## **ADVANCE**

by (s) ignify

### **LED Driver**

### Xitanium



XI080C070V054CNH1

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 even in rugged applications. They operate to specification under wide temperature and electrical ranges to help ensure reliability.

### **Specifications**

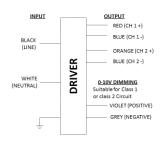
Input Voltage (Vac)	Output Power (W)	Output Voltage Range (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Combi-Wave, KV)	Envir. Protection Rating
120	40W			87.5		0.77		<10%			UL damp
277	per channel	27 - 54	0.7	89.5	80°C	0.33	91	<15%	>0.95	4	& dry and Type HL

#### **Enclosure**

	In. (mm)
Case Length	5.7 (144.7)
Case Width	3.6 (91.4)
Case Height	1.5 (38.2)
Mounting Length	6 (151.5)
Overall Length	6.32 (160.5)



### **Wiring Diagram**



Input and output use lead- wires.

Lead-wires are 18AWG 105C/600V solid copper per UL1452.

Input Lead Length outside enclosure: 10.5" (+2"/-1").

Dimming and Output lead length outside enclosure: 12" (+2"/-1").

Driver case must be grounded.

Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog Class 2 Wiring	10% ~ 100%	0.07	Dimming source current: 150µA (±3%)



### 80W 120-277V 0.7A 0-10V

### **Features**

- Dual channel UL Class 2 output
- 50,000+ hour lifetime<sup>1</sup>
- Isolated 0-10V dimming

### **Benefits**

- · Allows for Class 2 luminaire designs
- · Enables long life luminaire designs
- Helps maximize energy savings and allows application-specific light levels

### **Application**

- · Roadway
- · Parking garages
- Wallpacks

### **Electrical Specifications**

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

### **Product Data**

XI080C070V054CNH1M (Mid-Pack, 10pcs/Box)				
50/60Hz				
108Vac				
305Vac				
<60Vdc				
15% max @ max lout				
Low frequency (≤120 Hz) content <5%				
<5%				
Short Circuit, Open Circuit Protection for LED + and LED – and Temperature Foldback				
150µA source current from driver. See dim curve for detail.				
-40°C to +55°C				
80°C				
UL8750, UL1310, UL935, CSA-C22.2 No. 250.13-12, CSA C22.2 No. 223				
FCC Title 47 Part 15 Class A				
<24dB Class A				
2.1 Lbs / 0.95 kgs				

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

### 80W 120-277V 0.7A 0-10V

### **Electrical Specifications**

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

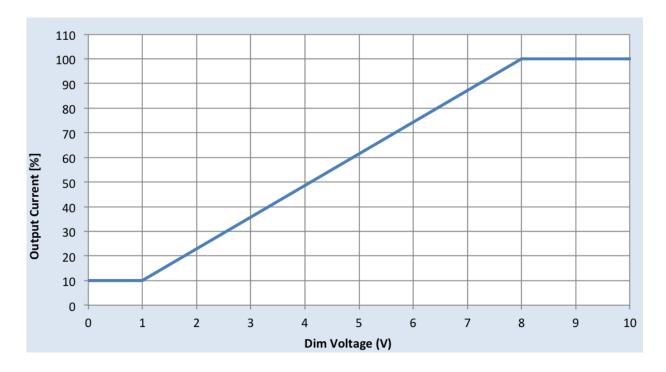
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum Dim Level: 10% of lout (minimum 7mA)

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	

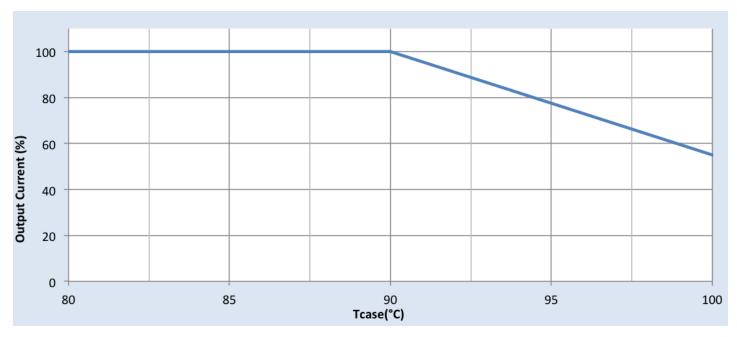


### 80W 120-277V 0.7A 0-10V

### **Electrical Specifications**

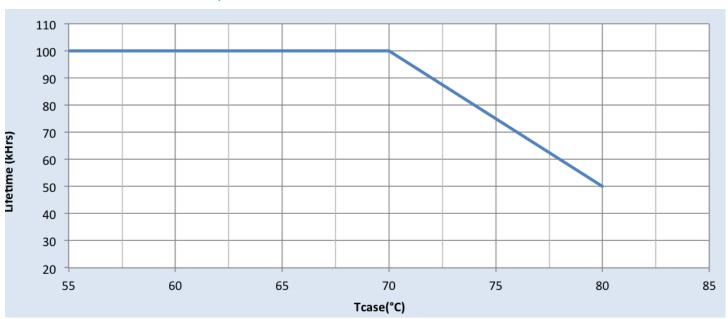
All the specifications are typical and at 25°C Tcase unless specified otherwise.

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



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

### **Driver Lifetime Vs. Driver Case Temperature**

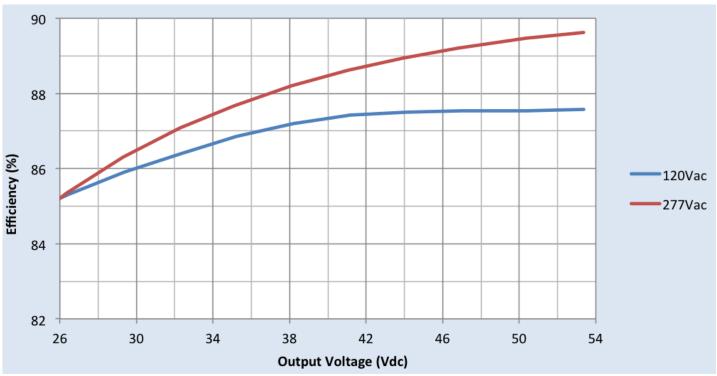


80W 120-277V 0.7A 0-10V

### **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.

### Efficiency Vs. Output Voltage

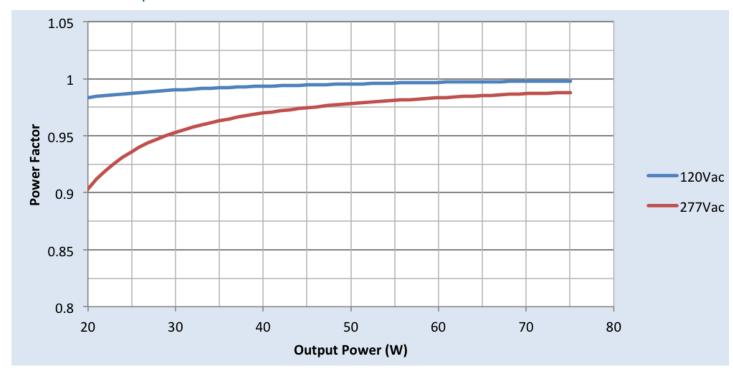


80W 120-277V 0.7A 0-10V

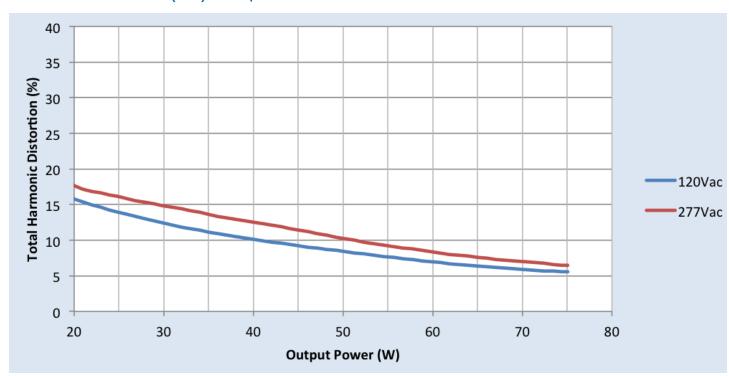
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### **Power Factor Vs. Output Power**

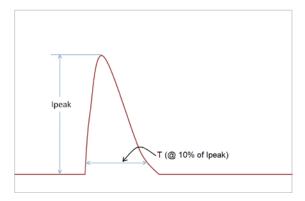


### Total Harmonic Distortion (THD) Vs. Output Power



### 80W 120-277V 0.7A 0-10V

#### **Inrush Current Info**



Vin	lpeak	T (@ 10% of Ipeak)	
120 Vrms	26A	290µS	
277 Vrms	69A	255µS	

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)	
1.2/50 $\mu$ s Combination Wave (w/t 2 $\Omega$ )	4kV	4kV	

### **Isolation**

Isolation	Input	Output	0-10V (Class 2)	Enclosure
Input	NA	2xU+1kV	2xU+1kV	2xU+1kV
Output	2xU+1kV	NA	2xU+1kV	500V
0-10V (Class 2)	2xU+1kV	2xU+1kV	NA	2xU+1kV
Enclosure	2xU+1kV	500V	2xU+1kV	NA

U = Max input voltage

### **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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