

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: P554139

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-94-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: P554139
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

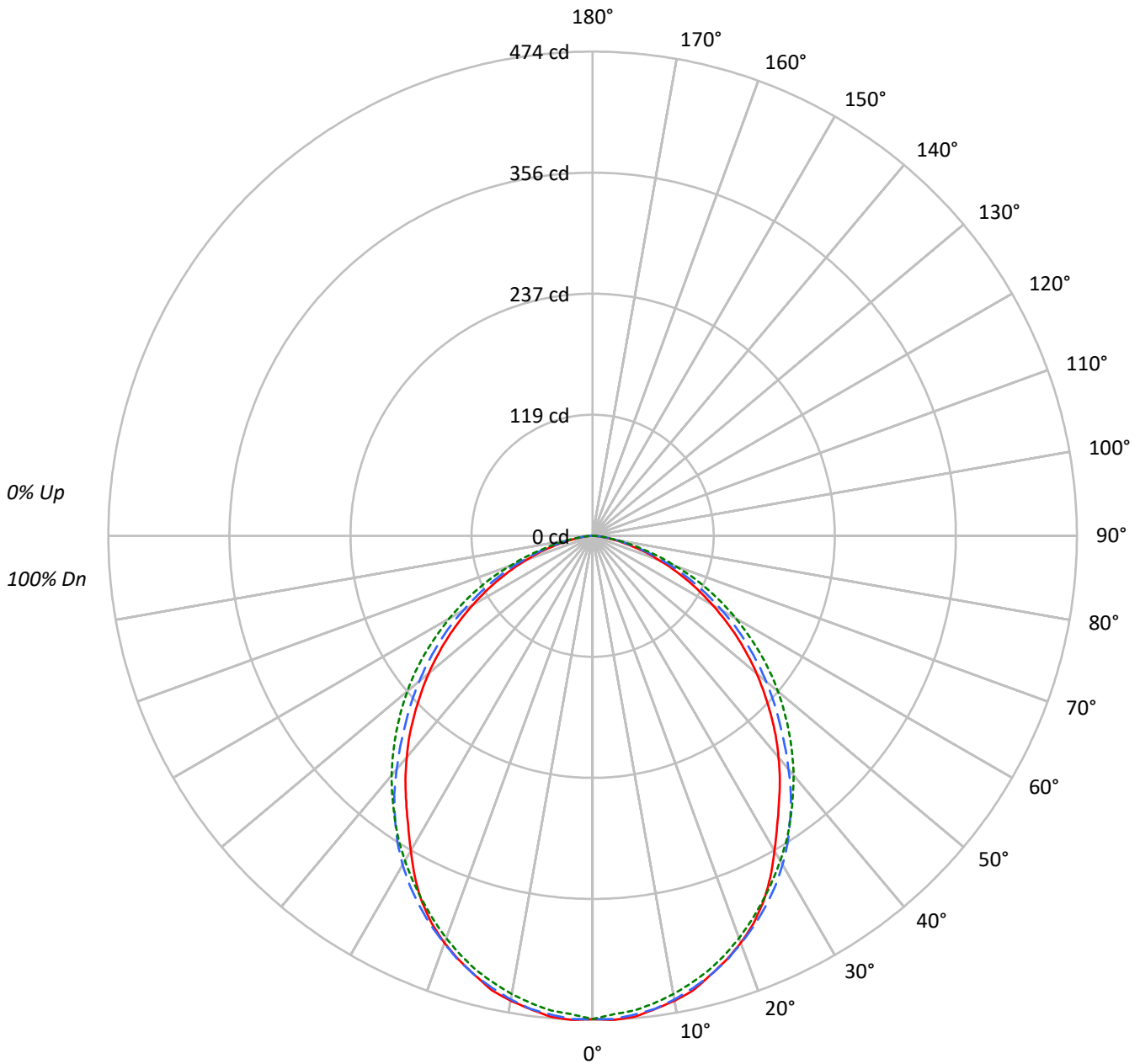
Lumens per Lamp: N/A
Luminaire Lumens: 1094.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2546	2546	2546
5°	2553	2542	2521
10°	2526	2519	2490
15°	2481	2481	2453
20°	2429	2432	2400
25°	2349	2378	2340
30°	2212	2311	2283
35°	2090	2215	2219
40°	1988	2096	2151
45°	1875	1968	2069
50°	1755	1855	1982
55°	1619	1726	1875
60°	1457	1575	1744
65°	1287	1401	1585
70°	1073	1193	1347
75°	842	952	1054
80°	601	669	744
85°	395	395	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	4.1
10°-20°	125.1	11.4
20°-30°	182.9	16.7
30°-40°	207.6	19.0
40°-50°	200.4	18.3
50°-60°	165.3	15.1
60°-70°	110.1	10.1
70°-80°	49.3	4.5
80°-90°	8.8	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°	352.6	32.2
0°-40°	560.1	51.2
0°-60°	925.8	84.6
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	473	472	471	468	467	45
15°	445	446	445	443	440	126
25°	396	399	400	398	394	181
35°	318	322	337	339	338	199
45°	246	250	259	270	272	190
55°	172	175	184	194	200	154
65°	101	104	110	118	124	100
75°	40	43	46	48	51	44
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.1	473.1	473.1	473.1	473.1
2.5°	474.4	474.6	473.5	470.6	468.8
5°	472.6	472.4	470.6	468.0	466.6
7.5°	467.3	467.7	467.1	463.5	461.5
10°	462.2	462.4	460.9	458.0	455.7
12.5°	455.7	455.5	453.5	452.0	448.2
15°	445.3	446.4	445.3	443.3	440.2
17.5°	435.3	435.3	436.0	432.6	430.2
20°	424.1	424.6	424.6	421.9	419.1
22.5°	411.0	412.6	413.1	410.2	407.0
25°	395.5	398.6	400.4	397.5	394.1
27.5°	376.8	381.5	387.0	384.8	381.0
30°	355.9	362.8	371.9	370.1	367.3
32.5°	336.1	343.0	355.5	354.8	353.3
35°	318.1	322.4	337.2	339.0	337.7
37.5°	301.0	305.0	318.8	323.0	321.9
40°	283.0	287.4	298.3	305.7	306.1
42.5°	265.2	269.4	278.3	289.0	289.0
45°	246.3	250.5	258.6	270.5	271.9
47.5°	227.7	232.1	240.1	251.9	254.3
50°	209.6	213.6	221.6	233.0	236.7
52.5°	190.7	195.0	202.8	213.4	218.7
55°	172.5	175.4	183.9	194.1	199.8
57.5°	153.6	156.3	165.9	174.7	180.5
60°	135.4	138.9	146.3	155.2	162.0
62.5°	118.0	121.6	128.0	135.8	143.4
65°	101.1	103.8	110.0	117.8	124.5
67.5°	84.7	87.1	93.2	98.7	105.8
70°	68.2	71.3	75.8	81.1	85.6
72.5°	54.9	56.2	60.0	63.8	68.5
75°	40.5	42.7	45.8	48.0	50.7
77.5°	29.1	30.4	32.2	34.0	36.5
80°	19.4	20.0	21.6	22.0	24.0
82.5°	11.8	12.2	12.5	12.7	13.5
85°	6.4	6.4	6.4	6.0	6.0
87.5°	3.6	3.6	3.1	2.5	1.8
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)