

FLN SERIES

FOR USE IN FLUORESCENT LAMPS
 RETROFIT OR NEW INSTALLATIONS



OPTIONAL FEATURES

- 24", 36", 60" and 96"
- Colors: Super Cool, Warm, Neutraal, Amber*, Red*, Green*, and Blue*
- Operational voltages for special applications*
- Clear or Single Frosted lenses

NOTES & PATENT INFORMATION

US Patent #7,307,391 8,115,411 8,791,650
 9,179,513
 Canada Patent #2,651,224 2,555,065 2,831,641
 International Patents Pending
 For complete and up to date patent information see
 our website

DESCRIPTION

The LED Lighting tube has been designed to work with conventional fluorescent fixtures. To replace the short lived fluorescent lamps that are typically used in interior lighting. The LED Lighting tube can be used to retrofit existing fluorescent installations in all types of applications. The internal driver operates without the need of a ballast.

FEATURES

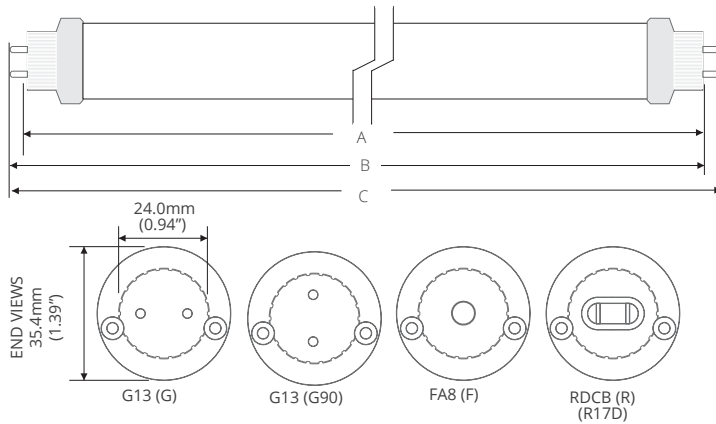
- Solid state lighting device, works well in harsh environments of hot or cold temperatures
- Instant on, no warm up time
- Lasts 10 times longer than fluorescent
- The extrusion acts as a heat sink to extend life of LEDs
- Low EMI emissions, to reduce radio interference
- Designed to replace conventional fluorescent lamps
- Lead and mercury free

STANDARD FEATURES

- 48" Length
- Cool white LEDs
- 90VAC ~ 300VAC Operating Voltage
- Milk White Lens
- Bi-Pin, Instant start connection type
- Standard T8 Fluorescent replacement

DIMENSIONS

T10 DIAMETER (Shown with G13, see chart for FA8 or RDCB)



Standard Length	A				B				C			
	Inch		mm		Inch		mm		Inch		mm	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
12	-	11.10	-	281.9	11.4	11.5	289.6	292.1	11.7	11.73	296	296
24	-	23.22	-	598.8	23.40	23.50	594.4	596.9	23.67	23.78	601.2	604.0
24s	-	-	-	-	-	-	-	-	21.72	21.92	551.7	556.77
36	-	35.22	-	894.6	35.40	35.50	899.2	901.7	35.67	35.78	906.0	908.8
48	-	47.22	-	1199.4	47.40	47.50	1204.0	1206.5	47.67	47.78	1210.8	1213.60
48s	-	45.22	-	1148.6	45.40	45.50	1153.2	1155.7	45.67	45.83	1160.0	1164.08
60	-	59.05	-	1499.9	59.24	59.33	1504.7	1507.0	59.50	59.61	1511.3	1514.1
60s	-	57.37	-	1457.2	57.50	57.65	1460.5	1464.3	57.72	57.83	1466.1	1468.88
72	-	69.22	-	1758.2	69.40	69.50	1762.8	1765.3	69.72	69.83	1770.9	1773.68
96	-	93.20	-	2367.3	93.40	93.50	2372.4	2374.9	93.67	93.83	2379.2	2383.28

ELECTRICAL STATS & OPERATING FUNCTIONS

Type	Nominal Lenght (inch)	Lens Type	PART# CODE	Input Voltage (AC Volts)			Input Current (Amp)			Luminous Intensity (Lumens)					Power Consumption (Watts)	CRI
										COOL WHITE		WARM WHITE				
				MIN	TYP	MAX	MIN	TYP#	MAX	6500K	5000K	4100K	3500K	2800K		
FLN	12	CLEAR	1-A	100	120	277	0.02	0.04	0.05	539	557	536	521	464	5	TYP
	24						0.03	0.08	0.09	1079	1115	1071	1043	928	9	
	36						0.05	0.11	0.14	1618	1672	1607	1564	1391	14	
	48						0.06	0.15	0.18	2157	2229	2143	2085	1855	18	
	60						0.09	0.21	0.25	2996	3096	2976	2896	2577	25	
	72						0.11	0.25	0.30	3596	3715	3572	3476	3092	30	
	96	0.13					0.30	0.36	4315	4458	4286	4171	3711	36		
	12	SINGLE FROSTED					0.02	0.04	0.05	488	504	484	471	419	5	
	24						0.03	0.08	0.09	975	1008	969	943	839	9	
	36						0.05	0.11	0.14	1463	1512	1453	1414	1258	14	
	48						0.06	0.15	0.18	1951	2016	1938	1886	1678	18	
	60						0.09	0.21	0.25	2709	2800	2691	2619	2330	25	
	72						0.11	0.25	0.30	3251	3360	3230	3143	2796	30	
	96	0.13					0.30	0.36	3902	4032	3875	3771	3355	36		
	12	MILK WHITE					0.02	0.04	0.05	488	504	484	471	419	5	
	24						0.03	0.08	0.09	975	1008	969	943	839	9	
	36						0.05	0.11	0.14	1463	1512	1453	1414	1258	14	
	48						0.06	0.15	0.18	1951	2016	1938	1886	1678	18	
	60						0.09	0.21	0.25	2709	2800	2691	2619	2330	25	
	72						0.11	0.25	0.30	3251	3360	3230	3143	2796	30	
	96	0.13					0.30	0.36	3902	4032	3875	3771	3355	36		

ORDERING INFORMATION

SERIES	END CAP	LENGTH	VOLTAGE	TYPE	WATTAGE	COLOR	LENS
FLN	X	XX	120	1-A**	XX	X	X
	G = G13 R = RDCB F = FA8	12# 24" 36" 48" 60# 72# 96#			60 = 6000K 57 = 5700K 50 = 5000K 41 = 4100K 35 = 3500K 28 = 2800K		C = Clear S = Single Frosted M = Milk White

*Contact factory for details
**Replaces previous "1-7" type
ETL Pending