

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: P554877

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-80-96-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: P554877
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-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

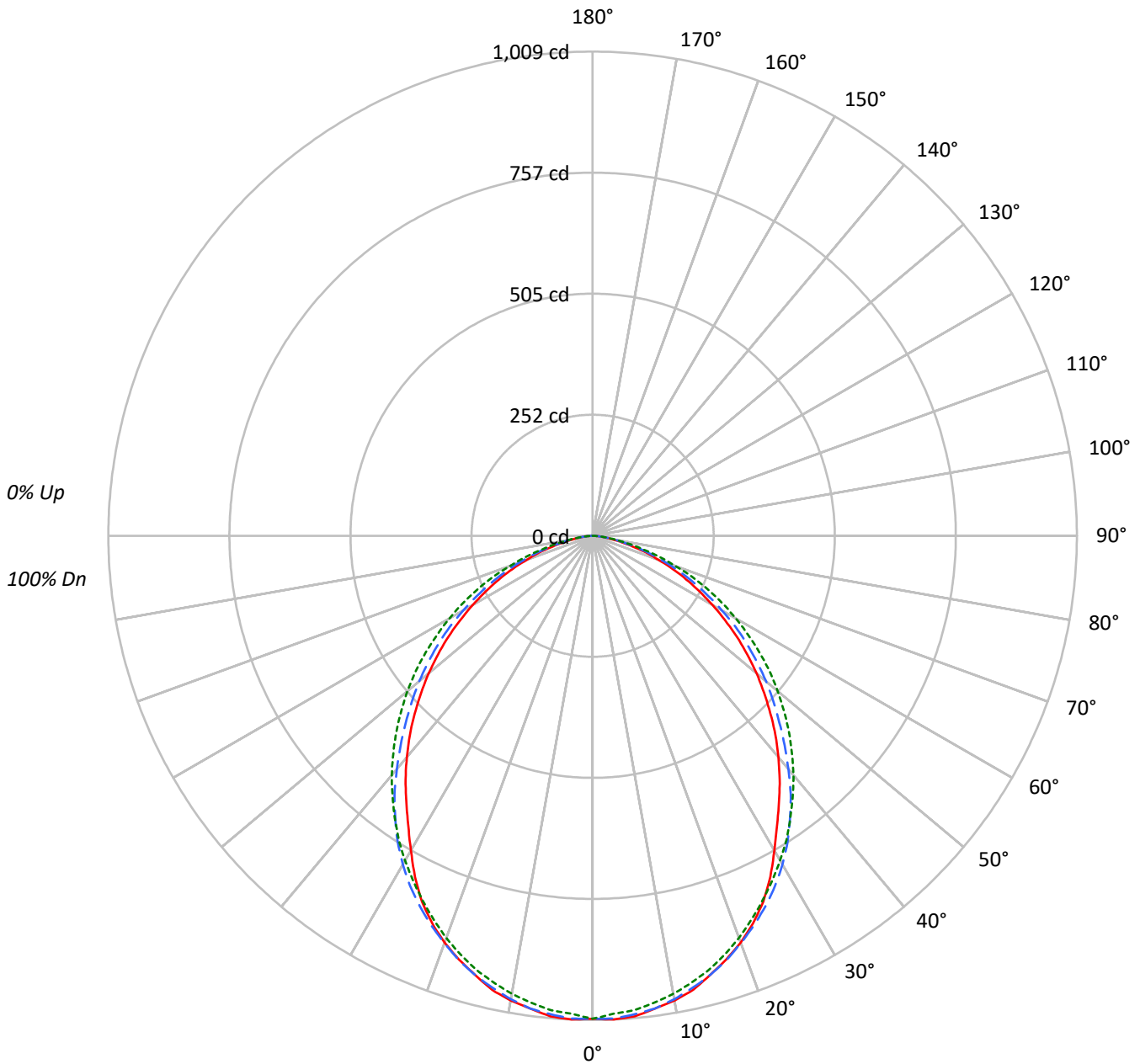
Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554877

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-80-96-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P554877

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-80-96-EDD

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°	5416	5416	5416
5°	5431	5408	5361
10°	5373	5358	5297
15°	5278	5278	5217
20°	5166	5172	5106
25°	4996	5058	4978
30°	4704	4916	4856
35°	4445	4712	4719
40°	4229	4457	4574
45°	3988	4188	4402
50°	3733	3946	4215
55°	3443	3672	3987
60°	3100	3350	3708
65°	2738	2979	3372
70°	2282	2537	2865
75°	1792	2025	2244
80°	1283	1426	1581
85°	834	834	790



TEST NUMBER: P554877

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-80-96-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	4.1
10°-20°	266.2	11.4
20°-30°	389.0	16.7
30°-40°	441.5	19.0
40°-50°	426.2	18.3
50°-60°	351.6	15.1
60°-70°	234.1	10.1
70°-80°	104.8	4.5
80°-90°	18.7	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°	749.9	32.2
0°-40°	1191.5	51.2
0°-60°	1969.3	84.6
0°-90°	2327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1005	1001	996	992	95
15°	947	950	947	943	936	267
25°	841	848	852	846	838	385
35°	677	686	717	721	718	424
45°	524	533	550	575	578	404
55°	367	373	391	413	425	327
65°	215	221	234	250	265	213
75°	86	91	97	102	108	94
85°	14	14	14	13	13	18
90°	0	0	0	0	0	



TEST NUMBER: P554877

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-80-96-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.4	1006.4	1006.4	1006.4	1006.4
2.5°	1009.1	1009.5	1007.1	1001.0	997.1
5°	1005.2	1004.8	1001.0	995.5	992.4
7.5°	994.0	994.8	993.6	985.9	981.6
10°	983.2	983.6	980.5	974.3	969.3
12.5°	969.3	968.9	964.6	961.5	953.4
15°	947.2	949.5	947.2	943.0	936.4
17.5°	926.0	926.0	927.5	920.2	915.1
20°	902.0	903.1	903.1	897.3	891.5
22.5°	874.1	877.6	878.8	872.6	865.6
25°	841.3	847.9	851.7	845.5	838.2
27.5°	801.5	811.5	823.1	818.5	810.4
30°	757.0	771.7	791.0	787.2	781.4
32.5°	714.9	729.5	756.2	754.7	751.6
35°	676.6	685.9	717.2	721.0	718.3
37.5°	640.2	648.7	678.1	687.0	684.7
40°	602.0	611.2	634.4	650.3	651.1
42.5°	564.1	573.0	591.9	614.7	614.7
45°	523.9	532.8	550.2	575.3	578.4
47.5°	484.4	493.7	510.7	535.9	540.9
50°	445.8	454.3	471.3	495.6	503.4
52.5°	405.6	414.8	431.5	453.9	465.1
55°	366.9	373.1	391.3	412.9	424.9
57.5°	326.7	332.5	353.0	371.5	383.9
60°	288.0	295.4	311.2	330.2	344.5
62.5°	250.9	258.6	272.2	288.8	305.0
65°	215.0	220.8	233.9	250.5	264.8
67.5°	180.2	185.2	198.3	209.9	225.0
70°	145.0	151.6	161.2	172.4	182.1
72.5°	116.8	119.5	127.6	135.7	145.8
75°	86.2	90.9	97.4	102.1	107.9
77.5°	61.9	64.6	68.4	72.3	77.7
80°	41.4	42.5	46.0	46.8	51.0
82.5°	25.1	25.9	26.7	27.1	28.6
85°	13.5	13.5	13.5	12.8	12.8
87.5°	7.7	7.7	6.6	5.4	3.9
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)