

VersaTEK Large LED OFF-Roadway Series



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

- 29,000 to 65,500 lumens w/ efficacies up to 194 LPW
- True 400-1000+ watt HID replacement (70%+ energy savings)
- Performance Selector option for field adjustment of wattage & lumens
- High performance Site & Area, Roadway optics & shield options
- 2700K, 3000K, 4000K & 5,000K CCT options available
- Weighs only 30-35 lbs. for safe single person installation
- 6kV integral surge standard, 10kV & 20kV surge options 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*)
- All exposed fasteners are stainless steel & captive
- 3G vibration rated suitable for high winds, overpasses, bridges, etc.
- Tool-free access w/ optional tool-free removable 'Power Door'
- Tested before & after rigorous 2-hour burn-in cycle
- Assembled in the USA at LEOTEK's San Jose, CA facility



'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. VT-LOR-216A-MV-50K7-WR-GY-P7-SFC-D4I-PCR7-TB-SP2-WL1-PWRD-SF277

Product	LED Code	Voltage	Color Temp	Optical Distribution	Finish*	Performance Code	Mounting Options ^{1,3}
VT-LOR VersaTEK Large OFF-Roadway	216 LEDs Gen-A	MV 120-277V HV 347-480V	27K7 2700K, 70CRI	NR Narrow Roadway	BK Black	P1	SF ² Slipfitter w/ 5-Wire Leads (in UL splice compartment)
			30K7 3000K, 70CRI	MR Medium Roadway	DB1 Dark Bronze (RAL8019)	P2	SFH ² Slipfitter w/ S/O Cord Exiting Housing Bottom
			40K7 4000K, 70CRI	WR Wide Roadway	WH White	P3	SFC ² Slipfitter w/ S/O Cord Exiting Center of Fitter
			50K7 5000K, 70CRI	T2R Type-2 (regular)	GY Gray	P4	SPM Universal Square Pole Arm Mount
			30K8 ¹ 3000K, 80CRI	T2F Type-2 (forward)	NA Natural	P5	RPM Universal Round Pole Arm Mount
			40K8 ¹ 4000K, 80CRI	T3R Type-3 (regular)	Aluminum	P6	MAF Horizontal Mast Arm Fitter (compatible w/ 1-5/8", 2-3/8" and 3" O.D. tenons)
			50K8 ¹ 5000K, 80CRI	T3F Type-3 (forward)	CF Coastal Finish	P7 (see Page 3 for details)	ASPM Universal Square Pole Adjustable Arm Mount
				T4R Type-4 (regular)			ARPM Universal Round Pole Adjustable Arm Mount
				T4F Type-4 (forward)			
				T5 Type-5			
				AFR Auto Front Row			
				ORR Optics Rotated Right			
	ORL Optics Rotated Left						

*Consult factory for custom finish options, pricing & leadtimes.

Driver & Control Options		General Options		General Accessories*	
D4I ³	DALI D4i Driver	AIM45 ⁹	Slipfitter Factory Pre-aimed at 45°	TBS-VTL	Top, Bottom Shield
PCR7	ANSI 7-wire Photocontrol Receptacle	TFL	Tamper free latch (driver electrical door)	LRS-VTL	Left, Right Side Shield
PCR7CR ^{3,6}	ANSI 7-wire Control Ready Receptacle	TB	3-position Terminal Block	4SS-VTL	4-sided Shield
TLR4U ^{3,4}	DALI 4-PIN Twist Lock Receptacle (upper housing receptacle location)	SP1	10kV/5kA Surge, Fail-to-On	BDS-VTL	Barn Door Shield
TLR4L ^{3,4}	DALI 4-PIN Twist Lock Receptacle (lower driver door receptacle location)	SP2	20kV/10kA Extreme Surge, Fail-to-On	VS-VTL	Poly Vandal Shield
LLPC ⁵	Long Life Photocontrol	LSSP2	20kV/10kA Extreme Surge, Fail-to-Off	WG-VTL	Wire Guard
PS ⁶	Field Adjustable Performance Selector	WL	Wattage Label, ANSI C136.15-2015 compliant	BLS-VTL	Enhanced Backlight Shield
PND1 ⁷	Part Night Dimming V1	WL1	Wattage Label, ANSI C136.15-2020 compliant	FSS-VTL	Front Side Shield
PND2 ⁷	Part Night Dimming V2	DSC	Optional Driver Door Safety Cable	CSS-VTL	Cul-de-sac Shield
PND3 ⁷	Part Night Dimming V3	SC	Shorting Cap (factory installed)	BSK	Bird Deterrent Spider Kit
MSL3 ⁸	Motion Sensor w/ L3 Lens	PWRD	Power Door Option (tool-free removable door w/ serviceable electrical items)	LLPCMV	Long Life Photocontrol MV
MSL7 ⁸	Motion Sensor w/ L7 Lens	SFXXX ¹⁰	Single Fuse ('XXX' = specify 120, 277, 347V)	LLPCHV	Long Life Photocontrol HV
		DFXXX ¹⁰	Double Fuse ('XXX' = specify 208, 240, 480V)	FSIR100	MS Configuration Tool
		5WSO ¹¹	5-wire S/O Cord (16AWG, 4' length)		
		SOXXYY ¹²	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)		
		BLS	BLS = Enhanced Back Light Shield (factory installed)		
		FSS	FSS = Front Side Shield (factory installed)		
		CSS	CSS = Cul-de-sac Shield (factory installed)		

*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. Mounting option includes 16AWG 3-wire S/O cord with a 4' exit length w/ last 6" of insulation removed. 3. For full 100% D4i DALI functionality a 'PCR7CR', 'TLR4U' or 'TLR4L' must also be selected with 'D4I' DALI driver option. DALI compatible node or sensor (by others). 4. 'TLR4U' & 'TLR4L' twist lock receptacle options requires 'D4I' driver option to be selected. 5. 'LLPC' requires 'PCR7' option to be selected (does not ship installed, included w/ luminaire). 6. 'PS' Performance Selector enables field adjustable light output control (specified Performance Code is factory set). 'PS' is not compatible w/ 'PCR7CR' option. 7. 'PND' options only available w/ 'MV' 120-277V (contact factory for 'HV' 347-480V availability). 8. Motion Sensor options only available w/ 'SPM', 'RPM' and 'MAF' mounting options. Contact factory for sensor and 'PCR7CR' compatibility if both are required. 9. Slipfitter options ship pre-aimed at 45° from the factory if specified. 10. For single or double fusing, 'XXX' must specify required voltage. 11. '5WSO' only available with 'SFC' & 'SFH' options. 12. 'SOXXYY' option, 'XX' & 'YY' must specify S/O cord AWG & length.

PRELIMINARY Nominal Performance Data 4000K & 5000K

All data shown is preliminary and nominal and not yet final

Performance Code	P1	P2	P3	P4	P5	P6	P7
Lumens ¹ (T2R, 70CRI)	35,253	39,035	47,652	52,114	55,560	60,520	65,563
Field Adjustable Range ²	← →		← →		← →		
System Wattage (W)	182	206	261	293	316	347	376
Efficacy (Lm/W)	194	189	183	178	176	174	174
HID Replacement	400-750W		1000W			1500W+	

1. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance and ambient temperatures. 2. Performance codes are available in two output ranges for field adjustability if specified, as shown in the performance table. Initial output is set at the factory per the specified Performance Code.

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

'SF' Slipfitter Mount Dimensions

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

