

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: P554322

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-82-85-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: P554322
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-50-UNV-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

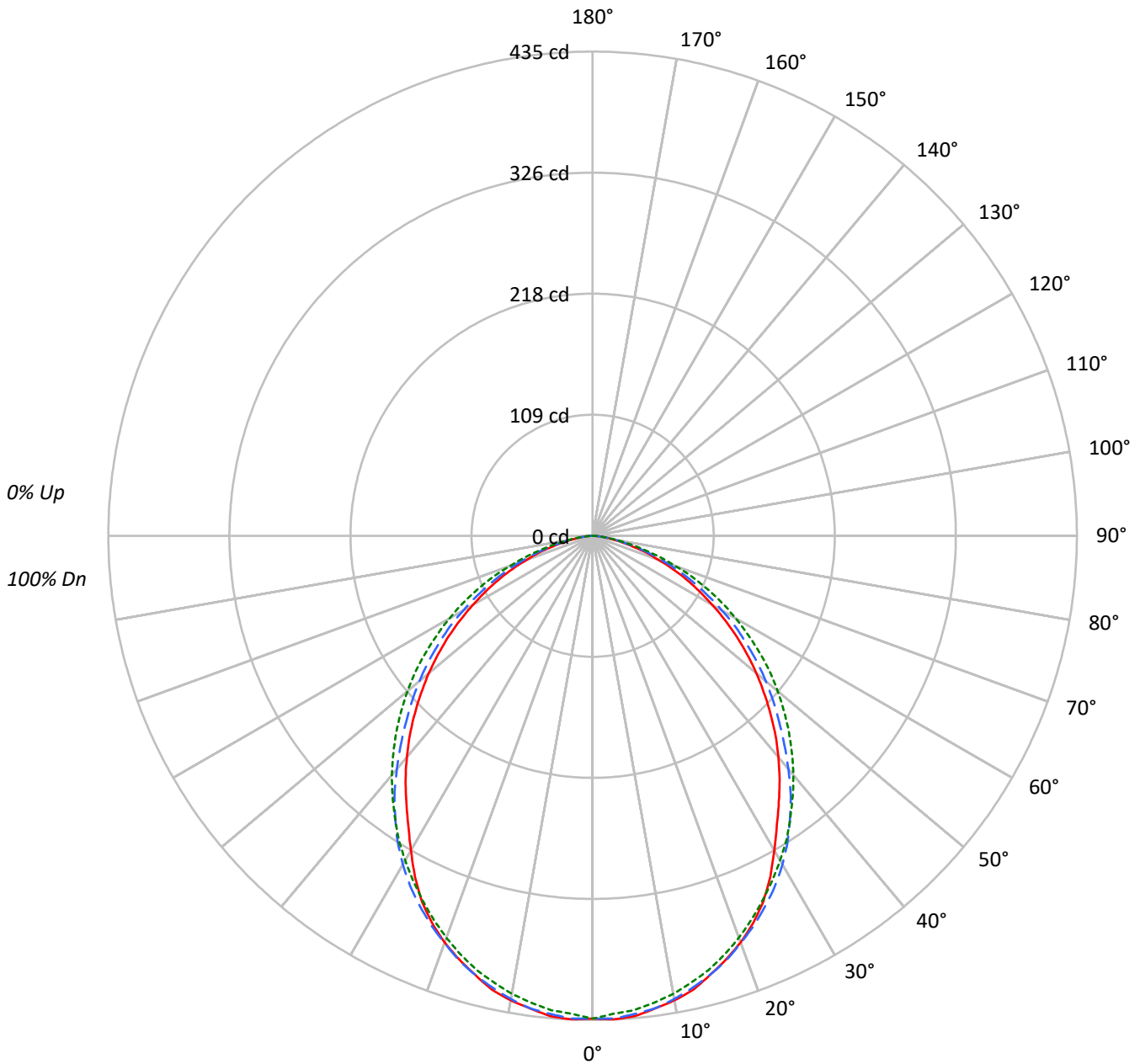
Lumens per Lamp: N/A
Luminaire Lumens: 1003.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2335	2335	2335
5°	2341	2331	2311
10°	2316	2310	2283
15°	2275	2275	2249
20°	2227	2230	2201
25°	2153	2180	2146
30°	2028	2119	2093
35°	1916	2031	2034
40°	1823	1922	1971
45°	1719	1805	1897
50°	1608	1701	1817
55°	1483	1582	1718
60°	1336	1443	1598
65°	1181	1284	1454
70°	983	1094	1235
75°	774	873	967
80°	552	614	682
85°	358	358	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	4.1
10°-20°	114.7	11.4
20°-30°	167.7	16.7
30°-40°	190.3	19.0
40°-50°	183.7	18.3
50°-60°	151.5	15.1
60°-70°	100.9	10.1
70°-80°	45.2	4.5
80°-90°	8.1	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°	323.2	32.2
0°-40°	513.6	51.2
0°-60°	848.8	84.6
0°-90°	1003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	433	433	431	429	428	41
15°	408	409	408	406	404	115
25°	363	365	367	364	361	166
35°	292	296	309	311	310	183
45°	226	230	237	248	249	174
55°	158	161	169	178	183	141
65°	93	95	101	108	114	92
75°	37	39	42	44	46	41
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.8	433.8	433.8	433.8	433.8
2.5°	434.9	435.1	434.1	431.4	429.8
5°	433.3	433.1	431.4	429.1	427.8
7.5°	428.4	428.8	428.3	424.9	423.1
10°	423.8	423.9	422.6	419.9	417.8
12.5°	417.8	417.6	415.8	414.4	410.9
15°	408.3	409.3	408.3	406.4	403.6
17.5°	399.1	399.1	399.8	396.6	394.4
20°	388.8	389.3	389.3	386.8	384.3
22.5°	376.8	378.3	378.8	376.1	373.1
25°	362.6	365.4	367.1	364.4	361.3
27.5°	345.5	349.8	354.8	352.8	349.3
30°	326.3	332.6	341.0	339.3	336.8
32.5°	308.1	314.5	326.0	325.3	324.0
35°	291.6	295.6	309.1	310.8	309.6
37.5°	276.0	279.6	292.3	296.1	295.1
40°	259.5	263.5	273.5	280.3	280.6
42.5°	243.1	247.0	255.1	265.0	265.0
45°	225.8	229.6	237.1	248.0	249.3
47.5°	208.8	212.8	220.1	231.0	233.1
50°	192.1	195.8	203.1	213.6	217.0
52.5°	174.8	178.8	186.0	195.6	200.5
55°	158.1	160.8	168.6	178.0	183.1
57.5°	140.8	143.3	152.1	160.1	165.5
60°	124.1	127.3	134.1	142.3	148.5
62.5°	108.2	111.5	117.3	124.5	131.5
65°	92.7	95.2	100.8	108.0	114.2
67.5°	77.7	79.8	85.5	90.5	97.0
70°	62.5	65.3	69.5	74.3	78.5
72.5°	50.3	51.5	55.0	58.5	62.8
75°	37.2	39.2	42.0	44.0	46.5
77.5°	26.7	27.8	29.5	31.2	33.5
80°	17.8	18.3	19.8	20.2	22.0
82.5°	10.8	11.2	11.5	11.7	12.3
85°	5.8	5.8	5.8	5.5	5.5
87.5°	3.3	3.3	2.8	2.3	1.7
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)