Xitanium LED Drivers – Linear Sensor Ready
Philips Advance Specifications

Section I - Physical Characteristics

1.1　Driver shall be available in an all metal-can construction.

1.2　Driver shall have a slim profile with height ≤ 1 in and width ≤ 1.2 in.

1.3　Driver shall be provided with integral color-coded connectors.

Section II - Performance Requirements

2.1　Driver shall operate from 50/60 Hz input source of 120V through 277V or 347V (separate SKU) with sustained variations of +/- 10% (voltage) with no damage to the Driver.

2.2　Driver output shall be regulated to +/- 5% within performance window across published load range.

2.3　Driver shall have an easy way to lower the output current, without using the dimming leads.

2.4　Driver shall have a Power Factor greater than 0.90 for primary application when operated between full load power and 50% of full load power.

2.5　Driver input current shall have Total Harmonic Distortion (THD) of less than 20% when operated between full load power and 50% of full load power.

2.6　Driver shall have a Class A sound rating.

2.7　Driver shall have a minimum operating temperature of -20C (-4F).

2.8　Driver shall tolerate sustained open circuit and short circuit output conditions without fail and auto-resetting without need for external fuses or trip devices.

2.9　Driver output ripple current shall be less than 15% measured peak-to-average, with ripple frequency >3000Hz.

2.10　Driver performance requirements shall be met within performance window.

2.11　Driver shall be rated for UL Damp and Dry locations.

2.12　Driver shall have integral common mode and differential mode surge protection of 2.5kV(100kHz 30ohm ring wave).

2.13　Driver shall have integral thermal foldback to reduce driver power to protect the driver if temperatures reach unacceptable high levels.

2.14　Driver shall comply with NEMA 410 for in-rush current limits.

2.15　Driver shall incorporate an integral means of limiting surges to the LEDs.

2.16　Driver shall dim to specified dim level 5via the digital interface to the sensor within performance window.

2.17　Driver shall allow the original equipment manufacturer to set drive current (light level) at the factory by means not requiring physical hardwiring to the driver.

Section III – Sensor-Ready Functionality

3.1 Driver shall have a standard interface to the sensor based on DALI 2.0 protocol.

3.2 Driver shall provide peak power to the sensor: 52 – 60mA and 12 – 20vdc with average current 26 mA and voltage range 12-20Vdc.

3.3 Driver shall have power reporting accuracy of +/-4% or +/- 4% x Pmax x 30% (0.5W for 40W driver) whichever is higher.

3.4 Driver shall be capable of dim-to-off with standby power less than 0.5W without connecting a sensor and 1.0W, including sensor.

3.5 Driver shall have a 2-wire connection to the sensor only.

Section IV - Regulatory

4.1 Driver shall be Underwriters Laboratories (UL) listed per UL8750 and meet Class 2 output requirements per UL1310 or Canadian Standards Association (CSA) recognized Class 2 per CSA-C22.2.

4.2 Driver shall be Underwriter Laboratories (UL) Class P per UL8750.

4.3 Driver shall have a digital interface to the sensor that meets UL Class 2 requirements.

4.4 Driver shall not contain any Polychlorinated Biphenyl (PCB).

4.5 Driver shall comply with applicable requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 15, for Non-Consumer equipment.

4.6 Driver shall be RoHS compliant.

Section V - Other

5.1 Driver shall be manufactured in a factory certified to ISO 9001 Quality System Standards.

5.2 Driver shall carry a five-year limited warranty from date of manufacture against defects in material or workmanship, including replacement, for operation at a maximum case temperature of 75C (Go to our web site for up-to-date warranty information: www.usa.lighting.philips.com/connect/tools_literature/warranties.wpd).

5.3 Manufacturer shall have a 20-year history of producing electronic drivers for the North American market.

5.4 Driver shall be Philips Advance Part #_____ or approved equal.