

# 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*)
- 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)



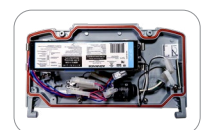
### Hassle Free Installation & Maintenance Features

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. VTJOR-216A-MV-50K7-WR-GY-P7-SFC-PCR7CR-NB01P-TB-SP2-WL1-PWRD-SF277

| Product                                | LED Code                  | Voltage                    | Color Temp CRI                 | Optical Distribution     | Finish*                   | Performance Code | Mounting Options                                                                                          |
|----------------------------------------|---------------------------|----------------------------|--------------------------------|--------------------------|---------------------------|------------------|-----------------------------------------------------------------------------------------------------------|
| VTJOR<br>VersaTEK Large<br>OFF-Roadway | 216A<br>216 LEDs<br>Gen-A | MV 120-277V<br>HV 347-480V | 27K7 2700K, 70CRI              | NR Narrow Roadway        | BK Black                  | P1               | SF <sup>2</sup> Slipfitter w/ Wire Leads (in UL splice compartment)                                       |
|                                        |                           |                            | 30K7 3000K, 70CRI              | MR Medium Roadway        | DB1 Dark Bronze (RAL8019) | P2               | SFH <sup>3</sup> Slipfitter w/ S/O Cord Exiting Housing Bottom (3-wire S/O cord, 16AWG, 4' exit length)   |
|                                        |                           |                            | 40K7 4000K, 70CRI              | WR Wide Roadway          | WH White                  | P3               | SFC <sup>3</sup> Slipfitter w/ S/O Cord Exiting Center of Fitter (3-wire S/O cord, 16AWG, 4' exit length) |
|                                        |                           |                            | 50K7 5000K, 70CRI              | T2R Type-2R              | GY Gray                   | P4               | SPM Universal Square Pole Arm Mount                                                                       |
|                                        |                           |                            | 30K8 <sup>1</sup> 3000K, 80CRI | T2F Type-2F              | CF Coastal Finish         | P5               | RPM Universal Round Pole Arm Mount                                                                        |
|                                        |                           |                            | 40K8 <sup>1</sup> 4000K, 80CRI | T3R Type-3R              |                           | P6               | MAF Horizontal Mast Arm Fitter (compatible w/ 1-5/8", 2-3/8" and 3" O.D. tenons)                          |
|                                        |                           |                            | 50K8 <sup>1</sup> 5000K, 80CRI | T3F Type-3F              |                           | P7               | ASPM Universal Square Pole Adjustable Arm Mount                                                           |
|                                        |                           |                            |                                | T4R Type-4R              |                           |                  | ARPM Universal Round Pole Adjustable Arm Mount                                                            |
|                                        |                           |                            |                                | T4F Type-4F              |                           |                  |                                                                                                           |
|                                        |                           |                            |                                | T5 Type-5                |                           |                  |                                                                                                           |
|                                        |                           |                            |                                | ORR Optics Rotated Right |                           |                  |                                                                                                           |
|                                        |                           |                            |                                | ORL Optics Rotated Left  |                           |                  |                                                                                                           |

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

| Driver* & Control Options (*0-10V drivers are standard) |                                                                          | General Options       |                                                                                                                             | General Accessories*  |                                     |
|---------------------------------------------------------|--------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------|
| D4I <sup>4,7</sup>                                      | DALI D4i Driver                                                          | AIM45 <sup>13</sup>   | Slipfitter Factory Pre-aimed at 45°                                                                                         | Shield Accessories    |                                     |
| TLR4U <sup>4,5,7</sup>                                  | DALI 4-PIN Twist Lock Receptacle (upper housing receptacle location)     | SS                    | Slipfitter Set Screw (replaces standard slipfitter set bolts)                                                               | TBS-VTL               | Top, Bottom Shield                  |
| TLR4L <sup>4,5,7</sup>                                  | DALI 4-PIN Twist Lock Receptacle (lower driver door receptacle location) | TFL                   | Tamper free latch (driver electrical door)                                                                                  | LRS-VTL               | Left, Right Side Shield             |
| NB01P <sup>4,6</sup>                                    | LEOLink 7-PIN Smart Controller (120-277V)                                | TB <sup>2</sup>       | 3-position Terminal Block                                                                                                   | 4SS-VTL               | 4-sided Shield                      |
| PCR7CR <sup>4,11</sup>                                  | ANSI 7-wire Control Ready Receptacle                                     | SP2 <sup>14</sup>     | 20kV/10kA Extreme Surge, Fail-to-On                                                                                         | BDS-VTL               | Barn Door Shield                    |
| SC                                                      | Shorting Cap (factory installed)                                         | LSSP2                 | 20kV/10kA Extreme Surge, Fail-to-Off                                                                                        | VS-VTL                | Poly Vandal Shield                  |
| LLPC <sup>7</sup>                                       | Long Life Photocontrol                                                   | WL                    | Wattage Label, ANSI C136.15-2015 compliant                                                                                  | WG-VTL                | Wire Guard                          |
| PS <sup>8</sup>                                         | Field Adjustable Performance Selector                                    | WL1                   | Wattage Label, ANSI C136.15-2020 compliant                                                                                  | BLS-VTL <sup>18</sup> | Enhanced Backlight Shield (snap-on) |
| PND1 <sup>9</sup>                                       | Part Night Dimming V1                                                    | DSC                   | Optional Driver Door Safety Cable                                                                                           | VHS-VTL               | 80-Degree Cutoff Shield (snap-on)   |
| PND2 <sup>9</sup>                                       | Part Night Dimming V2                                                    | PWRD                  | Power Door Option (tool-free removable door w/ serviceable electrical items)                                                | FSS-VTL <sup>18</sup> | Front Side Shield (snap-on)         |
| PND3 <sup>9</sup>                                       | Part Night Dimming V3                                                    | SFXXX <sup>15</sup>   | Single Fuse ('XXX' = specify 120, 277, 347V)                                                                                | CSS-VTL <sup>18</sup> | Cul-de-sac Shield (snap-on)         |
| MSL3 <sup>10,11</sup>                                   | Motion Sensor w/ L3 Lens                                                 | DFXXX <sup>15</sup>   | Double Fuse ('XXX' = specify 208, 240, 480V)                                                                                | BSK                   | Bird Deterrent Spider Kit           |
| MSL7 <sup>10,11</sup>                                   | Motion Sensor w/ L7 Lens                                                 | 5WSO <sup>16</sup>    | 5-wire S/O Cord (16AWG, 4' length w/ dimming leads)                                                                         | Controls Accessories  |                                     |
| MSL3P <sup>10,12</sup>                                  | Motion Sensor w/ L3 Lens w/ PCR7                                         | SOXXXYY <sup>17</sup> | 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) | NB01PSS <sup>19</sup> | NB01P Ships Separately              |
| MSL7P <sup>10,12</sup>                                  | Motion Sensor w/ L7 Lens w/ PCR7                                         | BLS <sup>18</sup>     | Enhanced Back Light Shield (factory installed)                                                                              | LLPCM V               | Long Life Photocontrol MV           |
|                                                         |                                                                          | VHS                   | 80 Degree Cutoff Shield (factory installed)                                                                                 | LLPCHV                | Long Life Photocontrol HV           |
|                                                         |                                                                          | FSS <sup>18</sup>     | Front Side Shield (factory installed)                                                                                       | FSIR100               | MS Configuration Tool               |
|                                                         |                                                                          | CSS <sup>18</sup>     | Cul-de-sac Shield (factory installed)                                                                                       |                       |                                     |

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/ 'NB01P' smart controller.  
5. 'TLR4U' & 'TLR4L' twist lock receptacle options requires 'D4I' driver option to be selected.  
6. 'NB01P' requires 'PCR7CR' option, only available in 'MV' 120-277V (contact factory for 'HV' 347-480V availability). 'NB01P' is a cellular based NEMA 7-PIN Smart Controller, 10-YR data (200MB), RenAI subscription included.  
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 specified Performance Code, not compatible with DALI (see pg.4 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. 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-VTM', 'FSS-VTM' and 'CSS-VTM' shields are not available for use with the 'T5' Type-5 optical distribution. 19. Denotes 'NB01P' Smart Controllers will ship bulk or master pack and ships separately from the luminaire.

## Nominal Performance Data 4000K & 5000K

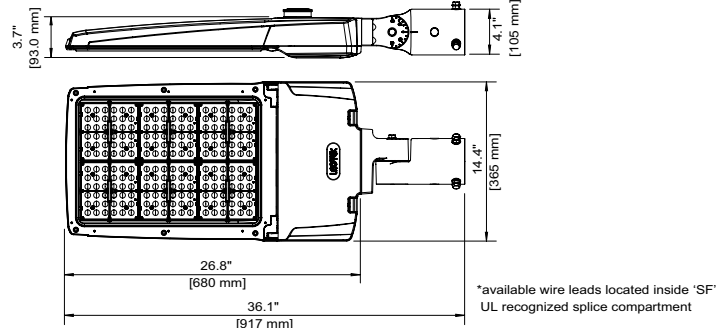
(NEMA 6x6 optic, 70CRI, standard IK10 rated glass lens, 25°C ambient)

| Performance Code    | P1       | P2     | P3     | P4     | P5     | P6     | P7     |
|---------------------|----------|--------|--------|--------|--------|--------|--------|
| Lumens <sup>1</sup> | 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 \*

