

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: P554924

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-93-96-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: P554924
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

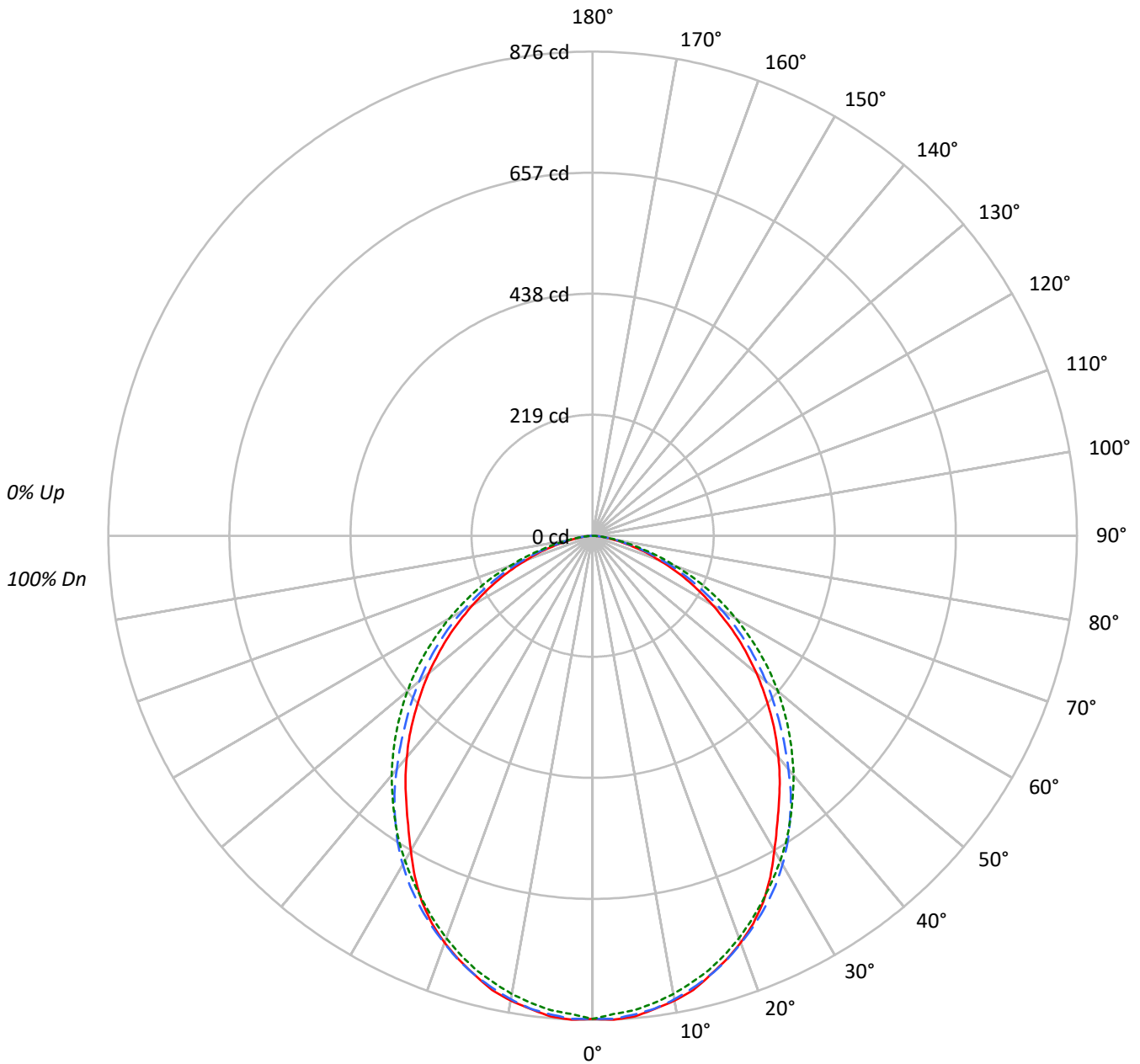
Lumens per Lamp: N/A
Luminaire Lumens: 2021.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554924

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554924

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-96-EDD-90

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°	4704	4704	4704
5°	4716	4696	4656
10°	4667	4653	4600
15°	4584	4584	4532
20°	4487	4493	4435
25°	4339	4393	4323
30°	4086	4269	4217
35°	3861	4093	4099
40°	3673	3871	3973
45°	3463	3637	3823
50°	3242	3427	3661
55°	2990	3188	3462
60°	2693	2909	3221
65°	2378	2586	2929
70°	1981	2203	2489
75°	1557	1759	1948
80°	1113	1240	1373
85°	729	729	685



TEST NUMBER: P554924

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	4.1
10°-20°	231.2	11.4
20°-30°	337.8	16.7
30°-40°	383.5	19.0
40°-50°	370.2	18.3
50°-60°	305.4	15.1
60°-70°	203.4	10.1
70°-80°	91.0	4.5
80°-90°	16.3	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°	651.3	32.2
0°-40°	1034.8	51.2
0°-60°	1710.4	84.6
0°-90°	2021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	873	873	869	865	862	83
15°	823	825	823	819	813	232
25°	731	736	740	734	728	335
35°	588	596	623	626	624	368
45°	455	463	478	500	502	351
55°	319	324	340	359	369	284
65°	187	192	203	218	230	185
75°	75	79	85	89	94	82
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



TEST NUMBER: P554924

CATALOG NUMBER: FUSL-12-2-LD4-2LO-30-UNV-93-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.0	874.0	874.0	874.0	874.0
2.5°	876.4	876.7	874.7	869.3	866.0
5°	873.0	872.7	869.3	864.6	861.9
7.5°	863.3	864.0	862.9	856.2	852.5
10°	853.9	854.2	851.5	846.2	841.8
12.5°	841.8	841.5	837.8	835.1	828.0
15°	822.7	824.7	822.7	819.0	813.3
17.5°	804.2	804.2	805.5	799.2	794.8
20°	783.4	784.4	784.4	779.3	774.3
22.5°	759.2	762.2	763.2	757.9	751.8
25°	730.7	736.4	739.7	734.3	728.0
27.5°	696.1	704.8	714.9	710.8	703.8
30°	657.5	670.2	687.0	683.6	678.6
32.5°	620.9	633.6	656.8	655.4	652.8
35°	587.6	595.7	622.9	626.2	623.9
37.5°	556.0	563.4	589.0	596.7	594.7
40°	522.8	530.9	551.0	564.8	565.5
42.5°	489.9	497.6	514.1	533.9	533.9
45°	455.0	462.7	477.8	499.6	502.3
47.5°	420.7	428.8	443.6	465.4	469.8
50°	387.2	394.5	409.3	430.5	437.2
52.5°	352.2	360.3	374.7	394.2	403.9
55°	318.7	324.0	339.8	358.6	369.0
57.5°	283.7	288.8	306.6	322.7	333.4
60°	250.2	256.5	270.3	286.8	299.2
62.5°	217.9	224.6	236.4	250.8	264.9
65°	186.7	191.7	203.1	217.6	230.0
67.5°	156.5	160.8	172.3	182.3	195.4
70°	125.9	131.6	140.0	149.8	158.2
72.5°	101.4	103.8	110.8	117.9	126.6
75°	74.9	78.9	84.6	88.6	93.7
77.5°	53.7	56.1	59.4	62.8	67.5
80°	35.9	36.9	40.0	40.6	44.3
82.5°	21.8	22.5	23.2	23.5	24.8
85°	11.8	11.8	11.8	11.1	11.1
87.5°	6.7	6.7	5.7	4.7	3.4
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)