



# LTOK

LED area, site and roadway luminaire

Prevailing innovation.  
Remarkable savings.

#### Architectural design delivers on value

The LTOK LED area/site luminaire combines impressive aesthetics, ease of installation features and state-of-the-art optical control resulting in significant installation and energy savings. Incorporating industry-leading, patented optics, the LTOK LED luminaire offers a choice of four precision engineered optical distributions that deliver superior control and maximize light levels, whether the application is a parking lot or a pedestrian walkway.

#### Innovation beyond the fixture

LTOK LED's innovative, versatile mounting arm gets you install ready out of the box. The patented, standard arm was engineered to make installation simple, saving on installation costs and time. With the ability to accommodate multiple drilling patterns as well as square and round poles, the standard versatile mounting arm is the choice for both retrofit and new applications.

#### Advanced design delivers savings

With a single housing that accommodates multiple lumen packages, the LTOK LED area/site luminaire provides greater than 62 percent in energy and maintenance savings over traditional HID systems.

#### Engineered for long term reliability

The LTOK LED luminaire delivers an innovative thermal management design that maximizes heat dissipation resulting in longer fixture and LED life. Along with lumen maintenance greater than 92 percent at 50,000 hours, the rugged, die-cast fixture housing is 3G vibration and IP66 rated, which provides years of reliable operation with minimal service requirements. Backed by a five-year limited warranty, the LTOK LED area/site luminaire is the LED answer to your area and site lighting needs.



Area/site



Pathway



Wall mount

# Value engineered design

The LTOK LED luminaire delivers exceptional performance in a scalable, low-profile design. The precision engineered optics provide uniform illumination to walkways, parking lots, roadways, building areas and security lighting applications. Able to replace HID fixtures ranging from 300W up to 1000W, the LTOK LED luminaire is designed to meet the toughest lighting challenges.

## Construction

- Rugged, single-piece, die-cast aluminum housing and driver compartment
- Bolt type power door for ease of maintenance
- IP66 rated optics and fixture
- ETL/cETL wet location rated housing
- One-piece silicone gasket seals driver door to fixture

## Electrical

- -40°C to 40°C ambient operating temperature range
- 10kV/10kA non-fused surge protection is standard
- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation
- 0-10V dimming driver (standard)

## Optical

- Four lumen package ranging from 13,000 - 39,000 nominal lumens
- Type II, III, IV and V distributions
- Greater than 92 percent lumen maintenance at 50,000 hours
- Delivers unparalleled uniformity and scalability
- Optional house side shield available for backlight control

## Controls

- Controls-ready when equipped with ANSI 7-PIN twistlock photocontrol receptacle
- 3-PIN twistlock photocontrol receptacle available
- Optional integrated sensor for occupancy and dimming

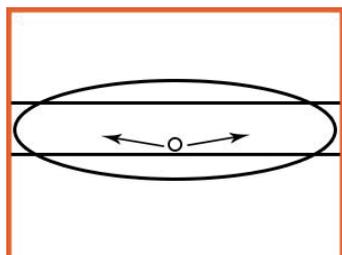
## Mounting

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Easily retrofits to poles with drill patterns ranging from 2-1/8" to 3-7/8"
- Optional wall-mount arm with adapter plate is available
- Optional slip fitter mounting adapter available
- Optional Trunnion mounting adapter available
- Optional U Bracket mounting adapter available
- Optional field-rotatable optics allows you to rotate the optics 45,90 degrees and a tilt arm allows you to tilt the luminaire up to 55 degrees mounting adapter available

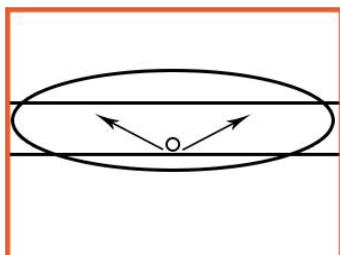
## Warranty

- Five-year warranty

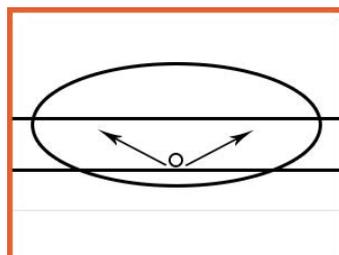
# Beam angle



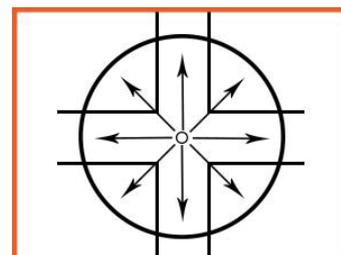
TYPE II



TYPE III



TYPE IV



TYPE V

# Installation methods



Arm mounting  
(square poles)



Arm mounting  
(round poles)



Slip Fitter mounting



Wall mounting



Trunion mounting



U Bracket mounting

Wall Mount

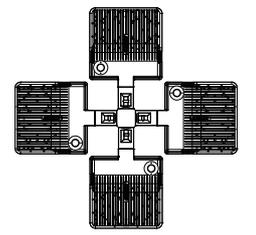
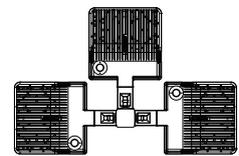
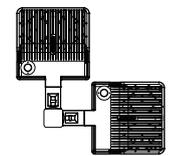
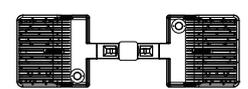
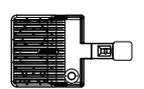
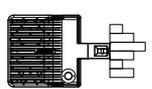
Arm Mount Single

Arm Mount 2 @ 180°

Arm Mount 2 @ 90°

Arm Mount 3 @ 90°

Arm Mount 4 @ 90°



The LTOK LED area luminaires (an optional) come with field-rotatable optics. This allows you to rotate the optics 45,90 degrees to the right or left, depending on the needs of your application. This is an important feature to limit light off-site and minimize jobsite complications. The tilt arm allows you to tilt the luminaire up to 55 degrees. This allows for additional forward throw to highlight specific areas of an application, such as a building facade.



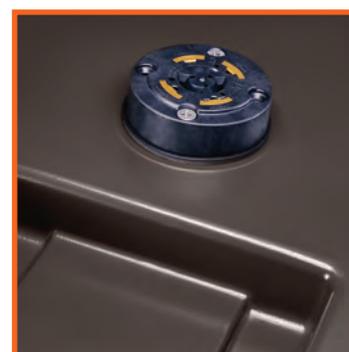
## Optional features



**Integrated sensor**  
Optional integrated sensor is capable of occupancy and dimming resulting in the reduction of energy required for area/site lighting applications.



**NEMA 3-PIN**  
photocontrol receptacle  
Gasketed receptacle for mounting standard 3-PIN NEMA photocontrol.



**NEMA 7-PIN**  
photocontrol receptacle  
ANSI C136.41 compliant.  
Enables wireless dimming when used with compatible photocontrol.

# Dimming and occupancy



## Area/site applications

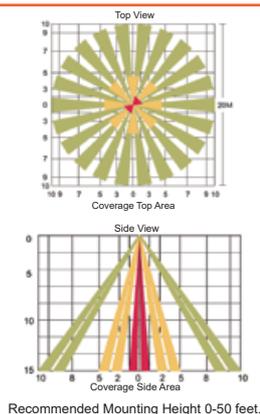
For outdoor area/site applications, lighting should be dimmed or turned off according to pedestrian traffic and safety requirements. Scheduled dimming and occupancy detection can be combined to reduce maximum lighting levels outside business hours. Upon occupancy detection, the luminaire returns to full lighting to maintain security lighting levels.

## Minimize power consumption, maximize energy savings

To further enhance energy savings, lighting management and control can reduce power consumption and energy costs by providing the appropriate light levels at the right place and time when required. Lighting can be reduced during low usage hours, saving energy, then raised on demand with occupancy detection. Adding motion sensor and dimming controls capabilities also extends the life of the luminaire due to reductions in electrical load and case temperatures on the LEDs and drivers.

## On/off or bi-level motion sensor

The LTOK LED area and site luminaires integrated dimming and occupancy sensor is a standalone control option that can automatically dim the luminaire to 50 percent with a time delay of 10 minutes if no occupancy is detected. When activity is detected, the luminaire returns to full light output. This option is available in 12' - 50' mounting heights in on/off operation or bi-level operation. To change these settings, a hand held programmable remote can be purchased that allows the dimming level, sensitivity and time delay settings to be adjusted.



## Worry-free controls planning

Ensure complete coverage and performance with an integrated sensor system built into every luminaire based on fixture mounting height. The integrated sensor is available in mounting heights from 12' to 50'.



## Integrated design

With a single product to mount, and a single electrical connection to make, the LTOK LED luminaire with an integrated sensor system saves money on the total installed cost when occupancy and daylight dimming controls are needed.



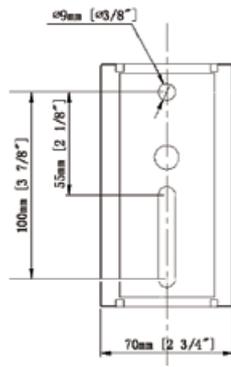
## Sensor remote control

When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupied/unoccupied, target light level, and time outs.

# Retrofit and installation has never been easier

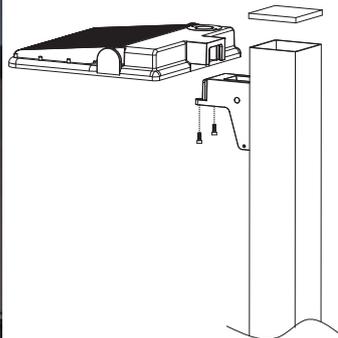
Time is money when it comes to installing and retrofitting area and site luminaires. The Prevail luminaire's patented, standard versatile mounting arm was engineered to make installation quick and easy, saving on both installation time and costs. Optional wall and mast arms are also available for even more design flexibility for any building mount, street and roadway applications.

## Retrofits multiple drill patterns



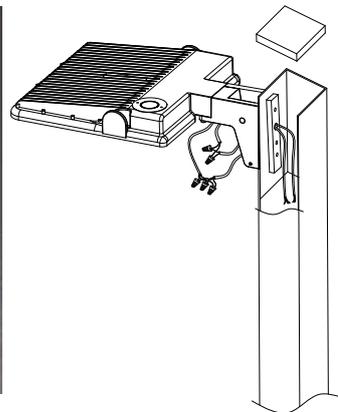
- Standard versatile arm can accommodate any existing drill pattern ranging from 2-1/8" to 3-7/8"
- Simply remove the existing luminaire and install the versatile arm to the existing top bolt location
- Align the slot to the existing 2nd bolt location and bolt into place
- Installation requires zero field drilling of the pole, saving time and money

## Simply install the luminaire



- Simply slide the LTOK LED luminaire onto the installed versatile arm and secure with two screws
- The versatile mounting arm's door is tethered
- The LTOK LED luminaire can be easily mounted and installed by a single person due to the innovative and simple versatile arm design

## Safe and secure completion



- Ample space is provided within the LTOK LED's arm to access and wire the luminaire
- Make the necessary wiring connections and reattach the tethered arm cover to complete installation
- There is zero need to access the driver compartment during installation, insuring a reliable, secure and safe installation



## Universal pole mounting

The versatile mounting arm includes integrated breakaway tabs to accommodate both square or round poles. Installation does not require an additional pole adapter plate, which simplifies the ordering and installation process for both retrofit and new construction applications.

# Energy savings

## Reduced energy consumption

Operating and maintenance costs of a lighting system are dramatically impacted by the specified lamp source, system power consumption and the duration time of operation. Total system input watts and fixture operating life should be the driving considerations when addressing energy consumption and total cost of ownership. Energy savings increase when energy consumption is reduced and maintenance intervals are extended.

## Annualized Energy Savings / Cost Comparison

Product	Hours Days / Year	Input Watts	TM-21 Data / HID Life (Hours)	Cost / Year at \$.10 kWh	Annual Maintenance Cost	Total Energy Cost/Fixture and Maintenance	Annual Savings Per Fixture	Savings(Percent)
L TOK-100W	11 / 4,015	100W	50,000	40	-	40	158	79%
300W Metal Halide Site Light		300W	20,000	120	78	198		
L TOK-150W		150W	50,000	60	-	60	216	78%
400W Metal Halide Site Light		400W	20,000	160	116	276		
L TOK-200W		200W	50,000	80	-	80	392	83%
750W Metal Halide Site Light		750W	20,000	300	172	472		
L TOK-240W		240W	50,000	96	-	96	416	81%
800W Metal Halide Site Light		800W	20,000	320	192	512		
L TOK-300W		300W	50,000	120	-	120	540	81%
1000W Metal Halide Site Light		1000W	20,000	400	260	660		

# Ordering information

## Example: L TOK-100W-40K-T2-UNV-N7-AM

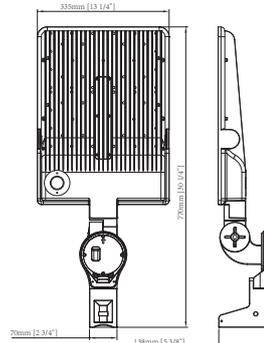
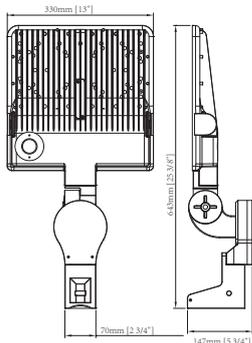
Options								
Lumens	power	Color Temperature	Distribution	Voltage	Motion sensing	Mounting	Dimming controls	Finish
150LM/W	100W (CREE 3030-144pcs)	WW-30K Warm White 3000K (70 CRI)	T2=TYPE II	UNV Universal 120-277V	N3=NEMA 3-PIN Twistlock Photocontrol Receptacle	FFO=Field- Fotatable Optics	1-10V Dimming  Resistor Dimming  Pwm Three-in-one Dimming  (standard)	Bronze
	150W (CREE 3030-200pcs)	NW-40K Neutral White 4000K (70 CRI)	T3=TYPE III	HVU Universal 347-480V	N7=NEMA 7-PIN Twistlock Photocontrol Receptacle	AM=Arm mounting		
	200W (CREE 3030-280pcs)	CW-50K Cool White 5000K (70 CRI)	T4=TYPE IV		MSP=Integrated Sensor for ON/OFF Operation, 12' - 50' Mounting Height	SFM=Slip Fitter mounting		
	240W (CREE 3030-368pcs)		T5=TYPE V			WM=Wall mounting		
	300W (CREE 3030-464pcs)					TM=Trunnion mounting  UBM=U Bracket mounting		

# Product Size

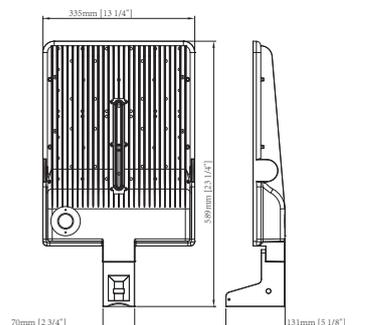
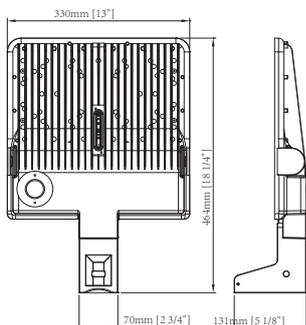
100W 150W 200W

240W 300W

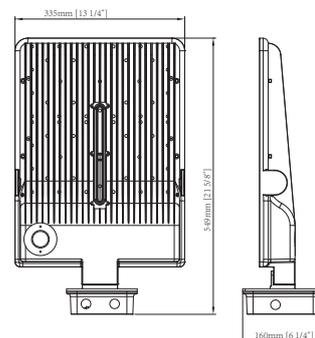
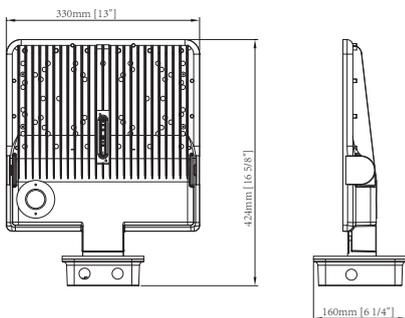
field-rotatable optics



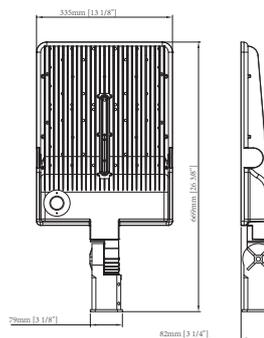
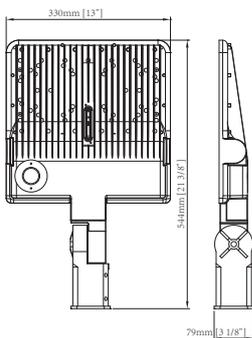
Arm mounting



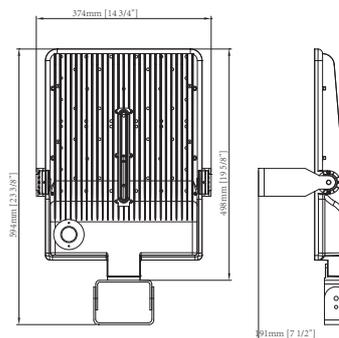
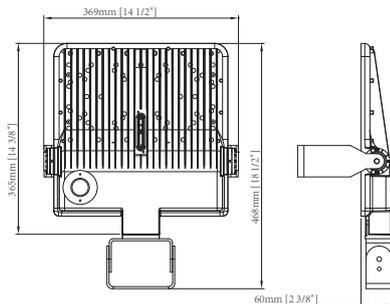
Wall mounting



Slip Fitter mounting



Trunnion mounting  
U Bracket mounting



# Take the next step

See how Litian LED luminaires can provide a complete solution for your area lighting needs. Visit [www.litianled.com](http://www.litianled.com) more information.