

Date: 6/21/2024

Region: 4A  
FAC ID: NY052

CSS No.: 98092  
Maximo WO No.: 15816



Asset #: NA

Priority: Routine

**Original Work Request:**

Repair exterior pole lights. Make repairs to 7 Pole light in MEP. Fixtures are either not working or have half of the lights in the fixture are out.

**Description of Repairs Needed:**

Labor and material to a.) will need to disconnect the power to the light poles, b.) remove (7) light fixture at each of the poles that are failing, c.) install (7) KT-ALED290-L2 (1) LED light fixture, pole mount, & photocell at each pole, d.) test each for proper operation. Clean up and properly dispose of all debris generated at job site.

Labor	Labor Hrs	Labor Rate	Total
Technician	21	\$ 100.00	\$ 2,100.00
		\$ -	\$ -

Material List:	Quantity	Cost	Total
KT-ALED290-L2-OSA-NM-850-VDIM LED Light fixture	7	\$ 653.74	\$ 4,576.18
KT-ALED-PMA Pole mount	7	\$ 45.31	\$ 317.17
KT-TLP-UV-3P Twist-Lock 3-Pin photocell	7	\$ 28.60	\$ 200.20
Shipping	1	\$ 150.00	\$ 150.00
		\$ -	\$ -

Equipment List:	Quantity	Cost	Total
45' Art Manlift w/jib	1	\$ 1,980.39	\$ 1,980.39
		\$ -	\$ -
		\$ -	\$ -

**PM WO History:**

NA

**Estimate Summary:**

Labor	Material	Equipment
\$2,100.00	\$ 5,243.55	\$1,980.39

Sub Total	G&A 12%	Fee 6%	Total Estimate
\$9,323.94	--	--	\$9,323.94

Note: G&A and Fee are not applied on top of work performed by Tidewater.



Prepared by:

Tidewater, Inc.  
6625 Selknick Drive, Suite A  
Elkridge, MD 21075

Prepared for:

CMI Management, Inc.  
5285 Shawnee Road Suite 510  
Alexandria, VA 22312-2334

Date: 6/21/2024 CSS #: 98092  
FAC ID: NY052 WO #: 15816

DESCRIPTION OF WORK			
Labor and material to a.) will need to disconnect the power to the light poles, b.) remove (7) light fixture at each of the poles that are failing, c.) install (7) KT-ALED290-L2 (1) LED light fixture, pole mount, & photocell at each pole, d.) test each for proper operation. Clean up and properly dispose of all debris generated at job site.			

LABOR	QTY	UNIT/RATE	TOTAL
Technician	21	\$100.00	\$2,100.00
		\$0.00	\$0.00
MATERIAL	QTY	UNIT/RATE	TOTAL
KT-ALED290-L2-OSA-NM-850-VDIM LED Light fixture	7	\$653.74	\$4,576.18
KT-ALED-PMA Pole mount	7	\$45.31	\$317.17
KT-TLP-UV-3P Twist-Lock 3-Pin photocell	7	\$28.60	\$200.20
Shipping	1	\$150.00	\$150.00
		\$0.00	\$0.00
		\$0.00	\$0.00
EQUIPMENT	QTY	UNIT/RATE	TOTAL
45' Art Manlift w/jib	1	\$1,980.39	\$1,980.39
		\$0.00	\$0.00
		\$0.00	\$0.00
SUB-TOTAL COSTS:		LABOR TOTAL	\$2,100.00
		MATERIAL TOTAL	\$5,243.55
		EQUIPMENT TOTAL	\$1,980.39
TOTAL COST:			\$9,323.94

Accepted By: \_\_\_\_\_

Date: \_\_\_\_\_



## KT-ALED290-L2-OSA-NM-8XX-VDIM

### LED AREA LIGHT FIXTURES

#### DESCRIPTION

290W Optic Swap LED Area Light | 120–277V 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)



RoHS Compliant

5 YEAR WARRANTY



#### PRODUCT FEATURES

- Innovative optic swap capability under door frame and latch design for quick 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 compliant performance eliminates undesirable sky glow
- Integrated NEMA/ANSI C136.10 3-pin twist-lock receptacle with shorting cap, standard on all fixtures, simplifies ordering requirements for photo control needs
- Four contractor-friendly mounting options available (sold separately): slip fitter mount, adjustable pole mount for square and round poles, fixed pole mount for square and round poles, and trunnion mount
- 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

#### PRODUCT SPECIFICATIONS

Catalog No.	Wattage	CCT	Lumens	Efficacy	Input Voltage	Dimming	CRI	Distribution Pattern	Photocell Included	Housing Color	Legacy Equivalent
KT-ALED290-L2-OSA-NM-840-VDIM	290W	4000K	42420	146 lm/W	120-277V	0-10V	>80	Type III Installed, Type V Included	No	Bronze	1000W MH
KT-ALED290-L2-OSA-NM-850-VDIM		5000K									

\* Fixtures with Type 2 (II) and Type 4 (IV) optics are available and assembled to order. Lead times may apply.

\*\* 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.

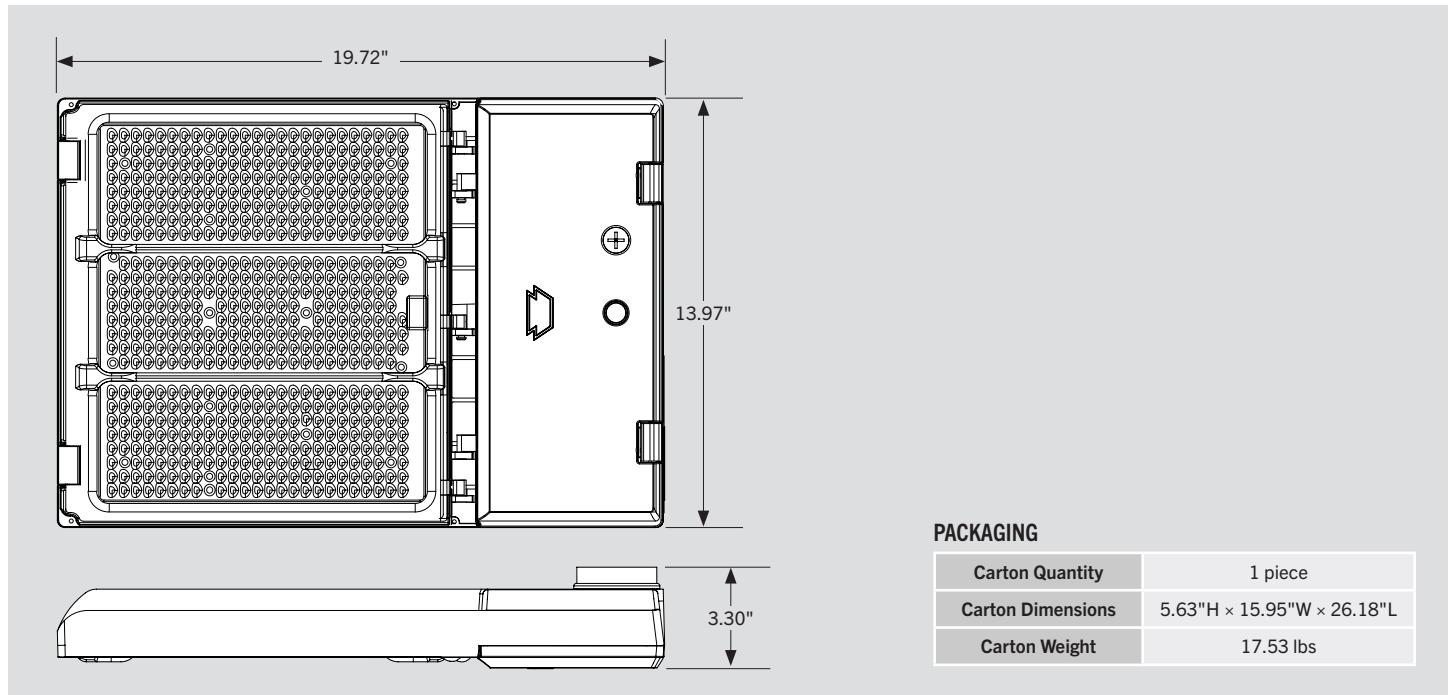


## KT-ALED290-L2-OSA-NM-8XX-VDIM

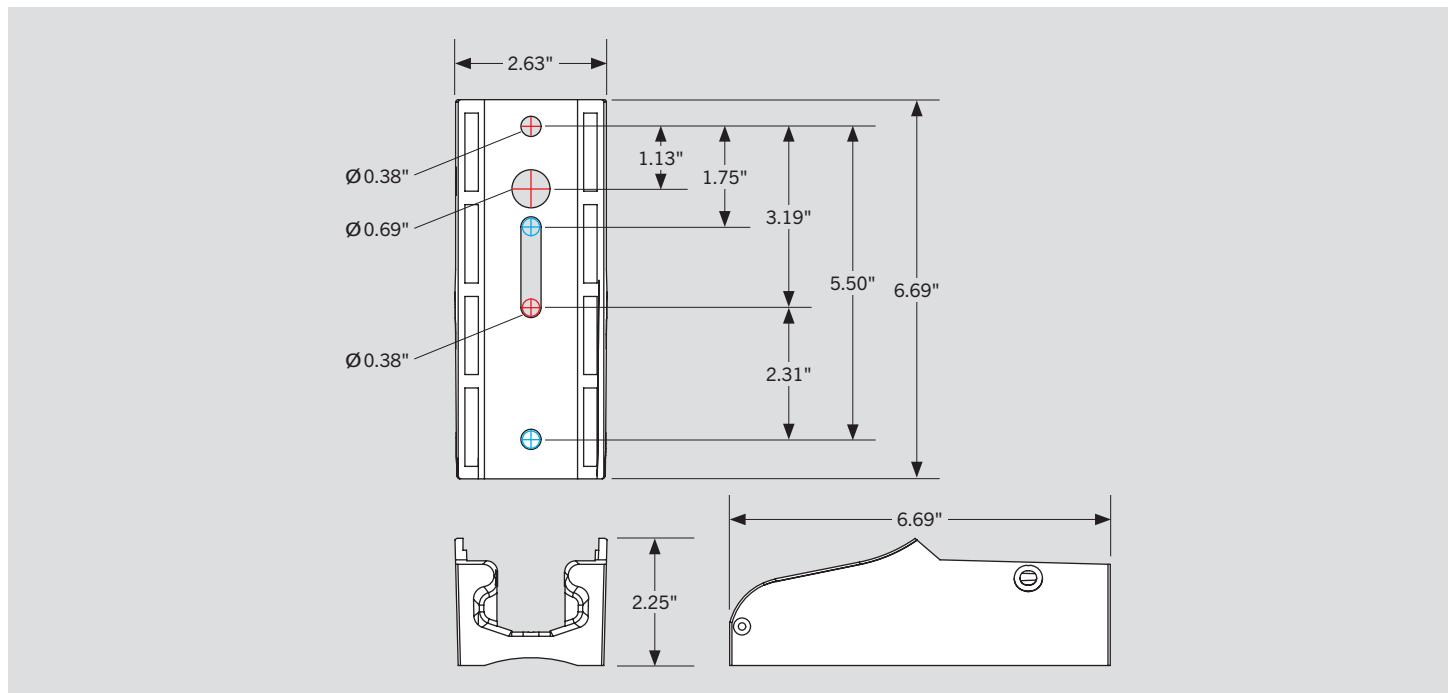
### LED AREA LIGHT FIXTURES

#### PHYSICAL SPECIFICATIONS

##### LED AREA LIGHT FIXTURE



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

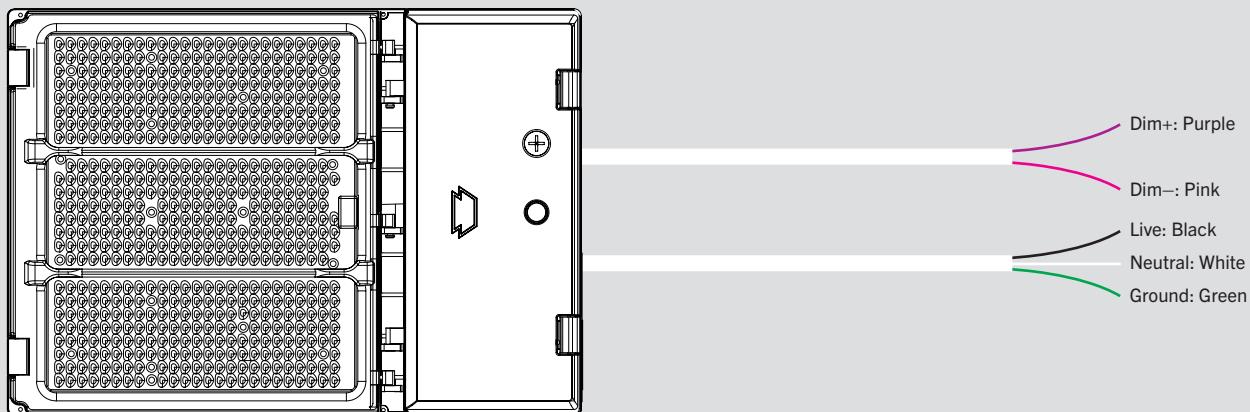




## KT-ALED290-L2-OSA-NM-8XX-VDIM

### LED AREA LIGHT FIXTURES

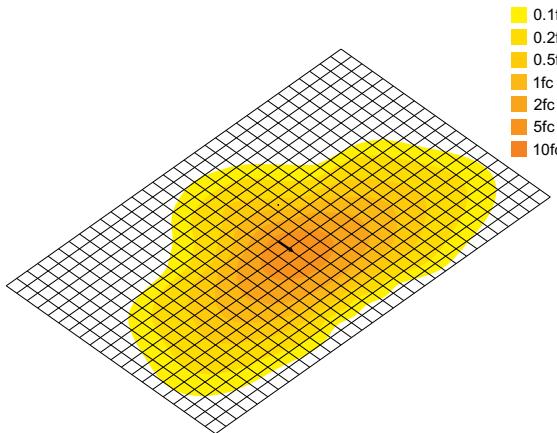
#### WIRING DIAGRAM



#### LIGHT DISTRIBUTION PATTERN

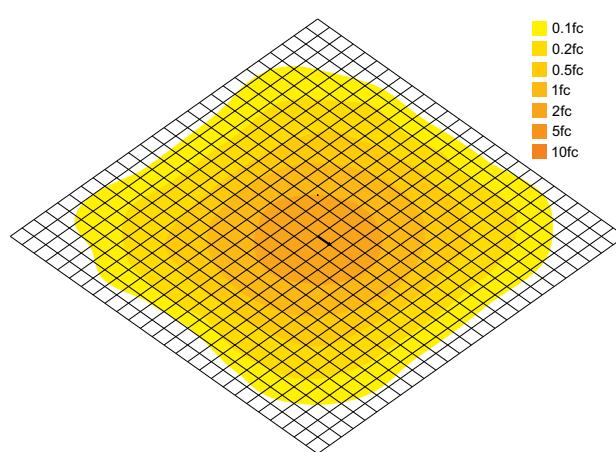
##### TYPE III (3)

Pole mount view from above. Area light mounted at 30 ft.  
Each square is 10 ft x 10 ft



##### TYPE V (5)

Pole mount view from above. Area light mounted at 30 ft.  
Each square is 10 ft x 10 ft



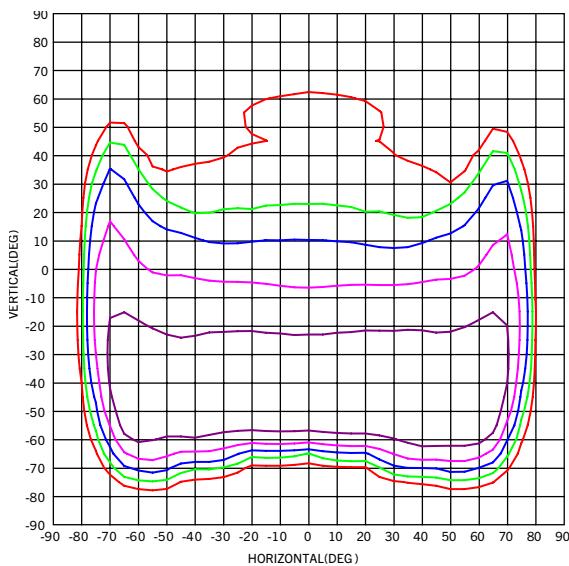


# KT-ALED290-L2-OSA-NM-8XX-VDIM

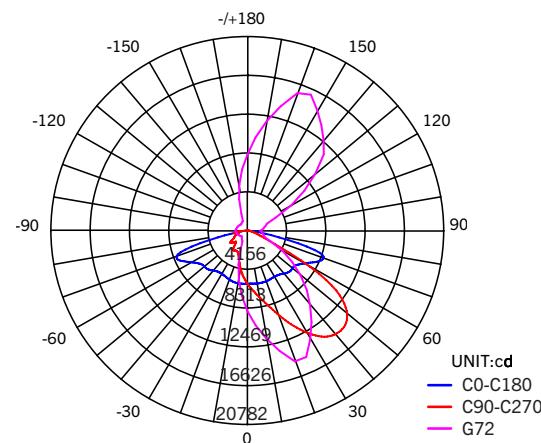
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE III [3])

#### ISOCANDELA PLOT

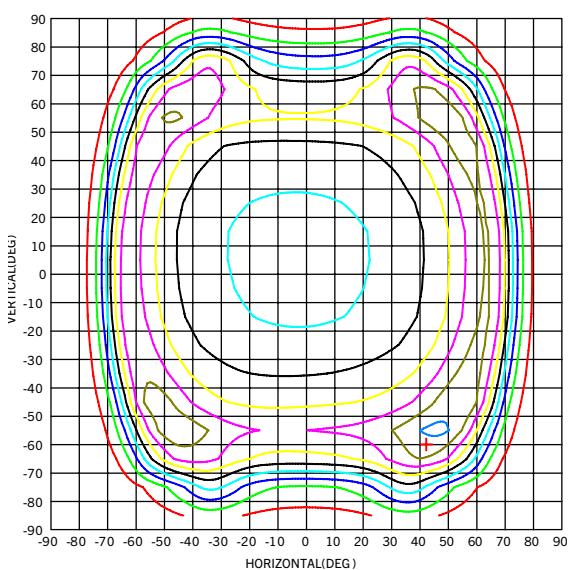


#### LUMINOUS INTENSITY DISTRIBUTION

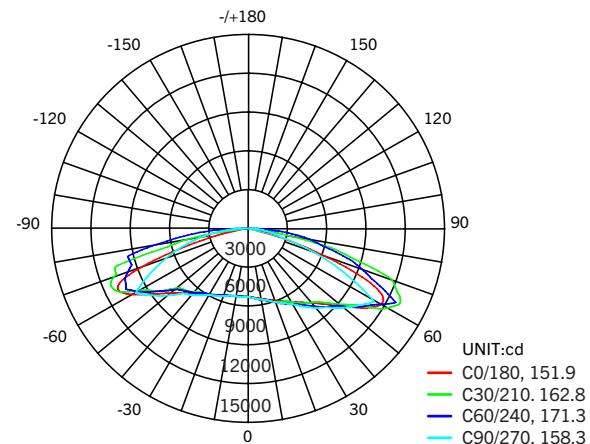


### PHOTOMETRIC SPECIFICATIONS (TYPE V [5])

#### ISOCANDELA PLOT



#### LUMINOUS INTENSITY DISTRIBUTION





# KT-ALED290-L2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### EPA SPECIFICATIONS

#### Large-Size Fixture Housing

*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									
Adjustable Pole Mount 	Horizontal	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.
Adjustable Pole Mount 	45°	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.
Slip Fitter Mount 	Horizontal	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.
Slip Fitter Mount 	45°	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.
Slip Fitter Mount 	Vertical	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-ALED290-L2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### ACCESSORIES (SOLD SEPARATELY)

#### SENSORS

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

✓	SUFFIX*	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	/3PN	KT-TLP-UV-3PN	NEMA Type Twist-Lock 3-Pin Photocell 120–277V, 1800VA Max; Blue Housing	843654131825	NQT-46
	/7PRS	KT-RSC-7PN	NEMA Type 7-Pin Receptacle and Shorting Cap	843654135205	BIZ-08
	/MW3	KTS-MW3-12V-PKO	12V Microwave Occupancy Sensor	843654130637	TRM-32
	/FC3	KTS-FC3-12V-PKO-PIR	Bluetooth mesh wireless Smart Port LED controller for SmartLoop system with integrated daylight and PIR motion sensor.	843654138862	OCW-60
	/FC4	KTS-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).

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

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTS-MW3-REMOTECOMMAND	Remote Control for KTS-MW3-12V-XX Sensors, Sets/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-L2-2-KIT	Type II Optics Lens for CCT Dedicated, Large Size Housing, Series 2 Area Lights	843654153841	NFU-40
KT-ALED-LENS-L2-4-KIT	Type IV Optics Lens for CCT Dedicated, Large Size Housing, Series 2 Area Lights	843654153889	BSU-72



\*For factory installation of accessory, add suffix to fixture part number (see ordering examples and instructions on last page of spec sheet).



# KT-ALED290-L2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### ACCESSORIES (SOLD SEPARATELY)

#### MOUNTS AND BRACKETS

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

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-ALED-GS-L2-KIT	Reversible Glare Shield for Large Size Housing, Series 2 Area Lights, Bronze	843654153810	RDW-18
KT-ALED-SF-1-KIT	Slip Fitter Mount, Fits 2 3/8" tennon; 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; Bronz	843654131627	QVG-29
KT-ALED-TM-1-KIT	Trunnion Mount, Bronze	843654131658	GTH-37

Glare Shield  
KT-ALED-GS-L1-KIT



Slip Fitter Mount  
KT-ALED-SF-1-KIT



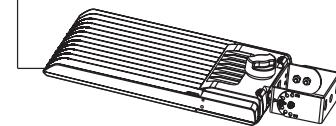
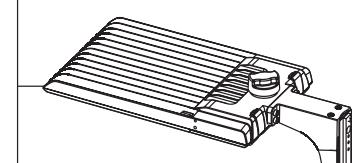
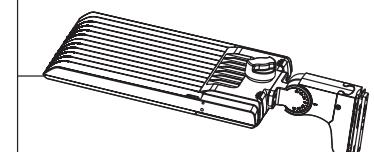
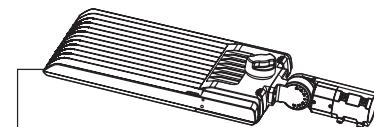
Adjustable Pole Mount  
KT-ALED-PMA-1-KIT



Fixed Pole Mount  
KT-ALED-PM-1-KIT



Trunnion Mount  
KT-ALED-TM-1-KIT



\* For factory installation of accessory, add suffix to fixture part number (see ordering examples and instructions on last page of spec sheet).



## KT-ALED290-L2-OSA-NM-8XX-VDIM

### LED AREA LIGHT FIXTURES

#### ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	Easy Code
KT-ALED290-L2-OSA-NM-840-VDIM	1	843654153049	RZT-170
KT-ALED290-L2-OSA-NM-850-VDIM	1	8843654153056	RMW-20

#### CATALOG NUMBER BREAKDOWN

## KT-ALED290-L2-OSA-NM-8XX-VDIM

1 2 3 4 5 6 7 8 9 10 11 12 13

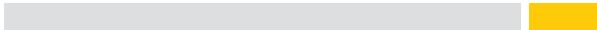
1 Keystone Technologies	8 Optic Swap Designation
2 Area Light	9 No Mounting
3 LED Technology	10 80 CRI
4 Wattage	11 CCT
5 Size/Shape	12 0-10V Dimming
6 Style/Design Designation	13 Options
7 Optic Swap	7 Optic Swap Designation

A Type III lens installed, Type V lens included

#### ORDERING EXAMPLES

##### Fixture with single factory-installed accessory

KT-ALED290-L2-OSA-NM-8XX-VDIM /7PRS



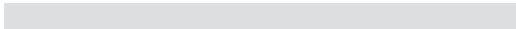
##### KEYSTONE FIXTURE

##### CATALOG NUMBER

KT-ALED290-L2-OSA-NM-8XX-VDIM

##### Fixture with no factory-installed accessories

KT-ALED290-L2-OSA-NM-8XX-VDIM



##### SENSORS

SUFFIX	CATALOG NUMBER
/7PRS	KT-RSC-7PN

\* When ordering more than one factory-installed accessory, use multiple suffixes as shown in the ordering examples above.  
 Note: All accessories can also be ordered separately for field installation using just their regular Catalog Number, UPC, or Easy Code.



MODEL: FL2F28030

Item No.: FL2G042

INPUT: 120-277V, 50/60Hz, Max 0.82A, 80W

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE  
WITH THE APPLICABLE INSTALLATION CODE BY  
A PERSON FAMILIAR WITH THE CONSTRUCTION AND  
OPERATION OF THE PRODUCT AND THE HAZARDS  
INVOLVED. CAUTION - RISK OF SHOCK. DISCONNECT  
POWER BEFORE SERVICING. SUITABLE FOR OPERATION IN  
AMBIENT NOT EXCEEDING 40°C. SUITABLE FOR THE LOCATION

FILE E341511



07/2018  
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