LEOTEK®

VersaTEK Large
LED OFF-Roadway Series

IP66 | **3G RATED** | **10 YEAR LIMITED WARRANTY** | **0-10V DIMMABLE** | **D4** | **Assembled in the U.S.A.** | **c(UL)us LISTED**

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

- 30,000 to 65,000+ lumens w/ efficacies up to 190+ LPW
- True 400-1000+ watt HID replacement *(70%+ energy savings)*
- Performance Selector option for field adjustment of wattage & lumens
- Next-gen performance LED platform, Site & Area, Roadway optics & shielding
- 2700K, 3000K, 4000K & 5,000K CCT options available
- Weighs only 30-35 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)*
- All exposed fasteners are stainless steel & captive
- 3G vibration rated suitable for high winds, overpasses, bridges, etc.
- 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
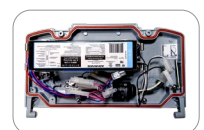*(compatible w/ most lineman safety gloves)*

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)

VersaTEK Large
LED OFF-Roadway Series

'MAF' mast arm fitter mount

Ordering Information

Sample Catalog No. VTLOR-216A-MV-50K7-WR-GY-P7-SFC-D4I-PCR7CR-TB-SP2-WL1-PWRD-SF277

Product	LED Code	Voltage	Color Temp CRI		Optical Distribution		Finish*		Performance Code	Mounting Options	
VTLOR VersaTEK Large OFF-Roadway	**216A** 216 LEDs Gen-A	**MV** 120-277V **HV** 347-480V	**27K7** 2700K, 70CRI **30K7** 3000K, 70CRI **40K7** 4000K, 70CRI **50K7** 5000K, 70CRI **30K8**[1] 3000K, 80CRI **40K8**[1] 4000K, 80CRI **50K8**[1] 5000K, 80CRI		**NR** Narrow Roadway **MR** Medium Roadway **WR** Wide Roadway **T2R** Type-2 (regular) **T2F** Type-2 (forward) **T3R** Type-3 (regular) **T3F** Type-3 (forward) **T4R** Type-4 (regular) **T4F** Type-4 (forward) **T5** Type-5 **ORR** Optics Rotated Right **ORL** Optics Rotated Left		**BK** Black **DB1** Dark Bronze (RAL8019) **WH** White **GY** Gray **NA**[2] Natural Aluminum **CF**[2] Coastal Finish *Consult factory for custom finish options, pricing & leadtimes.		**P1** **P2** **P3** **P4** **P5** **P6** **P7** (see Page 3 for details)	**SF**[3] Slipfitter w/ Wire Leads (in UL splice compartment) **SFH**[4] Slipfitter w/ S/O Cord Exiting Housing Bottom (3-wire S/O cord, 16AWG, 4' exit length) **SFC**[4] 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	

Driver & Control Options

D4I[5]	DALI D4i Driver
TLR4U[5,6]	DALI 4-PIN Twist Lock Receptacle (upper housing receptacle location)
TLR4L[5,6]	DALI 4-PIN Twist Lock Receptacle (lower driver door receptacle location)
PCR7CR[5,11]	ANSI 7-wire Control Ready Receptacle
SC	Shorting Cap (factory installed)
LLPC[7]	Long Life Photocontrol
PS[8]	Field Adjustable Performance Selector
PND1[9]	Part Night Dimming V1
PND2[9]	Part Night Dimming V2
PND3[9]	Part Night Dimming V3
MSL3[10,11]	Motion Sensor w/ L3
MSL7[10,11]	Motion Sensor w/ L7
MSL3P[10,12]	Motion Sensor w/ L3 Lens w/ PCR7
MSL7P[10,12]	Motion Sensor w/ L7 Lens w/ PCR7

General Options

AIM45[13]	Slipfitter Factory Pre-aimed at 45°
SS	Slipfitter Set Screw (replaces standard slipfitter set bolts)
TFL	Tamper free latch (driver electrical door)
TB[3]	3-position Terminal Block
SP2	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)
SFXXX[14]	Single Fuse ('XXX' = specify 120, 277, 347V)
DFXXX[14]	Double Fuse ('XXX' = specify 208, 240, 480V)
5WSO[15]	5-wire S/O Cord (16AWG, 4' length)
SOXXYY[16]	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	Enhanced Back Light Shield (factory installed)
FSS	Front Side Shield (factory installed)
CSS	Cul-de-sac Shield (factory installed)

General Accessories*

TBS-VTL	Top, Bottom Shield
LRS-VTL	Left, Right Side Shield
4SS-VTL	4-sided Shied
BDS-VTL	Barn Door Shield
VS-VTL	Poly Vandal Shield
WG-VTL	Wire Guard
BLS-VTL	Enhanced Backlight Shield
FSS-VTL	Front Side Shield
CSS-VTL	Cul-de-sac Shield
BSK	Bird Deterrent Spider Kit
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. Contact factory for 'NA-CF' Natural Aluminum Coastal Finish availability (extended leadtimes may apply).

3. 'TB' Terminal Block is not available for use with the 'SF' Slipfitter mounting option.   4. 'SFH' & 'SFC' options include 16AWG 3-wire S/O cord w/ a 4' exit length & last 6" of insulation removed.

5. For full 100% D4i DALI functionality a 'PCR7CR', 'TLR4U' or 'TLR4L' must be selected w/ 'D4I' DALI driver option. DALI compatible node or sensor (by others).   6. 'TLR4U' & 'TLR4L' twist lock receptacle options requires 'D4I' driver option to be selected.

7. 'LLPC' requires 'PCR7CR' option to be selected (does not ship installed, included w/ luminaire).   8. 'PS' Performance Selector enables field adjustable light output dimming control from the specified Performance Code (see table on pg.3 for details).

9. 'PND' options only available w/ 'MV' 120-277V (contact factory for 'HV' 347-480V availability).   10. Motion Sensor options only available w/ 'SPM', 'RPM' and 'MAF' horizontal mounting options.

11. '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).

12. 'MSL3P', 'MSL7P' motion sensors includes 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).

13. Slipfitter options ship pre-aimed at 45° from the factory if specified.   14. For single or double fusing, 'XXX' must specify required voltage.   15. '5WSO' only available with 'SFC' & 'SFH' options. Not available w/ 'PCR7CR', 'PS', 'PND', 'D4I', 'TLR4U', 'TLR4L' options.

16. 'SOXXYY' option, 'XX' & 'YY' must specify S/O cord AWG & length.
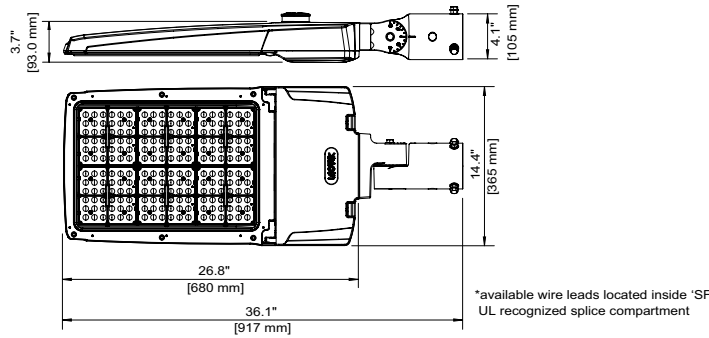
Nominal Performance Data 4000K & 5000K
(IES Type-2R optic, 70CRI, 25°C ambient)

Performance Code	P1	P2	P3	P4	P5	P6	P7
Lumens[1]	34,402	39,347	48,464	52,923	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			1500W+

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')

3.7" [93.0 mm]
4.1" [105 mm]
14.4" [365 mm]
26.8" [680 mm]
36.1" [917 mm]

*available wire leads located inside 'SF' UL recognized splice compartment

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

LEOTEK

LEOTEK
1955 Lundy Ave., San Jose, CA, 95131
1.408.380.1788   www.LEOTEK.com   orders@leotek.com

© 2024 LEOTEK Electronics USA LLC
All specifications are subject to change without notice and all reported values are nominal/typical measured under lab conditions @ 25° C (77° F).
VTLOR Sell Sheet 09-03-24 V2