

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: P554132

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-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: P554132
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-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

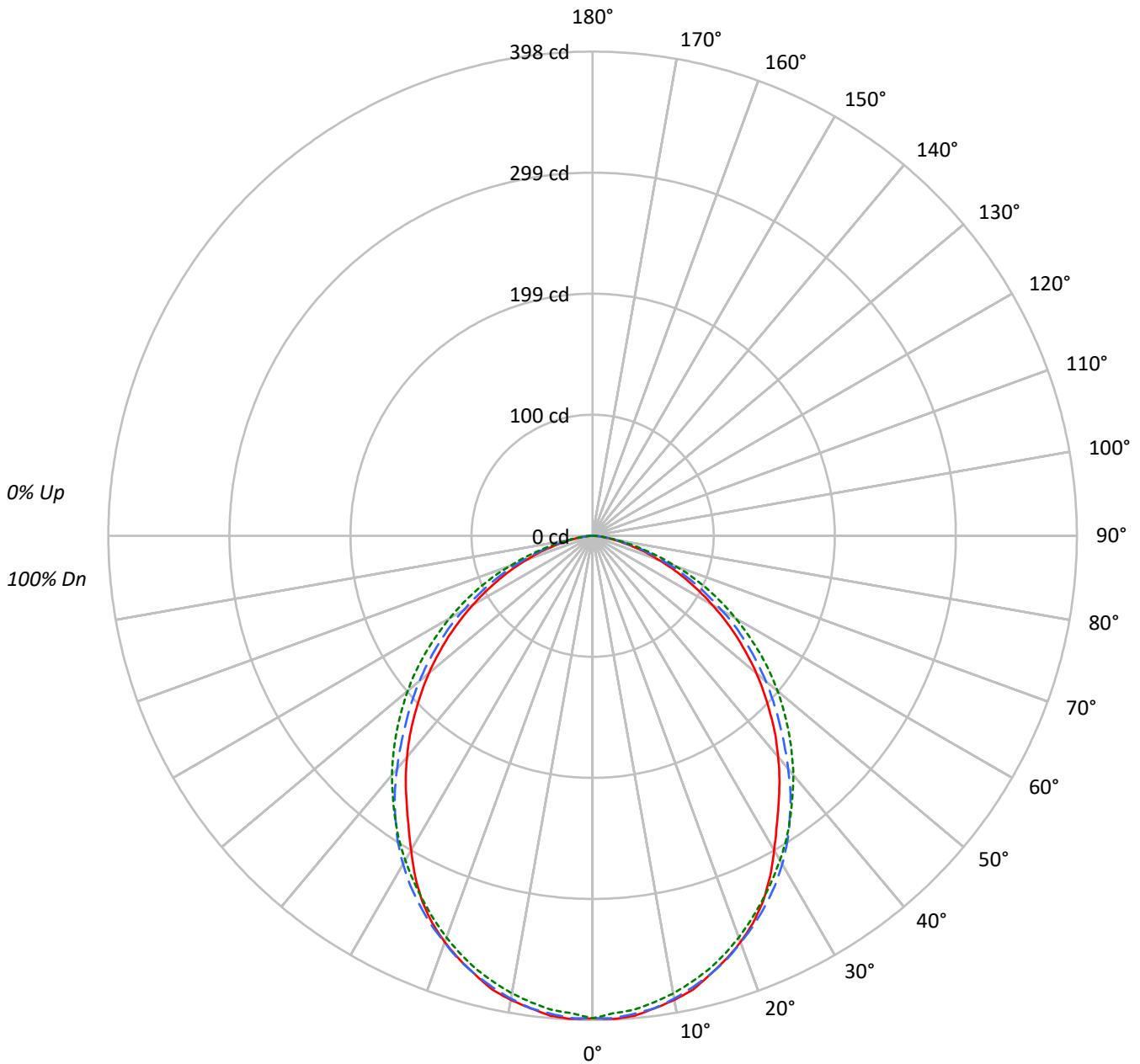
Lumens per Lamp: N/A
Luminaire Lumens: 917.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2134	2134	2134
5°	2140	2131	2113
10°	2117	2112	2088
15°	2080	2080	2056
20°	2036	2038	2012
25°	1969	1993	1961
30°	1854	1937	1913
35°	1752	1857	1860
40°	1666	1756	1803
45°	1571	1650	1735
50°	1471	1555	1661
55°	1357	1447	1571
60°	1222	1320	1461
65°	1079	1174	1330
70°	899	999	1130
75°	707	799	884
80°	505	561	623
85°	327	327	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	4.1
10°-20°	104.9	11.4
20°-30°	153.3	16.7
30°-40°	174.0	19.0
40°-50°	168.0	18.3
50°-60°	138.6	15.1
60°-70°	92.3	10.1
70°-80°	41.3	4.5
80°-90°	7.4	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°	295.5	32.2
0°-40°	469.5	51.2
0°-60°	776.0	84.6
0°-90°	917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	396	396	394	392	391	37
15°	373	374	373	372	369	105
25°	332	334	336	333	330	152
35°	267	270	283	284	283	167
45°	206	210	217	227	228	159
55°	145	147	154	163	167	129
65°	85	87	92	99	104	84
75°	34	36	38	40	42	37
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	396.6	396.6	396.6	396.6	396.6
2.5°	397.6	397.8	396.9	394.4	392.9
5°	396.1	396.0	394.4	392.3	391.1
7.5°	391.7	392.0	391.6	388.5	386.8
10°	387.4	387.6	386.4	383.9	382.0
12.5°	382.0	381.8	380.1	378.9	375.7
15°	373.3	374.2	373.3	371.6	369.0
17.5°	364.9	364.9	365.5	362.6	360.6
20°	355.4	355.9	355.9	353.6	351.3
22.5°	344.5	345.8	346.3	343.9	341.1
25°	331.5	334.1	335.6	333.2	330.3
27.5°	315.8	319.8	324.4	322.5	319.3
30°	298.3	304.1	311.7	310.2	307.9
32.5°	281.7	287.5	298.0	297.4	296.2
35°	266.6	270.3	282.6	284.1	283.1
37.5°	252.3	255.7	267.2	270.7	269.8
40°	237.2	240.9	250.0	256.3	256.6
42.5°	222.3	225.8	233.3	242.2	242.2
45°	206.4	209.9	216.8	226.7	227.9
47.5°	190.9	194.6	201.3	211.2	213.1
50°	175.7	179.0	185.7	195.3	198.4
52.5°	159.8	163.5	170.0	178.9	183.3
55°	144.6	147.0	154.2	162.7	167.4
57.5°	128.7	131.0	139.1	146.4	151.3
60°	113.5	116.4	122.6	130.1	135.7
62.5°	98.9	101.9	107.3	113.8	120.2
65°	84.7	87.0	92.2	98.7	104.4
67.5°	71.0	73.0	78.2	82.7	88.7
70°	57.1	59.7	63.5	68.0	71.8
72.5°	46.0	47.1	50.3	53.5	57.4
75°	34.0	35.8	38.4	40.2	42.5
77.5°	24.4	25.4	27.0	28.5	30.6
80°	16.3	16.8	18.1	18.4	20.1
82.5°	9.9	10.2	10.5	10.7	11.3
85°	5.3	5.3	5.3	5.0	5.0
87.5°	3.0	3.0	2.6	2.1	1.5
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)