

# In-Grade Collection

Standard • RGBW

Lightvault



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## A history of innovation

"They copied, and copied, and copied, but they couldn't copy my mind.  
So I left them sweating and stealing, a year-and-a-half behind."

~ Rudyard Kipling

Rudyard Kipling's quote sums up Kim Lighting's reputation as a premium outdoor luminaire manufacturer and industry leader for high quality in-grade illumination.

With decades of lighting expertise and innovation, we still follow the timeless values of innovation and uncompromising quality established over 80 years ago by our founder F. B. Nightingale.



Expanding on the Lightvault® 8, Kim Lighting has added RGBW color changing technology to the medium 10" and the large 13" fixture. The luminaire can be controlled wirelessly via Bluetooth® mobile app or by hard wiring directly to a DMX control system.



The Lightvault 8 is the industry's first Bluetooth® controlled in-grade luminaire. A downloadable Bluetooth® app gives you the ability to aim or dim the luminaire via a personal mobile device without compromising the integrity of the solid-state IP68 sealed light engine.



## Time Line - The History of In-Grade Lighting

1950  
C50 Well Light debuts, introducing the idea of in-grade lighting.

1962  
The Kim Concept 3000 in-grade fixture launches.

1970  
Kim's Concept 5000 enhances innovation, durability and performance.

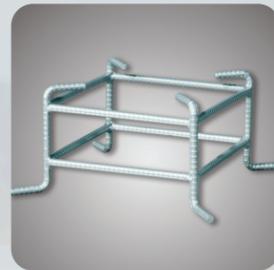
1999  
Lightvault enters the market, quickly becoming the leading industry standard.

2013  
Lightvault 8 premieres, once again redefining the in-grade luminaire.

2015  
Addition of RGBW for an infinite palette of color via wireless or DMX control system.

## Durability

The Lightvault® 8 earns a well-deserved reputation for durability with a sealed IP68 rated light engine, advanced thermal management technology, tempered glass lens, UV-resistant pour box, and outer brass housing with a 25 year warranty against corrosion.



## Ease of installation

The LTV8 family was designed with ease of installation in mind. The pour box with splice cover and debris shield ships ahead of time, allowing for placement and rough-in installation prior to concrete pour or landscape installation. A rebar cage is also available to tie the pour box into surrounding rebar when installing in concrete. The pour box can be installed flush with grade level, eliminating the need for a grout mask. The IP68 rated sealed splice compartment allows easy access to connection areas during final installation.



## Control Software

### Lightvault® 8 RGBW

Set the mood with color by Aiming, dimming, and color control via Bluetooth® wireless or DMX hardwired connectivity.

#### Hubbell RGBW Connect App Features:

- Free downloadable App for Android or iOS mobile devices
- X-Y tilt controls for aiming  $\pm 12^\circ$  in any direction
- Color selection via color wheel on "Home Screen"
- Ability to fine tune color output via "sliders" for Red, Green, Blue, and white on "Painter's Palette" screen
- Create, save, and rename 10 of your favorite color creations for future use on the "Preset" screen

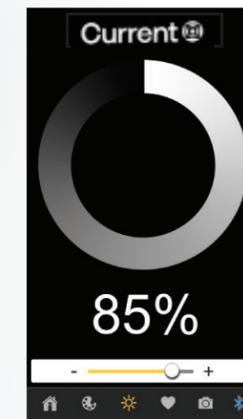
#### Bluetooth®



Mobile App unlocks unlimited color possibilities



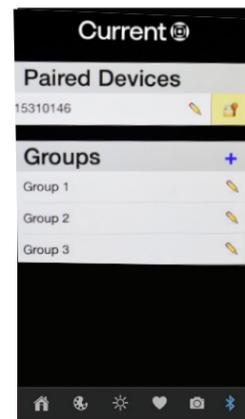
Presets can be added



Dimming slider



Select color from photo



Create groupings

- Intensity (dimming) can be achieved via the slider directly below the color wheel on the "Home Screen" or on the Intensity wheel located on the "Intensity" (starburst) screen of the app
  - Take a photo and select a color from the photo on the "Camera Screen" and watch the luminaire(s) you are paired with match the color in the photo instantaneously
  - Ability to connect/control multiple fixtures at the same time as well as create/save fixture groups
- #### DMX Features:
- Six inputs for attribute control; Four inputs (red, green, blue, and white) for intensity, two inputs for X-Y tilt
  - DMX-RDM enabled, controller supplied by others

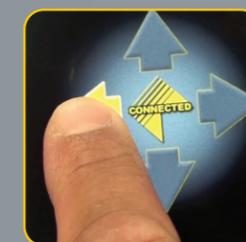
### Lightvault 8 Standard White

Aiming and dimming at the touch of a finger via The KIM Remote app, downloadable from Google Play for Android devices or the Apple App store for iOS devices.

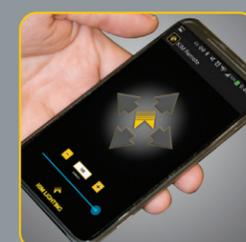
- Bluetooth® connectivity for remote control aiming and dimming
- Secure, password protected control
- X-Y tilt controls for aiming  $15^\circ$  in any direction
- Variable dimming to 20% in 1% increments
- Easy adjustments to adapt to ever changing environments
- Dim and tilt state automatically recall in case of power failure or if fixture is turned off



Download Kim remote Bluetooth® app and pair with nearest fixture.



Engage wireless optic controls via Bluetooth® app available for iPhone and Android.



Focus and light levels via remote aiming/dimming capability.

# LTV8 RGBW Ordering



LTV81FF



LTV82FF

**Flat Frame:** brass, ADA approved, 4,500 lb. drive over weight

## Lens Option



**Slip Resistant Lens**  
Factory installed



LTV81SS



LTV82SS

**Flat Frame:** stainless steel trim, ADA approved, 4,500 lb. drive over weight



LTV81RG



LTV82RG

**Rock Guard:** vandal protection



LTV81HS



LTV82HS

**Half Shield:** directs light while hiding glare



LTV81EB

**Eye Ball:** provides additional tilt for signs and facades

## ORDERING INFORMATION\*

<b>1 Fixture</b>	LTV81 13" diameter	LTV82 10" diameter	
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<b>2 Style:</b>	 FF	 SS	 HS
	 RG	 EB <sup>1</sup>	

<b>3 Distribution</b>	SP Spot	NF Narrow Flood	
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<b>4 Electrical Module</b>	SOURCE	COLOR	VOLTAGE
LTV81 <sup>1</sup>	24 L	RGBW	UV 120-277 V
LTV82	12 L		

<b>5 Options</b>	SR Slip Resistant Lens	RCA81 Rebar Cage Anchor	RCA82 Rebar Cage Anchor
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<b>Example: LTV81FF / NF / RGBW / SR</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

\* Opening of Component Module on site will void warranty.

<sup>1</sup> LTV81EB only available with 12 LEDs



# LTV8 Ordering



## Lens Option



**Prismatic Lens**  
For diffused light,  
factory installed



**Slip Resistant Lens**  
Can be added to prismatic lens,  
factory installed

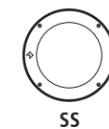
### ORDERING INFORMATION\*

1 Fixture	LTV81 13" diameter	LTV82 10" diameter	LTV83 8" diameter
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#### 2 Style:



FF



SS



HS



RG



EB<sup>1</sup>



DM

3 Distribution	SP Spot	NF Narrow Flood	WW Wall Wash <sup>2</sup>
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4 Electrical Module	SOURCE	COLOR	VOLTAGE
LTV81	36 L	3K 3000K 4K 4000K 5K 5000K	UV 120-277 V
LTV82	18 L		
LTV83	12 L		

5 Options	SR Slip Resistant Lens PL Prismatic Lens	RCA81 Rebar Cage Anchor RCA82 Rebar Cage Anchor RCA83 Rebar Cage Anchor
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**Example:** LTV81FF / NF / 3K / SR

1 2 3 4

\* Opening of Component Module on site will void warranty.

<sup>1</sup> Eye Ball equipped with 18 LEDs for the LTV81 SP and NF, 12 LEDs for the LTV82, and 5 LEDs for the LTV83 SP and NF.

<sup>2</sup> LTV81EB WW equipped with 16 LEDs, LTV83EB WW equipped with 8 LEDs.



LTV81FF



LTV82FF



LTV83FF

Flat Frame: brass, ADA approved, 4,500 lb. drive over weight



LTV81SS



LTV82SS



LTV83SS

Flat Frame: stainless steel trim, ADA approved, 4,500 lb. drive over weight



LTV81RG



LTV82RG



LTV83RG

Rock Guard: vandal protection



LTV81HS



LTV82HS



LTV83HS

Half Shield: directs light while hiding glare



LTV81EB



LTV82EB



LTV83EB

Eye Ball: provides additional tilt for signs and facades



LTV81DM



LTV82DM



LTV83DM

Directional Marker: for vehicle traffic area. 4,500 lb. drive over weight

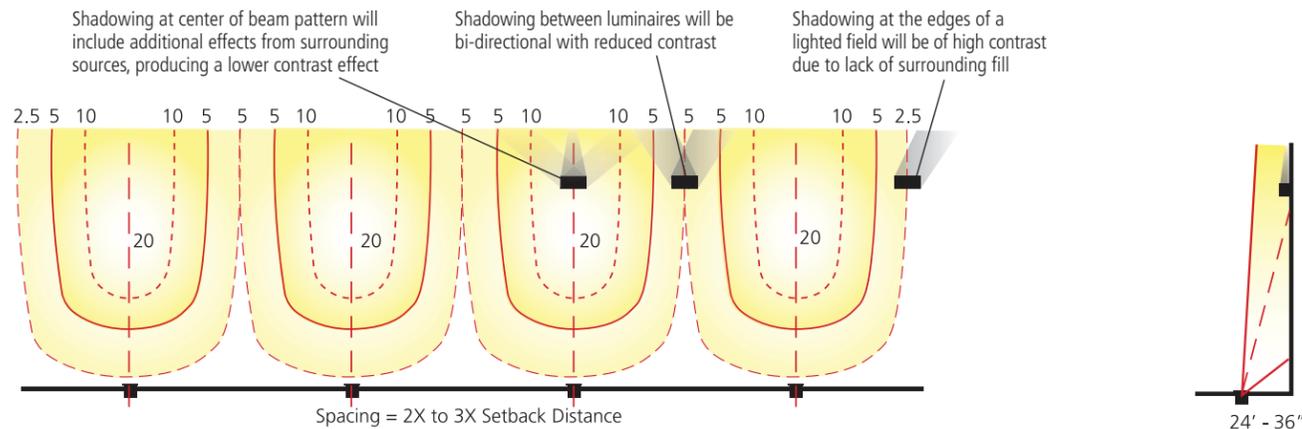
# Applications

## Lighting Effects

In-grade uplighting is effective for washing and modeling of wall surfaces and landscape features. However, the limited range of adjustment and tight optical distributions make location and distribution selection more sensitive than above grade floodlighting systems. When properly considered and carefully applied, in-grade uplighting can be attractive, as well as unobtrusive.



### Wall Washing



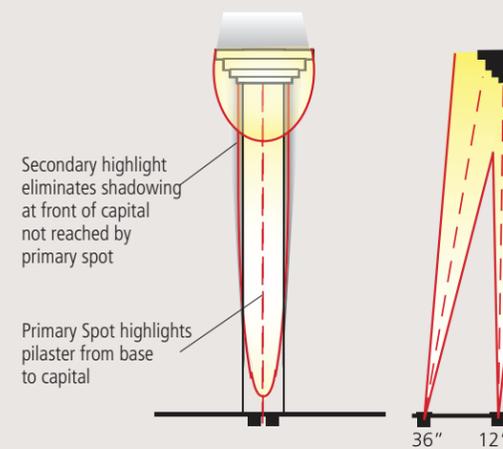
### Beam Pattern Overlap

Optimizing beam pattern overlap is critical to achieve a desired level of uniformity. Increased space will generate more scalloping. Overlapping patterns create uniformity and soften shadow and modeling effects.

### Setback Consideration

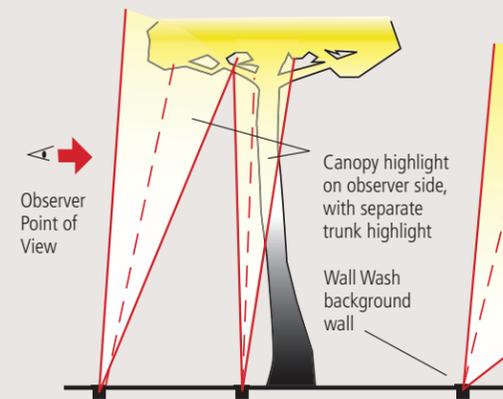
The greater the setback, the flatter the surface will appear. Tighter setbacks will produce deeper shadowing and texture modeling, on stone or masonry detailing.

### Layering Effect on Columns



### Architectural Feature Highlights

Layering light effects to emphasize details, such as columns or pilasters creates drama and interest. However, grazing effects held close to surfaces cannot reach features projecting beyond the fixture center line. Additional sources focused on these features keep them from being lost in shadow.



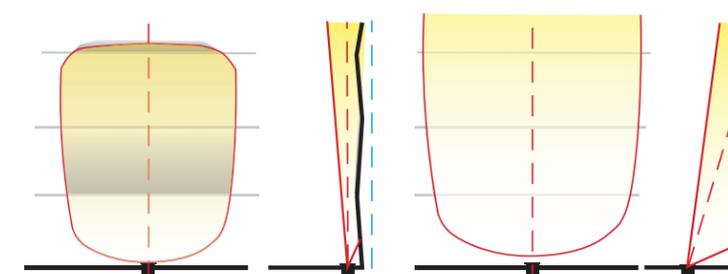
### Landscape Layering

Depth is created by lighting objects or surfaces farther away from the observer's point of view. Highlights and accents nearer the observer create drama and interest. Lighting in front of tree canopies and trunks, enhance visual interest.

### Surface Modeling

When illuminating surfaces from the ground, surface consistency and quality must be considered with grazing or wash effects. Horizontal variations are particularly troublesome, as small undulations in texture or consistency are exaggerated by lighting that is located with minimal setback distance. It is generally best to apply the greatest setback distance possible, while still producing the desired result.

### Wall Washing Effect



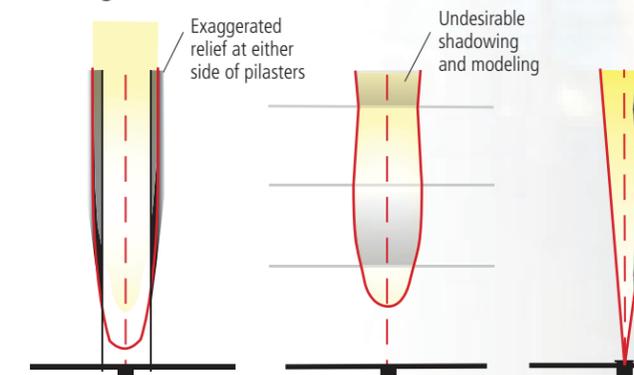
### Too Little Setback

Reduces wash effect and amplifies surface defects and texture.

### Increased Setback

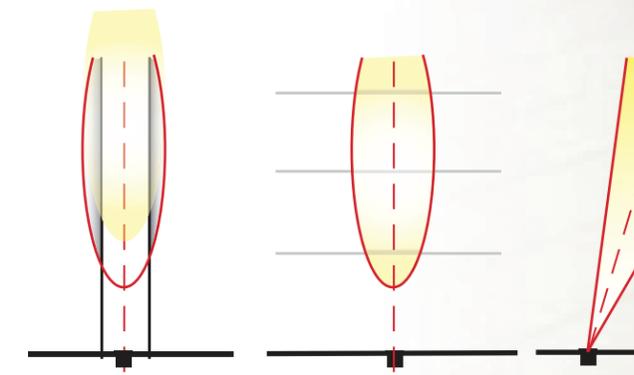
Creates smooth surface appearance and optimizes wall wash performance.

### Grazing Effect



### Too Little Setback

Amplified surface defects and texture.



### Increased Setback

Smooths lighting effect and reduces visibility of surface defects.



**Current Lighting Solutions, LLC**

701 Millennium Blvd.  
Greenville, SC 29607

[currentlighting.com/kimlighting](http://currentlighting.com/kimlighting)

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