

ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO 2020 NEC, FBC® (8th EDITION), FBC® (8th EDITION), FFC® (8th EDITION), AND OTHER GOVERNING MUNICIPAL, STATE AND LOCAL CODES WHERE APPLICABLE. ALL MATERIAL SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE OWNER.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- CONTRACTOR SHALL MAKE ALL NECESSARY CUTTING AND DO ALL THE REPATCHING AS NECESSARY FOR THE PROPER EXECUTION OF THIS WORK.
- AFTER COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS.
- WHERE ELECTRICAL CONDUCTORS ARE INSTALLED IN CONDUIT, THE CONDUIT SHALL COMPLY WITH THE N.E.C. REQUIREMENTS.
- ALL CONDUCTORS SHALL BE COPPER. NO CONDUCTOR SHALL BE SMALLER THAN #12 AWG AND SHALL BE RATED FOR 90KVOLTS THIN OR THIN INSULATION. INSTALL A GROUNDING CONDUCTOR WITH ALL CIRCUITS, UNLESS NOTED OTHERWISE. SIZED PER N.E.C. 250-122.
- ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL (GRS) EXCEPT THAT: (a) PVC CONDUITS MAY BE USED UNDER GROUND PROVIDED ELBOWS AND RISERS ARE GALVANIZED RIGID STEEL OR SCHEDULE 80 PVC, WHERE SUBJECT TO PHYSICAL DAMAGE (b) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP OR CORROSIVE CONDITIONS, (c) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED, (d) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS ONLY, (e) MC CABLE WITH DEDICATED GREEN GROUNDING CONDUCTOR WHERE PERMITTED. ALL CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
- FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WARNING TAPE WHICH SAYS "WARNING BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL UNDERGROUND ELECTRIC CONDUITS, WHERE CONDUITS PASS UNDERNEATH PAVED AREAS, THEY SHALL BE PVC, WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDERPAVED AREAS, THEY SHALL BE SCHEDULE 40 PVC.
- PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS IN ACCORDANCE TO SECTION 714 OF FBC® (8th EDITION), CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS.
- VERIFY BREAKER AND CORRESPONDING WIRE SIZES FOR ALL ELECTRICAL EQUIPMENT. DO NOT ORDER MATERIAL BEFORE VERIFYING BREAKER & WIRE SIZE. REPORT ANY DISCREPANCY IMMEDIATELY TO THE ENGINEER OF RECORD.
- SAFETY SWITCHES SHALL BE SQUARE 'D', GENERAL ELECTRIC, OR SIEMENS, FUSED OR NON-FUSED AND SIZED AS INDICATED, NEMA 3R WHEN EXPOSED TO WEATHER.
- PANELS SHALL BE SQUARE 'D', GENERAL ELECTRIC OR EQUAL, TYPE AND NUMBER OF BREAKERS AS INDICATED ON PANEL SCHEDULE. STENCIL PANEL DESIGNATION ON INSIDE OF PANEL. ALL TWO-POLE BREAKERS SHALL BE COMMON TRIP. PROVIDE TYPE WRITTEN SCHEDULE IN EACH LOAD CENTERS. CONNECTION TO MAIN BUS SHALL BE WITH BURNDY ANNUAL COMPRESSION LUGS. PANELS AIR RATING SHALL BE AS INDICATED ON PLANS.
- CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY OF EACH PANEL BOARD, HAND WRITTEN DIRECTORY IS NOT ACCEPTABLE. EXCEPT SPARE AND SPACES SHALL BE HANDWRITTEN IN PENCIL.
- INSTALL "BACK TO BACK" BOXES IN RATED WALLS AT LEAST 609.6MM (24 INCHES) APART MEASURED HORIZONTALLY. OTHERWISE WHERE "BACK TO BACK" PENETRATIONS IN FIRE RATED WALLS ARE LESS THAN 24 INCHES FROM EACH OTHER, PROVIDE U.L. LISTED COMPOUND APPLIED TO BACK OF THE "BACK TO BACK" BOXES.
- PROVIDE NAMEPLATES FOR ALL PANEL BOARDS, DISCONNECTS, TRANSFORMER, TERMINAL CABINETS AND ALL ELECTRICAL EQUIPMENT IDENTIFIED BY NAME ON DRAWINGS.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
- LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT TIME OF DESIGN. VERIFY ALL EQUIPMENT AND PANEL SIZES BEFORE ORDERING AND BEFORE INSTALLATION.
- ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO COMPLY WITH LOCAL CODE FOR WIND RESISTANCE.
- A WORKING CLEARANCES HAVE TO BE IN COMPLIANCE WITH NEC 110.26 B. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT, FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408.
- ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 15" A.F.F. TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED. ALL LIGHT SWITCHES SHALL BE @ 48" AFF. TO TOP OF SWITCH.
- ALL DIMMING MECHANISMS HAVE TO BE COMPATIBLE WITH FIXTURE DIMMING REQUIREMENTS. CONTRACTOR MUST VERIFY ALL DIMMING MECHANISM AND FIXTURE DIMMING REQUIREMENTS BEFORE ANY ORDERING, INSTALLING, OR WIRING OF ANY DIMMING MECHANISMS AND FIXTURES.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- SEAL ALL NEW CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN EXISTING FIRE RATING CONDITIONS. FURNISH AND INSTALL FIRE RATED ENCLOSURES FOR ALL EQUIPMENTS PENETRATING FIRE RATED ENVELOPES, SPACES, ETC.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE WIRING FOR HVAC SYSTEM: A/C EQUIPMENT(S), SMOKE DETECTORS, THERMOSTATS, TEST STATIONS, MOTORIZED VOLUME DAMPERS, ETC. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING. ELECTRICAL CONTRACTOR TO THOROUGHLY REVIEW MECHANICAL PLANS AND PROVIDE POWER TO ANY MECHANICAL EQUIPMENT OR DEVICE THAT IS NOT SHOWN ON ELECTRICAL PLANS BUT IS SHOWN ON MECHANICAL PLANS.
- INSTALL "GFCI" GROUND FAULT INTERRUPTER RECEPTACLES WITH WEATHERPROOF COVER WITHIN 25 FT OF HVAC EQUIPMENT. MOUNT RECEPTACLE ON UNISTRUT (UNLESS HVAC EQUIPMENT IS SPECIFIED WITH FACTORY INSTALLED CONVENIENT RECEPTACLE).
- WHEN NEW ELECTRIC SERVICE IS BEING INSTALLED, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH FPL/PL ENGINEERS ON THE SIZE OF THE UTILITY TRANSFORMER THAT IS REQUIRED TO PROVIDE THE NEW ELECTRIC SERVICE SHOWN ON ELECTRIC PLANS. GC HAS TO INFORM THE OWNER ABOUT ANY EXTRA POWER UTILITY CHARGES THAT MIGHT OCCUR IN ORDER TO PULL NEW SERVICE. THIS HAS TO BE DONE AS EARLY AS POSSIBLE DURING THE BIDDING PROCESS.
- ELECTRICAL SERVICE EQUIPMENT MUST BE 3' ABOVE MSL AND 8' ABOVE N.V.G.D. VERIFY AT SITE. ALL ELECTRICAL EQUIPMENTS SHALL BE INSTALLED ABOVE FLOOD LEVEL.
- CONTRACTOR MUST VISIT THE SITE PRIOR TO BID OR CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS. BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT SHALL BE CONSIDERED AS VALID, DUE TO THE FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST. CONTRACTOR TO REPLACE ANY EXISTING DEVICE OR COMPONENT THAT IS CALLED AS EXISTING IF IT IS NOT FULLY OPERATIONAL.
- OPERATING MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO BUILDING OWNER.

Utilities Structures Inc.

US134TIIIS-10676

Prestressed Concrete Pole

- Pole Weight= 2,180lbs
- Wind speed= 180mph Vult
- Exposure "C"
- Risk Category IV
- Gust Factor = 1.2
- Load factor = 1.3
- 7th Edition 2020 FBC 1620 HVHZ, 1609, 1806
- ASCE 7-16
- Min. Brk. Strength= 1,800#
- Concrete= 7,500lbs @ 28 days
- Grd. Wires #6 str. copper
- Strands= 1/2" @ 70% Ultimate
- Tenon = 2.375 x 5"

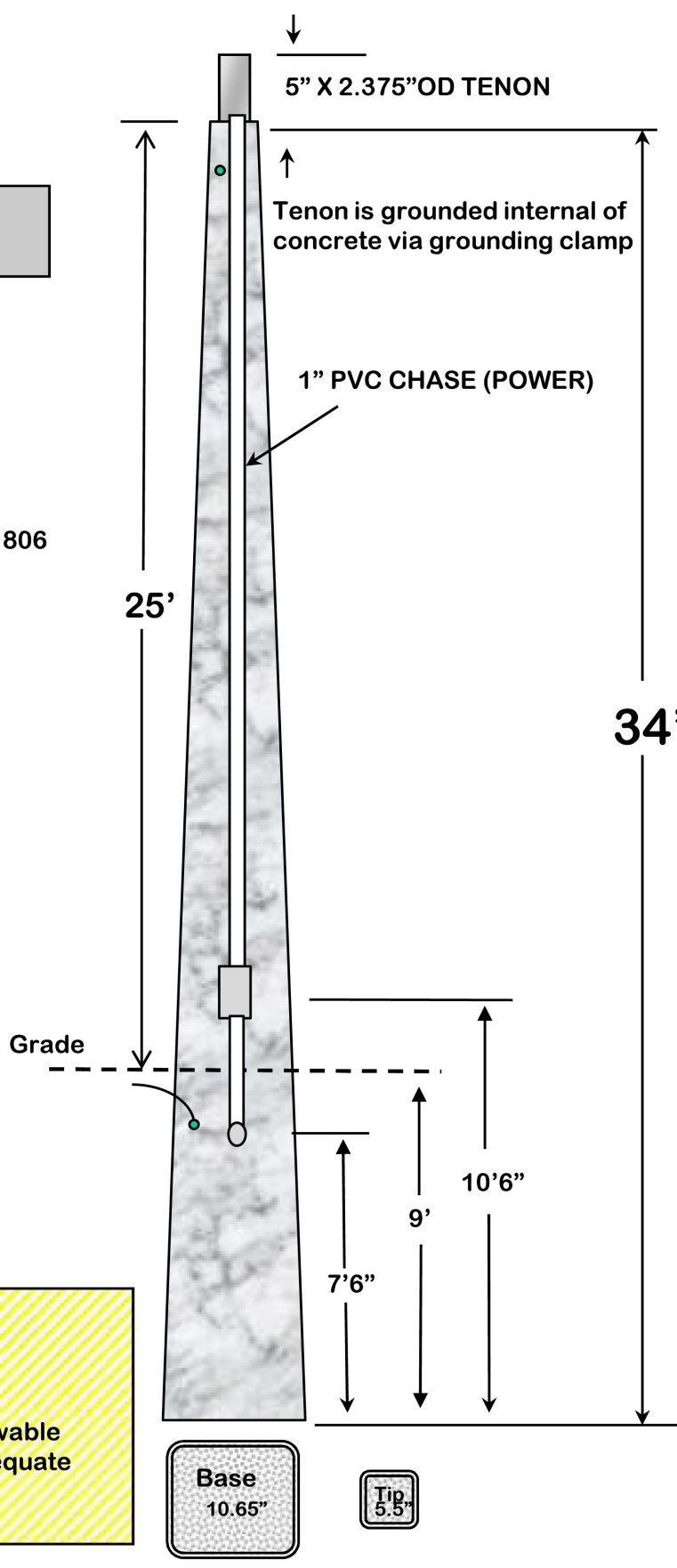
MP STRUCTURES

RUTH POWELL, P.E., S.E.

PROJECT:

This pole embedded 9' in to soils with an allowable Passive pressure of 300pcf is structurally adequate

Cameras



01 LIGHT POLE DETAIL

NOT TO SCALE

Submitted by Genesis Lighting

GENESIS LIGHTING

Job Name:
2281 NW 16TH STREET
Engineer: PREMIER CONSULTING ENGINEERS, LLC (Boce Raton)

Catalog Number:
VNTL-35000L-40K-DIM-4M-N-XX-XX-HSS

Type:
SA

PROJECT INFORMATION

Project Name

Type

Catalog #

Date

VIENTO AREA LUMINARE

APPLICATIONS

Area Lighting

Auto Dealerships & Sales Lots

Retail Spaces

Parks & Recreation Areas

Street Lighting

Safety & Security

APPROVALS

ETL Listed

Complies with UL 1598 and CSA C22.2

Suitable for wet locations

3G Vibration Rated

IP66 Rated

BAA Compliant

RoHS Compliant

ATL Tested www.ata-labs.com

Select models DLC Qualified. For a complete list of DLC Qualified products visit: www.xtralight.com/dlc or qsl@designlights.org

FEATURES

Lumen packages ranging from 5000L to 55000L

Outstanding photometric performance results in excellent uniformity, optimal pole spacing and lower power density

Low profile architectural design offers a contemporary appearance with excellent light output

Enhanced foot candles delivered utilizing multiple optical options

Full cut-off optics with zero uplight

CONSTRUCTION

Thermal management achieved with a one-piece die-cast aluminum has integral heat sink fins and a hinged electrical compartment

Thermoset powder coat, available in bronze, white or custom colors (consult factory)

IP66, precision molded, polycarbonate optics providing impact resistance and UV stabilization

Upgraded door to provide better protection from water intrusion

ELECTRICAL

Voltage: 120-277V or 347-480V AC input

Driver: Class I constant current, calibrated to lumen package (0-10V dimming standard)

Surge Protection: 20KA standard

Operating temperature: -40°C to +50°C (-40°F to +122°F)

CONTROLS

Programmable smart sensor and twist-lock receptacle control options available

MOUNTING

Integral arm with key hole slot facilitates quick and easy installation

Adjustable slip filter, round pole adaptor, universal pole adaptor, and other mounting options available as accessories

WARRANTY

Backed by XtraLight's limited 5-year warranty

ORDER LOGIC

SAMPLE CATALOG NUMBER: VNTL-55000L-50K-DIM-SSN-BZ

SIZE	MODEL	CCT	DRIVER	OPTICS	ORIENTATION	FINISH	CONTROLS	OPTIONS
S Small	5000L	30K 3000K	DIM Dim 0-10V	2M Type II Medium	N Normal (Forward)	BZ Bronze	XX No Fixture Controls	HSS House-side Shield
	10000L	40K 4000K	120-277V	3M Type III Medium	L Left	WH White	ASFP Adjustable Slip Filter Cord Whip	ASFP Adjustable Slip Filter Cord Whip
	15000L	50K 5000K	DIM Dim 0-10V	4M Type IV Medium	R Right	CC Custom Color	7 NEMA 5-Pin Twist-Lock Receptacle	7 NEMA 5-Pin Twist-Lock Receptacle
M Medium	15000L	3000K	HVD to off	4M Type IV Medium	R Right	CC Custom Color	7 NEMA 5-Pin Twist-Lock Receptacle	7 NEMA 5-Pin Twist-Lock Receptacle
	20000L	3500K	347-480V	5S Type V Square			7 NEMA 7-Pin Twist-Lock Receptacle	7 NEMA 7-Pin Twist-Lock Receptacle
L Large	30000L	3000K						
	35000L	3500K						
	40000L	4000K						
	45000L	4500K						
	50000L	5000K						
	55000L	5500K						

1. Custom CCT available from 2700K - 6500K

2. Some models may not be available with DIM (Dim to off)

3. The SS Type V Square pole option is not available with L (Left) or R (Right) orientations

4. Provide the desired RAL number for custom colors

5. The ASFP Adjustable Slip Filter Cord Whip must be paired with the Adjustable Slip Filter accessory (sold separately)

6. Photocord not included

Submitted On: Feb 10, 2025

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Submitted by Genesis Lighting

GENESIS LIGHTING

Job Name:
2281 NW 16TH STREET
Engineer: PREMIER CONSULTING ENGINEERS, LLC (Boce Raton)

Catalog Number:
VNTL-35000L-50K-DIM-4M-N-XX-XX

Type:
WA

PROJECT INFORMATION

Project Name

Type

Catalog #

Date

VIENTO AREA LUMINARE

APPLICATIONS

Area Lighting

Auto Dealerships & Sales Lots

Retail Spaces

Parks & Recreation Areas

Street Lighting

Safety & Security

APPROVALS

ETL Listed

Complies with UL 1598 and CSA C22.2

Suitable for wet locations

3G Vibration Rated

IP66 Rated

BAA Compliant

RoHS Compliant

ATL Tested www.ata-labs.com

Select models DLC Qualified. For a complete list of DLC Qualified products visit: www.xtralight.com/dlc or qsl@designlights.org

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L Large	30000L	3000K						
	35000L	3500K						
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1. Custom CCT available from 2700K - 6500K

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Job Name:
2281 NW 16TH STREET
Engineer: PREMIER CONSULTING ENGINEERS, LLC (Boce Raton)

Catalog Number:
VNTM-25000L-40K-DIM-3M-N-XX-XX

Type:
SB

PROJECT INFORMATION

Project Name

Type

Catalog #

Date

VIENTO AREA LUMINARE

APPLICATIONS

Area Lighting

Auto Dealerships & Sales Lots

Retail Spaces

Parks & Recreation Areas

Street Lighting

Safety & Security

APPROVALS

ETL Listed

Complies with UL 1598 and CSA C22.2

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Select models DLC Qualified. For a complete list of DLC Qualified products visit: www.xtralight.com/dlc or qsl@designlights.org

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CONSTRUCTION

Thermal management achieved with a one-piece die-cast aluminum has integral heat sink fins and a hinged electrical compartment

Thermoset powder coat, available in bronze, white or custom colors (consult factory)

IP66, precision molded, polycarbonate optics providing impact resistance and UV stabilization

Upgraded door to provide better protection from water intrusion

ELECTRICAL

Voltage: 120-277V or 347-480V AC input

Driver: Class I constant current, calibrated to lumen package (0-10V dimming standard)

Surge Protection: 20KA standard

Operating temperature: -40°C to +50°C (-40°F to +122°F)

CONTROLS

Programmable smart sensor and twist-lock receptacle control options available

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ORDER LOGIC

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Engineer: PREMIER CONSULTING ENGINEERS, LLC (Boce Raton)

Catalog Number:
VNTM-25000L-40K-DIM-4M-N-XX-XX

Type:
WB

PROJECT INFORMATION

Project Name

Type

Catalog #

Date

VIENTO AREA LUMINARE

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Retail Spaces

Parks & Recreation Areas

Street Lighting

Safety & Security

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IP66 Rated

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RoHS Compliant

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Submitted On: Feb 10, 2025

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02 LIGHT FIXTURE SPECIFICATIONS

NOT TO SCALE

PH-2

PZ25-12000007

05/07/2025