U.S. ARCHITECTURAL LIGHTING

AREA & ROADWAY LIGHTING

VLL SERIES - LED

PROJECT NAME:

PROJECT TYPE:

Luminaire
Diecast aluminum assembly with minimum wall thickness of 0.100". Integral cooling fins surround the electrical compartment. The fins are designed with a draft angle of 5° to ease casting tolerance variance for maximum surface contact and thermal conductivity from the LED modules to the radiating fins. Passive radiating fins above the LED Optics provide superior thermal management and long LED life. The optical and electrical components are mounted on a hinged door compartment cover assembly. Hinged driver compartment cover provides access to the drivers and wiring.

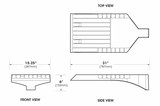
PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to protect the LED's from environmental elements. The refractor inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Optics are hermetically sealed against the PCB panel. Gaskets are sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a Luminaire, have the same optical pattern. LED refractors produce standard and specialized street, site, and area distributions. All distributions are Zero Uplight. Optics are Dust and Moisture Proof. Optical Panels are field replaceable and field rotatable in 90° increments.

LED Emitters
High Power White LED's are driven between 350mA and 1400mA for a maximum output of 4 Watts nominal per LED. LED's are available standard in CCT's of Warm White (2700K & 3000K), Neutral White (4000K), or Cool White (5000K). All Standard LED's have a minimum CRI of 70 and a minimum life rating of L70 B10 at 25°C (Ambient) performance of L93 at 100,000 hours up to 1000mA drive current and 60,000 hours at 1225mA and 1400mA drive current (TM-21 calculated at Ta of Tested Temp).

True Amber LED's
TSA-True Amber LED's emit light in a narrow amber spectral band-width centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver(s)
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical compartment for optimal heat sinking. Driver(s) have quick connect clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input voltage of 120-277VAC or 347-480VAC (50/60Hz). 0-10V dimmable driver is standard. Driver has a minimum of 2KV internal surge protection. Luminaire supplied with 20kV surge protector for field accessible installation.)

Finish
Natural aesthetically applied TGIC Polyester Powder Coat on substrate prepared with 30 PSI power wash at 140°F. Four step metals bond and iron phosphate pretreatment for protection and paint adhesion. 4000 F base for maximum hardness and durability.



RoHS compliant | UL Listed for Wet Location | 2024348

U.S. Pole Company Inc. | 660 West Avenue O, Palmdale, CA 93551
An Employee Owned Company | Phone (661) 359-2668 | www.uspoly.com

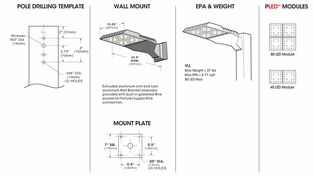
USPC 1

U.S. ARCHITECTURAL LIGHTING

VLL SERIES - LED

SPECIFICATIONS

POLE DRILLING TEMPLATE | WALL MOUNT | EPA & WEIGHT | PLED™ MODULES



ORDERING INFORMATION

Spec/Order Example: VLL/PLED-III/80-700-30K/UNV/3-120/TPR

Luminaire	Optics	LED Module			Voltage	Mounting	Finish	Options
	PLED™	# of LED's	Drive Current	Color Temp - CCT		Arm Mount	Standard Finishes	
☐ VLL	☐ Type I **PLED-I-R**	80LED / 40LED	1400mA / 1225mA / 875mA / 700mA / 525mA / 350mA	27K (2700) / 30K (3000) / 40K (4000) / 50K (5000)	120V (120-277V) / 347 (347-480V) / 480	☐ 1	☐ Bronze **RAL-9970-T**	☐ Internal House Side Shield (Not Available with Type I Optic) (Exterior AESS-HS) **HS-PLED**
	☐ Type II Forward Throw **PLED-II-FT**			Consult Factory for Other CCT's, Drive Currents & CRI Options		☐ 2/180	☐ White **RAL-9003-T**	☐ Internal Glare Shield (Exterior AESS) **GS54**
	☐ Type II Medium Symmetric **PLED-II-MS**					☐ 2/90	☐ Black **RAL-9004-T**	☐ Internal Glare Shield (Black Resin Wedge) **GS2BW**
	☐ Type III **PLED-III-W**					☐ 3/90	☐ Dark Bronze **RAL-8017-T**	☐ Round Pole Adapter **SPA**
	☐ Type III Wide **PLED-III-WW**					☐ 3/120	☐ Green **RAL-6005-T**	☐ Tool Lock Receptacle **TRR**
	☐ Type V **PLED-V**					☐ 4/90	**Premium Finishes**	☐ 120v Twist Lock Receptacle Only **TRR7**
	☐ Type V Wide **PLED-VW**					Wall Mount	☐ Rust	☐ High-Low Dimming for Use with Photocell (week 50-52 or 20-22) (Exterior AESS-DT) **HLSW**
	☐ Type V Medium **PLED-VM**					☐ WM (No - stop mount available with mounting bracket and cover)	☐ Patina Copper **PC**	☐ Photocell - Dusk to Dawn (Exterior AESS-DT) **PCvr**
	☐ Type V Forward Throw **PLED-VFW**						For single finish and color options, contact factory with suffix "F" (Example: RAL-9005-F) Consult factory for Special Finishes	☐ Single Fuse (Voltage Specific) **SFvr**
								☐ Double Fuse (Voltage Specific) **DFvr**
								☐ Buck/Boost Transformer (Voltage Specific) (Factory Defined 50/60 Hertz Prior To) **MS-PT-T1**

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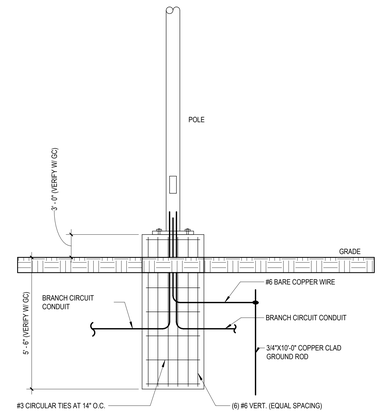
USPC 2



1 POLE BASE DETAIL
12" = 1'-0" | ES100

Luminaire Schedule

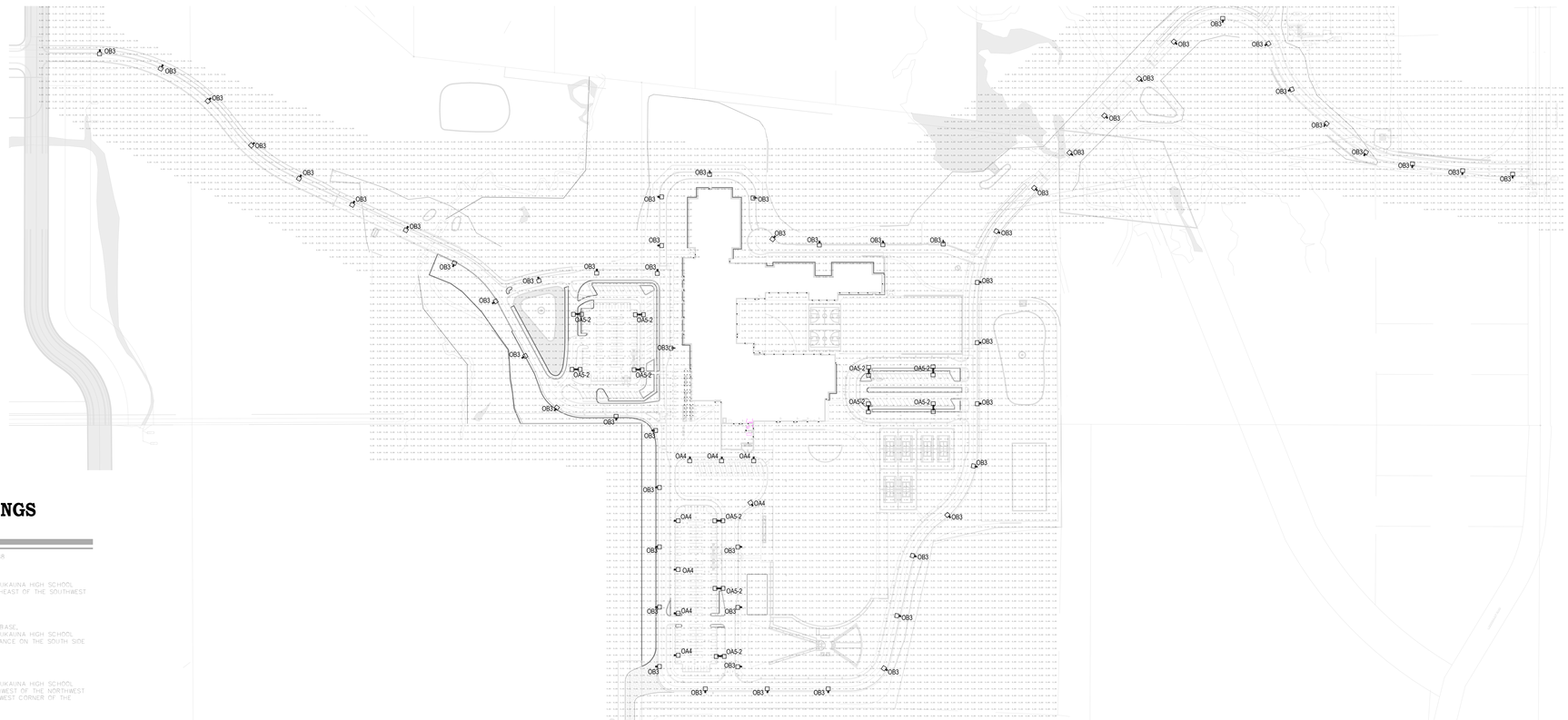
Qty	Label	LLF	MFG	Description	Lum. Watts	Total Watts	Lum. Lumens
43	L10	0.950	GOTHAM	IVO4 D 10LM xxK 80CRI 50D MVOLT BEV ARS CLR	9.8	421.4	729
4	OA4	0.950	US ARCH	VLL-PLED-IV-FT-80LED-700mA-40K-UNV-1 + 22' POLE + 3' BASE	174	696	22912
11	OA5-2	0.950	US ARCH	(2) VLL-PLED-VSQ-W-80LED-700mA-40K-UNV-1 + 22' POLE + 3' BASE	174	3828	25162
57	OB3	0.950	US ARCH	VLL-PLED-III-W-40LED-875mA-40K-UNV-1 + 22' POLE + 3' BASE	111	6327	14550
27	WP	0.950	LITHONIA	WPX1 LED P2 40K MVOLT DDBXD M4	24	648	2913
41	WX	0.950	LITHONIA	WPX1 LED P1 xxK MVOLT (finish)	11	451	1568

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Bus Parking Area & Drive	Illuminance	Fc	1.65	5.4	0.8	2.06	6.75
NE Parking Area	Illuminance	Fc	2.23	5.0	1.0	2.23	5.00
NW Parking Area	Illuminance	Fc	1.52	5.6	0.6	2.53	9.33
SW Parking Area	Illuminance	Fc	1.72	5.5	0.6	2.87	9.17

LIGHTING FIXTURE SCHEDULE - SITE PHOTOMETRICS

TYPE	MOUNTING	DESCRIPTION	VOLTAGE	LAMP	WATTAGE	MANUFACTURER	CATALOG NUMBER	NOTES	Count
L	RECESSED	LED 4 INCH ROUND DOWNLIGHT (CANOPY)	277	LED	9.8	GOTHAM	IVO4 D 10LM xxK 80CRI 50D MVOLT BEV ARS CLR		43
OA4	POLE	LED POLE LIGHT, TYPE IV DISTRIBUTION, 80 LED's LIGHT POLE - 22 FEET, BASE - 3 FEET	480V	LED	174.0	US ARCH	VLL-PLED-IV-FT-80LED-700mA-40K-UNV-1 + 22' POLE + 3' BASE		8
OA5-2	POLE	LED POLE LIGHT, TYPE V DISTRIBUTION, 80 LED's - DUAL HEAD LIGHT POLE - 22 FEET, BASE - 3 FEET	480V	LED	174.0	US ARCH	(2) VLL-PLED-VSQ-W-80LED-700mA-40K-480-2-180 + 22' POLE + 3' BASE		11
OB3	POLE	LED POLE LIGHT, TYPE III MEDIUM DISTRIBUTION,40 LED's LIGHT POLE - 22 FEET, BASE - 3 FEET	480V	LED	111.0	US ARCH	VLL-PLED-III-W-40LED-875mA-40K-480-1 + 22' POLE + 3' BASE		57
WP	SURFACE	LED WALL PACK, 2500 NOMINAL LUMENS	277	LED	24.0	LITHONIA	WPX1 LED P2 40K MVOLT DDBXD M4		27
WX	SURFACE	LED WALL PACK, 1550 NOMINAL LUMENS	277	LED	11.0	LITHONIA	WPX1 LED P1 40K MVOLT DDBXD M4		42



DESIGN DRAWINGS BENCHMARKS:

ELEVATIONS ARE REFERENCED TO NAVD #8 DATUM

BENCHMARK #1
BURY BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE KAUKAUNA HIGH SCHOOL BUILDING, APPROXIMATELY 115 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF SAID BUILDING.
ELEVATION = 734.18

BENCHMARK #2
BURY BOLT ON CONCRETE LIGHT POLE BASE,
LOCATED ON THE SOUTH SIDE OF THE KAUKAUNA HIGH SCHOOL BUILDING, SOUTHWEST OF THE MAIN ENTRANCE ON THE SOUTH SIDE OF SAID BUILDING.
ELEVATION = 733.97

BENCHMARK #3
BURY BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE KAUKAUNA HIGH SCHOOL BUILDING, APPROXIMATELY 35 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE BUILDING AT THE NORTHWEST CORNER OF THE TENNIS COURTS.
ELEVATION = 734.60

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A1 ELECTRICAL SITE PHOTOMETRICS
1" = 150'-0" | ES100

REVISIONS

CHECKED: ---
DRAWN: ---
DATE 11/26/2025
PROJECT NO. 24.0140

MUNICIPAL REVIEW
ELECTRICAL SITE PHOTOMETRICS

KAUKAUNA AREA SCHOOL DISTRICT
KAUKAUNA MIDDLE SCHOOL
CITY OF KAUKAUNA
OUTAGAMIE CO., WISCONSIN

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999 (PH) 715.344.9922 (FX)
Point of Beginning

SHEET ES100