



DATE: LOCATION: TYPE: PROJECT: CATALOG #:

# VIPER L

LARGE VIPER LUMINAIRE

## FEATURES

- Large size companion to Viper Small
- Wide choice of different LED wattage configurations
- Ten optical distributions
- Designed to replace HD lighting up to 1000W MH or HPS
- Suitable for wet locations



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Manufactured with die cast aluminum
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3,000-hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds
- External hardware is corrosion resistant

### OPTICS

- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one-piece optical system
- One-piece silicone gasket ensures a weatherproof seal around each individual optic
- One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel

### INSTALLATION

- Mounting options for horizontal arm, vertical trim or traditional arm mounting available. Mounting hardware included

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## STRIKE



## RELATED PRODUCTS



### ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV)
- Power factor is > .90 at full load
- Dimming drivers are standard, but CD must be selected in options to obtain external wiring leads for dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC, 15A or higher 15A rating applies to primary (AC) side only
- Fixture electrical compartment contains all LED driver components
- Optional 7-pin ANSI C136.41-2013 Twist-Lock® photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices
- Ambient operating temperature -40°C to 25°C
- Surge protection: 20kA
- Lifespan: Circuit (see Electrical Data)

### CONTROLS

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration

KEY DATA	
Lumen Range	14,283-35,969
Wattage Range	64-395
Efficacy Range (LPW)	98-135
Reported Life (Hours)	L70>37,000
Input Current Range (Amps)	0.3-4.0

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## DELIVERED LUMENS

# of LEDs	DRIVE CURRENT (mA)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CR)			4K (4000K nominal, 70 CR)			3K (3000K nominal, 70 CR)					
				LUMENS	LPW	B U G	LUMENS	LPW	B U G	LUMENS	LPW	B U G			
				1A	18220	152	2	0	2	18783	157	2	0	2	19341

1. Lumen values are from photometric tests performed in accordance with IESNA LM-79-06. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.  
 2. 300W and 395W 3000K versions are not DLC QPL listed. Reference data only highlighted cells in table.

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## ORDERING GUIDE

Example: VPL-96L-280-4K-7W-UNV-A-DST-GEN1-04-BC

VPL Series	LED Engine	Color	Distribution	Rotation	Voltage
VPL Viper Large	64L-135 185W LED array 80L-180 260W LED array 80L-235 335W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-395 395W LED array	3K7 3000K, 70 CR 4K7 4000K, 70 CR 5K7 5000K, 70 CR	FR Type 1/8" Row 2 Type 2 3 Type 3 4F (formerly 4) Type 4 4W Type 4 Wide 50M Type 50W 50N Type 50N 5R Type 5R (rectangular) 5W Type 5W (round wide) TC Tennis Court CR Come Right CL Corner Left	Blank No rotation R Clock rotation 180° R Clock rotation right	UNV 120-277V 347 347V 480 480V

Mounting	Color	Control Options	Options
MAF Rectangular Arm (formerly RA) for square or round pole AD Universal Arm with adapter for 2.4"-4.1" round pole A33 Universal Arm with adapter for 4.2"-5.3" round pole A34 Universal Arm with adapter for 5.5"-5.9" round pole A35 Universal Arm with adapter for 6.0"-6.5" round pole	BLT Black Matte Textured BSL Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Gray Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VST Verde Gloss Textured CC Custom Color	NWVE NX Wireless Enabled (module + radio) NXSPW_LX No Wireless, PR Occ. Sensor, Daylight Harvesting NXSPF_NX NX, PR Occ. Sensor, Daylight Harvesting WIR Wireless Controls, wISCAPE Control Options: 7PFR 7-pin Receptacle only (pinning cap, photo control or wireless control provided by user) 7PFR-SC 7-pin Receptacle w/Shorting Cap 7PFR-TL 7-pin Receptacle w/Time-Lock® photo control SCP_LF Programmable Occupancy Sensor w/ daylight control GEN-XX ENERGEN® SWP SiteSync Pre-Commission SWP-LX SiteSync Pre-Commission w/ SiteSync	BC Backshell (available for FR, 2, 3, 4, 4W, 5R, 5W, 50M, 50N) CD Continuous Dimming FB Fishing TB Terminal Block

- House Side Shield Accessories**
  - HSS-EVPL-90-FB-XXX 90° shield front or back
  - HSS-EVPL-90-LR-XXX 90° shield left or right
  - HSS-EVPL-270-FB-XXX 270° shield front or back
  - HSS-EVPL-270-LR-XXX 270° shield left or right
  - HSS-EVPL-360-XXX Full shield
- Mounting Accessories**
  - VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
  - VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
  - VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
  - VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

- Accessories and Services (Ordered Separately)**
  - SCP-REMOTE Remote Control for SCP\_LF option. Order at least one per project to program and control the occupancy sensor
  - SWP-LX SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license software and USB radio bridge node
  - SWTAP-Wireless tablet and SiteSync interface software. Includes tablet with pre-installed software, SiteSync license and USB radio bridge node
  - SWBRG SiteSync USB radio bridge node only. Order if replacement is required of an in-site bridge node or replacement
  - SW7PFR SiteSync 7-pin future module OVDIM, Daylight Sensor 120-480VAC
  - BRD-SPR-04 Bird Scares
- Hubbell Control Solutions - Accessories (Sold Separately)**
  - NX-Distributed Intelligence™ On-Board Module (7-pin) On / Off / Dim, only includes SiteSync license software and USB radio bridge node
  - NX-DIM-IR-DIMV On-Board Module (7-pin) On / Off / Dim, only includes SiteSync license software and USB radio bridge node
  - wISCAPE™ Lighting Control On-Board Module (7-pin) On / Off / Dim, only includes SiteSync license software and USB radio bridge node
  - WIR-NREL On-Board Module (7-pin) On / Off / Dim, only includes SiteSync license software and USB radio bridge node

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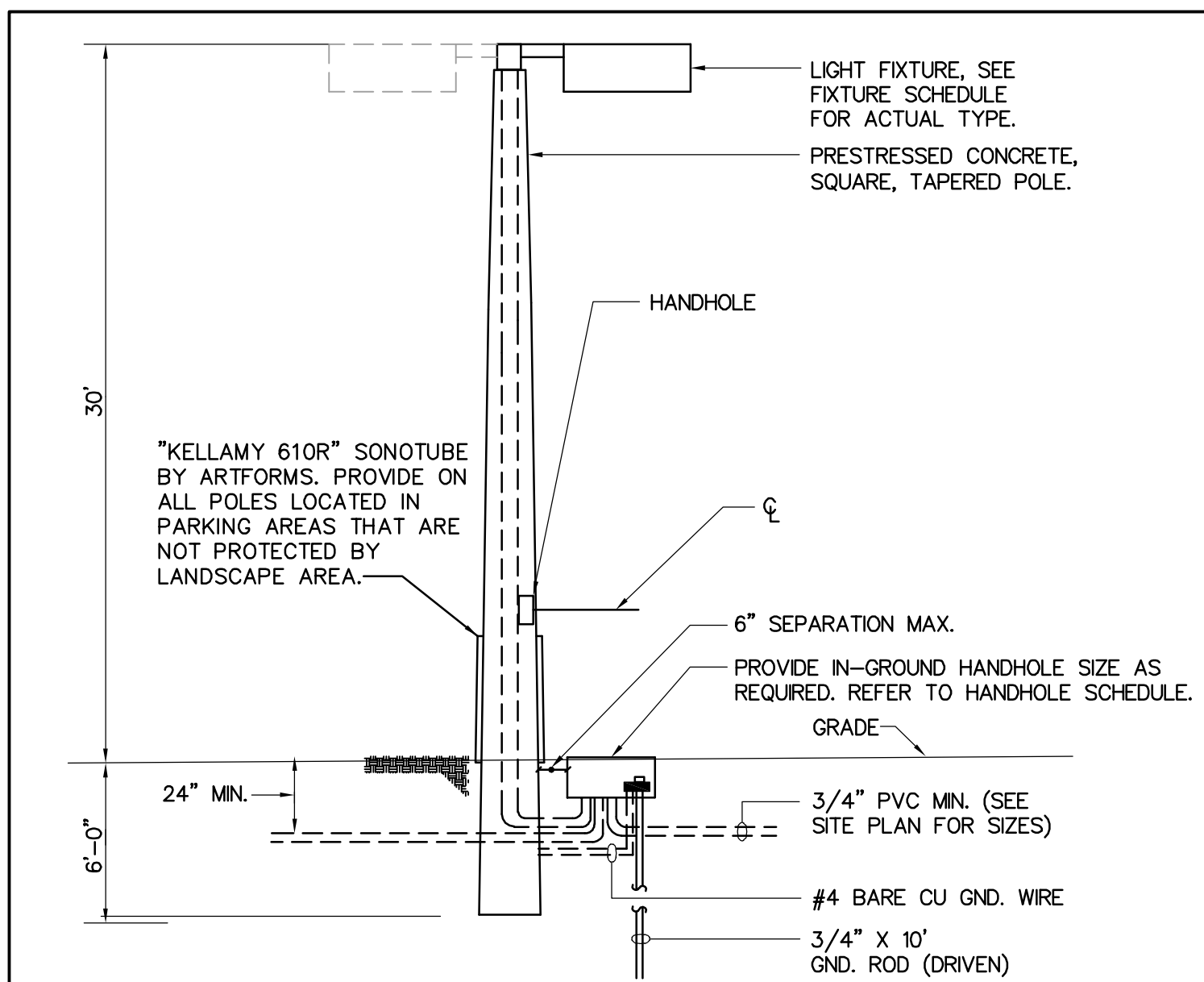
## DELIVERED LUMENS

# of LEDs	DRIVE CURRENT (mA)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CR)			4K (4000K nominal, 70 CR)			3K (3000K nominal, 70 CR)					
				LUMENS	LPW	B U G	LUMENS	LPW	B U G	LUMENS	LPW	B U G			
				1A	39569	100	3	0	4	43225	110	3	0	3	37518

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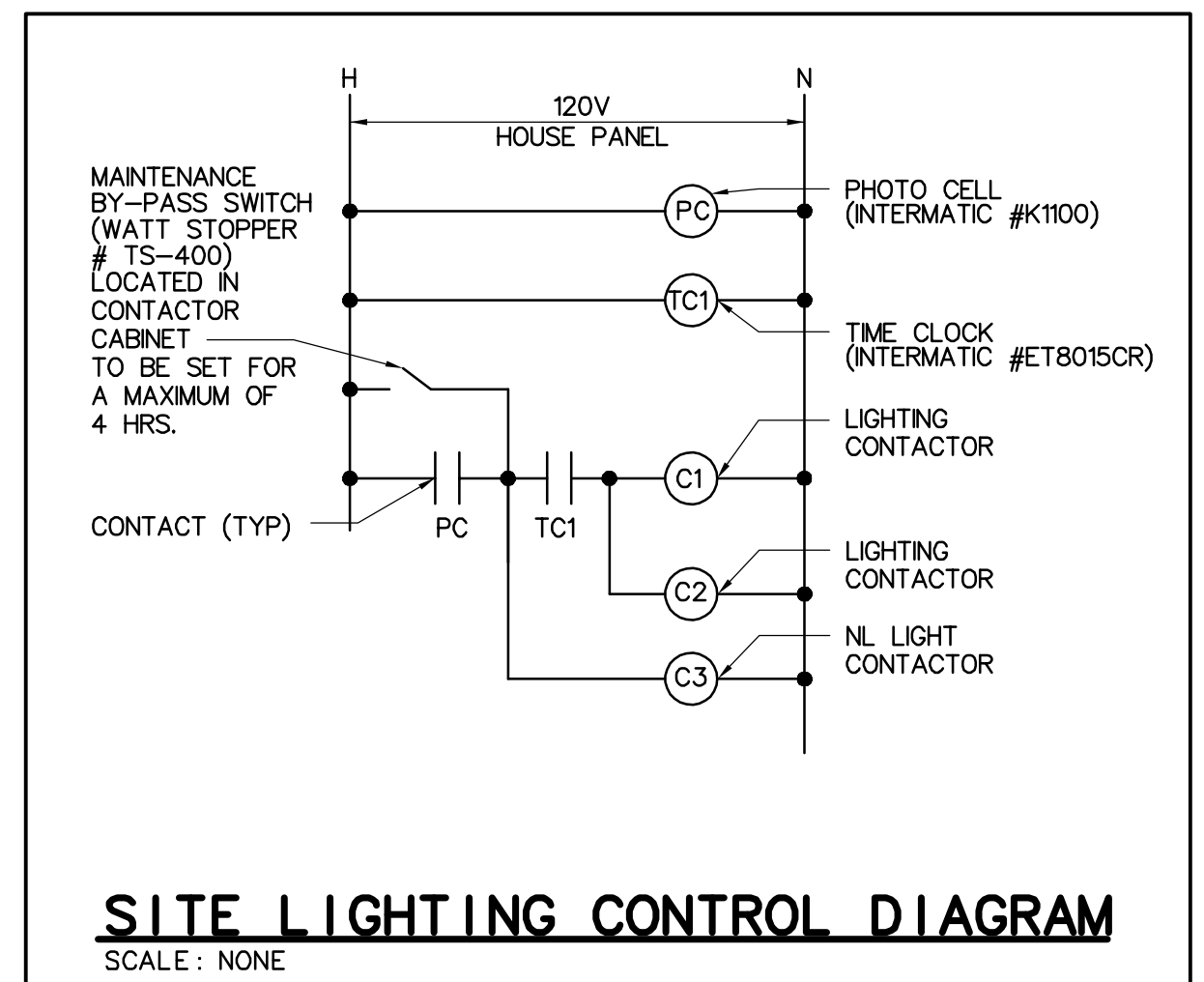


## PARKING LOT CONCRETE POLE DETAIL

SCALE: NONE

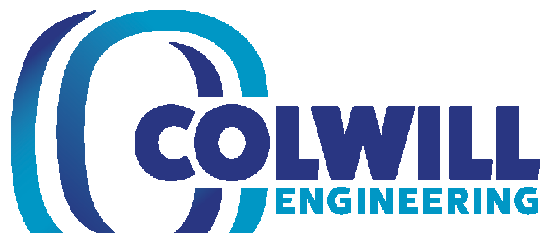
### GENERAL NOTES

- AT EACH POLE LOCATION, THE CONTRACTOR SHALL PROVIDE A 3/4"x10' COPPER CLAD GROUND ROD CONNECTED TO A #4 BARE COPPER CONDUCTOR, CAST IN POLE, EXTENDED TO TENON SLIP FITTER. EQUIPMENT GROUNDING CONDUCTORS SHALL ALSO BE BONDED TO THE GROUND ROD. ALL CONNECTIONS TO THE GROUND ROD SHALL BE BY EXOTHERMIC WELD CONNECTION.
- ALL POLES ARE TO BE PROVIDED WITH HAND HOLES (MINIMUM 3"x5").
- PROVIDE ALL HARDWARE NECESSARY TO COMPLETE THE INTENDED INSTALLATION.
- CONTRACTOR SHALL BE REQUIRED TO SUBMIT CALCULATIONS FROM THE POLE MANUFACTURER, SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF FLORIDA, TO CERTIFY PERFORMANCE OF EACH ENTIRE POLE AND FIXTURE ASSEMBLY TO THE FOLLOWING STANDARDS:
  - 90 MPH IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
  - 150 MPH IN ACCORDANCE WITH CALCULATIONS DICTATED IN THE FLORIDA BUILDING CODE.
- CONTRACTOR IS TO FURNISH AND INSTALL IN-LINE BALLAST FUSES IN BUSSMANN "TRON" WEATHERPROOF FUSE HOLDERS #HEB-SERIES WITH KTK FUSES (SIZE AS REQUIRED). FUSE EACH LUMINAIRE SEPARATELY. LOCATE FUSES IN HANDHOLE OF POLE.
- AN IN-GROUND HANDHOLE SHALL BE INSTALLED AT EVERY POLE LOCATION WHETHER OR NOT INDICATED ON THE DRAWINGS. THE HANDHOLE SHALL BE SIZED TO CONTAIN ALL CONNECTOR KITS, AND GROUND RODS. ALL CONNECTIONS IN HANDHOLE SHALL BE MADE WITH WATERPROOF, SNAP-LOCK GEL FILLED CONNECTOR KITS EQUAL TO OMC #DSR2/O OR RAYCHEM #GTAP-2 AND KING "DRY-CONN" WIRE NUTS FOR FUSE TO FIXTURE CONNECTION.



## SITE LIGHTING CONTROL DIAGRAM

SCALE: NONE



Consulting Engineers, Inc. Engineering Business No. 9021 Tampa, Florida 33606 Tel: 813-241-2525 www.colwillengineering.com

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REVISIONS:

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