

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: P554324

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-82-86-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: P554324
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-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

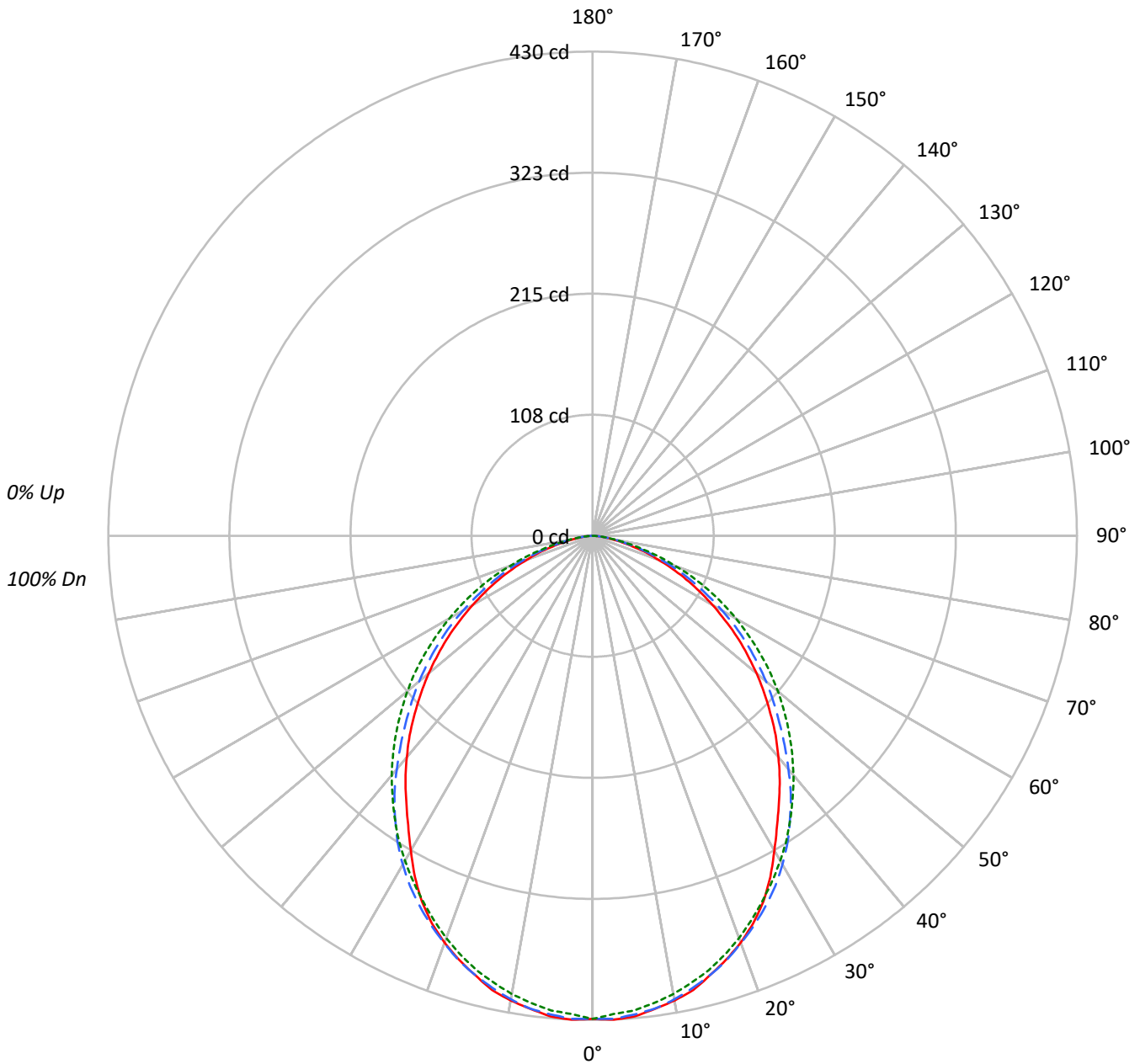
Lumens per Lamp: N/A
Luminaire Lumens: 992.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2309	2309	2309
5°	2315	2305	2286
10°	2290	2284	2258
15°	2250	2250	2224
20°	2202	2205	2177
25°	2129	2156	2122
30°	2005	2096	2070
35°	1895	2008	2012
40°	1803	1900	1950
45°	1700	1785	1877
50°	1591	1682	1797
55°	1468	1565	1699
60°	1322	1428	1581
65°	1167	1270	1438
70°	972	1081	1221
75°	765	863	957
80°	545	607	676
85°	358	358	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	4.1
10°-20°	113.5	11.4
20°-30°	165.8	16.7
30°-40°	188.2	19.0
40°-50°	181.7	18.3
50°-60°	149.9	15.1
60°-70°	99.8	10.1
70°-80°	44.7	4.5
80°-90°	8.0	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°	319.7	32.2
0°-40°	507.9	51.2
0°-60°	839.5	84.6
0°-90°	992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	428	428	427	424	423	41
15°	404	405	404	402	399	114
25°	359	361	363	360	357	164
35°	288	292	306	307	306	181
45°	223	227	234	245	247	172
55°	156	159	167	176	181	140
65°	92	94	100	107	113	91
75°	37	39	42	44	46	40
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°	429.0	429.0	429.0	429.0	429.0
2.5°	430.2	430.3	429.3	426.7	425.1
5°	428.5	428.4	426.7	424.4	423.1
7.5°	423.7	424.1	423.6	420.3	418.5
10°	419.1	419.3	418.0	415.3	413.2
12.5°	413.2	413.0	411.2	409.9	406.4
15°	403.8	404.8	403.8	402.0	399.2
17.5°	394.7	394.7	395.4	392.3	390.1
20°	384.5	385.0	385.0	382.5	380.1
22.5°	372.6	374.1	374.6	372.0	369.0
25°	358.6	361.4	363.1	360.5	357.3
27.5°	341.7	345.9	350.9	348.9	345.5
30°	322.7	329.0	337.2	335.6	333.1
32.5°	304.7	311.0	322.4	321.7	320.4
35°	288.4	292.4	305.7	307.4	306.2
37.5°	272.9	276.6	289.1	292.9	291.9
40°	256.6	260.6	270.5	277.2	277.5
42.5°	240.5	244.3	252.3	262.1	262.1
45°	223.3	227.1	234.5	245.2	246.6
47.5°	206.5	210.5	217.7	228.4	230.6
50°	190.0	193.7	200.9	211.3	214.6
52.5°	172.9	176.8	183.9	193.5	198.3
55°	156.4	159.0	166.8	176.0	181.1
57.5°	139.3	141.7	150.5	158.4	163.7
60°	122.8	125.9	132.7	140.8	146.9
62.5°	107.0	110.3	116.0	123.1	130.0
65°	91.6	94.1	99.7	106.8	112.9
67.5°	76.8	78.9	84.6	89.5	95.9
70°	61.8	64.6	68.7	73.5	77.6
72.5°	49.8	50.9	54.4	57.9	62.1
75°	36.8	38.7	41.5	43.5	46.0
77.5°	26.4	27.5	29.2	30.8	33.1
80°	17.6	18.1	19.6	19.9	21.8
82.5°	10.7	11.0	11.4	11.5	12.2
85°	5.8	5.8	5.8	5.4	5.4
87.5°	3.3	3.3	2.8	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)