

VersaTEK Large LED OFF-Roadway Series



Versatility by Design

The VersaTEK OFF-Roadway Series provides elite performance illumination & safety for a wide range of offset roadway, interstate highway applications & more, while significantly reducing infrastructure expenses over the installed life of the system.

Providing a safety-focused solution for the drivers on your busy roads & highways and the crews that install & maintain the luminaires year round. VersaTEK's OFF-Roadway Series performance optics with the ability to tilt for maximum coverage & uniformity makes our roads & highways safer for all during any nighttime driving condition.

Required pole counts are significantly reduced thanks to wider on-center spacing & broad multi-lane coverage. Expensive pipe & wire costs are reduced by eliminating the use of secondary pole arms. Resulting in ~70-80%+ in combined energy & maintenance savings and reduced infrastructure costs over the full installed life.

An optional tool-free removable 'Power Door' provides added safety & even more maintenance savings. All serviceable electrical components can be removed and replaced in less than 15 seconds. Keeping field maintenance time in a lift truck on a busy freeway and a pole's downtime to an absolute minimum for everyone's safety.

Key Features, Details & Specs

- 27,606 to 65,674 lumens w/ efficacies up to 191 LPW
- True 400-1000+ watt HID replacement (70%+ energy savings)
- Performance Selector option for field adjustment of wattage & lumens
- LEOLink ILS™ Intelligent Lighting System & wireless 'NB01P' smart controller option
- Next-gen performance LED platform, Site & Area, Roadway optics & shielding
- 2700K, 3000K, 4000K & 5000K CCT options available
- Weighs only 27-29 lbs. for safe single person installation
- Tool-free access with optional tool-free removable 'Power Door'
- 10kV integral surge standard, 20kV extreme surge option available
- Entire luminaire & optical assembly is rated IP66
- 50°C (122°F) high-ambient rating is standard
- Pass-thru convective cooling & integral thermal heatsink design
- A360 die-cast low copper content alloy (< 0.6%)
- 5,000-hour salt spray finish standard (coastal finish available)
- 3G vibration rated suitable for high winds, overpasses, bridges, etc.
- Tested before & after rigorous 2-hour burn-in cycle
- BAA compliant, BABA option available, assembled in the USA (San Jose, CA)
- LEOTEK factory 10-year warranty is standard



'SF' slipfitter mount

Typical Applications

Interstate Highways
Municipal Streets
Toll Plazas & Weigh Stations
On/Off Ramps
Rest Areas & General Parking
Military Bases
Business Parks & Campuses
Bridges & Overpasses

Integral Tool-Free Access Design

Tool-free electrical access & removable hinged door w/ fixed open door prop design for ease of installation or maintenance (compatible w/ most lineman safety gloves)



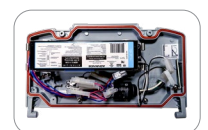
Hassle Free Installation & Maintenance Features

Optional terminal block, a self-centering tenon mount 'star' design assists with leveling to a tenon and a retrofit friendly quick mount pole arm (pole arm mount retrofits up to 5.25" bolt spacing for easy single person no drill install)



Tool-Free Removable Power Door Option

All serviceable electrical components mounted to a Power Door that is accessed & removable without tools in less than 15 seconds (undo MOLEX connectors, push two spring clips to unlock door, slide forward to remove)



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'MAF' mast arm fitter mount

Ordering Information

Sample Catalog No. VTJOR-144A-MV-50K7-WR-GY-P7-MAF-PCR7CR-TB-SP2-WL1-PWRD-SF277-BABA

Product*	LED Code	Voltage	Color Temp CRI	Optical Distribution	Finish*	Performance Code*	Mounting Options
VTJOR VersaTEK Large OFF-Roadway	144A 144 LEDs Gen-A	MV 120-277V HV 347-480V	27K7 2700K, 70CRI 30K7 3000K, 70CRI 40K7 4000K, 70CRI 50K7 5000K, 70CRI 30K8¹ 3000K, 80CRI 40K8¹ 4000K, 80CRI 50K8¹ 5000K, 80CRI	NR Narrow Roadway MR Medium Roadway WR Wide Roadway T2R Type-2R T2F Type-2F T3R Type-3R T3F Type-3F T4R Type-4R T4F Type-4F T5 Type-5 ORR Optics Rotated Right ORL Optics Rotated Left	BK Black DB1 Dark Bronze WH (RAL8019) GY White Gray CF Coastal Finish *Consult factory for custom finish options, pricing & leadtimes.	P1 P2 P3 P4 P5 P6 P7 *Refer to spec sheet for details	SF² Slipfitter w/ Wire Leads (in UL splice compartment) SFH³ Slipfitter w/ S/O Cord Exiting Housing Bottom (3-wire S/O cord, 16AWG, 4' exit length) SFC³ Slipfitter w/ S/O Cord Exiting Center of Fitter (3-wire S/O cord, 16AWG, 4' exit length) SPM Universal Square Pole Arm Mount RPM Universal Round Pole Arm Mount MAF Horizontal Mast Arm Fitter (compatible w/ 1-5/8", 2-3/8" and 3" O.D. tenons) ASPM Universal Square Pole Adjustable Arm Mount ARPM Universal Round Pole Adjustable Arm Mount

*If Build America, Buy America Act (BABA) compliance is required, please refer to 'BABA Domestic Build Option' located under 'General Options' and refer to footnote #19 for additional details.

Driver* & Control Options (*0-10V drivers are standard)	General Options	General Accessories*
D4I^{4,8} DALI D4i Driver TLR4U^{4,5,8} DALI 4-PIN Twist Lock Receptacle (upper housing receptacle location) TLR4L^{4,5,8} DALI 4-PIN Twist Lock Receptacle (lower driver door receptacle location) PCR7CR^{4,10} ANSI 7-wire Control Ready Receptacle SC Shorting Cap (factory installed) LLPC⁶ Long Life Photocontrol PS⁷ Field Adjustable Performance Selector PND1⁸ Part Night Dimming V1 PND2⁸ Part Night Dimming V2 PND3⁸ Part Night Dimming V3 MSL3^{9,10} Motion Sensor w/ L3 Lens MSL7^{9,10} Motion Sensor w/ L7 Lens MSL3P^{9,11} Motion Sensor w/ L3 Lens w/ PCR7 MSL7P^{9,11} Motion Sensor w/ L7 Lens w/ PCR7 LEOLink ILS™ Intelligent Lighting System¹² * See VTJOR specification sheet for LEOLink ordering & system details * (refer to LEOLink ILS specification sheets for complete specification & ordering information)	AIM45¹³ Slipfitter Factory Pre-aimed at 45° SS Slipfitter Set Screw (replaces standard slipfitter set bolts) TFL Tamper free latch (driver electrical door) TB² 3-position Terminal Block SP2¹⁴ 20kV/10kA Extreme Surge, Fail-to-On LSSP2 20kV/10kA Extreme Surge, Fail-to-Off WL Wattage Label, ANSI C136.15-2015 compliant WL1 Wattage Label, ANSI C136.15-2020 compliant DSC Optional Driver Door Safety Cable PWRD Power Door Option (tool-free removable door w/ serviceable electrical items) SFXXX¹⁵ Single Fuse ('XXX' = specify 120, 277, 347V) DFXXX¹⁵ Double Fuse ('XXX' = specify 208, 240, 480V) 5WSO¹⁶ 5-wire S/O Cord (16AWG, 4' length w/ dimming leads) SOXXXYY¹⁷ Special S/O AWG & Cord Length in Feet ('XX' = specify AWG 12, 14 or 16) ('YY' = specify S/O cord length 06, 08, 10, 15, 25) BLS¹⁸ Enhanced Back Light Shield (factory installed) VHS 80 Degree Cutoff Shield (factory installed) FSS¹⁸ Front Side Shield (factory installed) CSS¹⁸ Cul-de-sac Shield (factory installed) BABA¹⁹ Build America, Buy America Act Compliant (meets Oct. 1, 2026 final US assembly, 55% content material requirements)	Shield Accessories TBS-VTL Top, Bottom Shield LRS-VTL Left, Right Side Shield 4SS-VTL 4-sided Shield BDS-VTL Barn Door Shield VS-VTL Poly Vandal Shield WG-VTL Wire Guard BLS-VTL¹⁸ Enhanced Backlight Shield (snap-on) VHS-VTL 80-Degree Cutoff Shield (snap-on) FSS-VTL¹⁸ Front Side Shield (snap-on) CSS-VTL¹⁸ Cul-de-sac Shield (snap-on) ('XXA' = specify 36A or 72A LED Code) BSK Bird Deterrent Spider Kit Controls Accessories LLPCMV Long Life Photocontrol MV LLPCHV Long Life Photocontrol HV FSIR100 MS Configuration Tool *Accessories are ordered & shipped separately, not to be included in the luminaire's catalog number. (requires field installation)

1. 80CRI option only available in 3000K, 4000K & 5000K CCTs and may have longer leadtimes (contact factory).
2. 'TB' Terminal Block is not available for use with the 'SF' Slipfitter mounting option. 3. 'SFH' & 'SFC' options include 16AWG 3-wire S/O cord w/ a 4' exit length & last 6" of insulation removed.
4. For full 100% DALI functionality a 'PCR7CR', 'TLR4U' or 'TLR4L' must be selected w/ 'D4I' DALI driver option. DALI compatible node or sensor (by others). 'D4I' DALI driver not compatible w/ 'NB01P05/10' smart controller.
5. 'TLR4U' & 'TLR4L' twist lock receptacle options require 'D4i' driver option to be selected.
6. 'LLPC' requires 'PCR7CR' option to be selected (does not ship installed, included w/ luminaire). 7. 'PS' Performance Selector enables field adjustable light output dimming control from specified Performance Code, not compatible with DALI driver option.
8. 'PND' options only available w/ 'MV' 120-277V (contact factory for 'HV' 347-480V availability). 9. Motion Sensor options only available w/ 'SPM', 'RPM' and 'MAF' horizontal mounting options.
10. 'MSL3', 'MSL7' motion sensors require secondary controls for ON/OFF capability (ex. time clock or 0-10V by others). Contact factory for Motion Sensor availability w/ 'PCR7CR' control ready receptacle for use with wireless 7-PIN control node (by others).
11. 'MSL3P', 'MSL7P' motion sensors include a PCR7 photocontrol receptacle for use with a twist lock photocontrol for ON/OFF capability (for use with our 'LLPC' or photocontrol by others, PINs 6 & 7 are not wired for controls, not compatible w/ wireless nodes).
12. 'NB01P05/10' requires 'PCR7CR' option, only available in 'MV' 120-277V (contact factory for 'HV' 347-480V). 'NB01P05/10' is a cellular based NEMA 7-PIN Smart Controller, RenAI subscription and network data plan required (see spec sheet for details).
13. Slipfitter options 'SF', 'SFC', 'SFH' ship pre-aimed at 45° from the factory if 'AIM45' is specified. 14. 10kV/5kA surge, fail-to-on is included standard ('SP1'). 15. For single or double fusing, 'XXX' must specify required voltage.
16. '5WSO' only available with 'SFC' & 'SFH' options. Not available w/ 'PCR7CR', 'PS', 'PND', 'D4I', 'TLR4U', 'TLR4L' options. 17. 'SOXXXYY' option, 'XX' & 'YY' must specify S/O cord AWG & length (only available w/ SO cord mounting options).
18. 'BLS-VTL', 'FSS-VTL' and 'CSS-VTL' shields are not available for use with the 'T5' Type-5 optical distribution.
19. 'BABA' option must be specified to meet Oct. 1, 2026 Build America, Buy America Act (BABA) guidelines. Failure to specify the 'BABA' ordering code will result in receiving non-BABA compliant product (w/ no recourse for an RMA, product exchange or refund).

Nominal Performance Data 4000K & 5000K

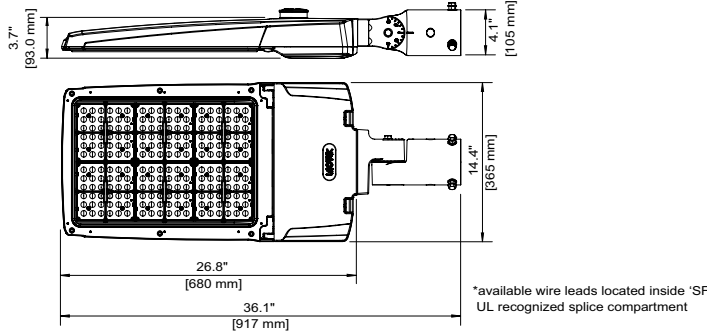
(IES Type-2R optic, 70CRI, standard IK10 rated glass lens, 25°C ambient)

Performance Code	P1	P2	P3	P4	P5	P6	P7
Lumens¹	34,402	39,347	48,463	52,922	57,295	61,580	65,674
System Wattage (W)	180	211	263	290	317	345	373
Efficacy (Lm/W)	191	186	184	182	181	178	176
HID Replacement	400-750W		1000W		1000W+		

1. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance and ambient temperatures.

'SF' Slipfitter Mount Dimensions

(5-wire leads in UL splice compartment, shown w/ optional 'PCR7')



* Please refer to VersaTEK product specification sheets for additional ordering information & product details *



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All specifications are subject to change without notice and all reported values are nominal/typical measured under lab conditions @ 25° C (77° F).

VTJOR Sell Sheet 10-1-26 V8