

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: P555041

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-93-84-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: P555041
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-LD4-2LO-40-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

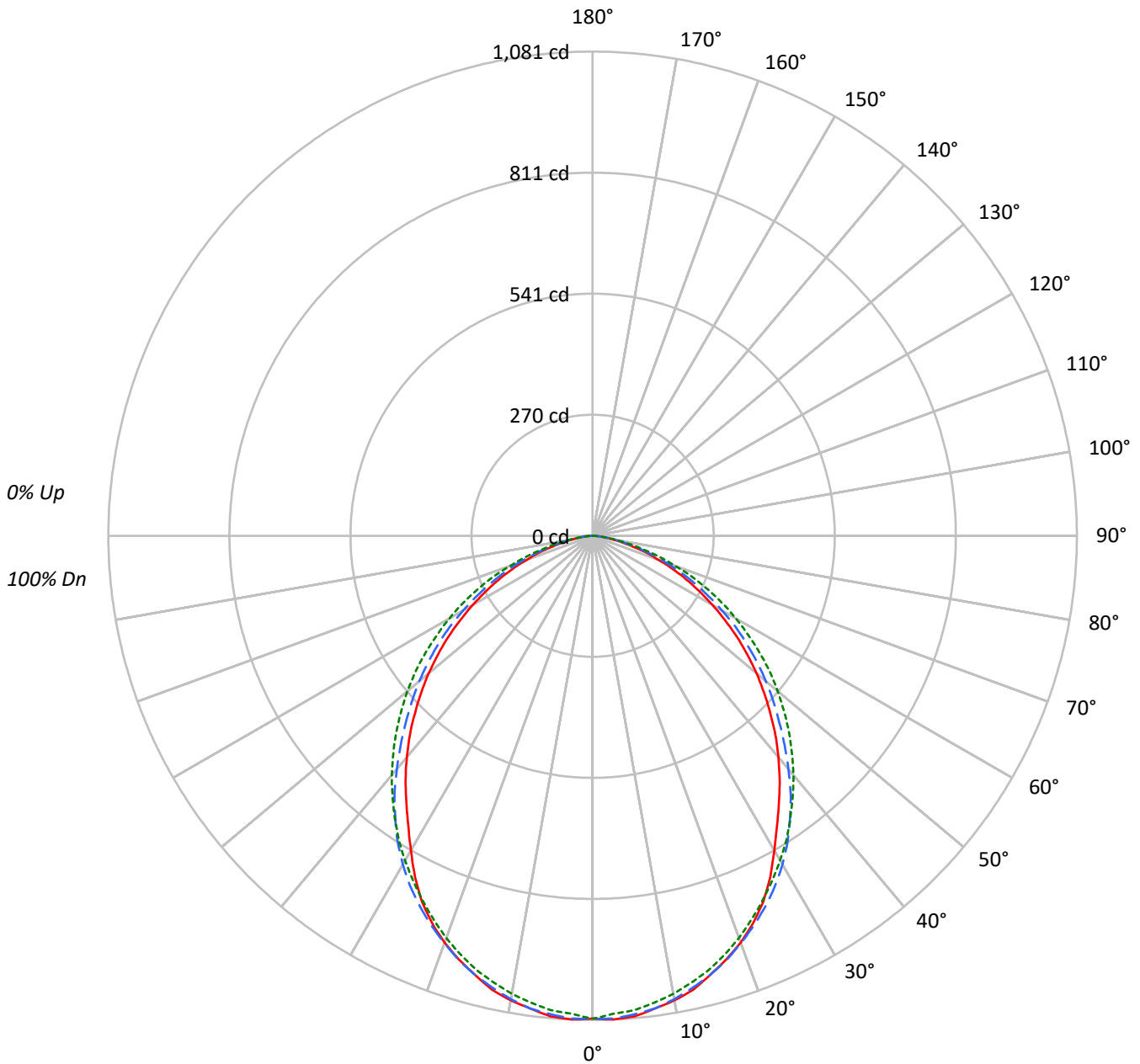
Lumens per Lamp: N/A
Luminaire Lumens: 2493.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5803	5803	5803
5°	5818	5794	5744
10°	5756	5740	5675
15°	5654	5654	5590
20°	5534	5542	5470
25°	5352	5419	5333
30°	5040	5266	5202
35°	4762	5048	5056
40°	4531	4775	4900
45°	4271	4486	4716
50°	3999	4227	4515
55°	3689	3933	4271
60°	3322	3589	3973
65°	2933	3191	3613
70°	2444	2718	3070
75°	1921	2171	2404
80°	1373	1528	1695
85°	895	895	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	4.1
10°-20°	285.2	11.4
20°-30°	416.7	16.7
30°-40°	473.0	19.0
40°-50°	456.6	18.3
50°-60°	376.7	15.1
60°-70°	250.9	10.1
70°-80°	112.3	4.5
80°-90°	20.1	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°	803.4	32.2
0°-40°	1276.5	51.2
0°-60°	2109.8	84.6
0°-90°	2493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1077	1076	1072	1067	1063	102
15°	1015	1017	1015	1010	1003	286
25°	901	908	912	906	898	413
35°	725	735	768	772	770	454
45°	561	571	589	616	620	433
55°	393	400	419	442	455	351
65°	230	236	251	268	284	228
75°	92	97	104	109	116	101
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.2	1078.2	1078.2	1078.2	1078.2
2.5°	1081.1	1081.5	1079.0	1072.4	1068.2
5°	1076.9	1076.5	1072.4	1066.6	1063.2
7.5°	1064.9	1065.7	1064.5	1056.2	1051.6
10°	1053.3	1053.7	1050.4	1043.8	1038.4
12.5°	1038.4	1038.0	1033.4	1030.1	1021.4
15°	1014.8	1017.3	1014.8	1010.2	1003.2
17.5°	992.0	992.0	993.7	985.8	980.4
20°	966.3	967.6	967.6	961.4	955.1
22.5°	936.5	940.2	941.5	934.8	927.4
25°	901.3	908.3	912.5	905.9	898.0
27.5°	858.6	869.4	881.8	876.9	868.2
30°	811.0	826.7	847.4	843.3	837.1
32.5°	765.9	781.6	810.2	808.5	805.2
35°	724.8	734.8	768.3	772.5	769.6
37.5°	685.9	695.0	726.5	736.0	733.5
40°	644.9	654.8	679.7	696.7	697.5
42.5°	604.3	613.8	634.1	658.6	658.6
45°	561.2	570.8	589.4	616.3	619.6
47.5°	519.0	528.9	547.2	574.1	579.5
50°	477.6	486.7	504.9	531.0	539.3
52.5°	434.5	444.4	462.2	486.3	498.3
55°	393.1	399.7	419.2	442.4	455.2
57.5°	350.0	356.2	378.2	398.0	411.3
60°	308.6	316.4	333.4	353.7	369.1
62.5°	268.8	277.1	291.6	309.4	326.8
65°	230.3	236.5	250.6	268.4	283.7
67.5°	193.0	198.4	212.5	224.9	241.1
70°	155.3	162.4	172.7	184.7	195.1
72.5°	125.1	128.0	136.7	145.4	156.2
75°	92.4	97.3	104.4	109.3	115.6
77.5°	66.3	69.2	73.3	77.5	83.3
80°	44.3	45.6	49.3	50.1	54.7
82.5°	26.9	27.8	28.6	29.0	30.7
85°	14.5	14.5	14.5	13.7	13.7
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)