

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: P554373

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-81-86-EDD**

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: P554373
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-LD4-1STD-30-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

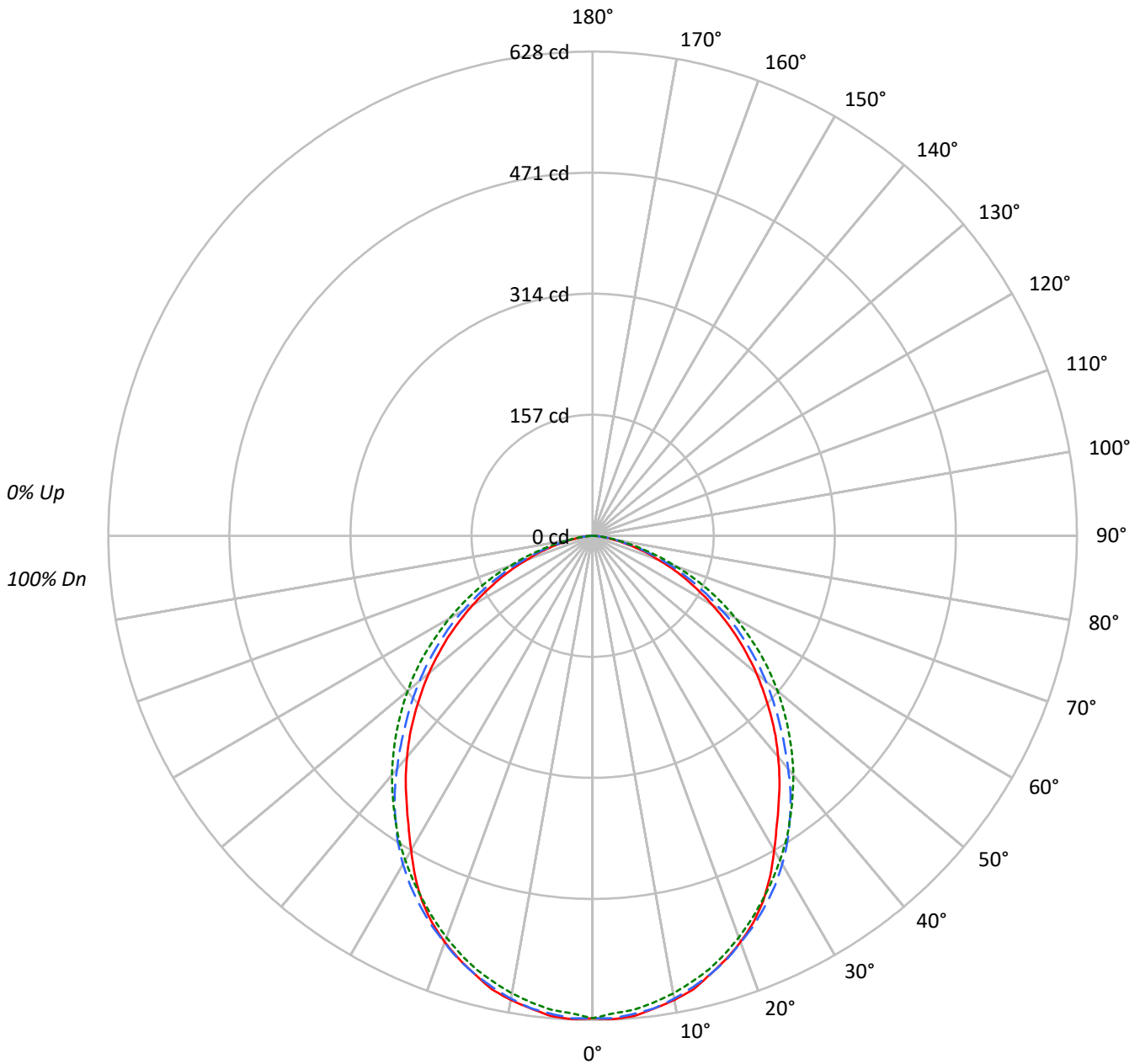
Lumens per Lamp: N/A
Luminaire Lumens: 1447.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3368	3368	3368
5°	3377	3363	3334
10°	3341	3332	3294
15°	3282	3282	3244
20°	3212	3216	3175
25°	3106	3145	3095
30°	2925	3057	3020
35°	2764	2930	2935
40°	2630	2772	2845
45°	2480	2604	2738
50°	2321	2454	2621
55°	2141	2283	2479
60°	1928	2083	2306
65°	1703	1852	2097
70°	1419	1578	1781
75°	1115	1260	1395
80°	797	886	982
85°	519	519	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	4.1
10°-20°	165.5	11.4
20°-30°	241.9	16.7
30°-40°	274.6	19.0
40°-50°	265.1	18.3
50°-60°	218.7	15.1
60°-70°	145.6	10.1
70°-80°	65.2	4.5
80°-90°	11.6	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°	466.3	32.2
0°-40°	740.9	51.2
0°-60°	1224.6	84.6
0°-90°	1447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	625	625	622	619	617	59
15°	589	590	589	586	582	166
25°	523	527	530	526	521	240
35°	421	426	446	448	447	264
45°	326	331	342	358	360	251
55°	228	232	243	257	264	204
65°	134	137	145	156	165	133
75°	54	56	61	64	67	59
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	625.8	625.8	625.8	625.8	625.8
2.5°	627.5	627.7	626.3	622.4	620.0
5°	625.1	624.8	622.4	619.1	617.1
7.5°	618.1	618.6	617.9	613.0	610.4
10°	611.4	611.6	609.7	605.8	602.7
12.5°	602.7	602.5	599.8	597.9	592.9
15°	589.0	590.4	589.0	586.4	582.3
17.5°	575.8	575.8	576.7	572.2	569.1
20°	560.9	561.6	561.6	558.0	554.4
22.5°	543.6	545.7	546.5	542.6	538.3
25°	523.1	527.2	529.6	525.8	521.2
27.5°	498.4	504.6	511.8	509.0	503.9
30°	470.7	479.9	491.9	489.5	485.9
32.5°	444.5	453.7	470.2	469.3	467.4
35°	420.7	426.5	446.0	448.4	446.7
37.5°	398.1	403.4	421.7	427.2	425.8
40°	374.3	380.1	394.5	404.4	404.9
42.5°	350.8	356.3	368.1	382.3	382.3
45°	325.8	331.3	342.1	357.7	359.7
47.5°	301.2	307.0	317.6	333.2	336.3
50°	277.2	282.5	293.1	308.2	313.0
52.5°	252.2	258.0	268.3	282.2	289.2
55°	228.2	232.0	243.3	256.8	264.2
57.5°	203.1	206.8	219.5	231.0	238.7
60°	179.1	183.7	193.5	205.3	214.2
62.5°	156.0	160.8	169.2	179.6	189.7
65°	133.7	137.3	145.4	155.8	164.7
67.5°	112.0	115.2	123.3	130.5	139.9
70°	90.2	94.2	100.3	107.2	113.2
72.5°	72.6	74.3	79.3	84.4	90.6
75°	53.6	56.5	60.6	63.5	67.1
77.5°	38.5	40.1	42.6	45.0	48.3
80°	25.7	26.4	28.6	29.1	31.7
82.5°	15.6	16.1	16.6	16.8	17.8
85°	8.4	8.4	8.4	7.9	7.9
87.5°	4.8	4.8	4.1	3.4	2.4
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)