

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: P554370

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-81-85-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: P554370
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

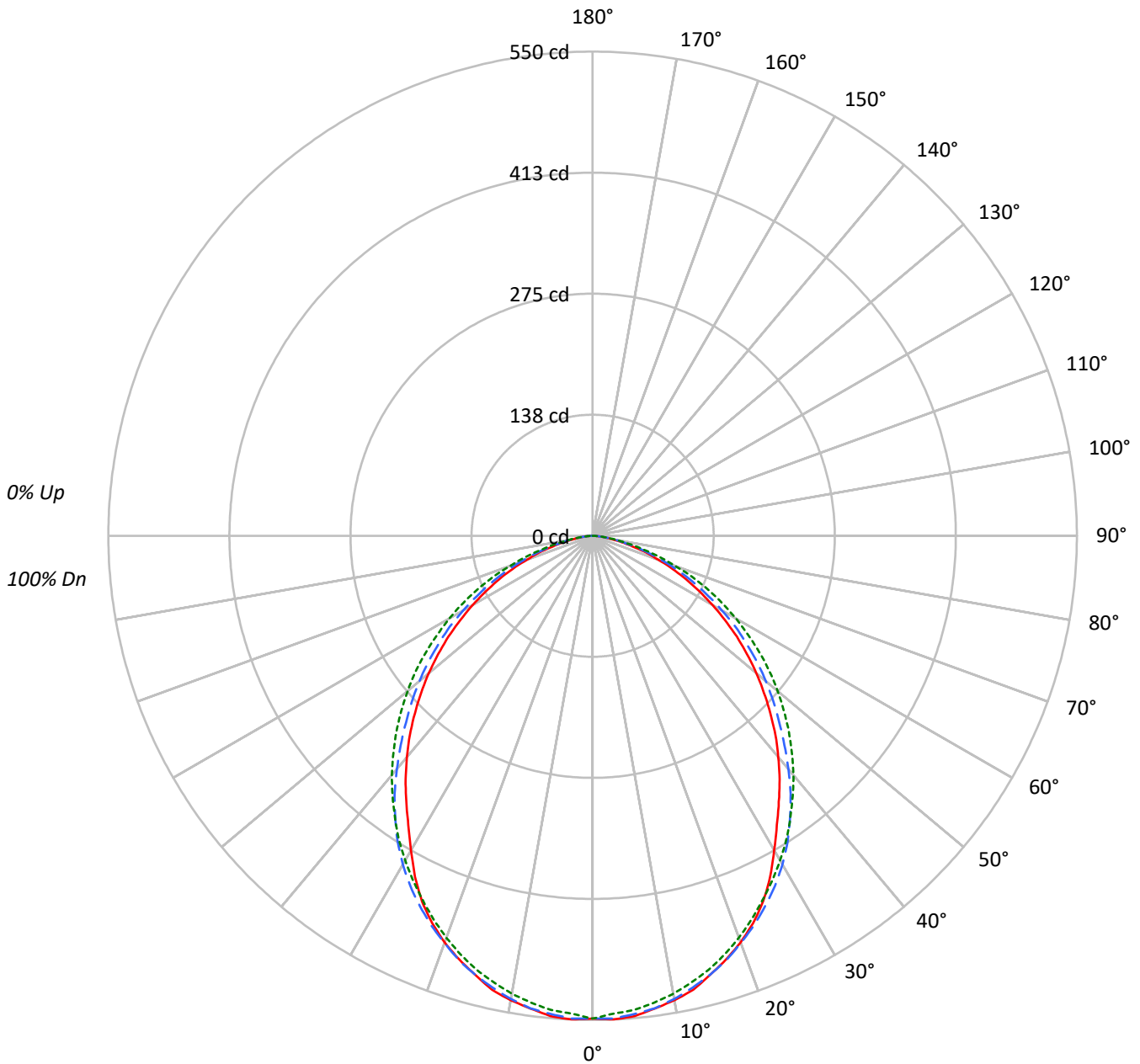
Lumens per Lamp: N/A
Luminaire Lumens: 1268.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2951	2951	2951
5°	2959	2947	2922
10°	2928	2920	2887
15°	2876	2876	2843
20°	2815	2818	2782
25°	2722	2756	2712
30°	2564	2678	2646
35°	2422	2568	2572
40°	2304	2429	2493
45°	2173	2282	2399
50°	2034	2150	2297
55°	1876	2000	2172
60°	1690	1826	2020
65°	1491	1624	1838
70°	1243	1382	1561
75°	977	1104	1223
80°	697	778	862
85°	457	457	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	4.1
10°-20°	145.0	11.4
20°-30°	212.0	16.7
30°-40°	240.6	19.0
40°-50°	232.3	18.3
50°-60°	191.6	15.1
60°-70°	127.6	10.1
70°-80°	57.1	4.5
80°-90°	10.2	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°	408.6	32.2
0°-40°	649.2	51.2
0°-60°	1073.1	84.6
0°-90°	1268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	548	548	545	542	541	52
15°	516	517	516	514	510	146
25°	458	462	464	461	457	210
35°	369	374	391	393	391	231
45°	286	290	300	314	315	220
55°	200	203	213	225	232	178
65°	117	120	128	136	144	116
75°	47	50	53	56	59	51
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.4	548.4	548.4	548.4	548.4
2.5°	549.9	550.1	548.8	545.4	543.3
5°	547.7	547.5	545.4	542.5	540.8
7.5°	541.6	542.1	541.4	537.2	534.9
10°	535.7	535.9	534.3	530.9	528.2
12.5°	528.2	527.9	525.6	523.9	519.5
15°	516.1	517.4	516.1	513.8	510.2
17.5°	504.6	504.6	505.4	501.4	498.7
20°	491.5	492.1	492.1	489.0	485.8
22.5°	476.3	478.2	478.9	475.5	471.7
25°	458.4	462.0	464.1	460.7	456.7
27.5°	436.7	442.2	448.5	446.0	441.6
30°	412.5	420.5	431.0	428.9	425.8
32.5°	389.5	397.5	412.1	411.2	409.5
35°	368.7	373.7	390.8	392.9	391.4
37.5°	348.9	353.5	369.5	374.4	373.1
40°	328.0	333.1	345.7	354.3	354.8
42.5°	307.4	312.2	322.5	335.0	335.0
45°	285.5	290.3	299.8	313.5	315.2
47.5°	264.0	269.0	278.3	292.0	294.7
50°	242.9	247.5	256.8	270.1	274.3
52.5°	221.0	226.1	235.1	247.3	253.4
55°	199.9	203.3	213.2	225.0	231.5
57.5°	178.0	181.2	192.3	202.5	209.2
60°	157.0	161.0	169.6	179.9	187.7
62.5°	136.7	140.9	148.3	157.4	166.2
65°	117.1	120.3	127.5	136.5	144.3
67.5°	98.2	100.9	108.1	114.4	122.6
70°	79.0	82.6	87.8	94.0	99.2
72.5°	63.6	65.1	69.5	73.9	79.4
75°	47.0	49.5	53.1	55.6	58.8
77.5°	33.7	35.2	37.3	39.4	42.3
80°	22.5	23.2	25.1	25.5	27.8
82.5°	13.7	14.1	14.5	14.7	15.6
85°	7.4	7.4	7.4	7.0	7.0
87.5°	4.2	4.2	3.6	2.9	2.1
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)