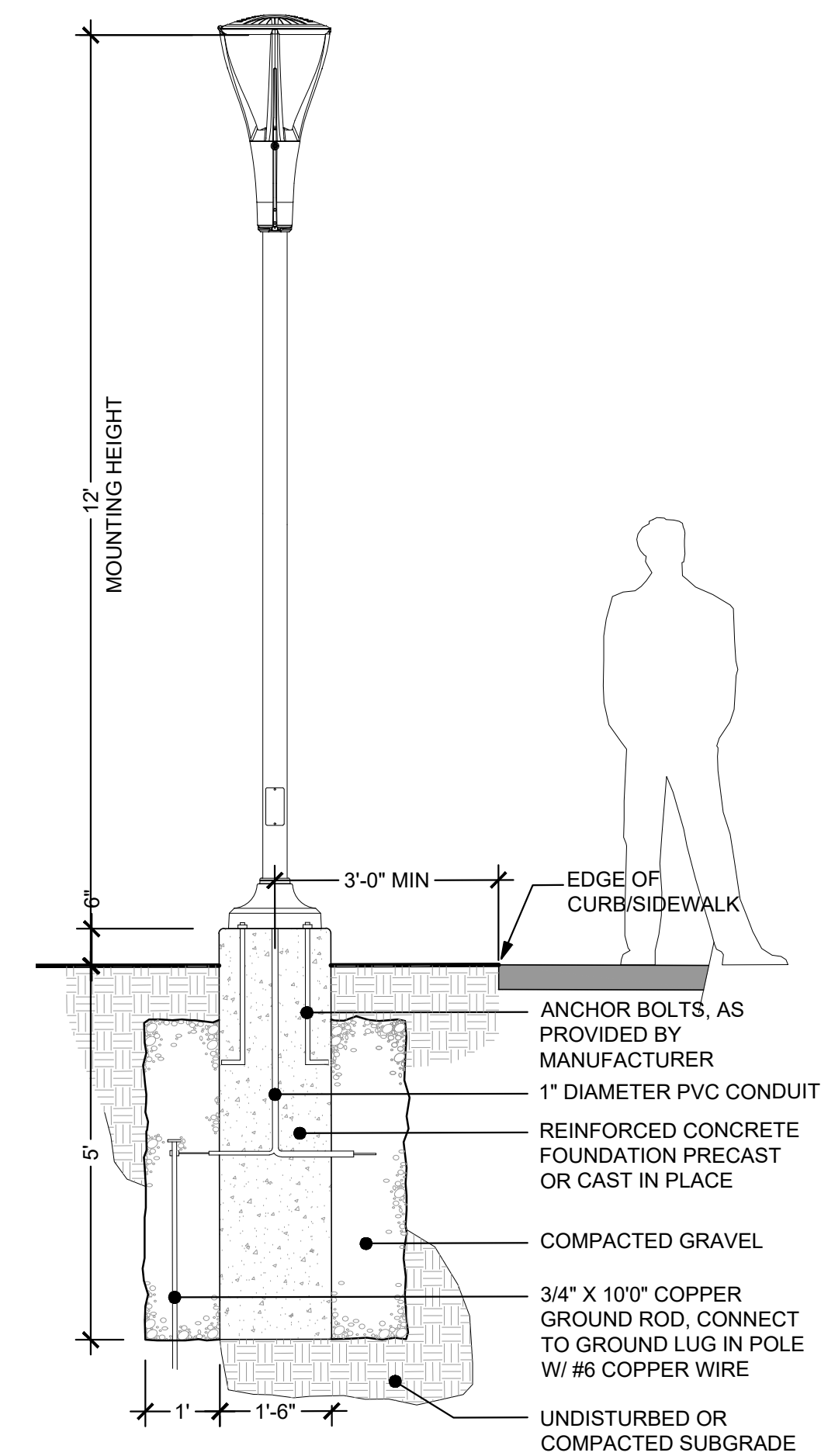


7 PARKING LOT LIGHT-BASE DETAIL
L401 SECTION, NTS



6 PEDESTRIAN LIGHT-BASE DETAIL
L401 SECTION, NTS

RSA-B-F SERIES POLES
ROUND STRAIGHT ALUMINUM

Cat.# _____
Job _____
Type _____
Approvals _____

APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

CONSTRUCTION

- SHAFT: One-piece straight aluminum with fluted cross section. Extruded shafts of 6061-T6 aluminum in 3/16" or 1/4" thickness. Base plate of 356 cast aluminum.
- BOLT COVERS: Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP OR FINALS: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE: Aluminum hand hole frame. Mounting provisions for grounding lug located behind cover.
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling.

FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness.
- Powder paint finish coat available in twelve standard colors. Custom colors available. RAL number preferable.

ORDERING EXAMPLE

RSA-B-F - 16 - 40 - A/B/C - 2L - B3 - DBT - VM2

SERIES

RSA - Round Straight B-F Aluminum Pole Beacon Fluted

HEIGHT

16 - Ordering matrix

SHAFT

40 - Ordering matrix

THICKNESS

A/B/C - Reference page 2

FINISH

2L - Ordering matrix

INSTALLATION

B3 - 1" Square arm mount

OPTIONS

DBT - Dark Bronze Textured

TENONS & POLE CAPS

BASE DETAIL

ACCESSORIES - Order Separately

Accessories	Order Separately	Description
VIBEX	UL	UL listed mode vibration damper
WVEX	UL	UL listed mode vibration damper

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HUBBELL LIGHTING

5 PARKING LOT POLE SPEC SHEET, NTS QTY: XX

KIMLIGHTING

PRA Round Aluminum Non-Tapered Pole
kl_pra_spec.pdf

Type: _____
Job: _____
Catalog number: _____

Approvals: _____

Date: Page: 1 of 5

Specifications

Pole Construction: Seamless round extruded aluminum tube of alloy 6061-T6, welded to top and bottom of aluminum base casting of alloy 356.

Base Cover: Base has a two-piece cast aluminum full cover of 319 alloy, secured by stainless steel screws.

Pole Cap: A flush-sided cast aluminum pole cap is provided for side-arm mounted luminaires.

Handhole: 18" up from base, with a gasketed cover and ground lug.

Anchor Bolts: Four galvanized anchor bolts provided, complete with eight nuts, eight flat washers, and a presswood template.

Vibration Damper: All poles 25' and above include an internally mounted, factory installed pendulum vibration damper, with flush stainless steel socket head fasteners finished to match pole.

Strength: Poles will withstand wind loads as listed in chart (See page 2) when luminaires are mounted per fixture installation instructions.

Finish: Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness. Decorative finish coat available in multiple standard colors; Custom colors available. RAL number preferable.

CAUTION: Installation of poles without luminaires will compromise pole strength. Any accessories attached to pole, or other modifications will compromise pole strength and may result in pole failure.

Maintenance: A regularly scheduled maintenance program must be established to insure the protective paint coating is intact, corrosion or structural damage has not occurred, and anchor bolt nuts are tight. Failure to do so could lead to pole collapse and serious personal injury.

Certification: Certified UL 1598 in accordance with Article 410 of ANS/NFPA 70, National Electrical Code.

Post Top Mounting

Side Arm Mounting

Plan View

Base Detail

CONDUIT OPENING

Presswood Template

CONCRETE FOUNDATION

LEVELING NUT AND WASHER

ANCHOR BOLTS, AS PROVIDED BY MANUFACTURER

1" DIAMETER PVC CONDUIT

REINFORCED CONCRETE FOUNDATION PRECAST OR CAST IN PLACE

COMPACTED GRAVEL

3/4" X 10" COPPER GROUND ROD, CONNECT TO GROUND LUG IN POLE W/ #6 COPPER WIRE

UNDISTURBED OR COMPACTED SUBGRADE

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HUBBELL LIGHTING

4 PEDESTRIAN POLE SPEC SHEET, NTS QTY: XX

KIMLIGHTING

UR20 ARCHITECTURAL AREA/SITE

DATE: _____ **LOCATION:** _____
TYPE: _____ **PROJECT:** _____
CATALOG #: _____

FEATURES

- 20" size in single/dual arm post top, pole and wall mount
- High performance optics up to 16,874 delivered lumens
- Elegant form factor
- Diffusion lens option
- SiteSync™ wireless control options
- UL/CUL listed for wet locations, IP66 and 4015G vibration rated

CONTROL TECHNOLOGY

SiteSync™ NX DISTRIBUTED INTELLIGENCE

RELATED PRODUCTS

Ouro Post Top

Ouro Large Post Top

Ouro Large Arm Mount

CONSTRUCTION

- Low copper aluminum alloy die-casting is designed as one-piece.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- All external fasteners are stainless steel.
- Cover is secured to Lens frame by the latch and hinge.
- Cover is secured to Lens frame by the latch and hinge.
- Optical lenses are clear injection molded PMMA acrylic.
- Optional Backlight Control on each LED luminaire to completely control unwanted backlighting.
- Optional fixture finish optical surfaces will not exceed BUG ratings of the standard white finish.

ELECTRICAL

- Universal voltage, 120 through 277V with a 100% tolerance. Driver is Underwriters Laboratories listed.
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories listed.
- Thermal Shield™, secondary side, thermostat provides protection for the sustainable life of LED module and electronic components.
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments.
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperature in excess of 85°C.
- Surge protection: 10kVDC in parallel, 200kVDC in series.
- Wiring: No. 18AWM rated 100°C, wet rating.

CONTROLS

- Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface of operational performance. ANSI twist lock control module by others.
- Standard customer operation modes:
 - Traditional on/off photoelectric control.
 - 7-pin wireless photoelectric control for dimming and additional I/O connectors for customer use.

LENS

- Standard lens (CLR) K08
- Clear Polycarbonate Lens (CP) K10

INSTALLATION

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

KEY DATA

Lumen Range	2684 – 16874
Wattage Range	25 – 150
Efficacy Range (LPW)	95 – 133
Reported Life (Hours)	L70/60,000
Weight	35 lbs. ± 5.8 kg
EPA	0.608

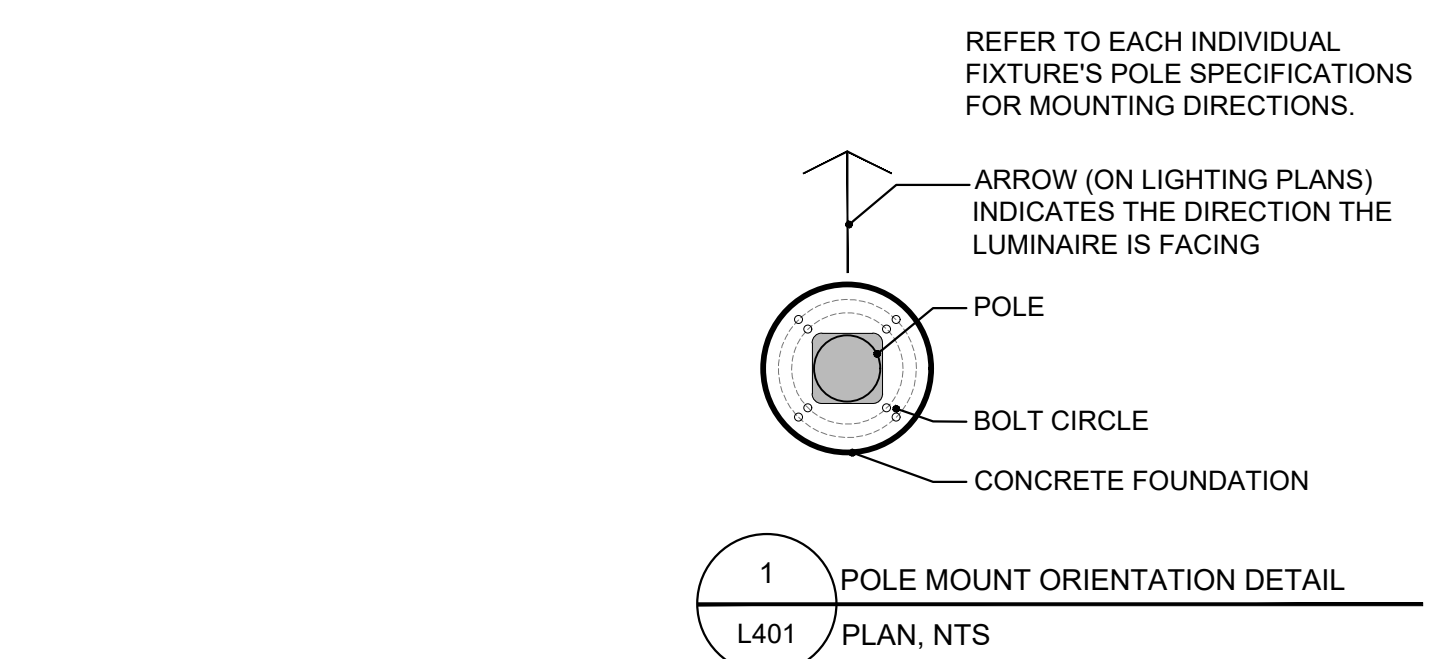
ORDERING GUIDE

Example: UR20-24L-25-3K8-3-L-UNV-FMSA33-BLT-7PB-BC-SWTAB

HOUSING

Mounting	LED Engine	CCF CRI	Distinction	Relation	Lighting
UR20	No Lens or Clear Lens	AM+ • Ambient, 55min	No Lens or Clear Lens	(Down)	Blank for no rotation
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	FR Type II Front Row	L*	347 347V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	2 Type II	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	3 Type II	L*	100-124 100-124V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	4 Type IV	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	4W Type IV Wide	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	5GM Type V Square Medium	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	5GM Type V Square Narrow	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	5R Type V Rectangular	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	5W Type V Wide (Round)	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	3 Type VI Asymmetric	L*	480 480V
UR20	24L-25 3000K LED	27K8 2700K-90 CRI	3 Type VI Symmetric	L*	480 480V

3 PEDESTRIAN LIGHT FIXTURE - OURO SPEC SHEET, NTS



1 POLE MOUNT ORIENTATION DETAIL PLAN, NTS

BEACON

VIPER S SMALL VIPER LUMINAIRE

DATE: _____ **LOCATION:** _____
TYPE: _____ **PROJECT:** _____
CATALOG #: _____

FEATURES

- Small size companion to Viper Large
- Wide choice of different LED wattage configurations
- Nine optical distributions
- Designed to replace HID lighting up to 400W MH or HPS
- Suitable for wet locations

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE

RELATED PRODUCTS

Strike

Viper Large

CONSTRUCTION

- Corrosion resistant, die-cast aluminum housing with powder coat paint finish rated for 100% humidity and is certified by UL for use at 600VAC at 90°C or higher.
- External hardware is corrosion resistant
- Plug disconnects are certified by UL for use at 500 VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Future electrical compartment contains all LED driver components.
- 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.

ELECTRICAL (CONTINUED)

- 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 at 90°C or higher.
- Plug disconnects are certified by UL for use at 500 VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Future electrical compartment contains all LED driver components.
- 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.

CONTROLS (CONTINUED)

- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7.
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.

INSTALLATION

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

ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV).
- Ambient operating temperature -40°C to 25°C.
- Power factor is 2.90 at full load.
- Dimming: Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard.

CERTIFICATIONS

- UL/CUL (Design Light Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlight.org.
- Certified to UL 1598 and UL 8750.
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting.
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions.
- 5 year warranty.
- See HIL Commercial and Industrial Outdoor Lighting Warranty for additional information.

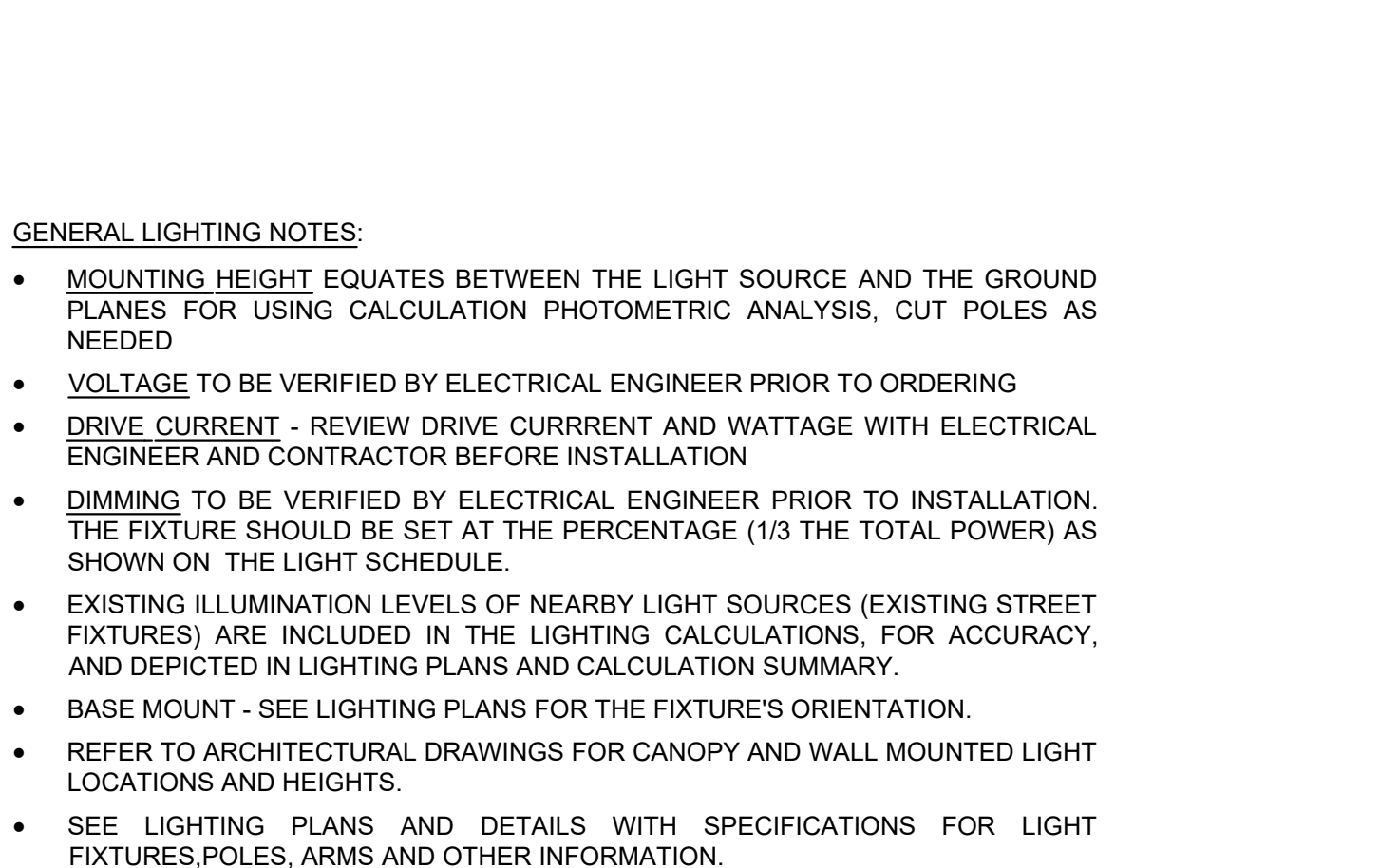
KEY DATA

Lumen Range	4,045-16,216
Wattage Range	39-136
Efficacy Range (LPW)	100-124
Reported Life (Hours)	L70/60,000
Input Current Range (Amps)	0.1-1.1

ORDERING GUIDE

Example: VPS-24L-55-4K7-4W-UNV-A-DBT-L-GEN-04-BC

2 PARKING LOT FIXTURE - VIPER SMALL SPEC SHEET, NTS



1 POLE MOUNT ORIENTATION DETAIL PLAN, NTS