

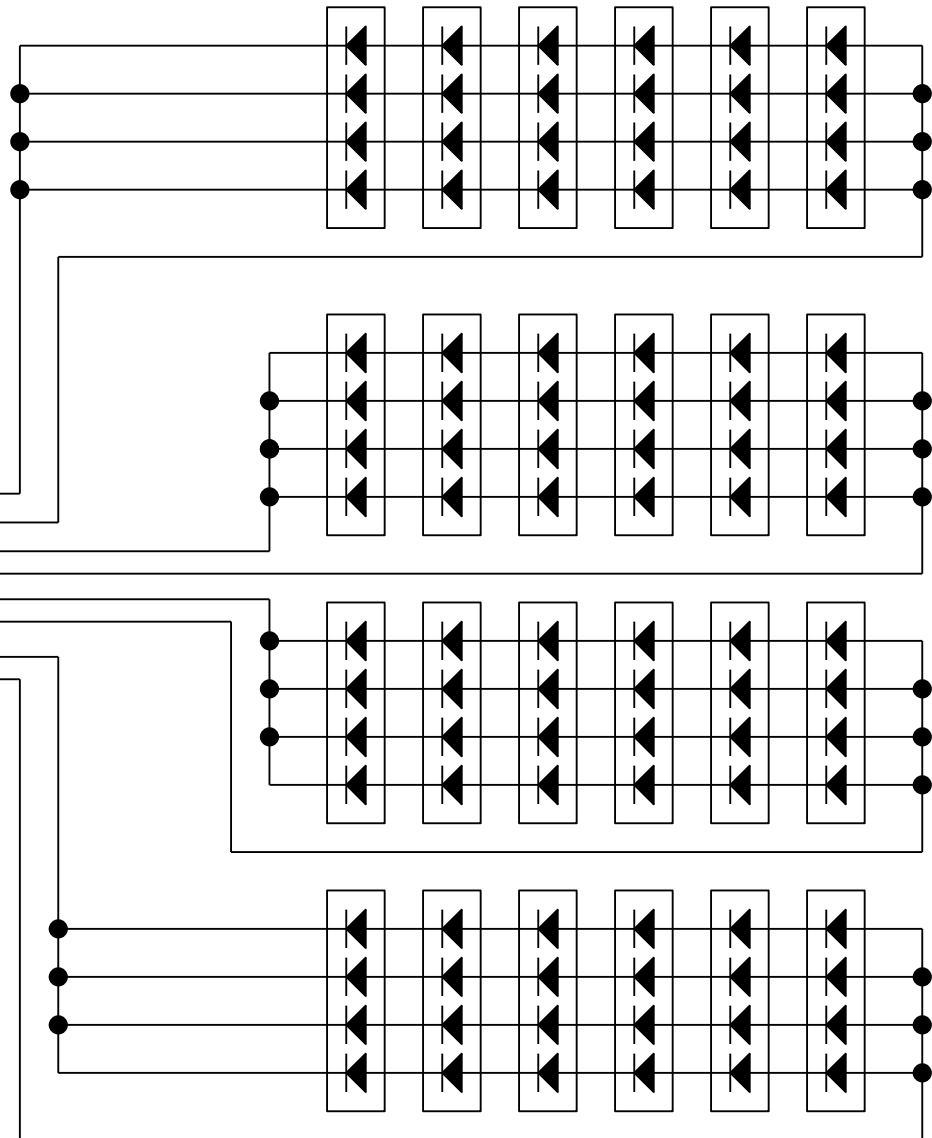
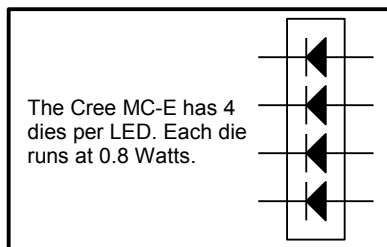
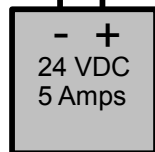
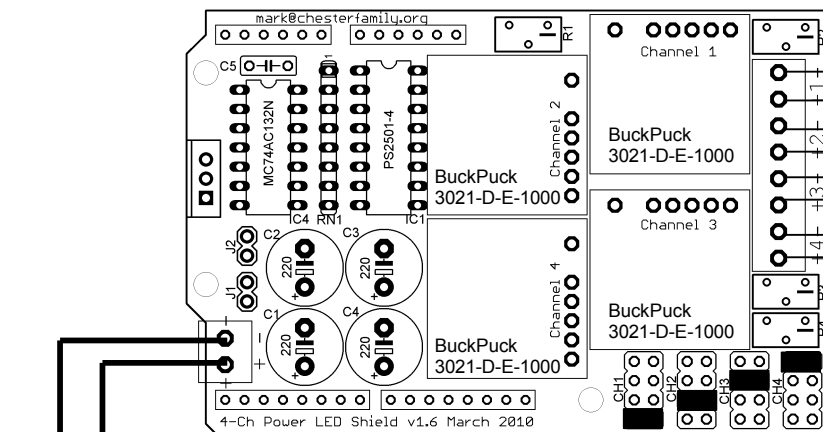
## High Efficiency General Illumination:

Each channel has 6 Cree MC-E 4-die, 430 lumen LEDs, wired in 4 parallel strings of 6 dies. Each LED die gets approx 250 mA. Total voltage drop per channel is about 19.2 volts.

This configuration draws just over 77 Watts and gives system total light output of more than 6,400 lumens!

It runs very cool because each LED is running at about 71% of its rated current capacity.

## Each Channel: (6) Cree MC-E LEDs

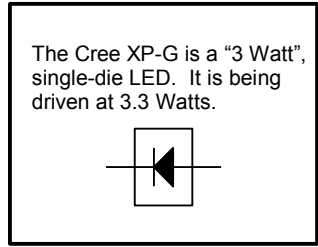
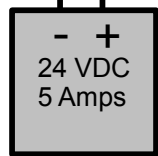
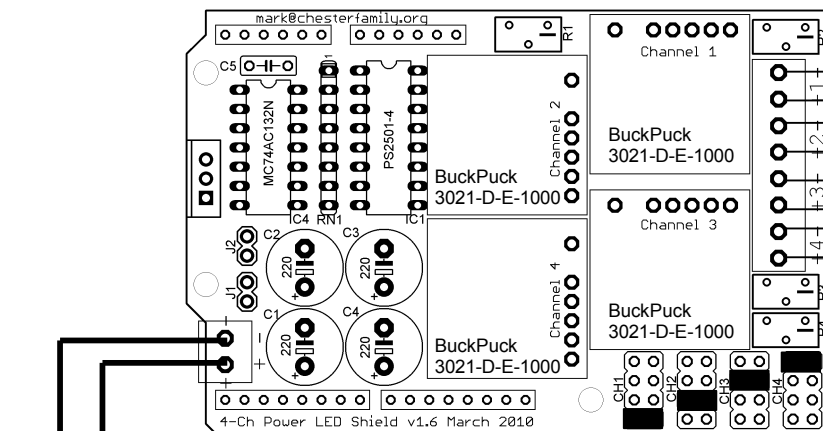


## Reef Aquarium Lighting:

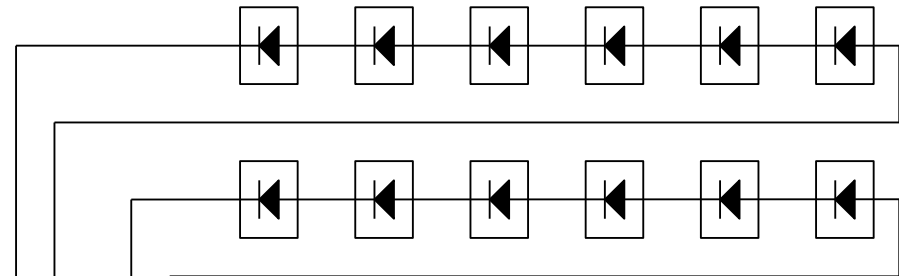
Each channel has 6 Cree XP-G (White) or XP-E (Colored) LEDs wired in series. Each LED gets 1000 mA. Total voltage drop per channel is 21 Volts or less.

This configuration draws just over 100 Watts and gives system total light output of more than 4,170 lumens, plus over 6000 mW of royal blue for vibrant florescence.

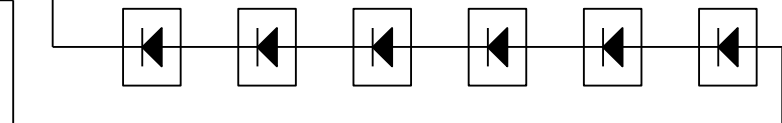
The addition of the Cyan and Red LEDs allows for an apparently brighter scene and a more full-spectrum light source.



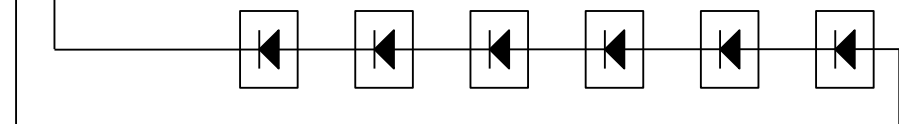
Channels 1 and 2: All white LEDs



Channel 3: Blue/Royal Blue LEDs



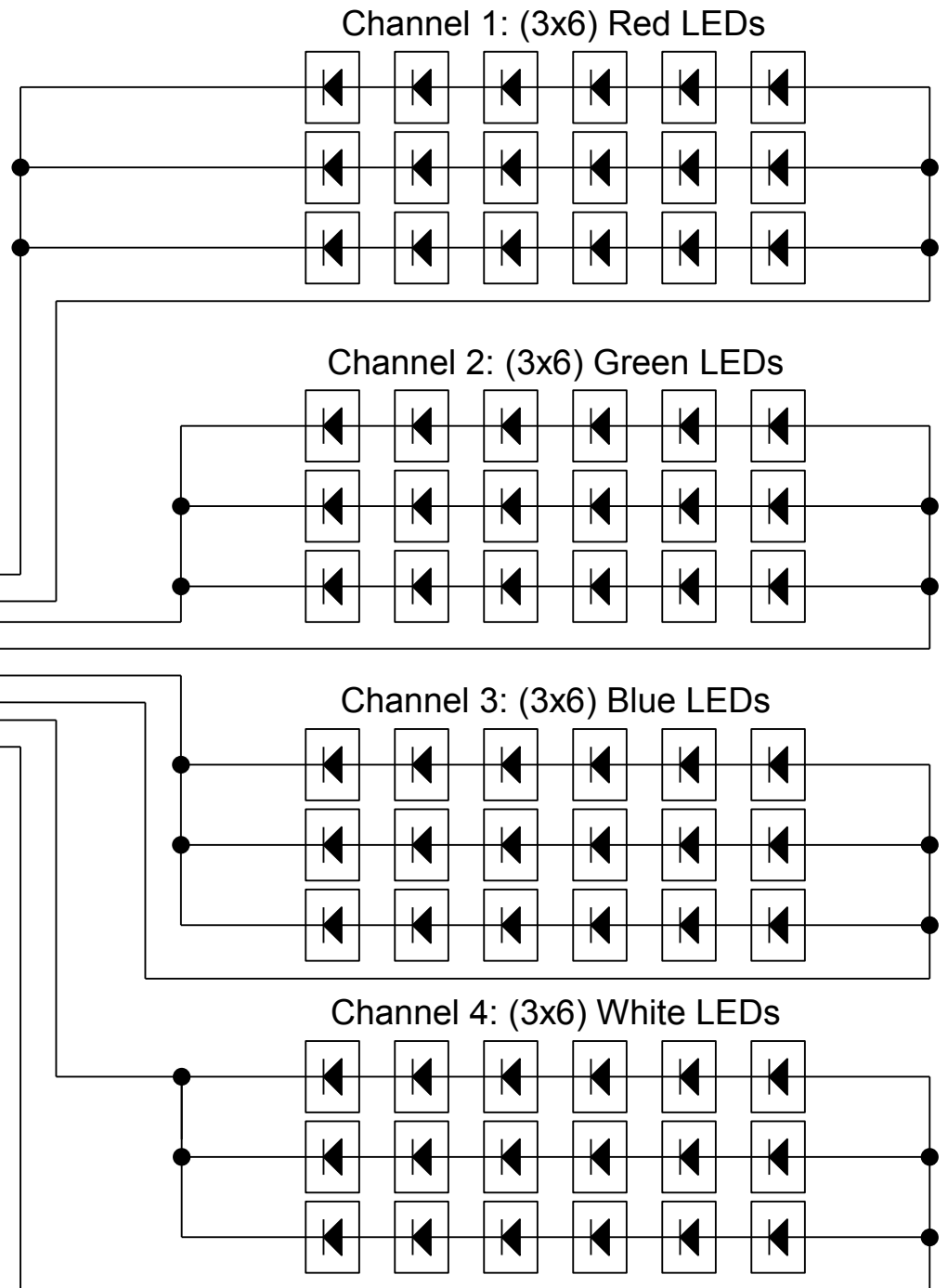
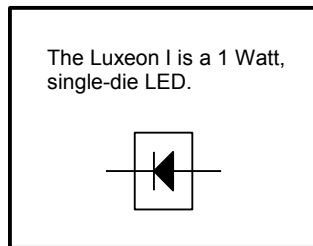
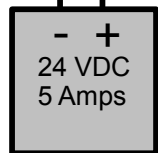
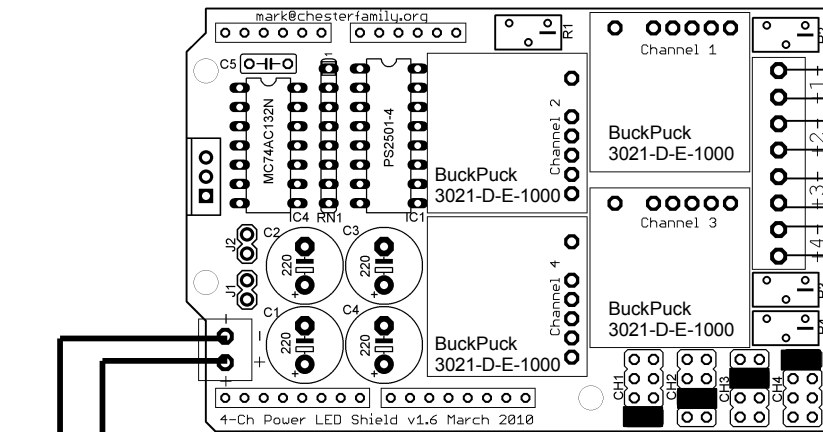
Channel 4: (5) Cyan LEDs, (1) Red LED



## Dance Club Effects:

Each channel has 3 parallel strings of 6 Luxeon I LEDs. Each LED gets about 333 mA. Total voltage drop per channel is no more than 20.5 Volts.

This configuration draws just over 80 Watts and provides bright, vibrant, saturated colors for environment or visual effects.



## Bicycle Headlight:

Channel 1 drives the headlight, a set of 3 Cree MC-E LEDs, delivering over 900 lumens out front!

Channel 2 drives the red tail light, 3 Luxeon 1 Red LEDs for long-range visibility to motorists.

Channels 3 and 4 provide turn signals for an extra measure of safety.

System draws about 15 Watts max.

Note the combination of different BuckPucks.

