## ADVANCE

by (signify

**LED Driver** 

#### Xitanium

XI095C275V054BSS2



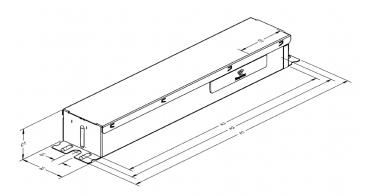
Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. The Advance Xitanium LED Outdoor Driver portfolio offers a range of products specially 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

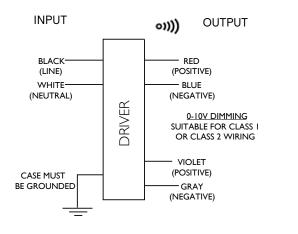
Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 75°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Combi- Wave, KV)	Envir. Protection Rating
120	95 20-54	00.54	20-54 0.1-2.75	88.4	Life - 85°C	0.92	110	<10%	>0.95	6	UL damp & dry and
277		20-54		89.8	UL - 90°C	0.39					Type HL

#### Enclosure

	In. (mm)
Overall Length (A1)	9.45 (240)
Mounting Hole Distance (A2)	8.89 (225.8)
Case Length (A3)	8.40 (213.4)
Case Width (B1)	1.69 (43)
Case Height (C1)	1.13 (28.8)
Mounting Hole Diameter (D1)	0.31 (7.9)
Center of Simpleset Antenna (G1)	1.77 (45)



#### Wiring Diagram



Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)	
0-10V Analog Class 1 or Class 2 Wiring	5% ~ 100%	0.03	





Class P

Conforms to UL STD 8750 Certified to CAN/CSA STD C22.2 No. 250.13

NOM



LISIED E321253 Class P LED class 2 output For Dry and Damp Location

#### Features

- 50,000+ hour lifetime<sup>1</sup>
- Programmable output current through SimpleSet
- Large operating window
- 6kV combi-wave surge rating to comply with ANSI C82.77-5 CAT C low

#### **Benefits**

- Designed for Class 2 luminaires
- Fast and simple way of programming
- Industry leading dimming range for 95W Class 2 product
- No external surge protection required to pass C82.77-5 CAT C low

#### Application

- High-bay and mid-bay fixtures
- Area
- Roadway
- Parking garages
- Floodlights

#### **Electrical Specifications**

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

#### **Product Data**

Order Information						
Full Product Code	XI095C275V054BSS2					
Product 12NC	929002720713					
Line Frequency	50/60Hz					
Min. Mains Voltage Operational	108 Vac					
Max. Mains Voltage Operational	305 Vac					
Output Information	Output Information					
Maximum Open Circuit Voltage	<=60Vdc (Class 2 Output)					
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout (Low frequency ripple ( ≤120Hz) content <5%)					
Output Current Tolerance (in performance window)	<5%					
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback					
Features						
0-10V Dimming	Typ 150µA (Min. 100uA, Max. 250uA) source current from driver. See dim curve for detail.					
AOC (Adjustable Output Current)	0.1A-2.75A via SimpleSet (Factory Default at 2.3A)					
Additional SimpleSet Configurable Features	Adjustable Min Dim level, Adjustable Lumen Output, Adjustable Lumen Output Min, OEM Write Protection, Advanced Internal Thermal Protection (DTL)					
Environment & Approbation						
Operating Ambient Temp. Range	-40°C to +55°C					
Max Case Temperature (Tcase)	90°C					
Agency Approbations	UL8750, Class P (UL, CSA, ETL)					
Electromagnetic Compliance	FCC Title 47 Part 15 Class A, CSA 250.13					
Audible Noise	<24dB Class A					
Weight	1.5 Lbs / 0.68 kgs					

1. 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 MTTF modeling.

#### **Electrical Specifications**

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

#### 0-10V Dimming Curve

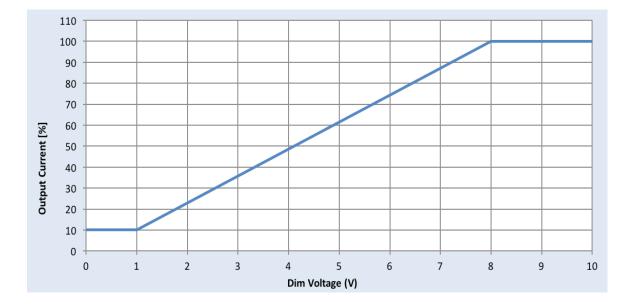
Dimming source current from the driver: 150µA (Min 100uA, Max 250uA @ 0<Vdim<8V)

Minimum dim level: Factory default 10% of lout setting as default

Maximum output voltage on the dimming wires: 12V

#### **Approved Dimmer List**

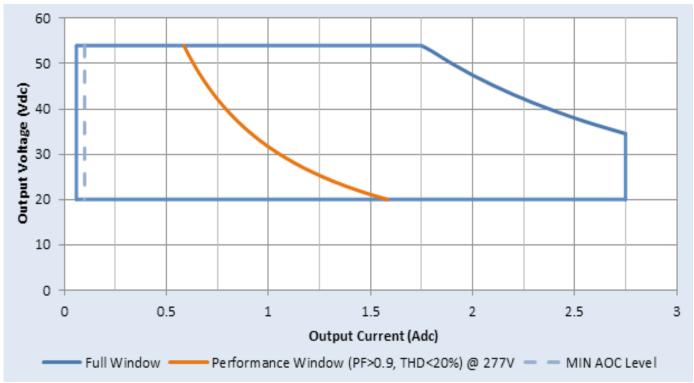
Manufacturer	Manufacturer Part Number		
Lutron	Visit www.lutron.com/ advance for a list of dimmers (Mark VII) that will work with this driver		
Leviton	IllumaTech IP7 series		
Advance	Sunrise - SR1200ZTUNV		



#### **Electrical Specifications**

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#### **Driver Output Window**



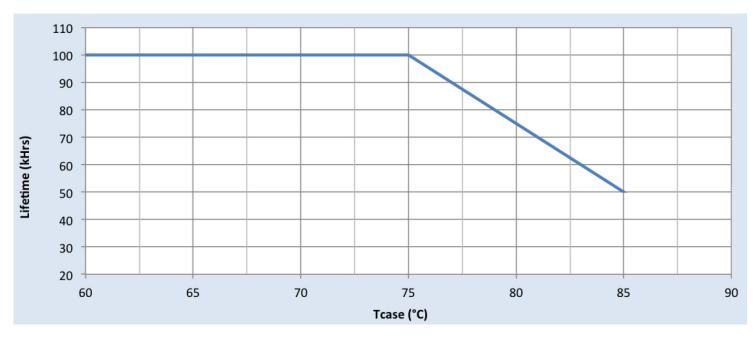
#### Notes

- 1. Factory default output current is 2.3A.
- 2. To get a 100% to 10% dimming range, the output current setting through AOC should be  $\geq$  300mA.
- 3. Factory default setting for the dimming range is 100% to 10%. However, the minimum dim level can be set between 5% and 100% through MultiOne and SimpleSet.

#### **Electrical Specifications**

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

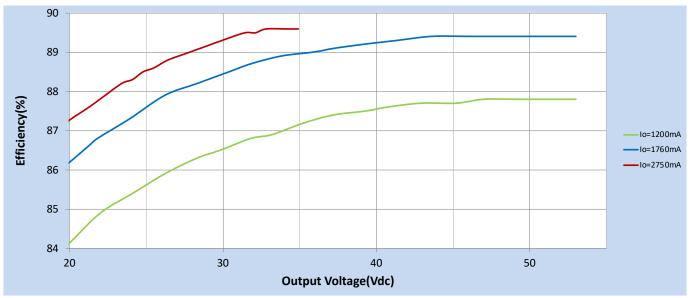
#### Driver Lifetime Vs. Driver Case Temperature



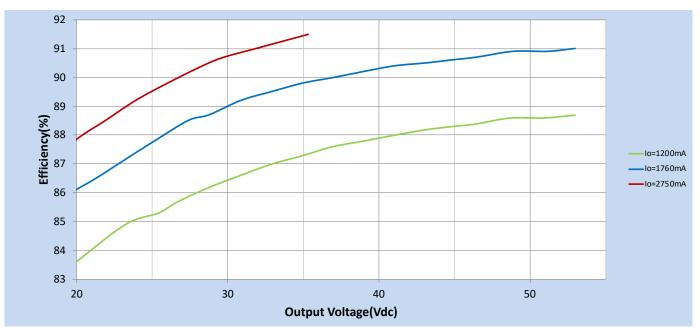
#### **Performance Characteristics**

Based on measurements on a typical sample at  $75^{\circ}$ C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

#### Efficiency Vs. Output Voltage at 120Vac



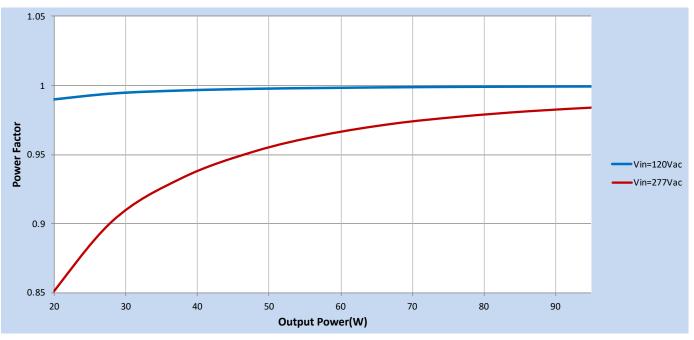




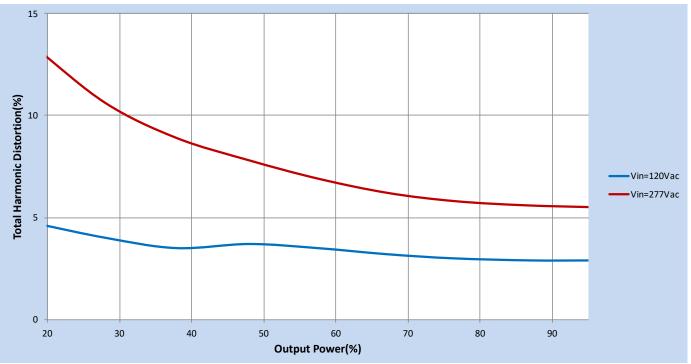
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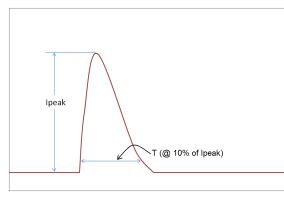
#### Power Factor Vs. Output Power



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



#### Inrush Current Info



Vin	lpeak	T (@ 10% of Ipeak)	
120 Vrms	39.1A	127µS	
277 Vrms	96.7A	151µS	

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)	
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	2.5kV	2.5kV	NA	2.5kV
Enclosure	2xU+1kV	2xU+1kV	2.5kV	NA

U = Max. input voltage

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