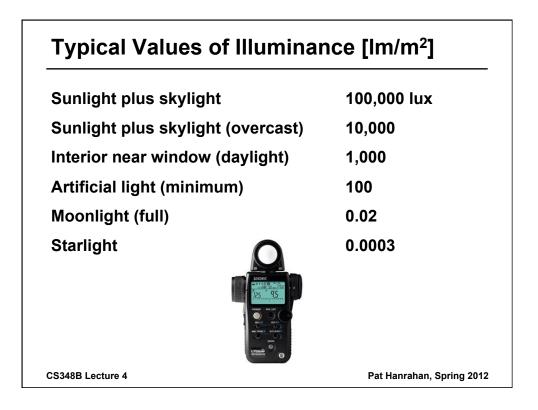
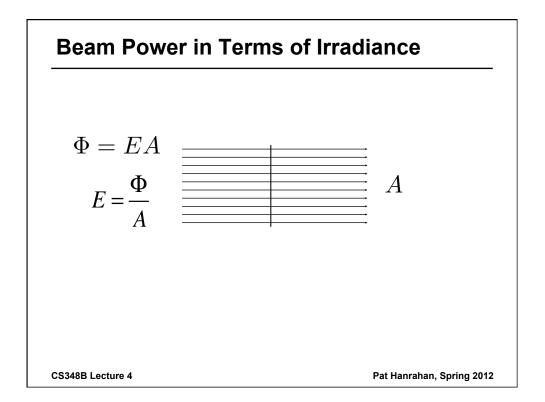
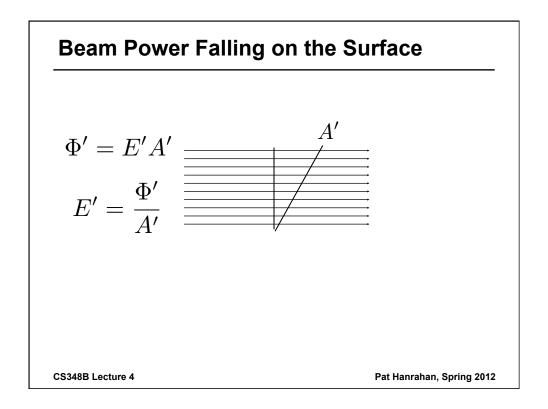
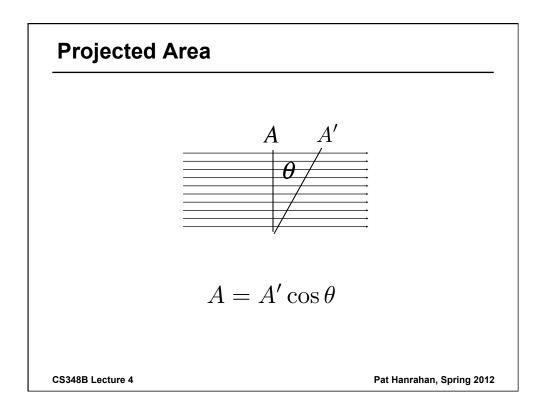


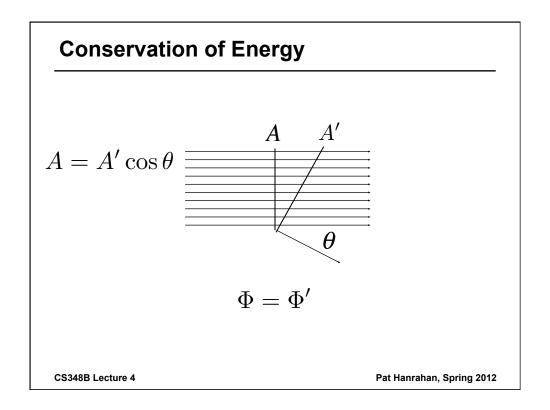
## <text><equation-block><equation-block><equation-block><equation-block><equation-block><equation-block><equation-block><equation-block>

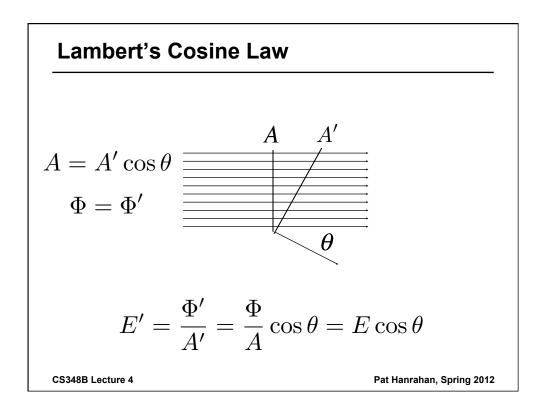


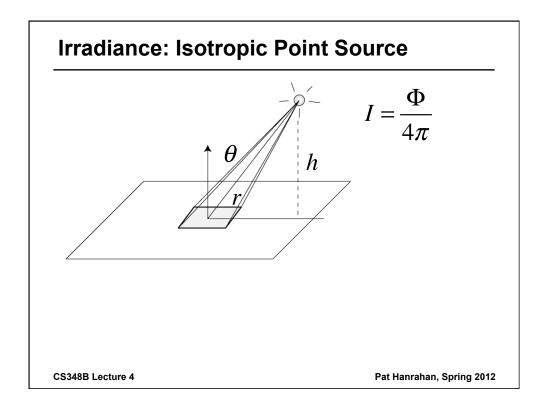


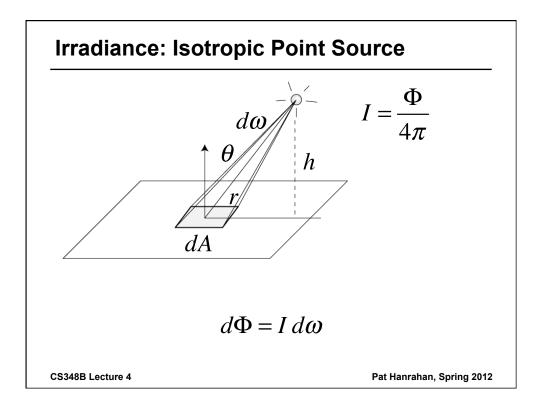


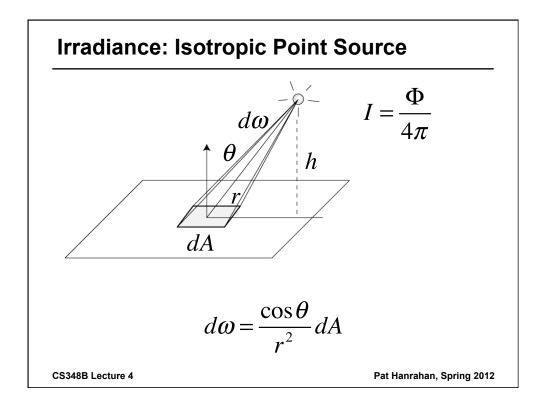


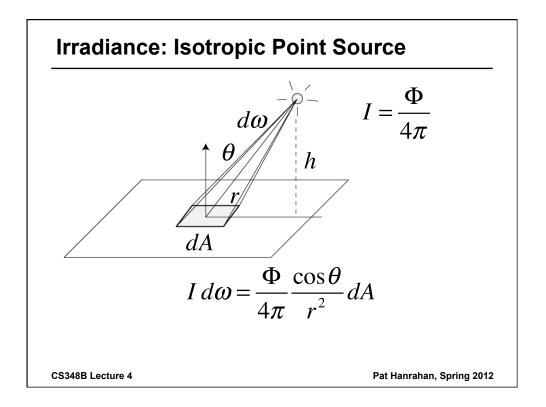


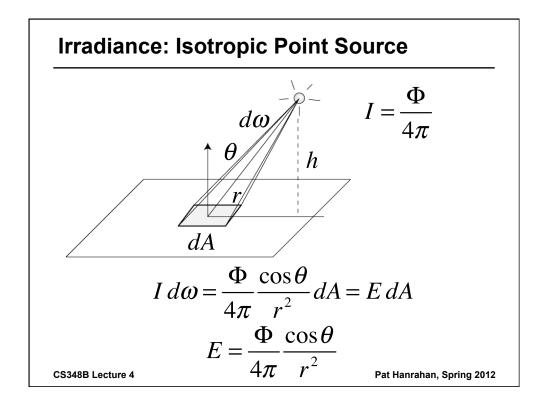


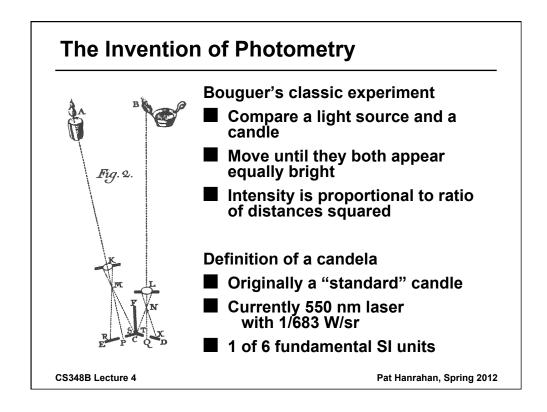


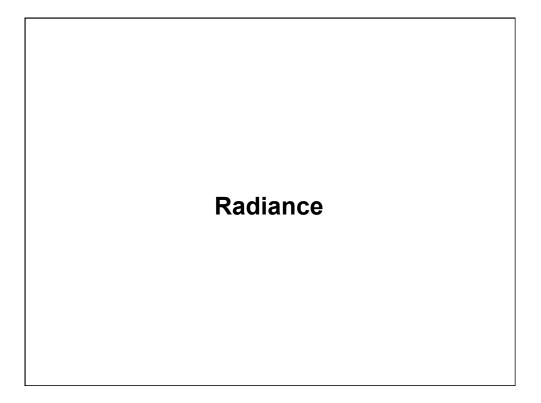


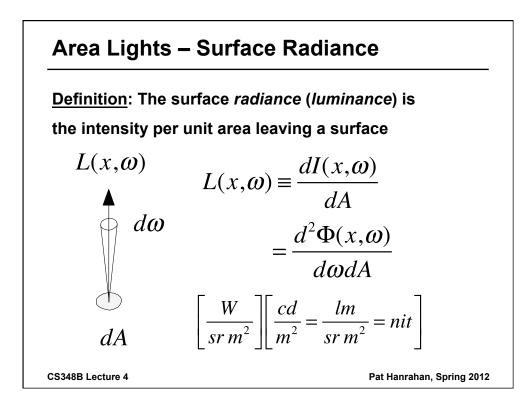


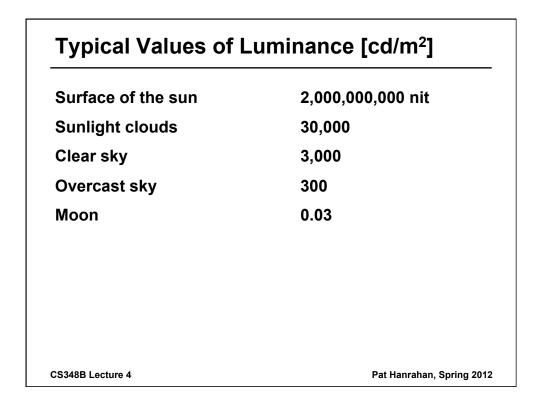


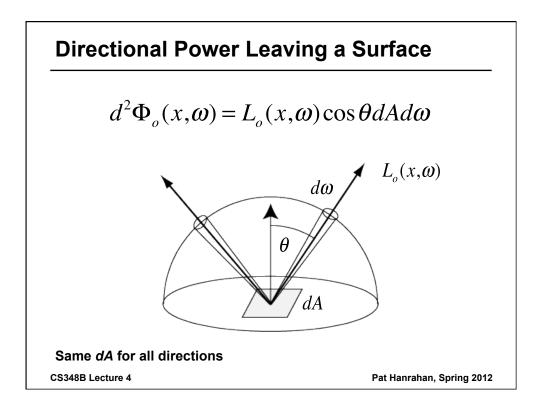


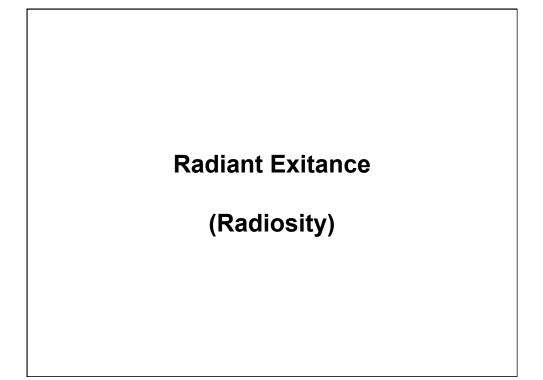












## Radiant Exitance

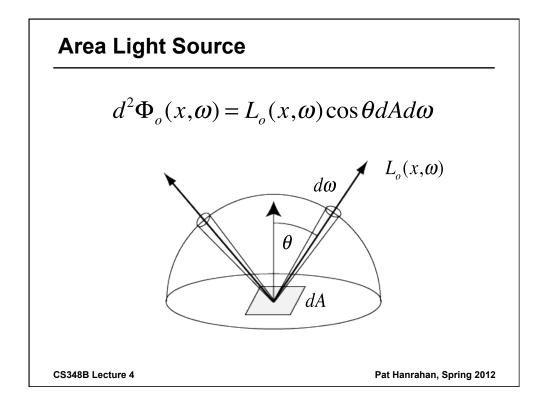
<u>Definition</u>: The *radiant* (*luminous*) *exitance* is the energy per unit area leaving a surface.

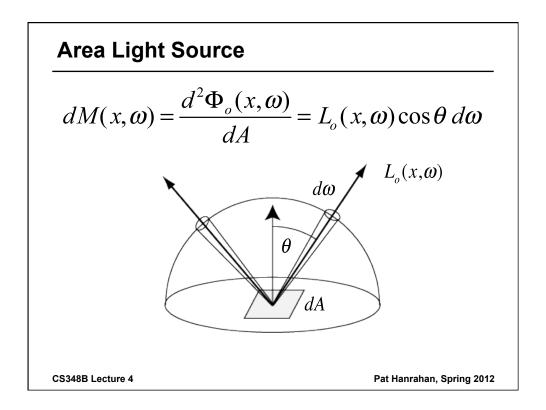
$$M(x) \equiv \frac{d\Phi_o}{dA}$$
$$\left[\frac{W}{m^2}\right] \left[\frac{lm}{m^2} = lux\right]$$

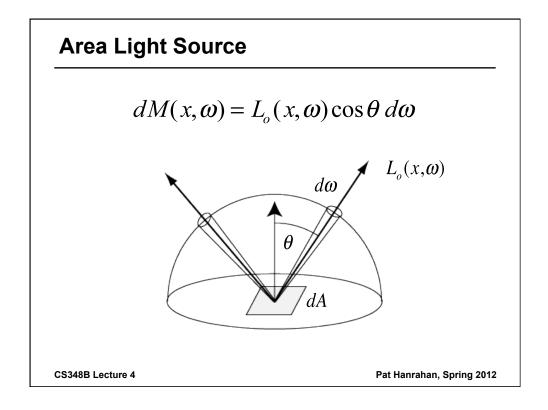
In computer graphics, this quantity is usually referred to as *radiosity (B)* 

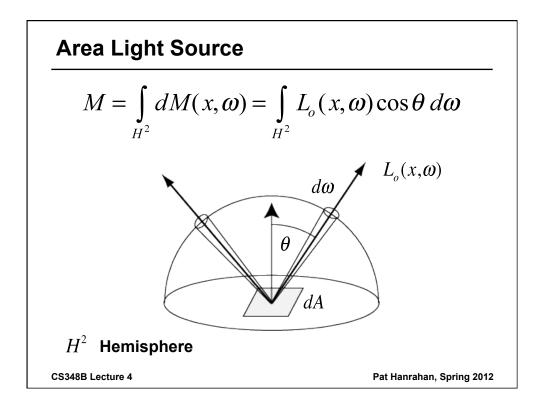
CS348B Lecture 4

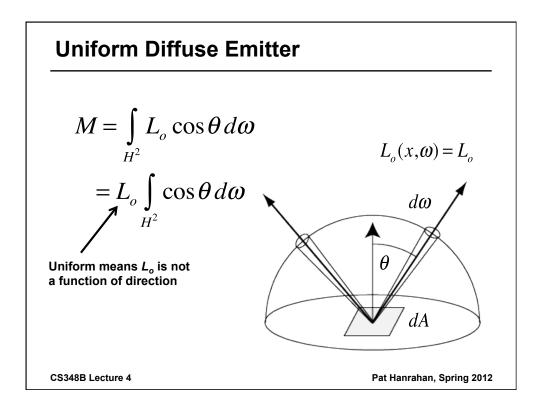
Pat Hanrahan, Spring 2012

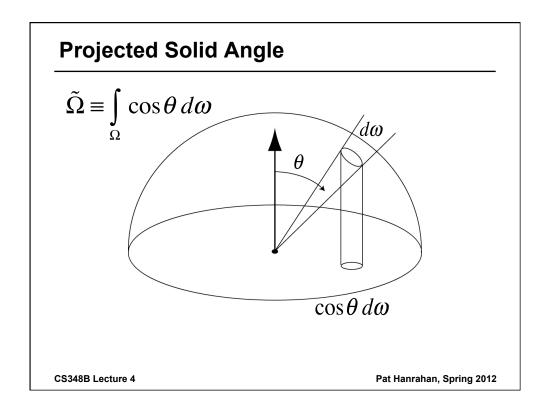


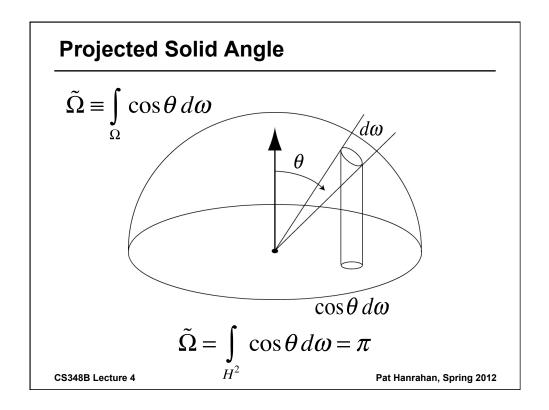


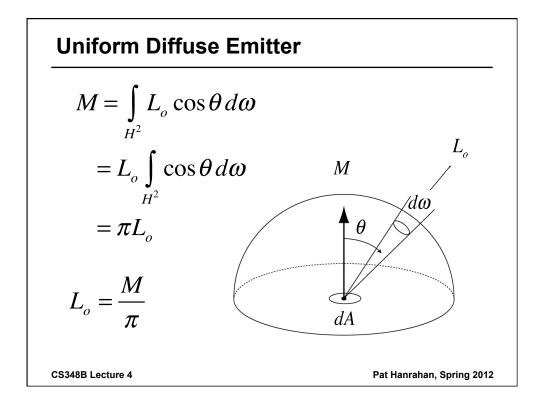


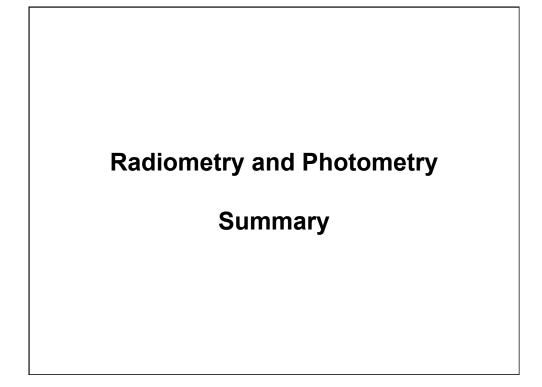












Physics	Radiometry	Photometry
Energy	Radiant Energy	Luminous Energy
Flux (Power)	Radiant Power	Luminous Power
Flux Density	Irradiance	Illuminance
	Radiosity	Luminosity
Angular Flux Density	Radiance	Luminance
Intensity	Radiant Intensity	Luminous Intensity

MKS	CGS	British
- II +		
Talbot		
Lumen		
ux	Phot	Footcandle
lit	Stilb	
postilb, Blondel	Lambert	Footlambert
andela (Candle,	Candlepower,	Carcel, Hefner)
	it postilb, Blondel andela (Candle,	ux Phot