- How many light sources are there?
- What direction is the light coming from?
- What are the relative intensities of the lights and the resulting contrast ration of the various parts of the scene?
- What color are the lights?
- Is there color contrast and how does that affect the scene?
- How does the reflectivity of the objects in the scene effect the exposure of those objects and the overall contrast of the scene?

- What hard or soft light sources do you see?
- How is the light being controlled or shaped to confine what it hits and what is left in shadow?
- How does the motion of elements in the scene change the overall effect?
- What is the overall mood created by this lighting?
- How does the motion of elements in the scene change the overall effect?
- What is the overall mood created by this lighting?

Lighting & Exposure Cheat Sheet



Color temperature [Kelvin]







Fluorescent









Blue Sky Shade

1,900 K

3,000 K

4,000 K

5,500 K

6,500 K

8,000 K

15,000 K

Directional Light Intensities [Lux]













Dark Night

Moon

Low Sun

Cloudy

Sun (Noon)

Sun (PBS Sky)

0.001 lx

0.5 lx

5,000 lx

20,000 lx

100,000 lx

130,000 lx

Local Light Intensities [Lumen]









Candlelight

Decorative Light

Interior Light

Exterior Light

12 lm

300 lm

1,000 lm

10,000 lm

Exposure Value [EV]













Moonless

Montlit

Interior

Low Sun

Cloudy

Sunlit

Natural

Illuminance (lux)

Light measurements from natural sources in different conditions:

Natural light level

Very bright sunlight.
Bright sunlight.
Blue sky at midday.
Overcast sky at midday.
Moonlight with a clear night sky.
Starry night without moonlight. Includes airglow.
surements from artificial sources:

12.57

241 5	
Luminous flux	
(lumen)	Source

Candle light.

Small decorative light, such as a small LED lamp.

< 100 200 - 300 room.

Decorative lamp, such as a lamp that does not provide the main lighting for a bright

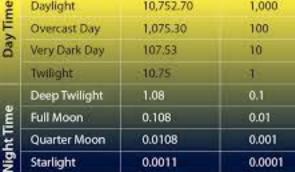
Ceiling lamp for a regular room.

Ceiling lamp for a large brightly lit room. 800 - 1 200

400 - 800

1 000 - 40 000 Bright street light.

LUX RATING CHART Condition Light Level (LUX) Foot Candles (FC) 107,527 10,000 Sunlight Daylight 10,752.70 1,000



0.0108

0.0011

0.0001

0.001

0.0001

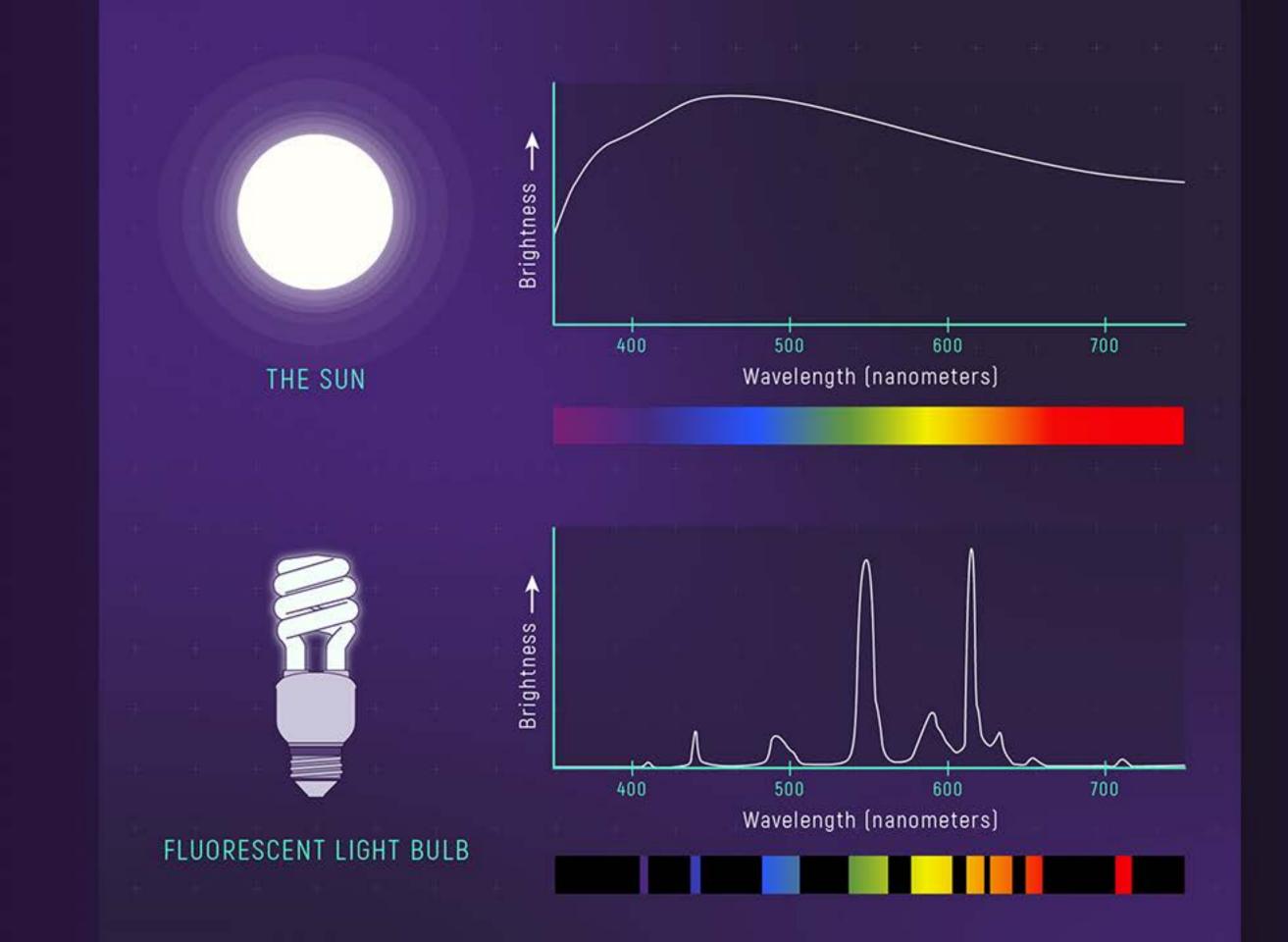
0.00001

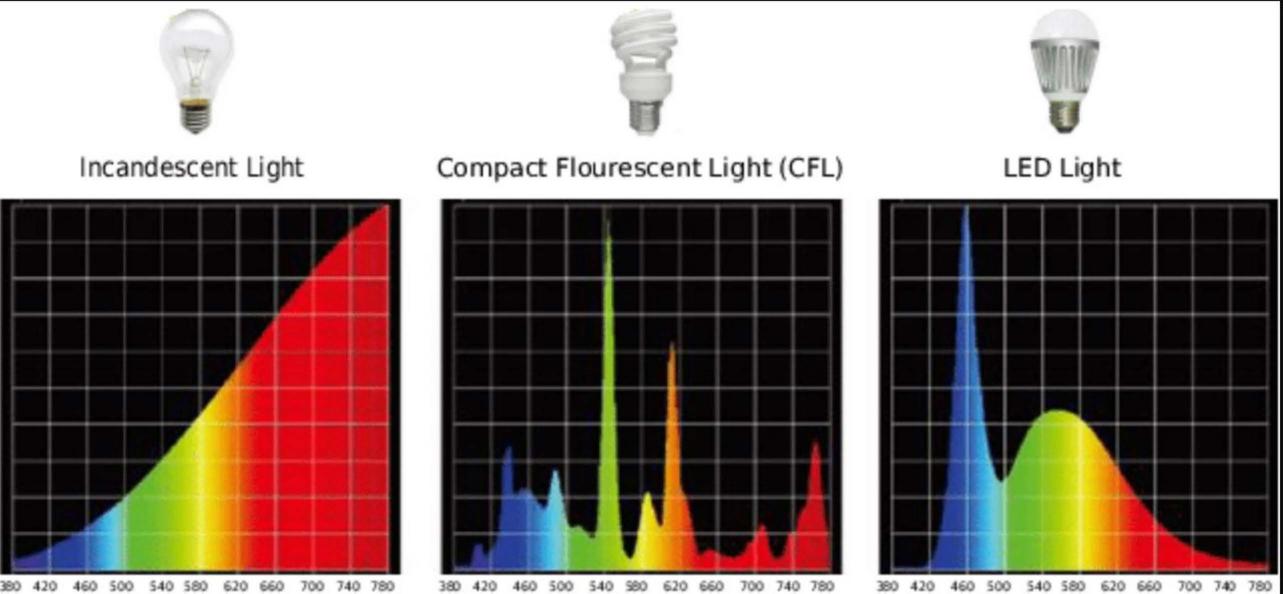
Quarter Moon

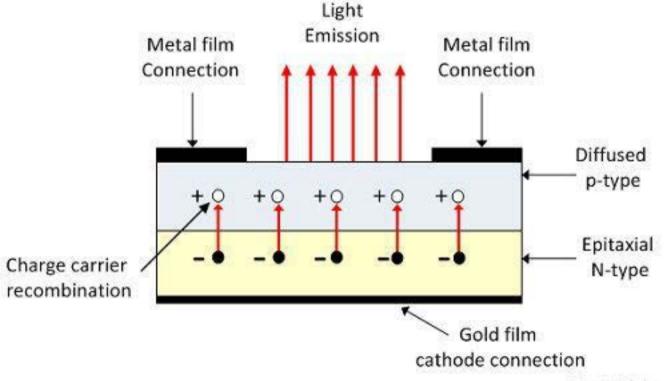
Overcast Night

Starlight

Light Source	Lumens
Birthday candle	1 lm
C9 bulb (Christmas lights)	7 lm
Cell phone flashlight	80 lm
Keychain flashlight	360 lm
40-watt Incandescent bulb	450 lm
70-watt incandescent bulb	1000 lm
1x 18650 LED flashlight	1000 lm
Car headlight	1500 lm







Circuit Globe

Visible Light

