

# Lutron Lighting Competition

First idea: smartphone/camera flash light?

(Color, brightness and time adjustment)

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Second Idea 装置艺术, 发光盒子, a Clock!。

Arduino, LED, 充电宝。 Not possible for 24 hours, but possible for 24 minutes (GTA time)

Clock face with LED? Rainbow color change with time. 12 LED each face.

白天面:

夜晚面:

2 Clock face? Each for AM and PM? (2 different color set)

天气与颜色 (单独的indicator)

苹果式白盒子

Next, which LED color I have?

Have 20 output. 1 indicator each face to indicate AM/PM.

White, Blue, Green (5V) Red(3.3V) Yellow(2V)

5mm Multi-colored LED					
	Yellow	Red	Blue	Green	White
					
Current	20mA	20mA	20mA	20mA	20mA
Voltage	2.0-2.2V	2.0-2.2V	3.0-3.2V	3.0-3.2V	3.0-3.2V
Wave Length	590-595nm	620-625nm	460-465nm	520-525nm	8000K
Luminous Intensity	3000-4000 mcd	2000-3000 mcd	3000-4000 mcd	15000-20000 mcd	12000-14000 mcd
Viewing Angle	30°	30°	30°	30°	30°
QTY (Tolerance ±1%)	90	90	90	90	90

天气 indicator (前后各一个)

白：晴天

蓝：雨天

黄：阴天 (多云)

绿：雪天

红：风暴

Random(5) switch every 24 minutes

Weather Indicator:

Y + Y & R + R need 500hm.

表盘 1 (0 到 11 点)

0:蓝 1-3:绿 4-6: 黄 7-8: 红 (上班) 9-11:白

表盘 2 (12 到 23 点)

12-13: 白 14-16: 蓝 17-18: 黄 19-21: 绿 22-23: 蓝

表盘在上，天气指示在下

LED Pair:

0: Blue + White

1: Green + White

2: Green + Blue

3: Green + Blue

4: Yellow + Blue

5: Yellow + Yellow + 50Ohm

6: Yellow + Yellow + 50Ohm

7: Red + Green

8: Red + Green

9: White + Green

10: White + Blue

11: White + Blue

A5 and 13 as Clock Face indicator. Need 100 Ohm.