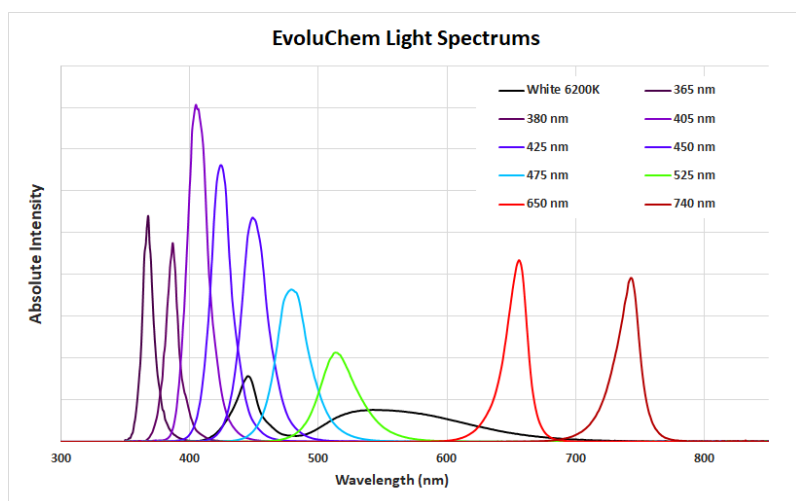




EvoluChem™ LED Lights

EvoluChem™ LED spotlights are designed specifically for photo-catalytic chemistry applications. They fit all EvoluChem™ PhotoRedox boxes and are designed to irradiate samples with maximum efficiency.

The LED chips are selected for specific wavelengths ranging from 365 nm to 6200K white.



General Specifications

Power Consumption 13W, 18W or 30W Max

Input Voltage 100-240 VAC

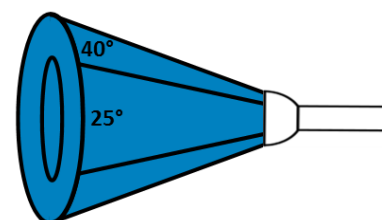
Beam Angle 25°

Wavelength Options 365 nm, 380 nm, 405 nm, 425 nm, 450 nm, 475 nm, 525 nm, 650 nm, 740 nm, 6200K white

LED Chip Manufacturer CREE, EPILED and LG



Our latest 650PF LED (pictured above) enables red light photochemical reactions



Watts vs Irradiance

Although wattage of an LED light is important, what's more important is the amount of light hitting the sample. If the light is spread over a large area, the density of light (irradiance) on the sample is diminished. EvoluChem™ LEDs are designed with a light beam angle of 25° which enables better light efficiency than other brands.

See the back side for a comparison.



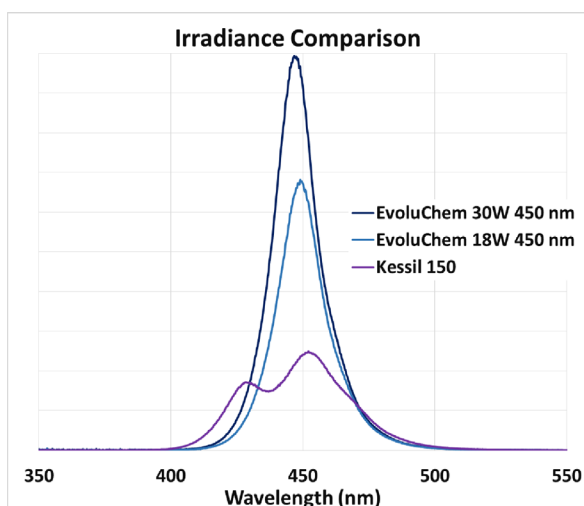
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EvoluChem™ LED Lights

The Advantage of a Focused Light Beam



EvoluChem™ LEDs are designed to maximize the amount of light directed towards the sample. As shown at left, the EvoluChem 450PF LED (18W) delivers better light efficiency than the Kessil 150N (34W) due in part to its 25° light beam angle.

In fact, with a more focused beam, EvoluChem LEDs consistently deliver more irradiance than other brands... even though our LEDs require less power.

Light Source	Power (Watts)	Relative Irradiance
EvoluChem 450DX	30W	55 mW/cm ²
EvoluChem 450PF	18W	34 mW/cm ²
Kessil 150N	34W	22 mW/cm ²

EvoluChem LED Light Options

EvoluChem LED	Wave-length	LED	Part No.	Relative Irradiance*
365PF	365 nm	LG	HCK1012-01-011	9 mW/cm ²
380PF	380 nm	LG	HCK1012-01-013	8 mW/cm ²
405PF	405 nm	LG	HCK1012-01-010	28 mW/cm ²
425PF	425 nm	EPILED	HCK1012-01-012	33 mW/cm ²
450PF	450 nm	CREE-XPE	HCK1012-01-002	34 mW/cm ²
475PF	475 nm	CREE-XPE	HCK1012-01-003	23 mW/cm ²
525PF	525 nm	CREE-XPE	HCK1012-01-004	10 mW/cm ²
650PF	650 nm	EPILED	HCK1012-01-014	20 mW/cm ²
740PF	740 nm	EPILED	HCK1012-01-015	20 mW/cm ²
6200PF	6200K (cold white)	CREE-XTE	HCK1012-01-005	29 mW/cm ²
365DX	365 nm	LG	HCK1012-01-006	25 mW/cm ²
450DX	450 nm	CREE-XPE	HCK1012-01-008	55 mW/cm ²



EvoluChem DX Series

Our DX series LEDs are fitted with a more powerful 30W power supply but still fit all EvoluChem™ Photoreactors



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*Average relative irradiance as measured in the PhotoRedOx box.