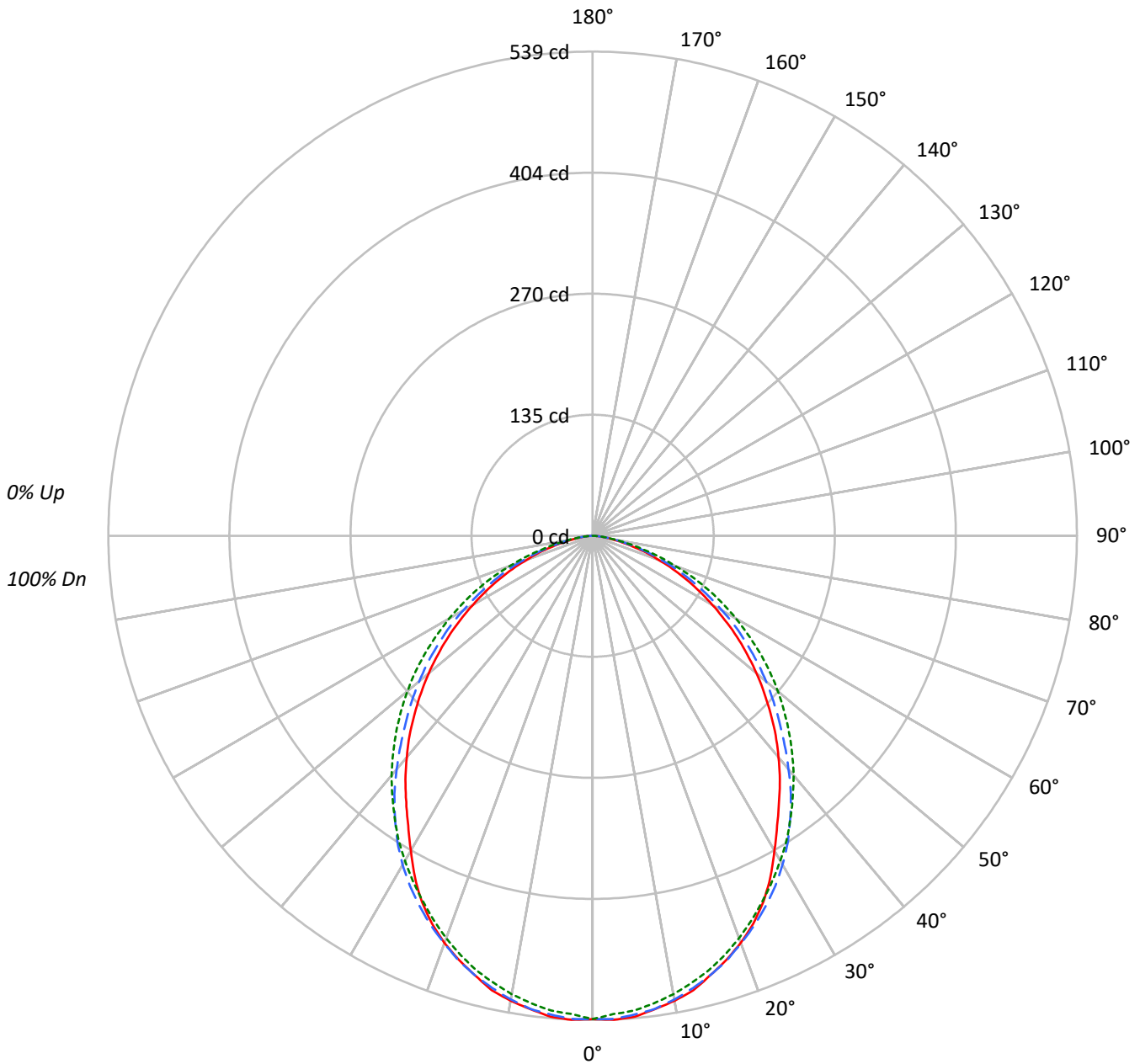
Lumens per Lamp: N/A
Luminaire Lumens: 1244.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2895	2895	2895
5°	2903	2891	2867
10°	2872	2865	2832
15°	2822	2822	2789
20°	2762	2765	2730
25°	2670	2704	2661
30°	2515	2628	2596
35°	2376	2519	2523
40°	2261	2383	2446
45°	2132	2238	2353
50°	1995	2109	2253
55°	1840	1963	2131
60°	1658	1791	1983
65°	1463	1592	1803
70°	1220	1356	1531
75°	959	1083	1200
80°	685	762	846
85°	445	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	4.1
10°-20°	142.3	11.4
20°-30°	207.9	16.7
30°-40°	236.0	19.0
40°-50°	227.9	18.3
50°-60°	188.0	15.1
60°-70°	125.2	10.1
70°-80°	56.0	4.5
80°-90°	10.0	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°	400.9	32.2
0°-40°	636.9	51.2
0°-60°	1052.8	84.6
0°-90°	1244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	537	537	535	532	531	51
15°	506	508	506	504	501	143
25°	450	453	455	452	448	206
35°	362	367	383	386	384	227
45°	280	285	294	308	309	216
55°	196	199	209	221	227	175
65°	115	118	125	134	142	114
75°	46	49	52	55	58	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.0	538.0	538.0	538.0	538.0
2.5°	539.4	539.7	538.4	535.1	533.0
5°	537.4	537.2	535.1	532.2	530.6
7.5°	531.4	531.8	531.2	527.0	524.8
10°	525.6	525.8	524.2	520.8	518.2
12.5°	518.2	517.9	515.7	514.0	509.7
15°	506.4	507.6	506.4	504.1	500.6
17.5°	495.0	495.0	495.8	491.9	489.2
20°	482.2	482.8	482.8	479.7	476.6
22.5°	467.3	469.2	469.8	466.5	462.8
25°	449.7	453.3	455.3	452.0	448.1
27.5°	428.5	433.8	440.0	437.5	433.2
30°	404.7	412.5	422.9	420.8	417.7
32.5°	382.2	390.0	404.3	403.4	401.8
35°	361.7	366.7	383.4	385.5	384.0
37.5°	342.3	346.8	362.5	367.3	366.0
40°	321.8	326.8	339.2	347.6	348.1
42.5°	301.6	306.3	316.4	328.6	328.6
45°	280.1	284.8	294.1	307.5	309.2
47.5°	259.0	263.9	273.0	286.5	289.2
50°	238.3	242.9	251.9	265.0	269.1
52.5°	216.8	221.8	230.7	242.6	248.6
55°	196.1	199.4	209.2	220.7	227.1
57.5°	174.6	177.7	188.7	198.6	205.2
60°	154.0	157.9	166.4	176.5	184.2
62.5°	134.1	138.3	145.5	154.4	163.1
65°	114.9	118.0	125.0	133.9	141.6
67.5°	96.3	99.0	106.0	112.2	120.3
70°	77.5	81.0	86.2	92.2	97.3
72.5°	62.4	63.9	68.2	72.5	77.9
75°	46.1	48.6	52.1	54.6	57.7
77.5°	33.1	34.5	36.6	38.6	41.5
80°	22.1	22.7	24.6	25.0	27.3
82.5°	13.4	13.8	14.3	14.5	15.3
85°	7.2	7.2	7.2	6.8	6.8
87.5°	4.1	4.1	3.5	2.9	2.1
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)