

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: P554122

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-81-94-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: P554122
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-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

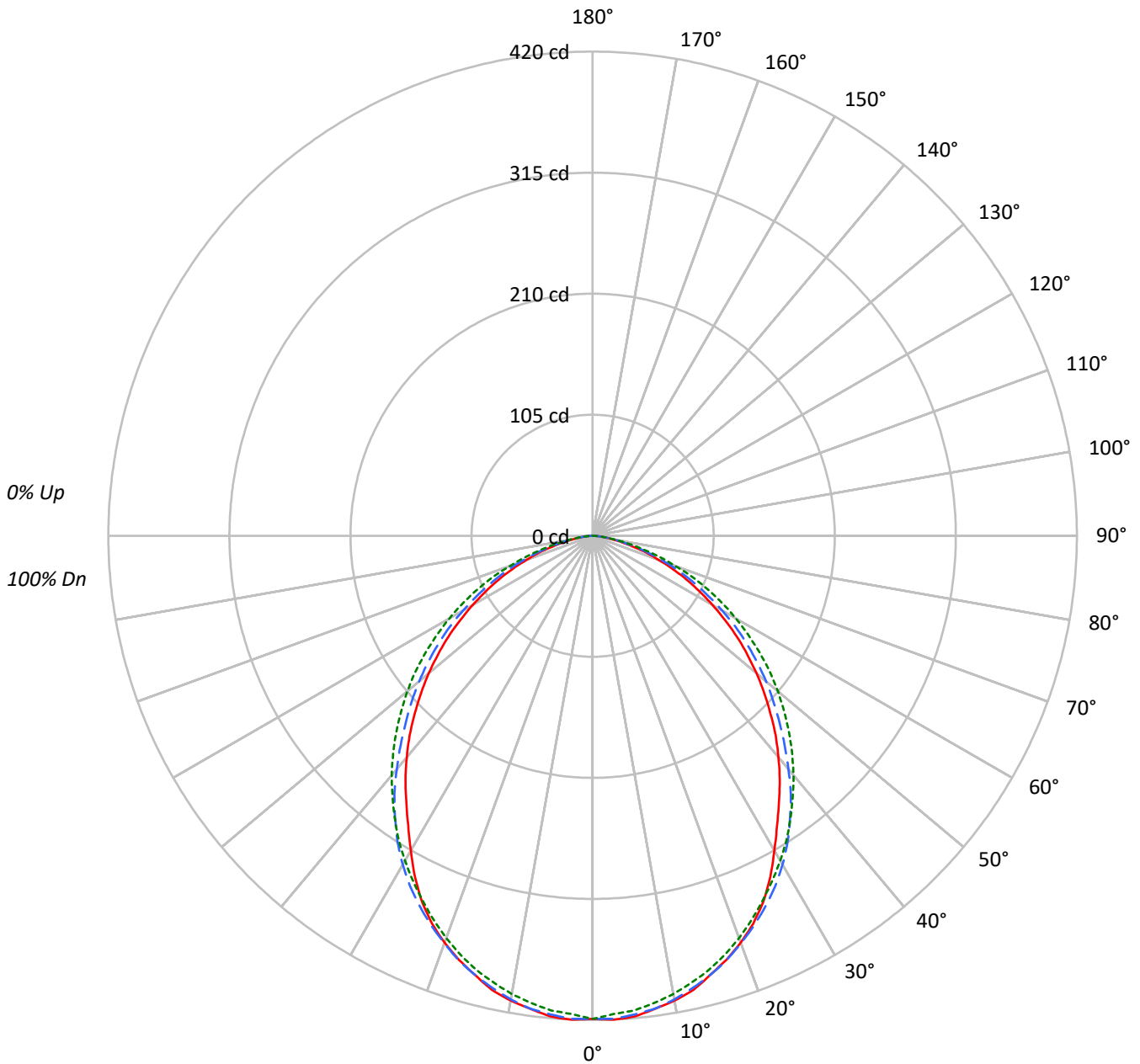
Lumens per Lamp: N/A
Luminaire Lumens: 969.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2256	2256	2256
5°	2261	2252	2233
10°	2237	2231	2206
15°	2198	2198	2172
20°	2151	2154	2127
25°	2080	2106	2072
30°	1959	2047	2022
35°	1851	1962	1965
40°	1761	1856	1905
45°	1660	1744	1833
50°	1554	1644	1755
55°	1434	1529	1660
60°	1291	1395	1544
65°	1140	1240	1405
70°	950	1056	1193
75°	747	844	934
80°	533	595	660
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	4.1
10°-20°	110.8	11.4
20°-30°	162.0	16.7
30°-40°	183.9	19.0
40°-50°	177.5	18.3
50°-60°	146.4	15.1
60°-70°	97.5	10.1
70°-80°	43.6	4.5
80°-90°	7.8	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°	312.3	32.2
0°-40°	496.2	51.2
0°-60°	820.1	84.6
0°-90°	969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	419	418	417	415	413	40
15°	394	395	394	393	390	111
25°	350	353	355	352	349	160
35°	282	286	299	300	299	177
45°	218	222	229	240	241	168
55°	153	155	163	172	177	136
65°	90	92	97	104	110	89
75°	36	38	41	42	45	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	419.1	419.1	419.1	419.1	419.1
2.5°	420.2	420.4	419.4	416.8	415.2
5°	418.6	418.4	416.8	414.6	413.3
7.5°	413.9	414.2	413.8	410.5	408.8
10°	409.4	409.6	408.3	405.7	403.6
12.5°	403.6	403.5	401.7	400.4	397.0
15°	394.4	395.4	394.4	392.7	389.9
17.5°	385.6	385.6	386.2	383.2	381.1
20°	375.6	376.1	376.1	373.7	371.3
22.5°	364.0	365.5	365.9	363.4	360.5
25°	350.3	353.1	354.7	352.1	349.0
27.5°	333.7	337.9	342.8	340.8	337.4
30°	315.2	321.3	329.4	327.8	325.4
32.5°	297.7	303.8	314.9	314.3	313.0
35°	281.7	285.6	298.6	300.3	299.1
37.5°	266.6	270.1	282.4	286.1	285.1
40°	250.7	254.5	264.2	270.8	271.1
42.5°	234.9	238.6	246.5	256.0	256.0
45°	218.1	221.8	229.1	239.6	240.8
47.5°	201.7	205.6	212.7	223.1	225.2
50°	185.6	189.2	196.3	206.4	209.6
52.5°	168.9	172.7	179.7	189.0	193.7
55°	152.8	155.4	162.9	171.9	176.9
57.5°	136.0	138.5	147.0	154.7	159.9
60°	119.9	123.0	129.6	137.5	143.4
62.5°	104.5	107.7	113.3	120.3	127.0
65°	89.5	91.9	97.4	104.3	110.3
67.5°	75.0	77.1	82.6	87.4	93.7
70°	60.4	63.1	67.1	71.8	75.8
72.5°	48.6	49.7	53.1	56.5	60.7
75°	35.9	37.8	40.6	42.5	44.9
77.5°	25.8	26.9	28.5	30.1	32.4
80°	17.2	17.7	19.2	19.5	21.3
82.5°	10.5	10.8	11.1	11.3	11.9
85°	5.6	5.6	5.6	5.3	5.3
87.5°	3.2	3.2	2.7	2.3	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)