

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: P554134

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-87-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: P554134
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

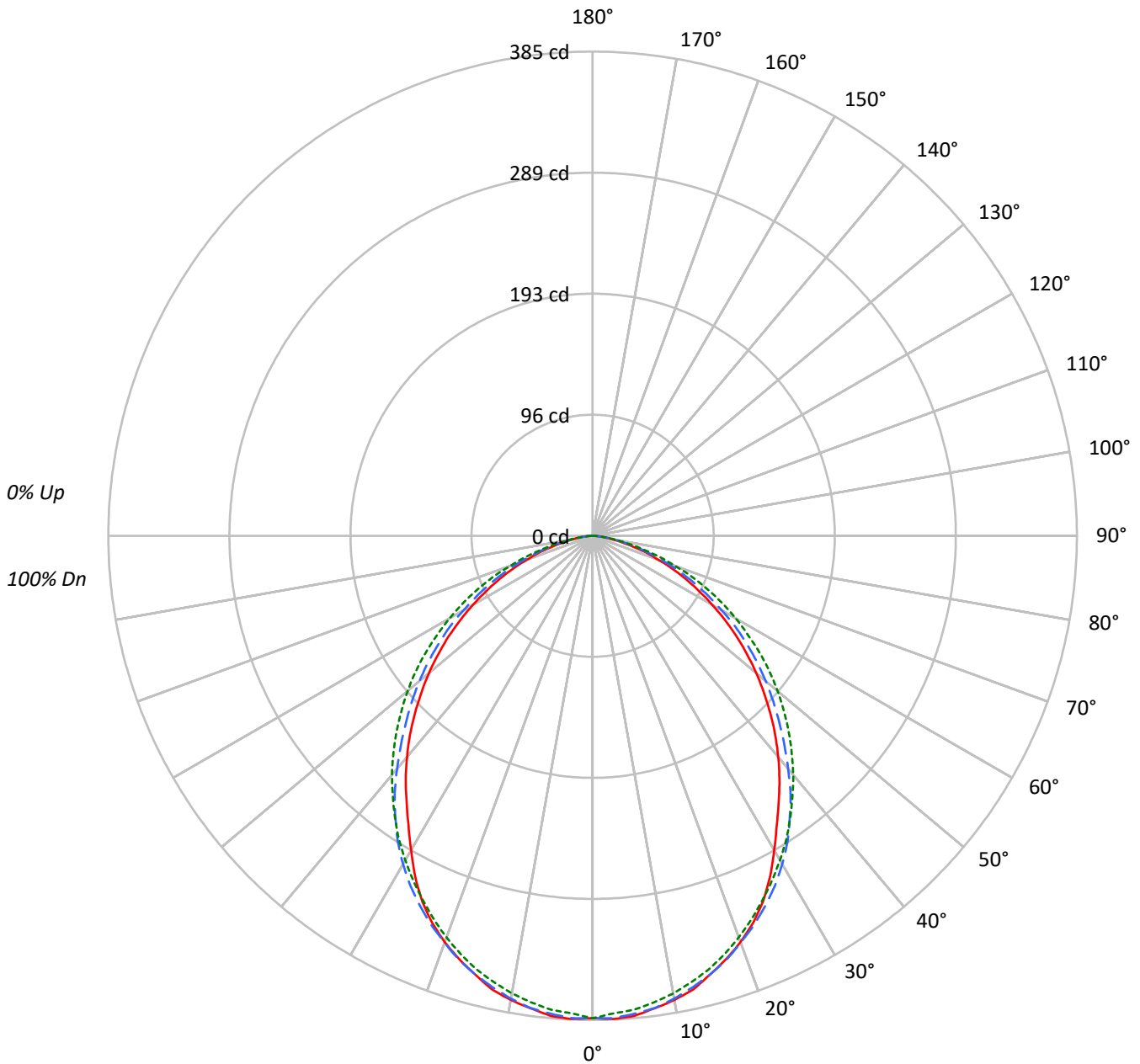
Lumens per Lamp: N/A
Luminaire Lumens: 887.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2065	2065	2065
5°	2070	2061	2044
10°	2048	2042	2019
15°	2012	2012	1989
20°	1969	1972	1946
25°	1904	1928	1897
30°	1794	1874	1851
35°	1694	1796	1799
40°	1612	1699	1744
45°	1520	1596	1678
50°	1423	1504	1607
55°	1313	1399	1520
60°	1182	1277	1413
65°	1043	1136	1285
70°	870	968	1092
75°	684	771	855
80°	490	542	604
85°	321	321	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	4.1
10°-20°	101.5	11.4
20°-30°	148.3	16.7
30°-40°	168.3	19.0
40°-50°	162.5	18.3
50°-60°	134.0	15.1
60°-70°	89.3	10.1
70°-80°	39.9	4.5
80°-90°	7.2	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°	285.9	32.2
0°-40°	454.2	51.2
0°-60°	750.7	84.6
0°-90°	887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	383	383	382	380	378	36
15°	361	362	361	359	357	102
25°	321	323	325	322	320	147
35°	258	261	273	275	274	162
45°	200	203	210	219	220	154
55°	140	142	149	157	162	125
65°	82	84	89	96	101	81
75°	33	35	37	39	41	36
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°	383.6	383.6	383.6	383.6	383.6
2.5°	384.6	384.8	383.9	381.5	380.1
5°	383.2	383.0	381.5	379.5	378.3
7.5°	378.9	379.2	378.7	375.8	374.2
10°	374.8	374.9	373.7	371.4	369.5
12.5°	369.5	369.3	367.7	366.5	363.4
15°	361.1	361.9	361.1	359.4	356.9
17.5°	353.0	353.0	353.5	350.7	348.8
20°	343.8	344.3	344.3	342.0	339.8
22.5°	333.2	334.5	335.0	332.6	330.0
25°	320.7	323.2	324.7	322.3	319.5
27.5°	305.5	309.3	313.8	312.0	308.9
30°	288.6	294.2	301.5	300.0	297.8
32.5°	272.5	278.1	288.3	287.7	286.5
35°	257.9	261.4	273.4	274.8	273.8
37.5°	244.0	247.3	258.5	261.9	261.0
40°	229.5	233.0	241.8	247.9	248.2
42.5°	215.0	218.4	225.6	234.3	234.3
45°	199.7	203.1	209.7	219.3	220.5
47.5°	184.7	188.2	194.7	204.3	206.2
50°	169.9	173.2	179.6	188.9	191.9
52.5°	154.6	158.1	164.5	173.0	177.3
55°	139.9	142.2	149.1	157.4	162.0
57.5°	124.5	126.7	134.5	141.6	146.3
60°	109.8	112.6	118.6	125.9	131.3
62.5°	95.6	98.6	103.7	110.1	116.3
65°	81.9	84.1	89.2	95.5	100.9
67.5°	68.7	70.6	75.6	80.0	85.8
70°	55.3	57.8	61.5	65.7	69.4
72.5°	44.5	45.5	48.6	51.7	55.6
75°	32.9	34.6	37.1	38.9	41.1
77.5°	23.6	24.6	26.1	27.6	29.6
80°	15.8	16.2	17.5	17.8	19.5
82.5°	9.6	9.9	10.2	10.3	10.9
85°	5.2	5.2	5.2	4.9	4.9
87.5°	2.9	2.9	2.5	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)