

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: P555154

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555154
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-LD4-2STD-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

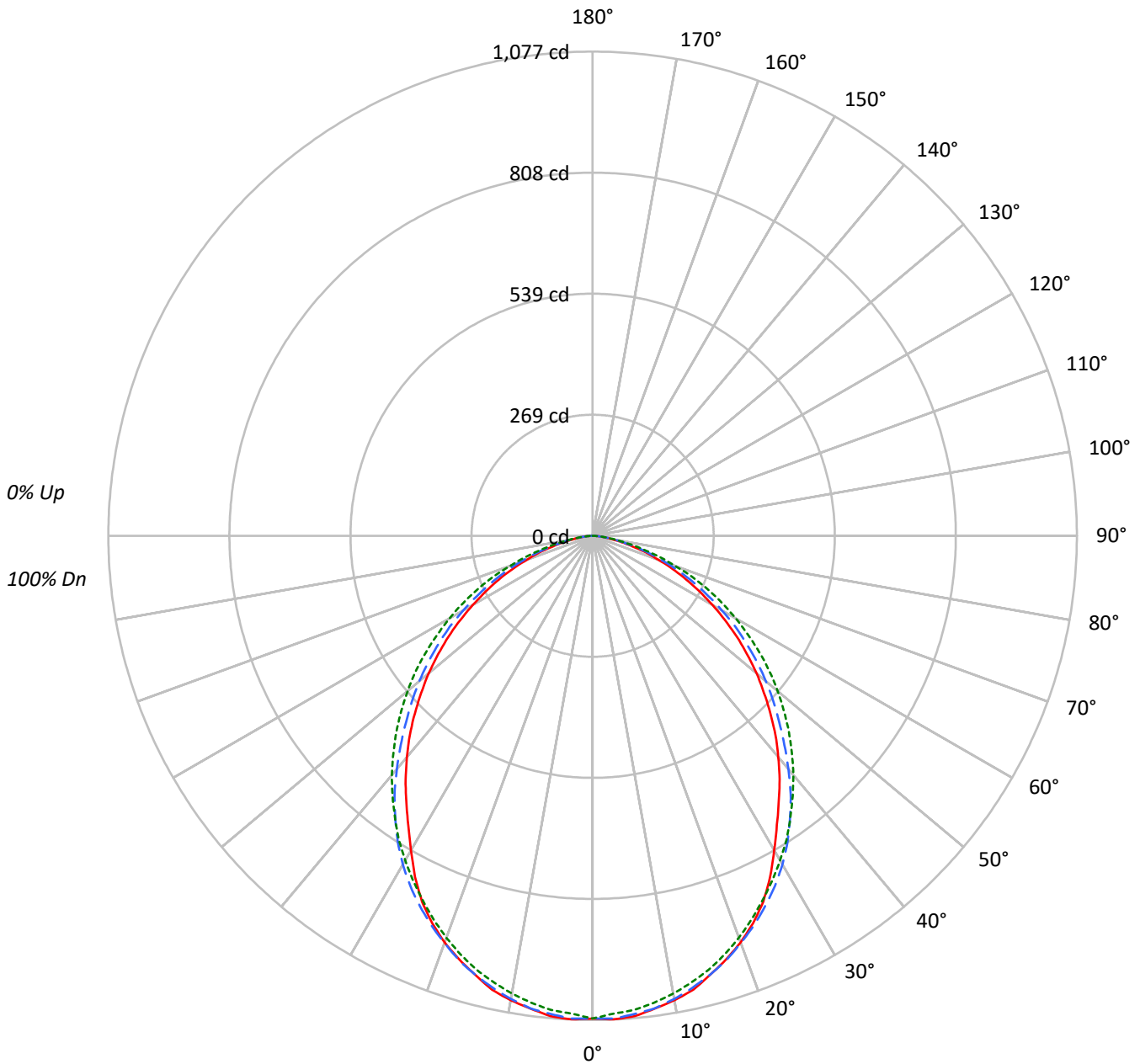
Lumens per Lamp: N/A
Luminaire Lumens: 2483.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5779	5779	5779
5°	5795	5770	5721
10°	5733	5717	5652
15°	5631	5631	5567
20°	5512	5519	5448
25°	5331	5397	5311
30°	5019	5246	5181
35°	4743	5028	5036
40°	4513	4756	4881
45°	4255	4468	4698
50°	3983	4211	4497
55°	3674	3917	4254
60°	3308	3575	3957
65°	2921	3179	3599
70°	2434	2707	3057
75°	1913	2163	2393
80°	1367	1522	1689
85°	889	889	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	4.1
10°-20°	284.0	11.4
20°-30°	415.1	16.7
30°-40°	471.1	19.0
40°-50°	454.8	18.3
50°-60°	375.2	15.1
60°-70°	249.8	10.1
70°-80°	111.8	4.5
80°-90°	20.0	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°	800.2	32.2
0°-40°	1271.3	51.2
0°-60°	2101.4	84.6
0°-90°	2483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1073	1072	1068	1062	1059	102
15°	1011	1013	1011	1006	999	285
25°	898	905	909	902	894	411
35°	722	732	765	769	766	452
45°	559	568	587	614	617	431
55°	392	398	418	441	453	349
65°	229	236	250	267	283	227
75°	92	97	104	109	115	101
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.8	1073.8	1073.8	1073.8	1073.8
2.5°	1076.7	1077.1	1074.7	1068.1	1063.9
5°	1072.6	1072.2	1068.1	1062.3	1059.0
7.5°	1060.6	1061.5	1060.2	1052.0	1047.4
10°	1049.1	1049.5	1046.2	1039.6	1034.2
12.5°	1034.2	1033.8	1029.3	1026.0	1017.3
15°	1010.7	1013.2	1010.7	1006.2	999.2
17.5°	988.0	988.0	989.7	981.8	976.5
20°	962.4	963.7	963.7	957.5	951.3
22.5°	932.7	936.5	937.7	931.1	923.7
25°	897.7	904.7	908.8	902.2	894.4
27.5°	855.2	865.9	878.3	873.3	864.7
30°	807.7	823.4	844.1	839.9	833.7
32.5°	762.8	778.5	806.9	805.3	802.0
35°	721.9	731.8	765.3	769.4	766.5
37.5°	683.2	692.2	723.6	733.1	730.6
40°	642.3	652.2	677.0	693.9	694.7
42.5°	601.9	611.4	631.6	655.9	655.9
45°	559.0	568.5	587.0	613.9	617.2
47.5°	516.9	526.8	545.0	571.8	577.1
50°	475.7	484.7	502.9	528.9	537.1
52.5°	432.8	442.7	460.4	484.3	496.3
55°	391.5	398.1	417.5	440.6	453.4
57.5°	348.6	354.8	376.6	396.4	409.6
60°	307.3	315.2	332.1	352.3	367.6
62.5°	267.7	276.0	290.4	308.2	325.5
65°	229.4	235.6	249.6	267.3	282.6
67.5°	192.2	197.6	211.6	224.0	240.1
70°	154.7	161.7	172.0	184.0	194.3
72.5°	124.6	127.5	136.1	144.8	155.5
75°	92.0	96.9	104.0	108.9	115.1
77.5°	66.0	68.9	73.0	77.1	82.9
80°	44.1	45.4	49.1	49.9	54.5
82.5°	26.8	27.6	28.5	28.9	30.5
85°	14.4	14.4	14.4	13.6	13.6
87.5°	8.3	8.3	7.0	5.8	4.1
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)