

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: P554883

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-85-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: P554883
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-30-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

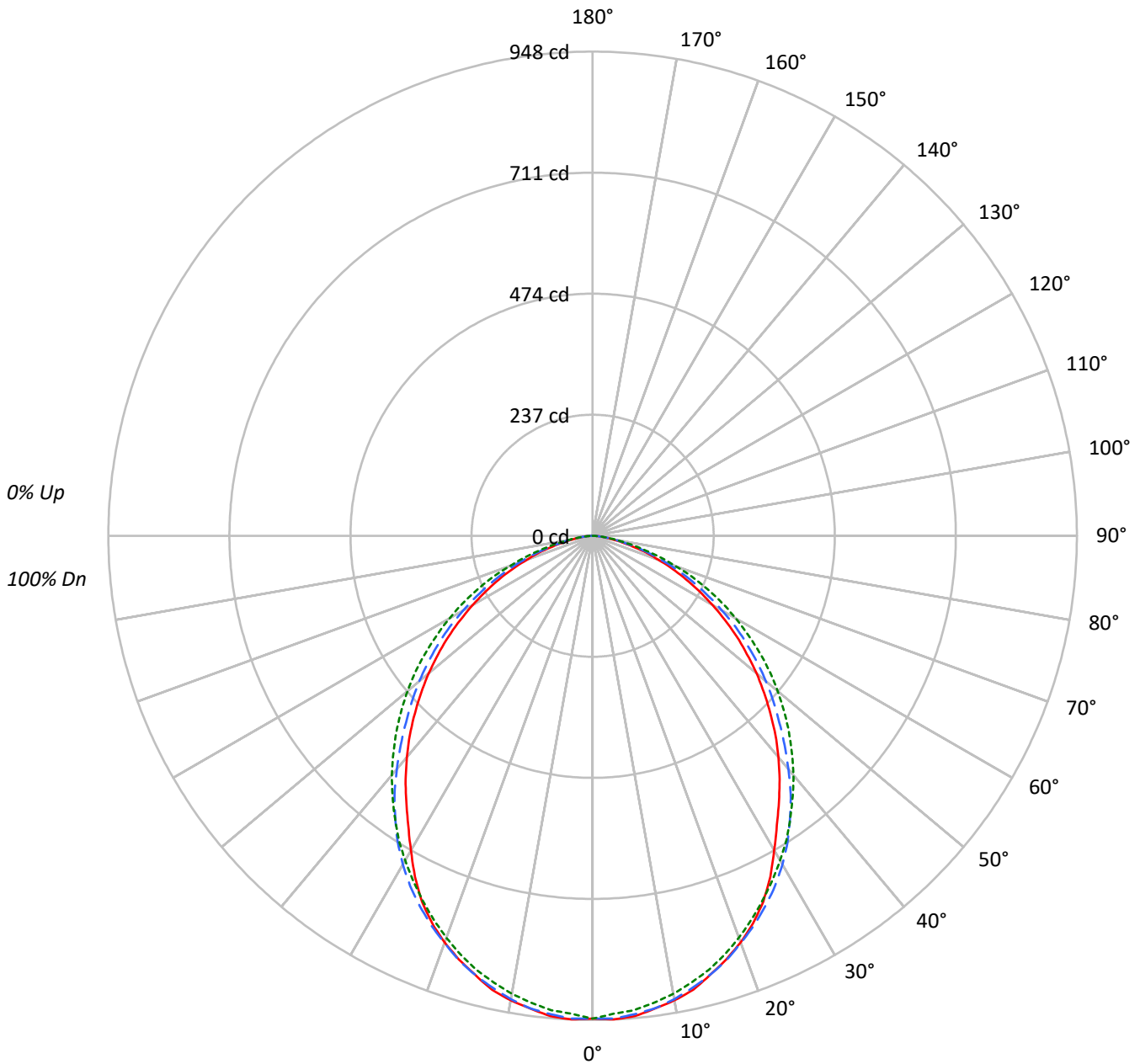
Lumens per Lamp: N/A
Luminaire Lumens: 2186.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5088	5088	5088
5°	5102	5080	5037
10°	5047	5034	4976
15°	4958	4958	4902
20°	4853	4859	4797
25°	4693	4751	4676
30°	4419	4618	4561
35°	4176	4426	4434
40°	3973	4187	4297
45°	3745	3933	4135
50°	3507	3707	3960
55°	3234	3449	3745
60°	2913	3147	3483
65°	2571	2798	3168
70°	2143	2384	2692
75°	1684	1903	2106
80°	1206	1339	1485
85°	784	784	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	4.1
10°-20°	250.1	11.4
20°-30°	365.4	16.7
30°-40°	414.8	19.0
40°-50°	400.4	18.3
50°-60°	330.3	15.1
60°-70°	220.0	10.1
70°-80°	98.4	4.5
80°-90°	17.6	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°	704.5	32.2
0°-40°	1119.3	51.2
0°-60°	1850.0	84.6
0°-90°	2186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	944	944	940	935	932	89
15°	890	892	890	886	880	251
25°	790	796	800	794	787	362
35°	636	644	674	677	675	398
45°	492	500	517	540	543	380
55°	345	350	368	388	399	308
65°	202	207	220	235	249	200
75°	81	85	92	96	101	89
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.4	945.4	945.4	945.4	945.4
2.5°	947.9	948.3	946.1	940.3	936.7
5°	944.3	943.9	940.3	935.2	932.3
7.5°	933.8	934.5	933.4	926.1	922.1
10°	923.6	924.0	921.1	915.2	910.5
12.5°	910.5	910.2	906.2	903.3	895.6
15°	889.8	892.0	889.8	885.8	879.7
17.5°	869.8	869.8	871.3	864.4	859.7
20°	847.3	848.4	848.4	843.0	837.5
22.5°	821.2	824.4	825.5	819.7	813.2
25°	790.3	796.5	800.1	794.3	787.4
27.5°	752.9	762.3	773.2	768.9	761.3
30°	711.1	724.9	743.1	739.5	734.0
32.5°	671.5	685.3	710.4	709.0	706.0
35°	635.6	644.3	673.7	677.4	674.8
37.5°	601.4	609.4	637.0	645.4	643.2
40°	565.5	574.2	596.0	610.9	611.6
42.5°	529.9	538.3	556.0	577.5	577.5
45°	492.1	500.5	516.8	540.4	543.3
47.5°	455.1	463.8	479.8	503.4	508.1
50°	418.8	426.8	442.7	465.6	472.9
52.5°	381.0	389.7	405.3	426.4	436.9
55°	344.7	350.5	367.6	387.9	399.1
57.5°	306.9	312.3	331.6	349.0	360.6
60°	270.6	277.5	292.4	310.2	323.6
62.5°	235.7	243.0	255.7	271.3	286.6
65°	201.9	207.4	219.7	235.3	248.8
67.5°	169.2	174.0	186.3	197.2	211.4
70°	136.2	142.4	151.5	162.0	171.1
72.5°	109.7	112.2	119.9	127.5	136.9
75°	81.0	85.4	91.5	95.9	101.3
77.5°	58.1	60.7	64.3	67.9	73.0
80°	38.9	40.0	43.2	43.9	47.9
82.5°	23.6	24.3	25.1	25.4	26.9
85°	12.7	12.7	12.7	12.0	12.0
87.5°	7.3	7.3	6.2	5.1	3.6
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)