

Texas Instruments

LED Multistring High Bay Light Fixture

The SIMPLERdrive™ High Bay LED light fixture demo utilizes the UCC28810 EVM003 four channel LED driver. The UCC28810 EVM003 effectively connects up to 60 LEDs in a series while keeping the voltage on LEDs safe (low), isolated from the AC line. The implementation cost is low. The CC430, combines MSP430 MCU with low power RF and controls the remote control subsystem for this demonstration.

Part Numbers

UCC28810
EVM003 >>

SIMPLERdrive™
(Series Input, Multiple Parallel
Equivalent LED Drive)

CC430 >>

Combines MSP430 MCU
with low power RF

eZ430 >>

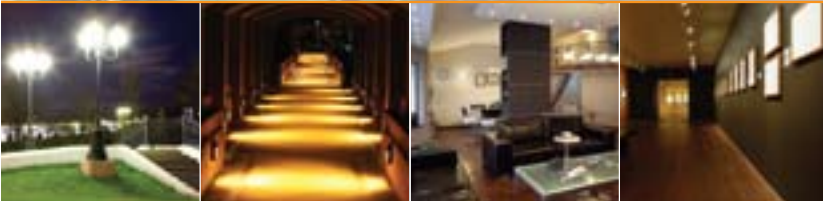
Chronos Wireless Watch
Development Tool

Features:

- Single, primary referenced current control & dimming (AM or PWM) for all LEDs. Effectively large number of LEDs connected in series
- Readily scalable to all power levels with design tool to calculate key parameters
- Voltage on LEDs is safe (low) and isolated from the AC line
- SIMPLERdrive™ EVM is very cost effective for multiple string architecture
- Excellent LED current matching between strings, open string LED protection
- High efficiency (91%), power density and power factor over universal input range (90V-265V)
- eZ430 Chronos RF remote subsystem controls on/off and light intensity

Applications:

- Outdoor street or area lighting
- High bay lighting
- Industrial lighting
- LED signage drivers
- Architectural lighting
- Wireless lighting control



For more information, technical papers, and to buy parts visit lighting.arrow.com or call Arrow Lighting at 1.888.9LIGHT1.

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