

YEAR 10 LED LIGHTS & BEAM PATTERN GUIDE









step up to another level and continue to lead the industry in bike lighting and safety. Still packed with innovative technologies—like MOR Lenses, Constant Lumens and sleek CNC-machined aluminum bodies our team of in-house engineers continue to push the boundaries of LED technology. Verified in our integrating sphere, our claimed lumens and runtime are accurate and consistent. Diehard mountain bikers, daytime commuters and everyone in between can appreciate our diverse collection of advanced LED lights for their proven performance, versatility and visibility.

## LED LIGHTS ICONS LEGEND



ALUMINUM CONSTRUCTION - A lightweight and durable (AL) construction used throughout our line to create elegant and functional products.

material used to make mold injected hardware.

precise and durable construction.

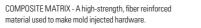
LED's battery cycle.

CNC MACHINED - CNC machined aluminum parts for

CONSTANT LUMENS - Innovative lumen management

system maintains a consistent lumen throughout the

MODE MEMORY - The light remains in the output setting it is switched OET in



MOR OPTICS - MOR (Maximum Optical Reflection) lenses are optimized to maximize LED output, beam pattern and lumen efficiency.



INTELLIGENT POWER INDICATOR - Integrated power and charging indicator.



USB RECHARGEABLE - Devices are USB rechargeable via integrated USB stick or supplied micro-USB cable.



SIDE VISIBILITY - Unique designs maximize side visibility and increases safety.



DAYTIME FLASH - A super bright, high-visibility flash mode developed to increase user safety during daytime cycling.



OVERDRIVE RACE MODE - An alternate race mode that toggles between super bright (Overdrive) and Economy only.



WEATHER RESISTANT - Innovative designs, advanced materials and special construction techniques to keep everything as dry as possible.



CLIP-ON SYSTEM - An integrated, patent pending dualdesign clip and universal strap mounting system.



AUTO FLASH - Auto on/off power saving technology







High-performance, multi-purpose LED cycling light.

Compact, durable and heat-dissipating extruded and machined aluminum body.

Two market-leading, ultrahigh-output LEDs delivering up to 1100 lumens.

Optimized Constant Lumens system maintains steady lumen output throughout battery cycle.

Optional Overdrive Race Mode toggles between Overdrive and Economy modes only.

Mode Memory function returns to selected mode after turning off.

Enhanced MOR (Maximum Optical Reflection) lens with built-in side visibility

High-speed 2 Amp USB charging capabilities (with compatible wall adapter).

Versatile handlebar strap secures to round and aero bars.

Advanced Li-Ion battery for superior run time.















146g (including strap mount)



## **DECA DRIVE 1500XXL**

The finest high-performance LED cycling light designed for all forms of serious night riding. Compact, durable and heat-dissipating CNC machined aluminum construction. Three market-leading, ultrahigh-output LEDs delivering up to 1,500 lumens. Optimized Constant Lumens system maintains steady lumen output throughout battery cycle. Optional Overdrive Race Mode toggles between Overdrive and Economy modes only. Mode Memory function returns to selected mode after turning off. Enhanced MOR (Maximum Optical Reflection) lens with built-in side visibility. High-speed 2 Amp USB charging capabilities (with compatible wall adapter). Ultra rugged and pliable strap securely mounts to all standard bar shapes. Advanced Li-Ion battery for superior run time.

















258g (including strap mount)





## MACRO DRIVE 800XL

High-performance, multi-purpose LED cycling light. Compact, durable and heat-dissipating extruded and machined aluminum body.

Ultrahigh-output LEDs delivering up to 800 lumens. Optional Overdrive Race Mode toggles between Overdrive and Economy modes only.

Mode Memory function returns to selected mode after turning off.

Enhanced MOR (Maximum Optical Reflection) lens with built-in side visibility. High-speed 2 Amp USB charging capabilities (with compatible wall adapter).

Versatile handlebar strap secures to round and aero bars.

Advanced Li-lon battery for superior run time.

















# **SUPER DRIVE 1250XXL**

Super high-performance LED cycling light with excellent night riding capabilities. Compact, durable and heat-dissipating CNC machined aluminum construction. Three market-leading, ultrahigh-output LEDs delivering up to 1,250 lumens. Optimized Constant Lumens system maintains steady lumen output throughout battery cycle. Optional Overdrive Race Mode toggles between Overdrive and Economy modes only. Mode Memory function returns to selected mode after turning off. Enhanced MOR (Maximum Optical Reflection) lens with built-in side visibility. High-speed 2 Amp USB charging capabilities (with compatible wall adapter). Ultra rugged and pliable strap securely mounts to all standard bar shapes. Advanced Li-lon battery for superior run time.













257g (including strap mount)



## LOADED OPTION

Expanded LED package loaded with additional night riding accessories. Durable Composite Matrix container with sturdy foam organizer. Available for Deca Drive, Super Drive, Power Drive and Macro Drive LEDs.

## EACH LOADED KIT CONTAINS:

Deca Drive 1500XXL or Super Drive 1250XXL

- Aluminum Bar Mount (31.8 / 25.4mm)
- CM Helmet Mount
- Micro USB charging cable

Power Drive 1100XL or Macro Drive 800XL

- CM Bar Mount (31.8 / 25.4mm)
- Universal CM Helmet Mount
- Micro USB charging cable





Multi-purpose performance LED cycling light.

Compact, durable and heat-dissipating CNC machined aluminum construction.

Ultrahigh-output LEDs delivering up to 450 lumens.

Optional Overdrive Race Mode toggles between Overdrive and Economy modes only.

Mode Memory function returns to selected mode after turning off.

Enhanced MOR (Maximum Optical Reflection) lens with built-in side visibility.

Integrated cable-free recharging USB stick.

Versatile handlebar strap secures to round and aero bars.

Advanced Li-Poly battery for superior run time.











	BLAST	ENDURO	ECONOMY	FEMTO	FLASH 1	FLASH2	PULSE	OVERDREVE
31,5	300 LUMENS	150 LUMENS	75 LUMENS	15 LUMENS	75 LUMENS	75 LUMENS	75 LUMENS	450 LUMENS
0	1:30 h:min	2:30 h:min	5:15 h:min	25:00 h:min	10:00 h:min	10:00 h:min	10:00 h:min	1:00 h:min

92g (including strap mount)





Multi-purpose performance LED cycling light.

Ultrahigh-output LED delivering up to 350 lumens.

Versatile handlebar strap secures to round and aero bars.

Advanced Li-Poly battery for superior run time.











	BLAST	ENDURO	ECCNOMY	FEMTO	FLASH 1	PLASH 2	PULSE
31,5	350 LUMENS	150 LUMENS	75 LUMENS	15 LUMENS	50 LUMENS	50 LUMENS	50 LUMENS
0	1:00 h:min	2:00 h:min	4:00 h:min	18:00 h:min	11:15 h:min	11:15 h:min	12:30 h:min

82g (including strap mount)







## STRIP DRIVE

Powerful five LED cycling light.

Light and durable co-molded lens/body construction.

Unique aero and round bar compatible design.

Five ultrahigh-output LEDs delivering up to 120 lumens.

Mode Memory function returns to selected mode after turning off.

Nine combined lumen and flash modes.

Enhanced lens with built-in side visibility.

Integrated cable-free recharging USB stick.













69g (without strap mount)





 $Compact, durable \ and \ heat-dissipating \ CNC \ machined \ aluminum \ construction.$ 

Mode Memory function returns to selected mode after turning off.

Seven combined lumen and flash modes.

Enhanced MOR (Maximum Optical Reflection) lens with built-in side visibility.

Integrated cable-free recharging USB stick.



















# **ZECTO DRIVE (FRONT)**

Low profile, high visibility light with three ultra bright LEDs.

Up to 120 lumens and seven output options.

Lightweight and durable composite matrix body with machine aluminum faceplate.

Intelligent Power Indicator displays battery life and provides side visibility.

Convenient Micro-USB rechargeable design.

Versatile 2-in-1 Clip-On System straps to bars or clips to loops.

















47g (without strap mount)

AL HELMET MOUNT



CM HELMET MOUNT



UNIVERSAL CM HELMET MOUNT



OPPOSITE PAGE, LEFT TO RIGHT

## **HELMET MOUNTS**

# AL Helmet Mount (Deca Drive / Super Drive):

Versatile LED helmet mount follows line-of-sight for optimized night riding. Lightweight and sturdy machined aluminum base plate. Easy to install Velcro strap fits virtually all helmet styles. Spherical pivot for easy alignment and on-the-fly adjustments.

### CM Helmet Mount (Deca Drive / Super Drive):

Versatile LED helmet mount follows line-of-sight for optimized night riding. Durable, mold injected Composite Matrix base plate. Easy to install Velcro strap fits virtually all helmet styles. Spherical pivot for easy alignment and on-the-fly adjustments.





### Universal CM Helmet Mount:

Versatile LED helmet mount follows line-of-sight for optimized night riding. Durable, mold injected Composite Matrix construction. Easy to install Velcro strap fits virtually all helmet styles. Universal design adapts to nearly all strap-style lights.





# MACRO DRIVE DUO

Compact and powerful 2-in-1 helmet light.

Innovative machined aluminum body integrates front and rear LEDs with Side Visibility.

Maximum of 400 lumens up front and five lumens in the rear.

Micro-USB rechargeable with high speed 2-Amp charging capabilities.

Includes versatile CM helmet mount that follows line-of-sight for optimized night riding.





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# KTV DRIVE (FRONT)

Compact, high visibility safety light with two ultra bright LEDs. Durable, waterproof construction. Super lightweight. Provides up to 70 lumens and six output/flash modes. Side Visibility cutouts for 180 degrees of visibility. Versatile 2-in-1 Clip-On System straps to bars or clips to loops. Integrated USB stick for convenient cable-free recharging.



















45g (without strap mount)





Low profile, dual-mode front or rear LED safety light.

Front Mode: Two LEDs provide up to 160 lumens.

Rear Mode: One red LED provides up to 40 lumens.

Lightweight and durable composite matrix body with machined aluminum faceplate.

Intelligent Power Indicator displays battery life and provides side visibility.

Convenient Micro-USB rechargeable design.

Versatile 2-in-1 Clip-On System straps to bars or clips to loops.



















		FLASH 1	FLASH 2	BLAST	ENDURO	ECONOMY	DAYFLASH
AB.	长	20 LUMENS	20 LUMENS	20 LUMENS	10 LUMENS	5 LUMENS	40 LUMENS
쮼	9	5:00 h:min	5:00 h:min	3:45 h:min	5:10 h:min	10:00 h:min	6:30 h:min

47g (without strap mount)



# FEMTO DRIVE (FRONT)

Ultra-compact safety light with integrated lens On/Off switch.

Durable machined aluminum construction.

Side Visibility lens extends beyond body to provide 180 degrees of visibility. Two replaceable CR2032 batteries power one bright LED.

Up to 15 lumens with two output/flash options.

Available in seven unique anodized colors.

Versatile 2-in-1 Clip-On System straps to bars or clips to loops.























# FEMTO DUO (FRONT/REAR)

Two-in-one safety light integrated into a versatile helmet mount.

Front and rear light coupled by a composite matrix junction.

Compatible with nearly all vented-style helmets.

LEDs are housed in a super compact, lightweight and durable machined aluminum body. High-grade polycarbonate lenses provide side visibility and double as the power button.

Front: 15 lumens, Rear: 7 lumens, two doutput modes. Easy to replace CR2032 batteries.











50g (including strap mount)



# MICRO DRIVE (REAR)

Lightweight and durable CNC machined aluminum body. Constant Lumens power management produces a steady lumen output. Powerful LED provides up to 70 lumens with integrated Side Visibility. Integrated USB stick for convenient cable-free recharging. Snap-fit CM mount with silicone strap attaches to a wide range of bars and posts. Available individually or in front / rear pair combinations.













# STRIP DRIVE (REAR)

Powerful five LED taillight.

Light and durable co-molded lens/body construction.

Unique aero and round post compatible design.

Five ultrahigh-output LEDs delivering up to 25 lumens.

Mode Memory function returns to selected mode after turning off.

Nine combined lumen and flash modes.

Enhanced lens with built-in side visibility.

Integrated cable-free recharging USB stick.









69g (without strap mount)



## **ZECTO DRIVE AUTO**

Low profile, high visibility light with three ultra bright LEDs. Innovative motion detecting system automatically turns light off (after 3 minutes) and on.  $Light weight and durable \ composite \ matrix \ body \ with \ machined \ aluminum \ face plate.$ Intelligent Power Indicator displays battery life and provides side visibility. Convenient Micro-USB rechargeable design. Versatile 2-in-1 Clip-On System straps to bars or clips to loops.

















47g (without strap mount)



# **ZECTO DRIVE (REAR)**

Low profile, high visibility light with three ultra bright LEDs.

Up to 20 lumens and six output options.

Lightweight and durable composite matrix body with machine aluminum faceplate.

Intelligent Power Indicator displays battery life and provides side visibility.

Convenient Micro-USB rechargeable design.

Versatile 2-in-1 Clip-On System straps to bars or clips to loops.



















47g (without strap mount)



# STRIP DRIVE PRO

Extremely powerful five LED taillight. Light and durable co-molded lens/body construction. Waterproof. Unique aero and round post compatible design. Five market-leading, ultrahigh-output LEDs delivering up to 100 lumens. Mode Memory function returns to selected mode after turning off. Nine combined lumen and flash modes. Enhanced lens with built-in side visibility.





Integrated cable-free recharging USB stick.







69g (without strap mount)





# LASER DRIVE (REAR)

Compact, high visibility safety light with four ultra bright LEDs. Laser mode beams two safety strips on the ground. Light and durable co-molded lens/body construction. Waterproof. Unique aero and round post compatible design. Provides up to 40 lumens and three output/flash modes. Side Visibility for 180 degrees of visibility. Convenient Micro-USB rechargeable design.















84g (without strap mount)

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LED LIGHTS - REAR LIGHTS LED LIGHTS - BOX SETS



# KTV DRIVE REAR STVZO\*

Compact, high visibility safety light. STVZO lens controls light output direction Durable, waterproof construction. Super lightweight. Two LED system provides 11 lumens of output. Side Visibility cutouts for 180 degrees of visibility. Unique aero and round post compatible design. Integrated USB stick for convenient cable-free recharging.











44g (without strap mount)

\*STVZO: Straßenverkehrs-Zulassungs-Ordnung (German Traffic Regulations)





KTV Drive counter top display box. Available in two varieties: all Front KTV Drives or all Rear KTV Drives. One box includes 12 LEDs complete with Clip-On System hardware.













# (Mew) KTV DRIVE (REAR)

Compact, high visibility safety light with two ultra bright LEDs. Durable, waterproof construction. Super lightweight. Provides up to nine lumens and three output/flash modes. Side Visibility cutouts for 180 degrees of visibility. Unique aero and round post compatible design Integrated USB stick for convenient cable-free recharging.



















# FEMTO DRIVE BOX

Femto Drive counter top display box.

Available in three varieties: Femto Drive front, Femto Drive rear or Femto Drive front/rear mix. One box includes 12 LEDs (Six front, Six rear or combo box). Includes Clip-On System mounting hardware.















# FEMTO DRIVE (REAR)

Ultra-compact safety light with integrated lens On/Off switch. Durable machined aluminum construction. Side Visibility lens extends beyond body to provide 180 degrees of visibility. Two replaceable CR2032 batteries power one bright LED. Up to 7 lumens with two output/flash options. Versatile 2-in-1 Clip-On System straps to bars or clips to loops. Available in seven unique anodized colors.



























## **CR2032 BATTERIES**

CR2032 batteries for Femto Drive LEDs. Available in 2-pack or 8-pack.

## CONCEPT

Like all Lezyne products, our range of LED lights are born out of a concept. It could be during a ride, or while tinkering on a bike, that a thought or idea starts taking shape. This idea is then researched versus the market and all of the possibilities are analyzed. This is how it all begins—a concept—and this is how we continue to innovate and develop the most cutting edge LED systems in the world.

## DEVELOPMENT

At Lezyne we continue to develop everything in house; this is one of our key philosophies and how we're able to stay at the forefront of LED design and innovation. Since entering the LED market, we've assembled a group of extremely talented designers and engineers who have the creative freedom to think outside of the box and push the limits of LED technology. Through 3D modeling, prototyping and testing, every light we produce is built with the best technology and materials. Furthermore, they're optimized with advanced programming to provide the best efficiency, output and battery life.

## **PROVEN**

While we do calculate what each of our LEDs put out in lumens, we also verify it in an integrating sphere. This is an advanced lumen testing device that allows us to prove the output of our LEDs. Not only that, it allows us to monitor the output over the course of a battery cycle. This provides vital information so we can develop advanced programming features like constant lumens. Testing is a critical process during development and our integrating sphere is an essential component to that.

## MANUFACTURING

Not only do we design our LED units in house, but we build them in house too. This provides a great deal of benefits. In short, technology innovations can be implemented quicker, we can create a more unique looking product and we have full control over the quality of our LEDs. In addition to manufacturing in house, our LEDs are also tested before leaving the factory. Our QC process involves 100% full functional testing, waterproofness and battery capacity verification. In the end, manufacturing in house also reduces cost and increases quality. This provides the best cost-per-lumen ratio packed into a superior product.

## **FEATURES**

What makes Lezyne LEDs better? Well, in addition to the using the best possible materials, having an R&D team on the cutting edge of innovation and then building and testing them in house, there are still plenty of other standout features. We're building components—not toys—so we construct the majority of our LEDs out of CNC machined aluminum. This provides a more durable, sexier product without sacrificing weight. Our lenses are different; they're enhanced with our MOR Optics technology, which optimizes our beam patterns and lumen output. They're safer; we have unique features like "side visibility" to increase safety. And we keep everything as compact and powerful as possible, completed with a visually standout design that proudly conveys, "Lezyne, Engineered Design."

## GLOSSARY

Lumen: A measure of the total amount of visible light emitted by a source

LED: Light-emitting Diode

**Engineer**: Engineers design materials, structures and systems while considering the limitations imposed by practicality, regulation, safety and cost

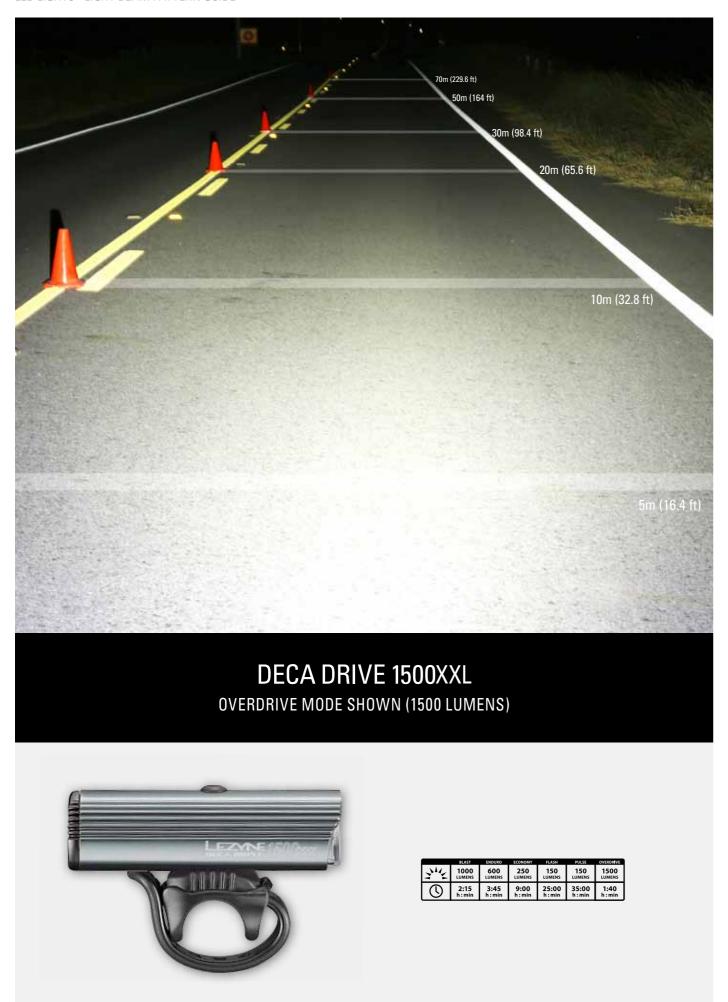
**3D Modeling:** A process of developing a mathematical representation of any three-dimensional surface of an object via specialized software

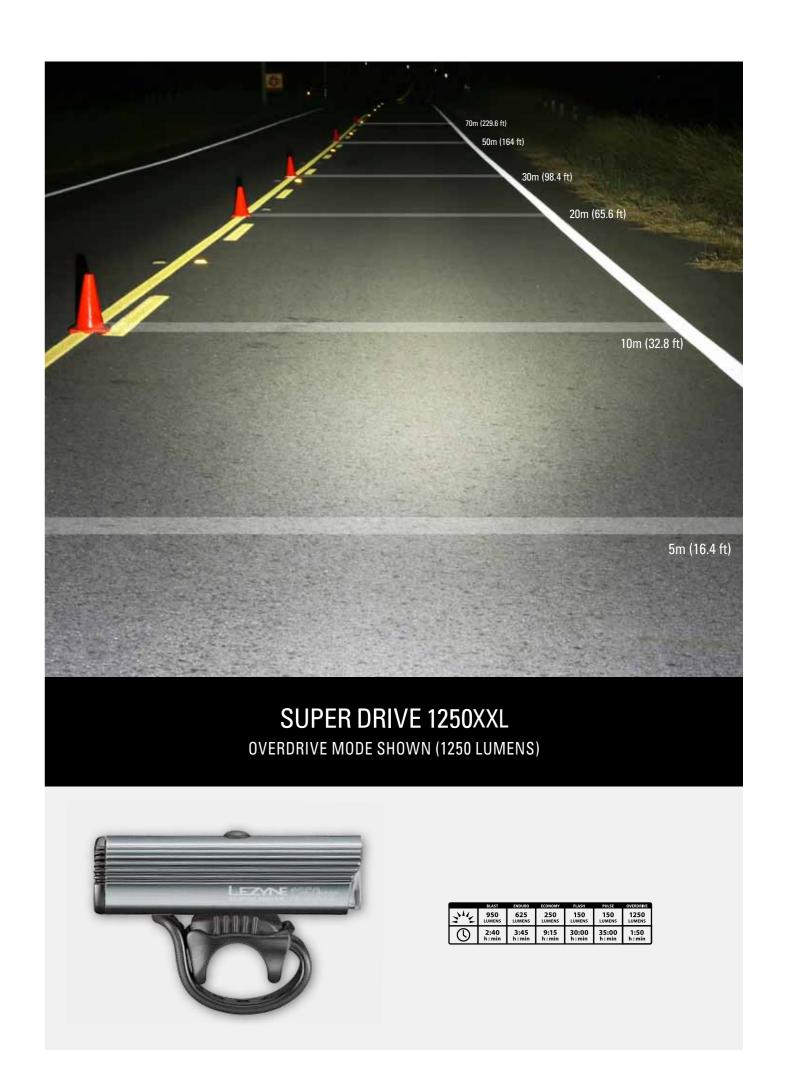
Integrating Sphere: An optical component consisting of a hollow spherical cavity with its interior covered with a diffuse white reflective coating, with small holes for entrance and exit ports. It's with a light source and a detector for optical power measurement

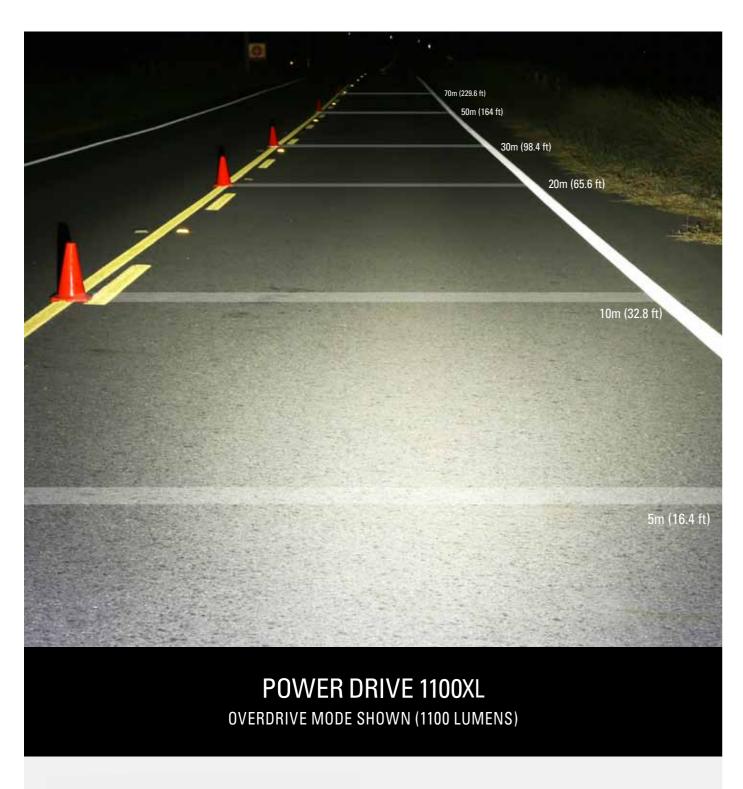
VIDEO LINK: Lezyne's Integrating Sphere - How we test lights



Left to right, top to bottom: Every Lezyne LED begins as a 3D model created by one of our engineers. | The first prototypes are fabricated in our 3D printer. | One of our electrical engineers, Greg Chavoor, assembling a prototype by hand. | An exposed Super Drive 1200XXL reveals an intricate network of electronics. | Outside, real-world testing a finished prototype. | A Power Drive 600XL being verified in our integrating sphere.



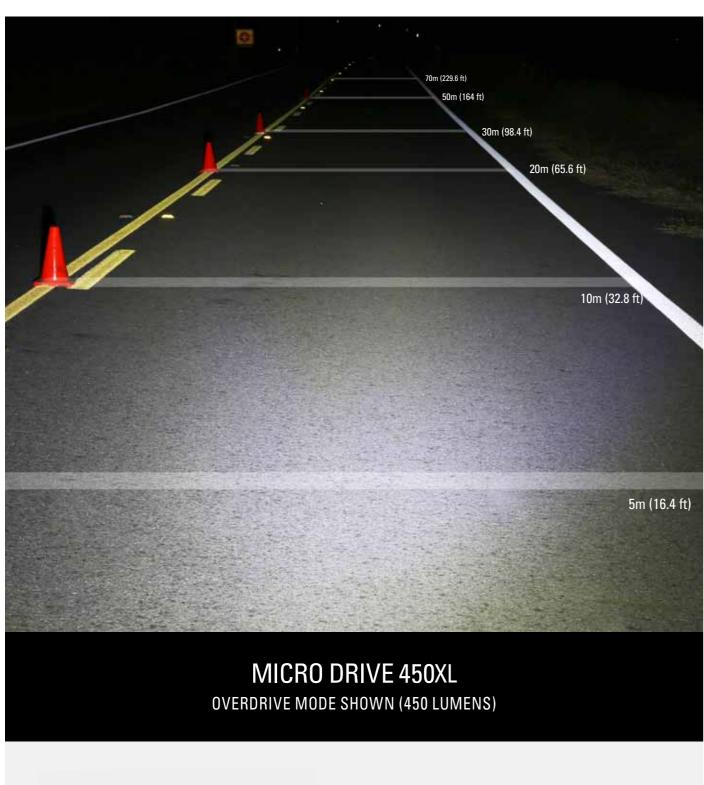






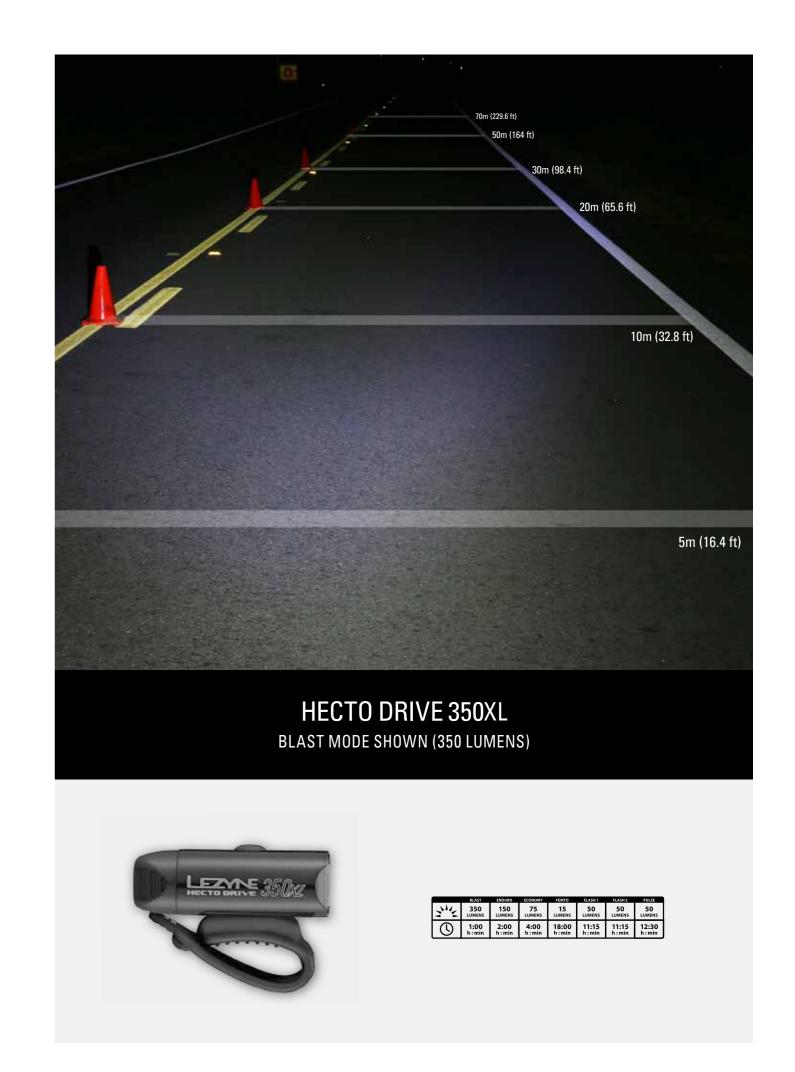
	BLAST	ENDURO	ECONOMY	FLASH	PULSE	OVERDRIVE
31/5	650 LUMENS	450 LUMENS	150 LUMENS	150 LUMENS	150 LUMENS	1100 LUMENS
(0)	1:45 h:min	2:40 h:min	8:15 h:min	16:00 h:min	19:00 h:min	1:15 h:min







	ENDURO	ECONOMY	FEMTO	FLASH 1	FLASH 2	PULSE	OVERDRIVE
300	150	75	15	75	75	75	450
UMENS	LUMENS	LUMENS	LUMENS	LUMENS	LUMENS	LUMENS	LUMENS
1:30	2:30	5:15	25:00	10:00	10:00	10:00	1:00
n:min	h:min	h:min	h:min	h:min	h:min	h:min	h:min



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