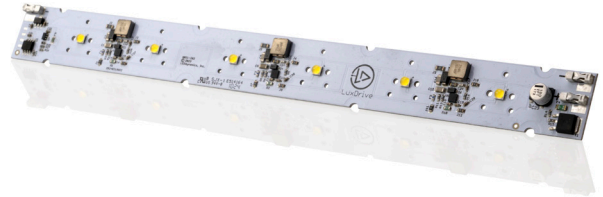


N021 LUXBLAST

High Output Light Engine

PRODUCT OVERVIEW

The N021 LUXBlast is a high-output linear light engine capable of delivering 7000 lumens. With its small 10-inch long footprint, it's the ideal solution for spaces requiring ample illumination. Featuring four optional optics, the LUXBlast offers versatile solutions, from spotlights to floodlights. Equipped with built-in thermal and undervoltage protection, it safeguards both your light and power supply from unexpected conditions, ensuring damage-free operation.



Product		N021	
General	Lumen Output ^{1 2}	up to 7,000 lm	
	Efficacy	104 lm/w	
	Beam Angle ³	120° FWHM	
Electrical	Input Voltage	11Vdc (min)	15Vdc (max)
	Input Power	67W	
	Input Current	5.5A @12Vdc	
Environment	Operating Temp	-40 to 80° C	
	Storage Temp	-40 to 125° C	
Mechanical	Connection	18-22 AWG Poke-In	
	Mounting	#6 Fasteners, 8 places	
	Dimension ³	10" x 0.95" x 0.31"	
	Weight ³	1.13 oz (32 g)	
Protection	Thermal	Backoff above 80C	
	Undervoltage	Backoff below 11V, off at 8.5V	
Regulatory	Compliance	RoHS 3 (EU 2015/863)	
	Warranty	LEDdynamics Warranty	

* All specifications subject to change without prior notification.

1. LEDdynamics reserves the right to send products of equal or greater lumen output

2. Lumen output with 5000K LED and full power

3. Without optics attached



N021 LUXBLAST

High Output Light Engine

Operation

The N021 is designed on a MCPCB and intended to be used with a heatsink. There are 8 mounting locations that are used to secure the MCPCB to a heatsink with #6 fasteners.

To achieve full output, thermal interface material is required between the MCPCB and the heatsink. In addition, the heatsink must have a 0.6C/W rating or lower.

Thermal backoff of the unit begins at 80C and will continue to lower the output until off. Figure 1 shows the backoff to due excessive heat.

The N021 also has undervoltage protection which is used to protect both the power supply and the light engine. If the voltage is lowered on the input it will cause the current spike, which may damage the unit. The undervoltage protection starts at 11V and continues until it turns off at 8.5V. Figure 2 shows how the output is lower in relation to the input voltage.

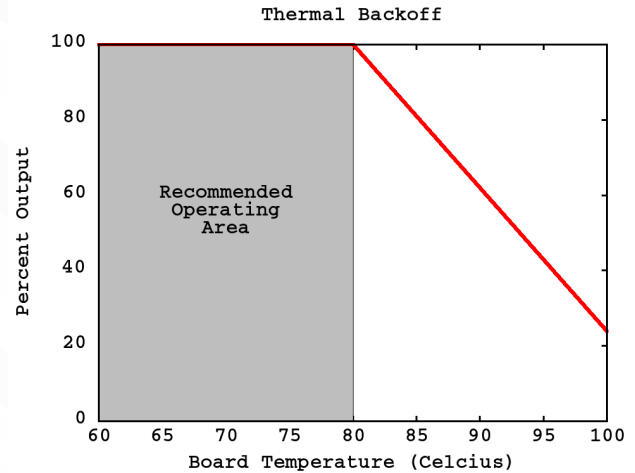


Figure 1. Thermal backoff operation

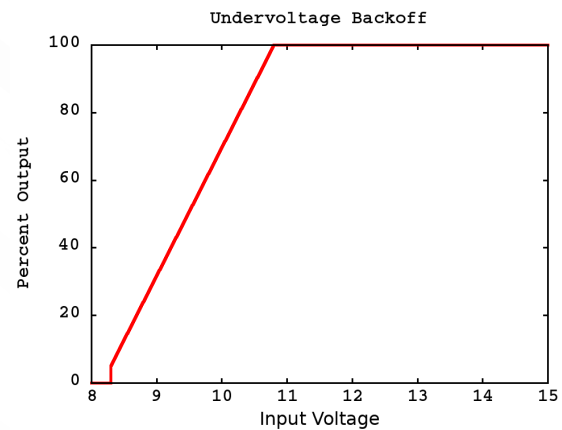


Figure 2. Undervoltage backoff operation

Wiring example



N021 LUXBLAST

High Output Light Engine

Ordering Information

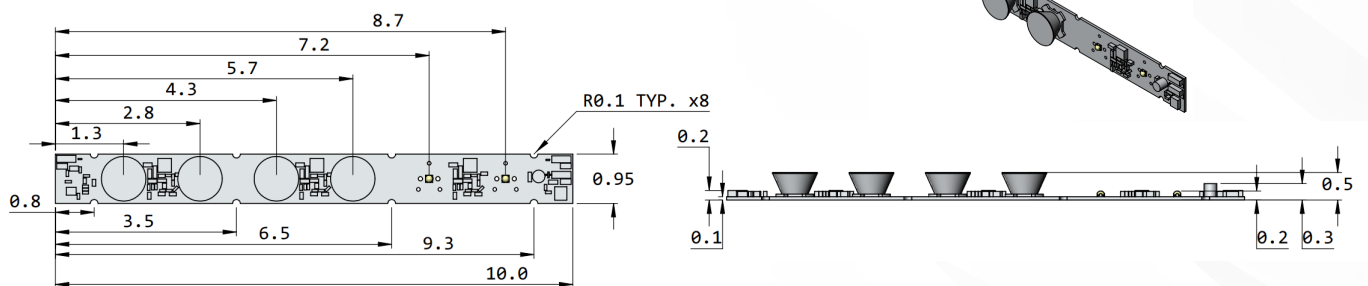
Example: N021-750

PRODUCT ID	-	CRI	CCT
N021			2700K
			3000K
			3500K
		70+	4000K
		80+	5000K
		90+	5700K
			6500K

Accessories

PART NUMBER	-	DESCRIPTION
KO-PLL2269SAWI		40 Degree Wide Optic
KO-PLL2269SAME		25 Degree Medium Optic
KO-PLL2269SANA		16 Degree Narrow Optic
KO-PLL2269SAUN		10 Degree Ultra Narrow Optic

Mechanical



1. Dimensions in inches
2. Tolerance: 0.xx" = +0.015"