



# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

### DESCRIPTION

Power and Color Select Area Light with OpticSwap | 277-480V Input | Bronze Housing | Multiple Mounting, Optics, and Control options

### APPLICATION

Pole-mount or structure-mount outdoor illumination needs (including parking lots, auto dealerships, pathways, roadways, recreational venues, and other general area lighting requirements)



### PRODUCT FEATURES

- Keystone Power Select technology (see Performance Specifications for details)
- Keystone Color Select technology (3000/4000/5000K)
- Innovative optic swap capability under door frame and latch design for quick, tool-free lens change
- Two lenses in the box: Type III installed, Type V included
- Type II and Type IV lenses sold separately. See below for details
- Heavy-duty, die-cast aluminum housing with ample heat sinking
- Low-profile design delivers high-performance illumination and improves application site aesthetics
- True U0 design for dark sky friendly performance that eliminates undesirable sky glow
- Integrated NEMA/ANSI C126.10 3-pin twist-lock receptacle with shorting cap. Compatible with KT-TLP-HV-3PN, 277-480V photocell (see Accessories for details)
- Five contractor-friendly mounting options available: slipfitter, trunnion, adjustable pole mount, fixed pole mount, and wall adaptor. Sold separately (see Accessories for details)
- Keystone 0-10V dimming driver
- Ambient operating temperature: -40°C/-40°F to 50°C/122°F
- UL Certified; IP65 rated
- Power factor: > 0.95
- THD: < 20%
- LED chip lifetime: L70 > 100,000 hrs @ 25°C/77°F ambient fixture temperature
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

### PERFORMANCE SPECIFICATIONS

Catalog No.	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Input Voltage	Dimming	CRI	Distribution Pattern*	Photocell Included	Housing Color**	Legacy Equivalent
KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM	140W	3000K	17,950	128 lm/W	277-480V	0-10V	> 80	Type III Installed, Type V Included	No	Bronze	400W MH
		4000K	20,780	148 lm/W							
		5000K	19,020	136 lm/W							
	100W	3000K	12,720	127 lm/W							
		4000K	14,750	148 lm/W							
		5000K	13,530	135 lm/W							
	70W	3000K	9,310	133 lm/W							
		4000K	10,740	153 lm/W							
		5000K	9,880	141 lm/W							
KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM	290W	3000K	36,320	125 lm/W	277-480V	0-10V	> 80	Types II and IV Available, Sold Separately	No	Bronze	1000W MH
		4000K	42,770	147 lm/W							
		5000K	38,700	133 lm/W							
	210W	3000K	27,300	130 lm/W							
		4000K	31,710	151 lm/W							
		5000K	28,980	138 lm/W							
	185W	3000K	22,970	124 lm/W							
		4000K	27,060	146 lm/W							
		5000K	24,440	132 lm/W							

\* For more information, see Accessories page below or contact Keystone with questions.

\*\* Fixtures and mounts with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

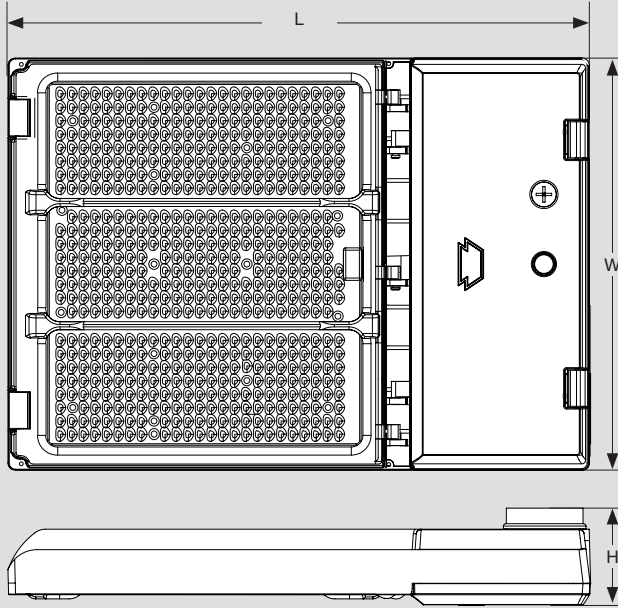


# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

### PHYSICAL SPECIFICATIONS

#### LED AREA LIGHT FIXTURE



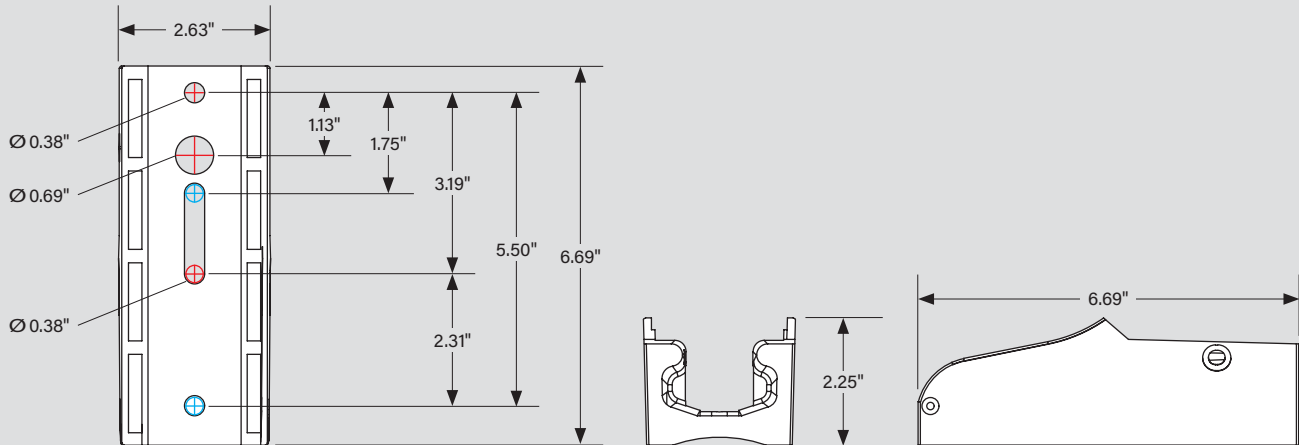
#### FIXTURE DIMENSIONS

Catalog Number	L (Length)	W (Width)	H (Height)
KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM	14.13"	9.61"	3.30"
KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM	15.70"	11.18"	3.30"

#### PACKAGING DIMENSIONS

Catalog Number	Carton Dimensions	Carton Weight
KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM	5.63" x 13.15" x 21.65"	12.35 lbs
KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM	5.63" x 15.63" x 26.18"	17.53 lbs

#### POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES

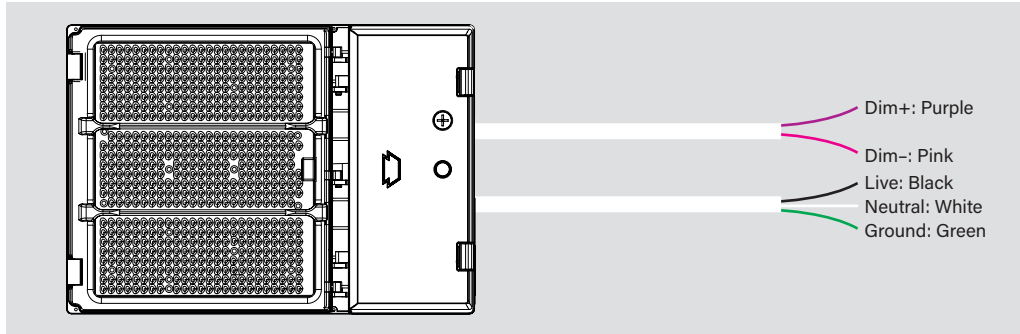




# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

### WIRING DIAGRAM

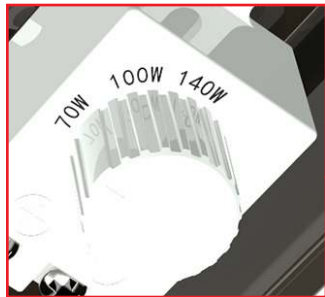


- Make input connections as needed and ensure connections are protected from exposure to the elements.
- **Input voltage rating: 277-480V**
- Ensure that input voltage on site matches the fixture you intend to install.

### POWER SELECT (WATTAGE) AND COLOR SELECT (CCT) ADJUSTMENT

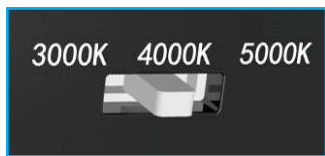
This fixture is equipped with field-adjustable Keystone Power Select and Color Select technology.

1. Ensure power is off to the fixture.
2. Open the driver compartment located on the underside of the fixture.
3. Adjust switches to desired settings.

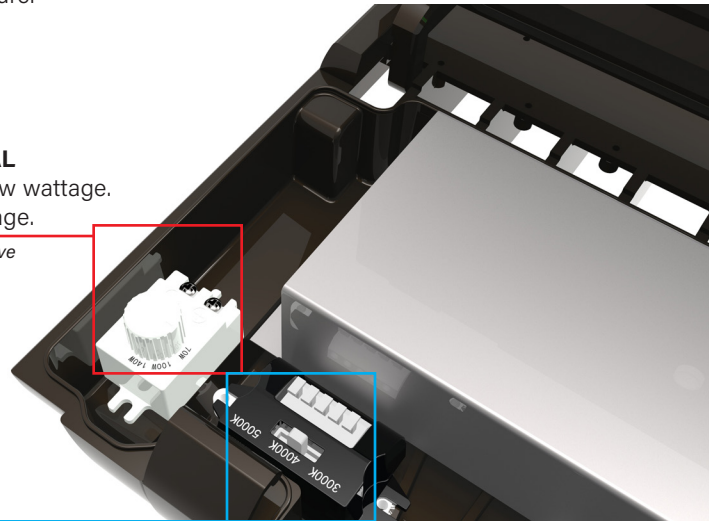


**POWER SELECT ADJUSTMENT DIAL**  
 Adjust between high, medium, and low wattage. Fixtures come preset to highest wattage.

*Image for reference only. Different SKU's will have different wattages*



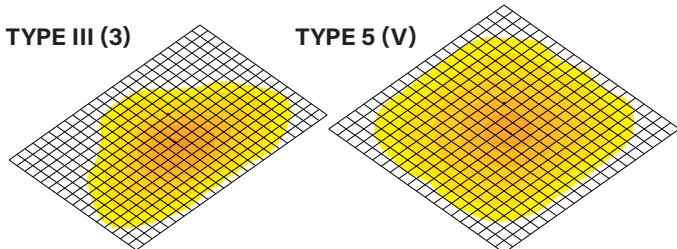
**COLOR SELECT ADJUSTMENT SWITCH**  
 Set switch to adjust CCT between 3000K, 4000K, and 5000K. Fixture comes preset at 5000K.



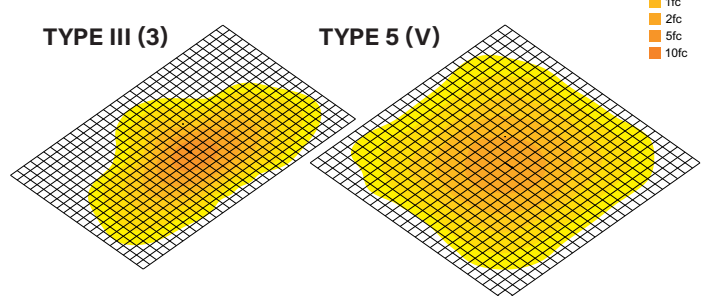
### LIGHT DISTRIBUTION PATTERN

Pole mount view from above. Each square is 10 ft x 10 ft

**KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM**  
 Pole mounted at 30 ft



**KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM**  
 Pole mounted at 35 ft



- 0.1fc
- 0.2fc
- 0.5fc
- 1fc
- 2fc
- 5fc
- 10fc

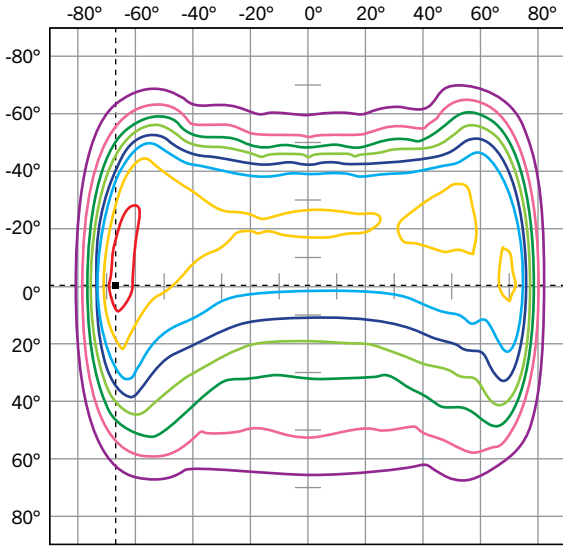


# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

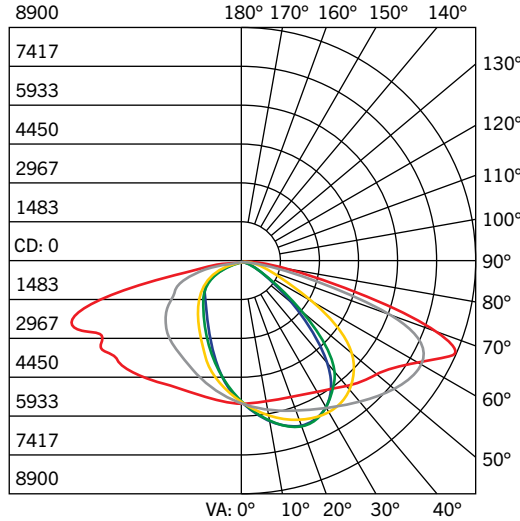
### PHOTOMETRIC SPECIFICATIONS KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM (TYPE II [2])

#### ISOCANDELA PLOT



- Point of Max Cd: 8866.9
- Cd: 7908, 90%
- Cd: 6590, 75%
- Cd: 5272, 60%
- Cd: 4393, 50%
- Cd: 3515, 40%
- Cd: 2636, 30%
- Cd: 1757, 20%
- Cd: 879, 10%

#### POLAR CANDELA DISTRIBUTION



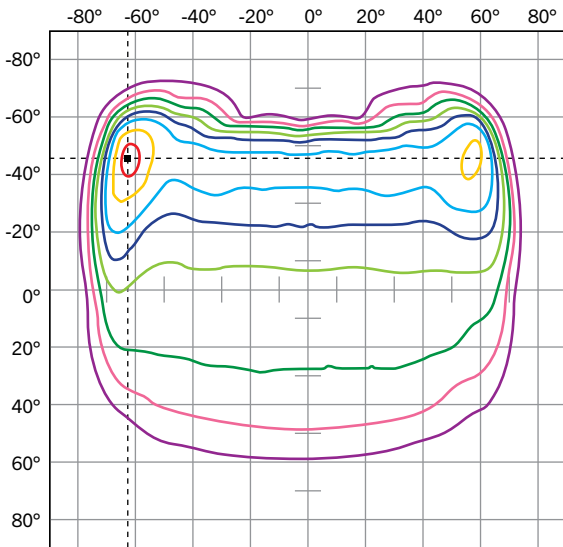
- : 0° H
- : 90° H
- : 22.5° H
- : 45° H
- : 67.5° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	2624.5	14.1%
30°-60°	6071.0	32.6%
60°-80°	2459.1	13.2%
80°-90°	92.2	0.5%
<b>Back Light</b>		
0°-30°	1782.1	9.6%
30°-60°	3617.1	19.5%
60°-80°	1875.3	10.1%
80°-90°	74.8	0.4%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>18596.1</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

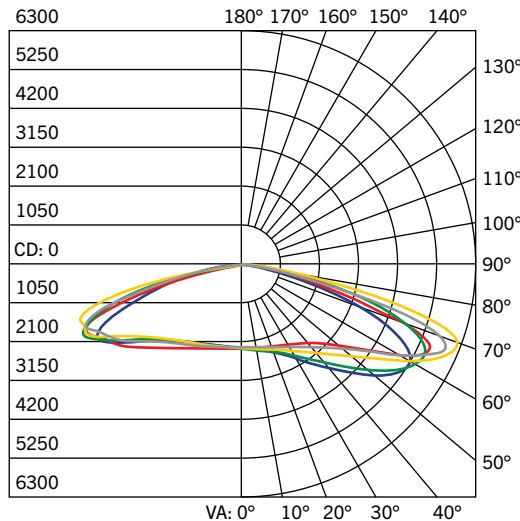
### PHOTOMETRIC SPECIFICATIONS KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM (TYPE III [3])

#### ISOCANDELA PLOT



- Point of Max Cd: 11507.4
- Cd: 10244, 90%
- Cd: 8537, 75%
- Cd: 6830, 60%
- Cd: 5691, 50%
- Cd: 4553, 40%
- Cd: 3415, 30%
- Cd: 2277, 20%
- Cd: 1138, 10%

#### POLAR CANDELA DISTRIBUTION



- : 0° H
- : 90° H
- : 22.5° H
- : 45° H
- : 67.5° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	2100.1	11.4%
30°-60°	6843.1	37.1%
60°-80°	3436.0	18.6%
80°-90°	74.8	0.4%
<b>Back Light</b>		
0°-30°	1580.5	8.6%
30°-60°	3424.5	18.6%
60°-80°	971.6	5.3%
80°-90°	27.5	0.1%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>18458.1</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G2</b>	

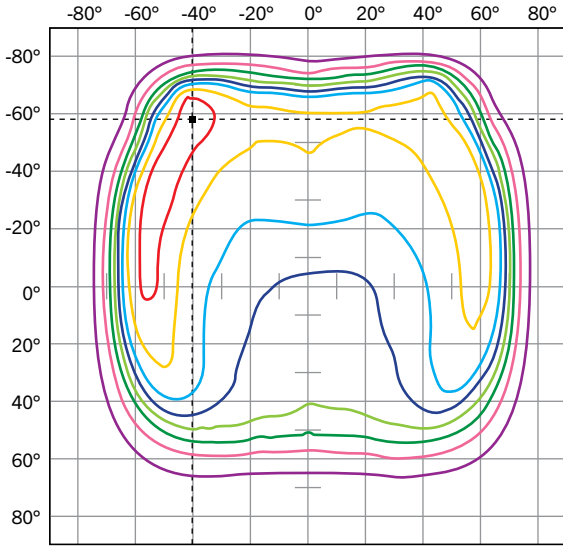


# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

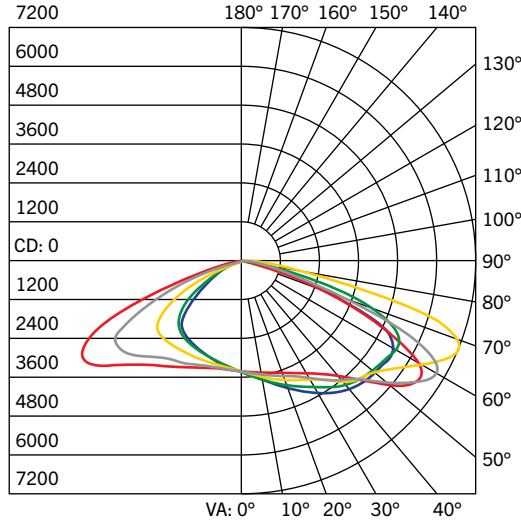
## HIGH VOLTAGE LED AREA LIGHT

### PHOTOMETRIC SPECIFICATIONS KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM (TYPE IV [4])

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION

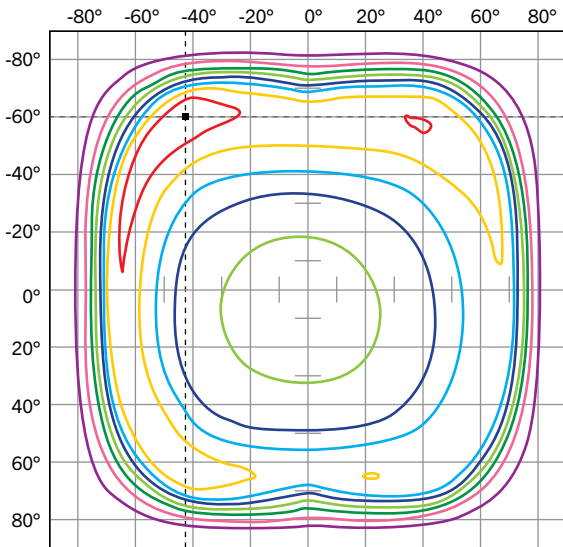


#### FLUX DISTRIBUTION

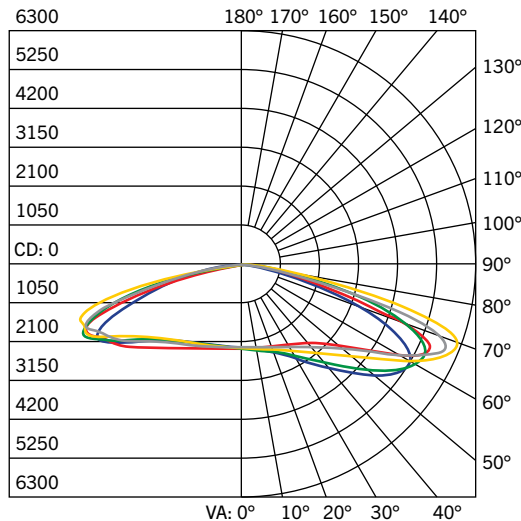
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1639.4	8.9%
30°-60°	5869.2	31.8%
60°-80°	3948.9	21.4%
80°-90°	156.8	0.9%
<b>Back Light</b>		
0°-30°	1412.6	7.7%
30°-60°	4050.9	22.0%
60°-80°	1321.3	7.2%
80°-90°	39.4	0.2%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>18438.5</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

### PHOTOMETRIC SPECIFICATIONS KT-ALED140PSHV-M2-OSA-NM-8CSB-VDIM (TYPE V [5])

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1050.7	5.6%
30°-60°	4381.6	23.5%
60°-80°	4276.7	22.9%
80°-90°	226.4	1.2%
<b>Back Light</b>		
0°-30°	986.2	5.3%
30°-60°	3543.1	19.0%
60°-80°	3930.9	21.1%
80°-90°	239.9	1.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>18635.5</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G3</b>	



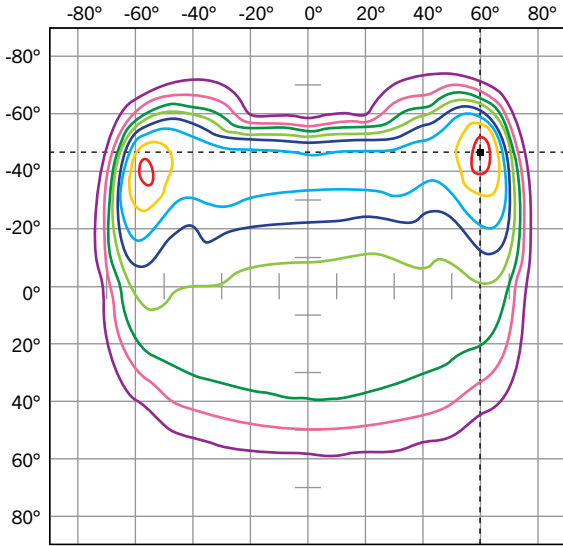


# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

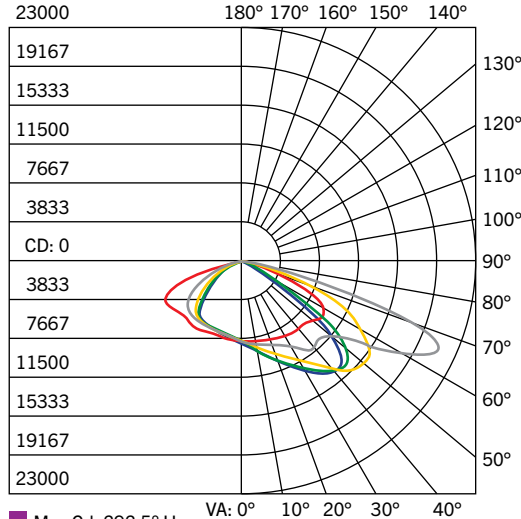
### PHOTOMETRIC SPECIFICATIONS KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM (TYPE II [2])

#### ISOCANDELA PLOT



- Point of Max Cd: 22843.3
- Cd: 20181, 90%
- Cd: 16818, 75%
- Cd: 13454, 60%
- Cd: 11212, 50%
- Cd: 8969, 40%
- Cd: 6727, 30%
- Cd: 4484, 20%
- Cd: 2242, 10%

#### POLAR CANDELA DISTRIBUTION



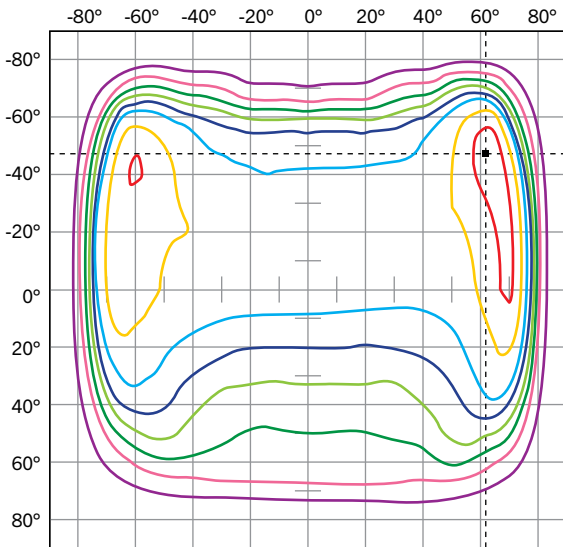
- Max Cd: 292.5° H
- : 0° H
- : 90° H
- : 22.5° H
- : 45° H
- : 67.5° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	4088.6	10.9%
30°-60°	13833.2	37.0%
60°-80°	6907.2	18.5%
80°-90°	174.4	0.5%
<b>Back Light</b>		
0°-30°	3233.0	8.6%
30°-60°	7177.5	19.2%
60°-80°	1917.8	5.1%
80°-90°	72.1	0.2%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>37403.8</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G3</b>	

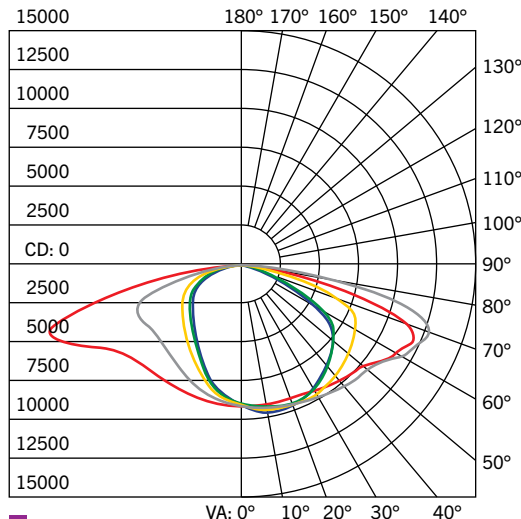
### PHOTOMETRIC SPECIFICATIONS KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM (TYPE III [3])

#### ISOCANDELA PLOT



- Point of Max Cd: 14903.9
- Cd: 13281, 90%
- Cd: 11068, 75%
- Cd: 8854, 60%
- Cd: 7378, 50%
- Cd: 5903, 40%
- Cd: 4427, 30%
- Cd: 2951, 20%
- Cd: 1476, 10%

#### POLAR CANDELA DISTRIBUTION



- Max Cd: 292.5° H
- : 0° H
- : 90° H
- : 22.5° H
- : 45° H
- : 67.5° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	4216.9	11.0%
30°-60°	10994.8	28.7%
60°-80°	7139.6	18.6%
80°-90°	481.1	1.3%
<b>Back Light</b>		
0°-30°	3443.7	9.0%
30°-60°	7447.6	19.4%
60°-80°	4454.8	11.6%
80°-90°	187.8	0.5%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>38366.3</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G4</b>	

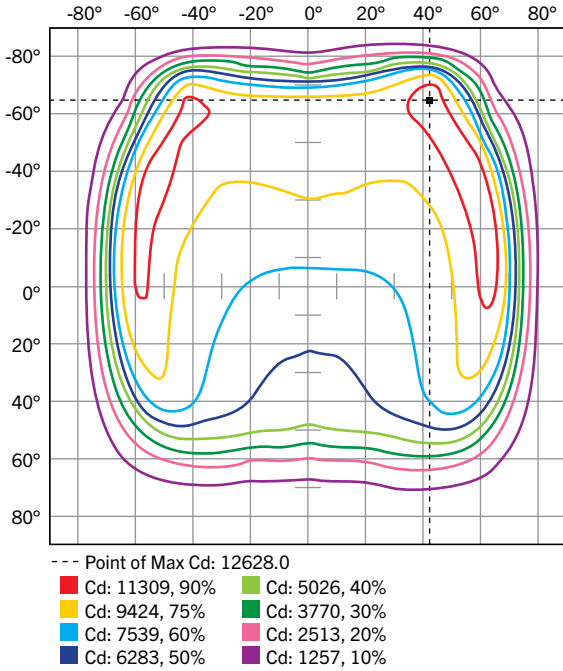


# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

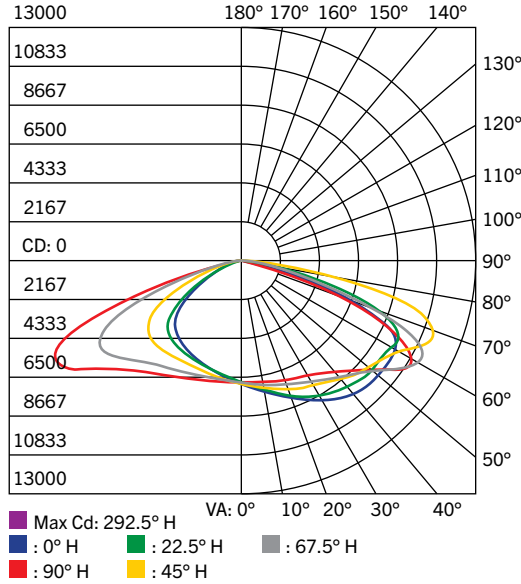
## HIGH VOLTAGE LED AREA LIGHT

### PHOTOMETRIC SPECIFICATIONS KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM (TYPE IV [4])

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION

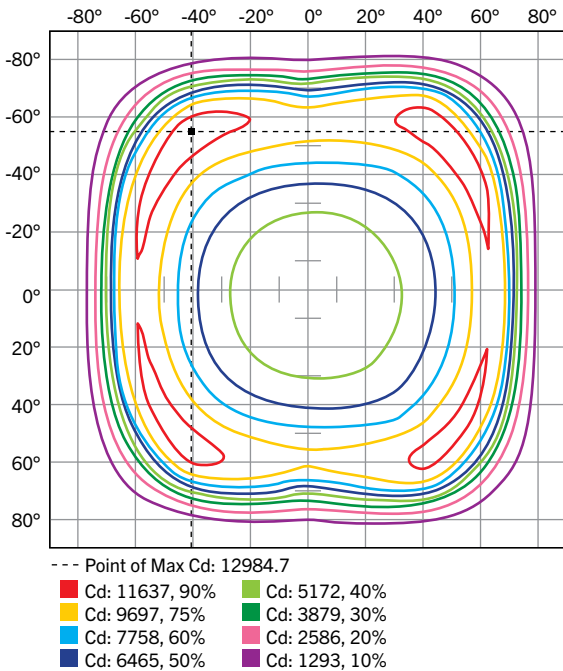


#### FLUX DISTRIBUTION

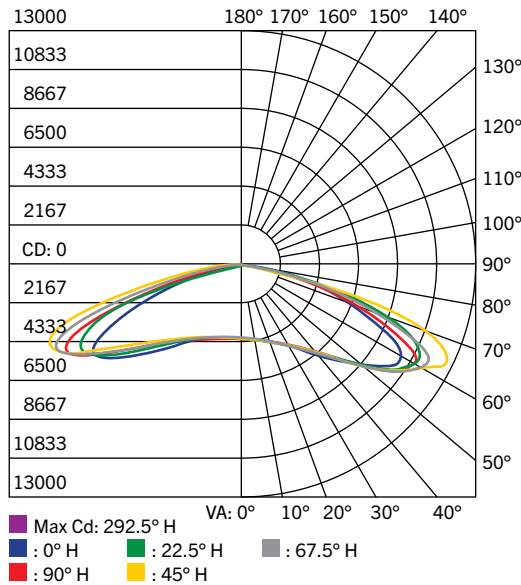
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	3387.3	9.0%
30°-60°	11096.7	29.4%
60°-80°	8593.8	22.8%
80°-90°	565.2	1.5%
<b>Back Light</b>		
0°-30°	2867.7	7.6%
30°-60°	7872.4	20.9%
60°-80°	3248.0	8.6%
80°-90°	100.5	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>37731.6</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G4</b>	

### PHOTOMETRIC SPECIFICATIONS KT-ALED290PSHV-L2-OSA-NM-8CSB-VDIM (TYPE V [5])

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	2010.1	5.2%
30°-60°	9256.0	24.0%
60°-80°	8147.2	21.1%
80°-90°	337.4	0.9%
<b>Back Light</b>		
0°-30°	1976.6	5.1%
30°-60°	8869.6	23.0%
60°-80°	7694.0	19.9%
80°-90°	284.6	0.7%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>38575.5</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B5-U0-G4</b>	



# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

### EPA SPECIFICATIONS

#### MEDIUM AND LARGE SIZE FIXTURE HOUSINGS

- Conditions: Horizontal winds only for calculations. Worst case total projected area used for calculations.
- All drag coefficients are set as worst case 1.2.
- For details on exact EPA calculations and assumptions, please contact [productsupport@keystonetech.com](mailto:productsupport@keystonetech.com)

EPA Calcs (1.2*ft^2   View)		Single Fixture	2 Fixtures at 90°	2 Fixtures at 180°	3 Fixtures at 90°	3 Fixtures at 120°	4 Fixtures at 90°	2 Fixtures Side-by-Side	3 Fixtures Side-by-Side	4 Fixtures Side-by-Side
Mounting Application	Fixture Position (Size)									
<b>Adjustable Pole Mount</b> 	Horizontal (M)	0.50 sq. ft.	0.78 sq. ft.	1.01 sq. ft.	1.19 sq. ft.	1.28 sq. ft.	1.19 sq. ft.	0.74 sq. ft.	1.11 sq. ft.	1.48 sq. ft.
	Horizontal (L)	0.62 sq. ft.	0.90 sq. ft.	1.24 sq. ft.	1.42 sq. ft.	1.48 sq. ft.	1.42 sq. ft.	0.74 sq. ft.	1.11 sq. ft.	1.48 sq. ft.
<b>Adjustable Pole Mount</b> 	45° (M)	1.27 sq. ft.	1.73 sq. ft.	1.27 sq. ft.	2.20 sq. ft.	3.10 sq. ft.	2.20 sq. ft.	2.53 sq. ft.	3.80 sq. ft.	5.07 sq. ft.
	45° (L)	1.85 sq. ft.	2.43 sq. ft.	1.85 sq. ft.	3.01 sq. ft.	4.42 sq. ft.	3.01 sq. ft.	3.70 sq. ft.	5.55 sq. ft.	7.40 sq. ft.
<b>Slip Fitter Mount</b> 	Horizontal (M)	0.48 sq. ft.	0.87 sq. ft.	0.97 sq. ft.	1.30 sq. ft.	1.37 sq. ft.	1.30 sq. ft.	0.86 sq. ft.	1.30 sq. ft.	1.73 sq. ft.
	Horizontal (L)	0.60 sq. ft.	0.98 sq. ft.	1.20 sq. ft.	1.53 sq. ft.	1.57 sq. ft.	1.53 sq. ft.	0.86 sq. ft.	1.30 sq. ft.	1.73 sq. ft.
<b>Slip Fitter Mount</b> 	45° (M)	1.34 sq. ft.	1.80 sq. ft.	1.34 sq. ft.	2.28 sq. ft.	3.06 sq. ft.	2.28 sq. ft.	2.67 sq. ft.	4.01 sq. ft.	5.35 sq. ft.
	45° (L)	1.92 sq. ft.	2.51 sq. ft.	1.92 sq. ft.	3.09 sq. ft.	4.39 sq. ft.	3.09 sq. ft.	3.84 sq. ft.	5.76 sq. ft.	7.68 sq. ft.
<b>Slip Fitter Mount</b> 	Vertical (M)	1.76 sq. ft.	2.25 sq. ft.	1.76 sq. ft.	2.73 sq. ft.	2.94 sq. ft.	2.73 sq. ft.	3.53 sq. ft.	5.29 sq. ft.	7.06 sq. ft.
	Vertical (L)	2.59 sq. ft.	3.19 sq. ft.	2.59 sq. ft.	3.80 sq. ft.	4.07 sq. ft.	3.80 sq. ft.	5.18 sq. ft.	7.77 sq. ft.	10.35 sq. ft.





# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

## HIGH VOLTAGE LED AREA LIGHT

**ACCESSORIES (SOLD SEPARATELY)**

**SENSORS**

**Factory-Installable OR Field-Installable** (field-installable purchased separately)

✓	SUFFIX*	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	/3PN	KT-TLP-HV-3PN	NEMA Type Twist-Lock 3-Pin Photocell   277-480V   1800VA Max   Yellow	843654131832	CGF-01
	/7PRS	KT-RSC-7PN	NEMA Type 7-Pin Receptacle	843654135205	BIZ-08
	/MW3	KTS-MW3-12V-PKO	12V Microwave Occupancy Sensor	843654130637	TRM-32
	/FC3**	KTSL-FC3-12V-PKO-PIR	Bluetooth mesh wireless screw-in LED controller for SmartLoop system   Integrated daylight sensor   PIR motion sensor	843654138862	OCW-60
	/FC4	KTSL-FC4-12V-PKO	Bluetooth mesh wireless screw-in low voltage fixture controller for SmartLoop system	843654149066	RUN-10



\* For factory installation of accessory, add suffix to fixture part number (see ordering examples and instructions on last page of spec sheet).  
 \*\* When installing on Keystone area lights, use small thin gasket provided with the sensor to ensure proper electrical connection and a water-tight seal. Hand tighten only. (Do NOT use the larger thick gasket. Sensor will not make electrical contact with thick gasket.) PIR sensors may not always perform reliably in typical outdoor environments. Ensure sensors are used and commissioned with this in mind. Consult Keystone for further information on the matter. When using KTSL-FC3-12V-PKO-PIR in applications with photosensor control for dusk to dawn, use 3-pin twist-lock photocells (KT-TLP-UV-3P) for optimal functionality.

**Field-Installable / Field-Use ONLY** (purchased separately)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTS-MW3-REMOTECONTROL	Remote control for KTS-MW3-12V-XX Sensors   Sets and adjusts all sensor performance parameters	843654132020	XSR-61



**LENSES**

**Field-Installable / Field-Use ONLY** (purchased separately)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-ALED-LENS-M2-2CS-KIT	Type II optics lens   Used on Series 2 area lights   Medium size   Color Select	843654153933	ICD-51
KT-ALED-LENS-M2-4CS-KIT	Type IV optics lens   Used on Series 2 area lights   Medium size   Color Select	843654153971	DZD-72
KT-ALED-LENS-L2-2CS-KIT	Type II optics lens   Used on Series 2 area lights   Large size   Color Select	843654153858	HXC-12
KT-ALED-LENS-L2-4CS-KIT	Type IV optics lens   Used on Series 2 area lights   Large size   Color Select	843654153896	CIW-62



(Accessories continued on next page)

# KT-ALEDXXXPSHV-X2-OSA-NM-8CSB-VDIM

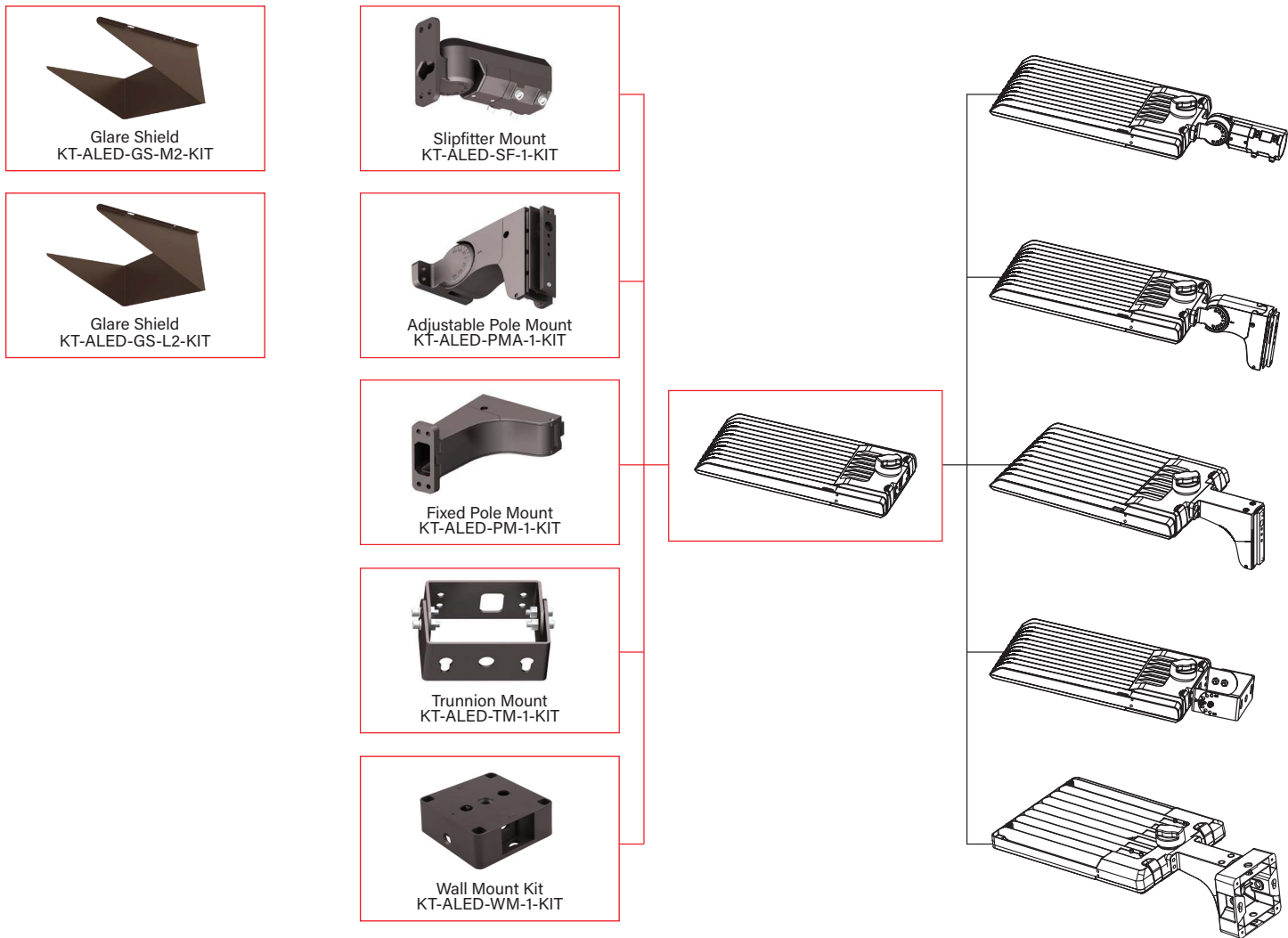
## HIGH VOLTAGE LED AREA LIGHT

**ACCESSORIES (SOLD SEPARATELY)**

**MOUNTS AND BRACKETS**

Field-Installable / Field-Use ONLY (purchased separately)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-ALED-GS-M2-KIT	Reversible glare shield   Used on Series 2 area lights   Medium size   Bronze	843654153797	HEM-55
KT-ALED-GS-L2-KIT	Reversible glare shield   Used on Series 2 area lights   Large size   Bronze	843654153810	RDW-18
KT-ALED-SF-1-KIT	Slipfitter mount   Fits 2 3/8" tenon   Bronze	843654131641	JRH-74
KT-ALED-PMA-1-KIT	Adjustable Pole Mount   For round or square pole   Bronze	843654131634	DAQ-87
KT-ALED-PM-1-KIT	Fixed Pole Mount   For round or square pole   Bronze	843654131627	QVG-29
KT-ALED-TM-1-KIT	Trunnion Mount   Bronze	843654131658	GTH-37
KT-ALED-WM-1-KIT	Wall Mount Kit   Bronze	843654158952	QCV-37



*Note: Wall mount adaptor must be used with adjustable or fixed pole mounts*

