

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: P554386

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-85-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: P554386
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-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 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

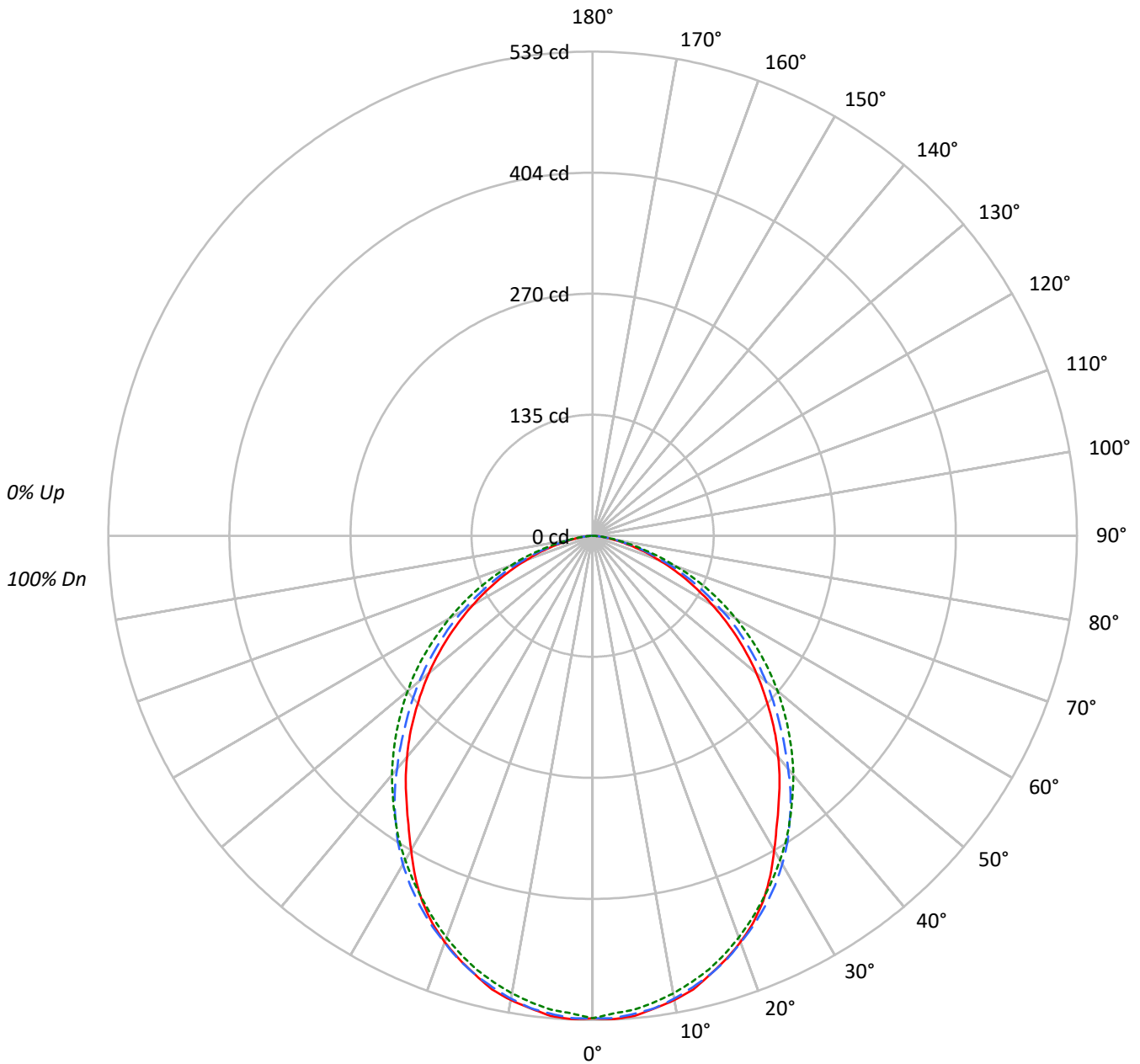
Lumens per Lamp: N/A
Luminaire Lumens: 1242.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	2891	2891	2891
5°	2898	2886	2862
10°	2868	2860	2827
15°	2817	2817	2785
20°	2757	2761	2725
25°	2666	2700	2657
30°	2511	2624	2591
35°	2372	2515	2519
40°	2257	2379	2441
45°	2128	2235	2350
50°	1992	2106	2250
55°	1837	1959	2128
60°	1654	1788	1979
65°	1461	1589	1801
70°	1218	1353	1530
75°	957	1081	1198
80°	685	762	843
85°	445	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	4.1
10°-20°	142.1	11.4
20°-30°	207.6	16.7
30°-40°	235.7	19.0
40°-50°	227.5	18.3
50°-60°	187.7	15.1
60°-70°	125.0	10.1
70°-80°	55.9	4.5
80°-90°	10.0	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°	400.2	32.2
0°-40°	635.9	51.2
0°-60°	1051.1	84.6
0°-90°	1242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	536	536	534	531	530	51
15°	506	507	506	503	500	143
25°	449	452	455	451	447	206
35°	361	366	383	385	383	226
45°	280	284	294	307	309	216
55°	196	199	209	220	227	175
65°	115	118	125	134	141	114
75°	46	48	52	54	58	50
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°	537.1	537.1	537.1	537.1	537.1
2.5°	538.6	538.8	537.5	534.2	532.2
5°	536.5	536.3	534.2	531.4	529.7
7.5°	530.5	530.9	530.3	526.2	523.9
10°	524.8	525.0	523.3	520.0	517.3
12.5°	517.3	517.1	514.8	513.2	508.9
15°	505.6	506.8	505.6	503.3	499.8
17.5°	494.2	494.2	495.0	491.1	488.4
20°	481.4	482.0	482.0	478.9	475.8
22.5°	466.6	468.4	469.0	465.7	462.0
25°	449.0	452.5	454.6	451.3	447.4
27.5°	427.8	433.1	439.3	436.8	432.5
30°	404.0	411.9	422.2	420.1	417.0
32.5°	381.5	389.4	403.6	402.8	401.1
35°	361.1	366.1	382.8	384.8	383.4
37.5°	341.7	346.3	361.9	366.7	365.4
40°	321.3	326.2	338.6	347.1	347.5
42.5°	301.1	305.8	315.9	328.1	328.1
45°	279.6	284.4	293.6	307.1	308.7
47.5°	258.6	263.5	272.6	286.0	288.7
50°	237.9	242.5	251.5	264.5	268.7
52.5°	216.5	221.4	230.3	242.3	248.2
55°	195.8	199.1	208.8	220.4	226.8
57.5°	174.4	177.5	188.4	198.3	204.9
60°	153.7	157.7	166.1	176.2	183.9
62.5°	133.9	138.0	145.3	154.1	162.8
65°	114.7	117.8	124.8	133.7	141.4
67.5°	96.2	98.8	105.9	112.0	120.1
70°	77.4	80.9	86.0	92.0	97.2
72.5°	62.3	63.8	68.1	72.4	77.8
75°	46.0	48.5	52.0	54.5	57.6
77.5°	33.0	34.5	36.5	38.6	41.5
80°	22.1	22.7	24.6	25.0	27.2
82.5°	13.4	13.8	14.2	14.4	15.3
85°	7.2	7.2	7.2	6.8	6.8
87.5°	4.1	4.1	3.5	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)