## ADVANCE

by (signify

**LED** Driver

### Xitanium

XH150C070V210CNF1



Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. **The Advance Xitanium LED Outdoor Driver portfolio** offers a range of products specially designed to operate LED solutions in outdoor applications. These drivers are designed for hard-wired integration into outdoor luminaires for the most rugged applications. They operate to specification under wide temperature and electrical ranges to ensure reliability.

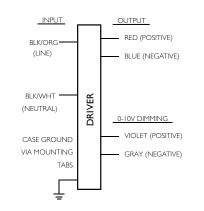
### Specifications

				Efficiency@						Surge	
Input	Output	Output	Output	Max Load	Max.	Input	Max. Input		Power	Protection	Envir.
Voltage	Power	Voltage	Current	and 70°C	Case Temp.	Current	Power	THD @	Factor @	Common/	Protection
(Vrms)	(W)	(V)	(A)	Case	(°C)	(Arms)	(W)	Max. Load	Max. Load	Diff (KV)	Rating
347				91.5	80	0.50					UL damp
480	150	60-210	0.7	92.5		0.35	164	<10%	>0.95	6	& dry, Type HL

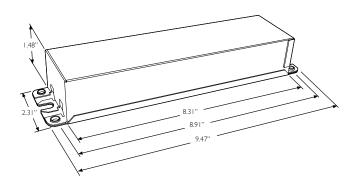
### Enclosure

	In. (mm)
Case Length	8.31 (211.1)
Case Width	2.31 (58.6)
Case Height	1.48 (37.6)
Mounting Length	8.91 (226.3)
Overall Length	9.47 (240.5)

### Wiring Diagram



Dimming	Dimming Range	Minimum Output Current (A)
0-10V Analog Class 1 and 2 Wiring	10% ~ 100%	0.07





### **Electrical Specifications**

All the specifications are typical and at 25°C Tcase unless specified otherwise.

#### Features

- 50,000+ hour lifetime<sup>1</sup>
- Excellent thermal performance
- 6kV Combi-wave surge rating to comply with ANSI C82.77-5 CAT C low

#### Benefits

- Enables long life luminaire designs
  Allows luminaire designs for
- ambient environmentss
- No external surge protection required to pass C82.77-5 CAT C low

#### Application

- Area
- Roadway
- Parking garages
- Floodlights

### **Product Data**

Order Information				
Full Product Code         XH150C070V210CNF1M (Mid-Pack, 10pcs/Box)				
Line Frequency	50/60Hz			
Min. Mains Voltage Operational	312V			
Max. Mains Voltage Operational	528V			
Output Information				
Maximum Open Circuit Voltage	300Vdc			
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout and max Vout Low frequency (≤120 Hz) content <5%			
Output Current Tolerance (at maximum output current)	<5%			
Protections	Short Circuit and Open Circuit Protection for LED + and LED – and Temperature Foldback			
Operating Ambient Temp. Range	-40°C to +55°C			
Max Case Temperature (Tcase)	80°C			
Features				
0-10V Dimming Specifications	150µA ± 3% source current from driver. See dim curve for detail.			
Environment & Approbation				
Agency Approbations	UL 8750, CSA 250.13			
Electromagnetic Compliance	FCC Title 47 Part 15 Class A			
Audible Noise	<24dB Class A			
Weight	1.98Lbs/ 0.90Kgs			

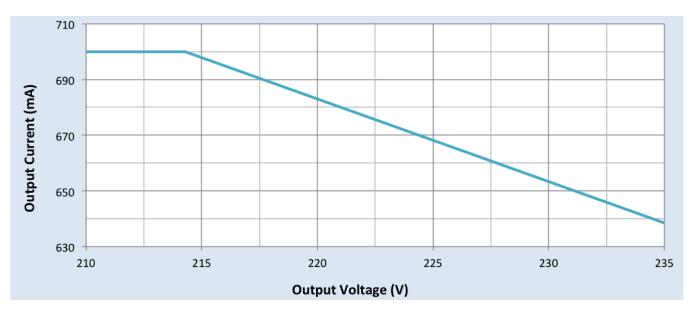
1. Advance Xitanium LED Drivers are designed and manufactured to engineering standards correlating to an average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTTF modeling.

### **Electrical Specifications**

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### **Driver Current Cutback**

The Driver Current Cutback feature provides for an increased output voltage with a reduced output current during abnormal LED operation, such as cold weather starting.



### **Electrical Specifications**

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### **0-10V Dimming Curve**

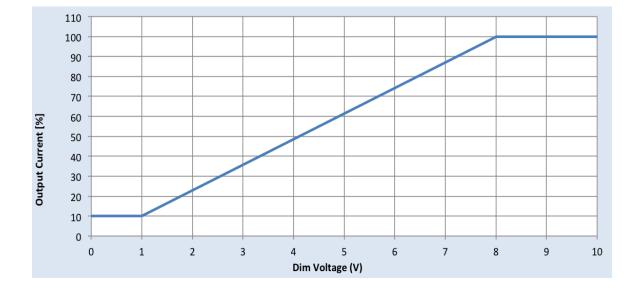
Dimming source current from the driver: 150 $\mu$ A (@ 0<Vdim<8V)

Minimum dim level: 10% of lout

Maximum output voltage on the dimming wires: 12V

#### **Approved Dimmer List**

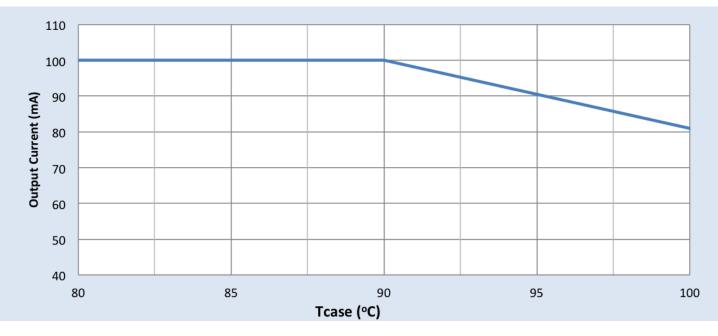
Manufacturer	Manufacturer Part Number	
Lutron	Visit www.lutron.com/ advance for a list of dimmers (Mark VII) that will work with this driver	
Leviton	IllumaTech IP7 series	
Advance	Sunrise - SR1200ZTUNV	



### **Performance Characteristics**

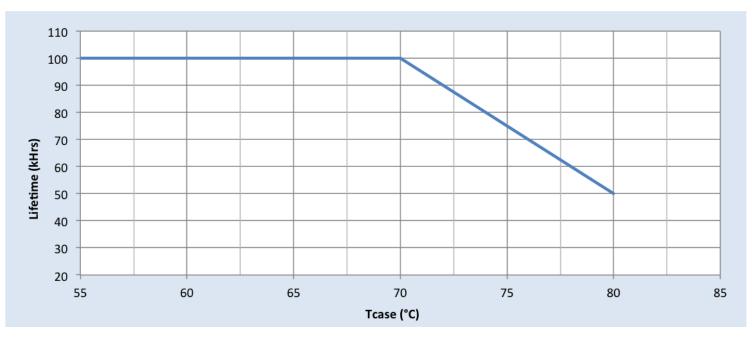
Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments. The graphs are meant to be a guideline and not a specification.

### **Output Current Vs. Driver Case Temperature**



Note: There is ±5°C tolerance on the driver case temperature.

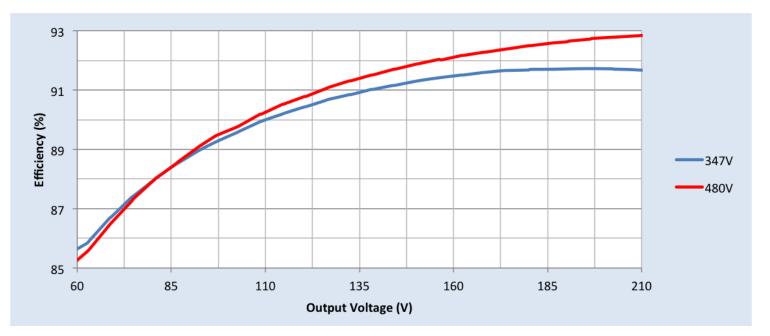




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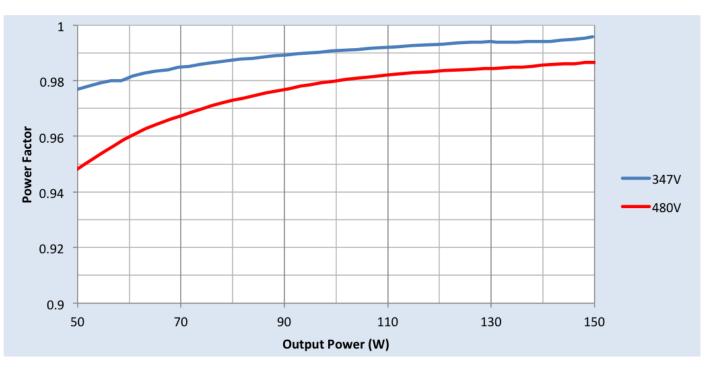
### Efficiency Vs. Output Voltage



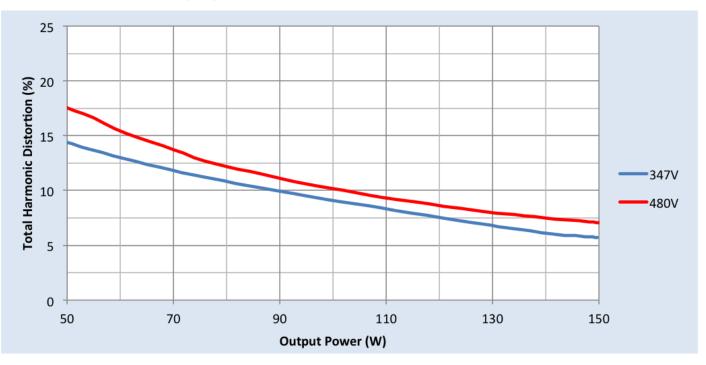
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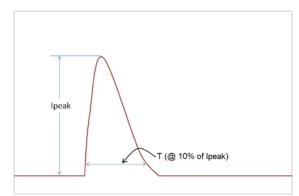
### **Power Factor Vs. Output Power**



Total Harmonic Distortion (THD) Vs. Output Power



### **Inrush Current Info:**



Vin	lpeak	T (@ 10% of Ipeak)	
347 Vrms	57A	196µs	
480 Vrms	78A	196µs	

Inrush current is measured at peak of the corresponding line voltage, source impedance per NEMA 410.

### Lightning Surge Info:

ANSI Surge Type	Differential Mode (L-N)	Common Mode (L-G, N-G, L&N-G)	
1.2/50μs Combination Wave (w/t 2Ω)	6kV	6kV	

### **Isolation**:

Isolation	Input	Output	0-10V	Enclosure
Input	NA	2xU+1kV	2.5kV	2xU+1kV
Output	2xU+1kV	NA	2.5kV	2xU+1kV
0-10V (Class 1 & 2)	2.5kV	2.5kV	NA	2.5kV
Enclosure	2xU+1kV	2xU+1kV	2.5kV	NA

### **UL Conditions of Acceptability**

Please contact your representative for a copy of the latest UL Conditions of Acceptability (COA).

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

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