

Photography

The Wonder of Light



February 12, 2022

Photograph

derives from the Greek
Photo, meaning light and
Graph, meaning to draw.

Photograph

**derives from the Greek
Photo, meaning light and
Graph, meaning to draw.**

Literally means
Drawing with Light

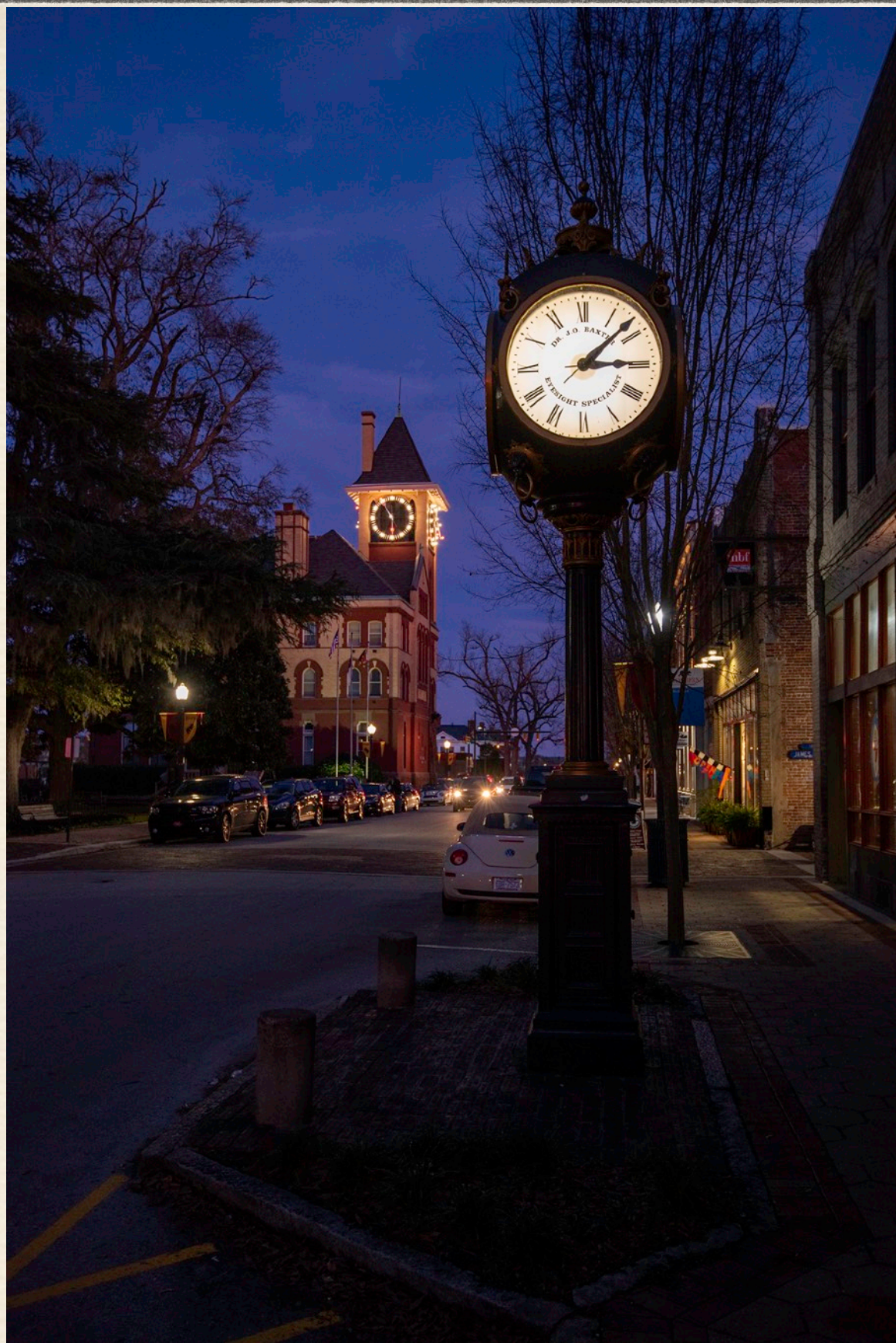
*Light makes photography. Embrace light.
Admire it. Love it. But above all, know light.
Know it for all you are worth, and you will
know the key to photography. — George Eastman*

Night Times

by A D Lewis



A D Lewis



NIKON D810

f/4.5 1/25 ISO 800



NIKON D810

f/4.5 1/25 ISO 800

Night Times

by A D Lewis



A D Lewis



VS



Sometimes the camera needs our help to reproduce a scene as we see it.

Sometimes the camera needs our help to reproduce a scene as we see it.

AND

Sometimes the scene needs our help to look its best.

“You don’t take a photograph, you make it.”

— Ansel Adams

Elements of Light

- ❖ Direction
- ❖ Intensity or Brightness
- ❖ Quality
- ❖ Color

Two Main Light Sources

❖ Natural Light

❖ Sun

❖ Fire

❖ Artificial Light

❖ Camera Flash

❖ Studio Lights

❖ Street Lights

❖ Neon Lights

❖ Incandescent

❖ Fluorescent

❖ LED

❖ many more

Natural Light

BENEFITS

- ❖ Readily Available
- ❖ Easy To Use
- ❖ It's Free
- ❖ Very Large

DISADVANTAGES

- ❖ Always Changing
- ❖ You Don't Choose What It Looks Like
- ❖ Doesn't Offer Much Control

Who Uses Natural Light

- ❖ Landscape Photography
- ❖ Wildlife Photography
- ❖ Night Photography
- ❖ Sports Photography
- ❖ Wedding & Event
- ❖ Portraits
- ❖ Still Life and Macro

Advantages

Readily Available

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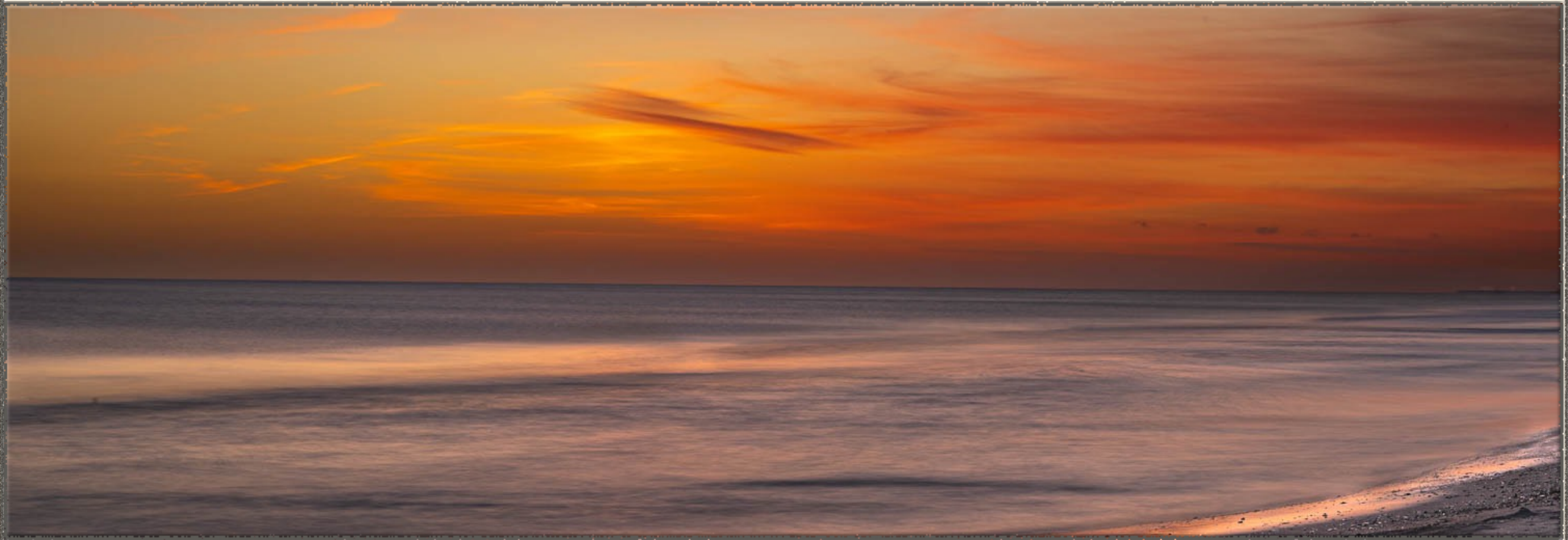


Canon Powershot SX40
f/8 - 1/2500

Nikon Z6
f/8 - 1/250



Doug Carawan



*“Sometimes I do get to places
just when God’s ready to have
somebody click the shutter.” —*

Ansel Adams



Sue Augustine
Natural Light Set up
in dinning room, next to slider

Artificial Light



Artificial Light

Flash / Strobe

Constant



Small
Flash



Specialty Lighting

Macro Ring Lite



Studio
Strobe





Studio or
Video Light

LED Panels



Ring Light

Artificial Light

BENEFITS

- ❖ Full Control

DISADVANTAGES

- ❖ Can be Expensive
- ❖ Requires Know-how
- ❖ Can be Cumbersome
- ❖ Not Always Feasible

Who Uses Artificial Light

- ❖ Portraits
- ❖ Still Life and Macro
- ❖ Wedding & Event
- ❖ Sports Photography
- ❖ Landscape Photography
- ❖ Wildlife Photography
- ❖ Night Photography



Sue Augustine
“Typical Set up”

Sue Augustine
Oranges



Artificial Light

~~~~~



Sue Augustine  
Early shot before getting lighting &  
composition they way she wanted

Final Image



Sue Augustine



# Artificial Light

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100 mm Macro lens
f 3.2 1/80 ISO 400

Sue Augustine



Final Image - One Strobe Lighting
7 image focus stack

Ambient Light

Can be made up of any combination of natural and artificial light.

It consists of natural light (coming through windows) combined with any artificial light used as “substitutes” for natural light such as chandeliers, lamps, overhead lights.



Small
Flash



Studio
Strobe



Two Exposures

[illegible]

Natural Light

- ❖ Always changing, very little control
- ❖ **Plan** your shoot - research locations for best lighting and time of day
- ❖ Be **Patient** - wait for the best lighting
- ❖ Be **Persistent** - plan on going back
- ❖ Proper exposure is achieved with camera settings

Artificial Light

- ❖ Total control of light - direction, quantity & quality
- ❖ Camera settings are for artistic value - proper exposure achieved by adjusting lights provided you have the right equipment
- ❖ Shoot when you want - no need to reschedule

Artificial Light continued

- ❖ Requires more knowledge to set up and use
- ❖ Can be cumbersome to transport
- ❖ When using flash you always create two exposures

Questions?