

# 4 FT. NANO SERIES LINEAR LED LAMPS



**JAYKAL**

PROJECT NAME:

**JAYKAL LED SOLUTIONS, INC.**

[www.jaykal.net](http://www.jaykal.net)

PROJECT NOTES:

26832 Lewes Georgetown Hwy,  
Building 2, Unit E  
Harbeson, DE 19951  
(P) 302-295-0015  
(F) 302-295-0016

## OVERVIEW:

Every year there are new breakthroughs in LED technology. One of the most popular for 2017 has been the **Nano LED lamp**. It is already being used in facilities which require strict safety regulations.

This evolutionary material enables Jaykal to provide high quality products that also have a competitive price.

## BENEFITS OF NANO PLASTIC TUBES

Nano-plastic T8 LED tubes have excellent performance, remaining stable for long periods of time during straightness, length variance, discoloration, light transmittance, extreme temperature and oxidation tests.

Normal polycarbonate lenses thickness is approx. 0.8-1mm and the heat dissipation is completely dependent on how much aluminum is present in the tube design. A Nano-plastic linear tube has only 0.4-0.5mm thickness and superior thermal conductivity.

Nano-plastic uses Nano-scale guided particles. It spreads light more evenly and it softens the LED light, reducing the glare emitted. Due to the Nano-plastic's features, the light's angle is more evenly spread; causing the light to appear to be softer and able to diffuse the glaring. Though softer does not mean weaker.



## FEATURES:

- ◆ 330° Beam Angle
- ◆ UL Type A, B and C
- ◆ Survives Drop Test from 6 Feet



7 YEAR WARRANTY

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*Specifications are typical values and may change without notification*

**efficiency. illuminated.**

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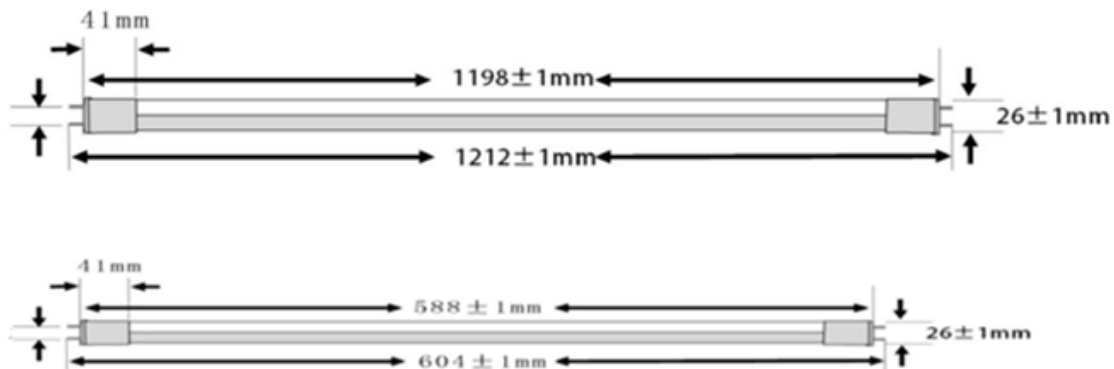


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## SPECIFICATIONS TABLE

MODEL	JLS68101-4-XXK-U-W-EX-NANO-Y-Z					
Input Voltage	100-277VAC 50/60hz					
Wattage	10W	11W	12W	15W	18W*	20W*
Efficacy	≈150lm/W	≈150lm/W	≈150lm/W	≈150lm/W	≈150lm/W	≈150lm/W
Lumens	1,500lm	1,650lm	1,800lm	2,250lm	2,700lm	3,000lm
Power Factor	>0.9					
THD	<20%					
Beam Angle	330°					
CRI	Ra > 80					
L70 Hours	>63,000					
CCT	3000K/4000K/5000K/6500K					
Working Temp.	-20°C - +45°C					
Housing	Nano					

### Physical Dimensions



### ORDERING GUIDE

### JLS68101-4-40K-F-10-EX-NANO-S-1

MODEL #	LENGTH	CCT	LENS	WATTS	TYPE	HOUSING	DRIVER	LAMPS
JLS68101	4 = 4 Foot	30K = 3000K 40K = 4000K 50K = 5000K 65K = 6500K	F = Frosted	10 = 10W 11 = 11W 12 = 12W 15 = 15W 18 = 18W* 20 = 20W** * BC Only ** EX Only	BC = Ballast Compatible DW = Direct Wire EX = External	NANO = Nano Plastic	S = Standard *FF = Flicker Free *DW/EX Only	*1 = 1 Lamp *2 = 2 Lamp *3 = 3 Lamp *4 = 4 Lamp * EX Drivers Only

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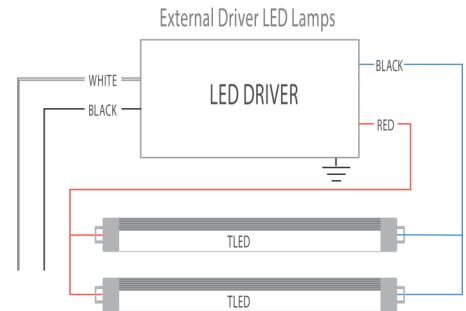
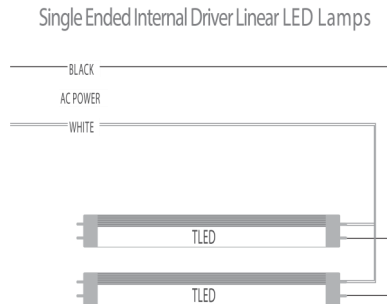
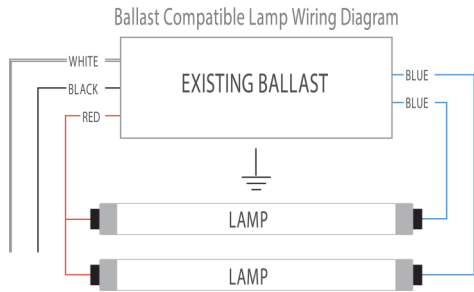
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## STANDARD DRIVER SPECIFICATIONS

LAMPS	WATTAGE	INPUT VOLTAGE	PF	OUTPUT VOLTAGE	OUTPUT mA	MODEL NUMBER
1	11	100-277VAC	>0.9	DC 40V MAX	260mA	JLS6810D-11W-40-S-N-3
	12	100-277VAC	>0.9	DC 40V MAX	270mA	JLS6810D-12W-40-S-N-3
	15	100-277VAC	>0.9	DC 40V MAX	340mA	JLS6810D-15W-40-S-N-3
	18	100-277VAC	>0.9	DC 40V MAX	410mA	JLS6810D-18W-40-S-N-3
	20	100-277VAC	>0.9	DC 40V MAX	460mA	JLS6810D-20W-40-S-N-3
2	22	100-277VAC	>0.9	DC 40V MAX	520mA	JLS6810D-22W-40-S-N-3
	24	100-277VAC	>0.9	DC 40V MAX	540mA	JLS6810D-24W-40-S-N-3
	30	100-277VAC	>0.9	DC 42V MAX	680mA	JLS6810D-30W-42-S-N-4
	36	100-277VAC	>0.9	DC 42V MAX	820mA	JLS6810D-36W-42-S-N-4
	40	100-277VAC	>0.9	DC 42V MAX	920mA	JLS6810D-40W-42-S-N-4
3	33	100-277VAC	>0.9	DC 42V MAX	780mA	JLS6810D-33W-42-S-N-4
	36	100-277VAC	>0.9	DC 42V MAX	810mA	JLS6810D-36W-42-S-N-4
	45	100-277VAC	>0.9	DC 42V MAX	1020mA	JLS6810D-45W-42-S-N-4
	54	100-277VAC	>0.9	DC 42V MAX	1230mA	JLS6810D-54W-42-S-N-4
	60	100-277VAC	>0.9	DC 42V MAX	1380mA	JLS6810D-60W-42-S-N-4
4	44	100-277VAC	>0.9	DC 42V MAX	1040mA	JLS6810D-44W-42-S-N-4
	48	100-277VAC	>0.9	DC 42V MAX	1080mA	JLS6810D-48W-42-S-N-4
	60	100-277VAC	>0.9	DC 42V MAX	1360mA	JLS6810D-60W-42-S-N-4
	72	100-277VAC	>0.9	DC 42V MAX	1640mA	JLS6810D-72W-42-S-N-4

DRIVER IS AVAILABLE WITH 0-10V DIMMING OPTION: N = NON-DIMMING / 10 = 0-10V

EXAMPLE: JLS6810D-72W-42-S-10-4

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## FLICKER FREE DRIVER SPECIFICATIONS

LAMPS	WATTAGE	INPUT VOLTAGE	PF	OUTPUT VOLTAGE	OUTPUT mA	MODEL NUMBER
1	11	100-277VAC	>0.9	DC 40V MAX	260Ma	JLS6810D-11W-40-FF-N-3
	12	100-277VAC	>0.9	DC 40V MAX	270mA	JLS6810D-12W-40-FF-N-3
	15	100-277VAC	>0.9	DC 40V MAX	340mA	JLS6810D-15W-40-FF-N-3
	18	100-277VAC	>0.9	DC 40V MAX	410mA	JLS6810D-18W-40-FF-N-3
	20	100-277VAC	>0.9	DC 40V MAX	460mA	JLS6810D-20W-40-FF-N-3
2	22	100-277VAC	>0.9	DC 40V MAX	520mA	JLS6810D-22W-40-FF-N-3
	24	100-277VAC	>0.9	DC 40V MAX	540mA	JLS6810D-24W-40-FF-N-3
	30	100-277VAC	>0.9	DC 42V MAX	680mA	JLS6810D-30W-42-FF-N-4
	36	100-277VAC	>0.9	DC 42V MAX	820mA	JLS6810D-36W-42-FF-N-4
	40	100-277VAC	>0.9	DC 42V MAX	920mA	JLS6810D-40W-42-FF-N-4
3	33	100-277VAC	>0.9	DC 42V MAX	780mA	JLS6810D-33W-42-FF-N-4
	36	100-277VAC	>0.9	DC 42V MAX	810mA	JLS6810D-36W-42-FF-N-4
	45	100-277VAC	>0.9	DC 42V MAX	1020mA	JLS6810D-45W-42-FF-N-4
	54	100-277VAC	>0.9	DC 42V MAX	1230mA	JLS6810D-54W-42-FF-N-4
	60	100-277VAC	>0.9	DC 42V MAX	1380mA	JLS6810D-60W-42-FF-N-4
4	44	100-277VAC	>0.9	DC 42V MAX	1040mA	JLS6810D-44W-42-FF-N-4
	48	100-277VAC	>0.9	DC 42V MAX	1080mA	JLS6810D-48W-42-FF-N-4
	60	100-277VAC	>0.9	DC 42V MAX	1360mA	JLS6810D-60W-42-FF-N-4
	72	100-277VAC	>0.9	DC 42V MAX	1640mA	JLS6810D-72W-42-FF-N-4
	80	100-277VAC	>0.9	DC 42V MAX	1840mA	JLS6810D-80W-42-FF-N-4

DRIVER IS AVAILABLE WITH 0-10V DIMMING OPTION: N = NON-DIMMING / 10 = 0-10V

EXAMPLE: JLS6810D-72W-42-FF-10-4

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