

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

FAC ID: NY052

CSS #: 98092

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)



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.

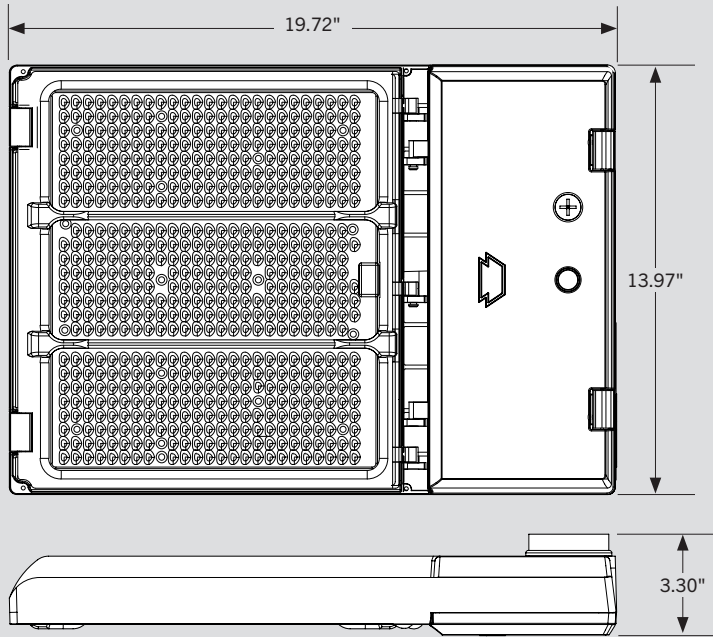
** Fixtures (and mounts) with alternate housing colors are available and made to order. Extended lead times apply.
Please see catalog number breakdown for full ordering code details.

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

LED AREA LIGHT FIXTURES

PHYSICAL SPECIFICATIONS

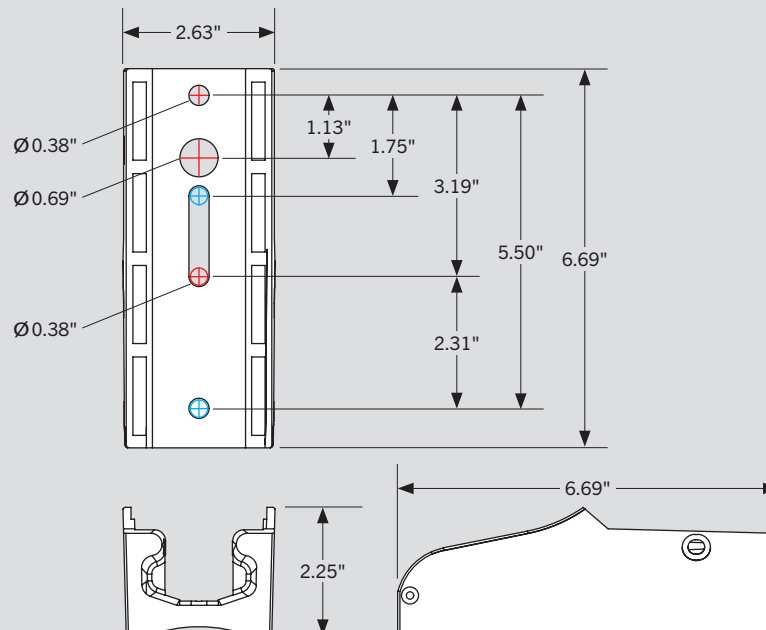
LED AREA LIGHT FIXTURE



PACKAGING

Carton Quantity	1 piece
Carton Dimensions	5.63"H × 15.95"W × 26.18"L
Carton Weight	17.53 lbs

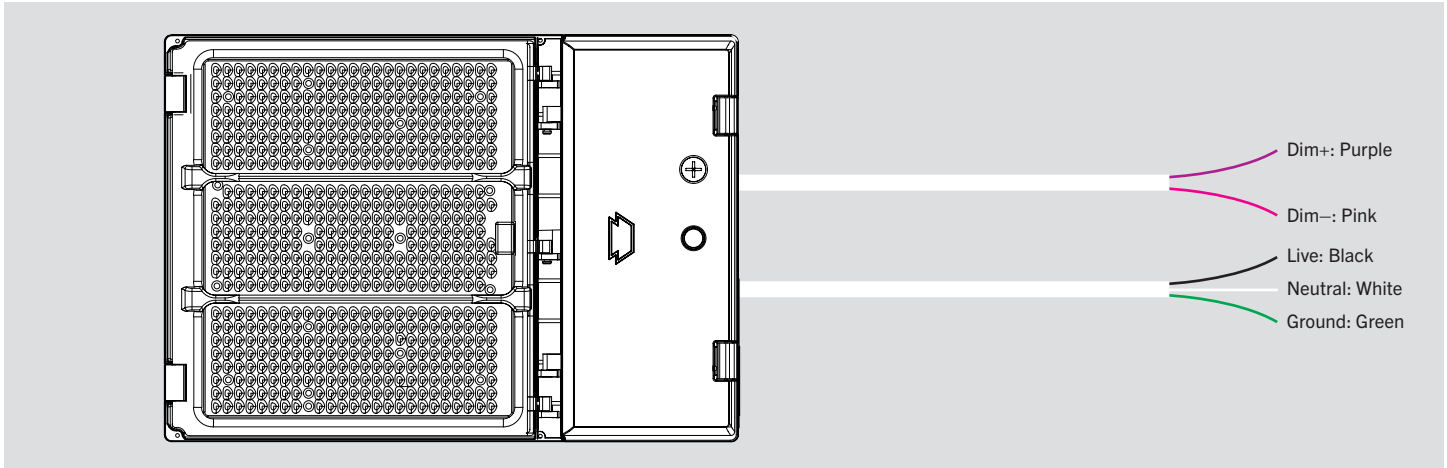
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



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

LED AREA LIGHT FIXTURES

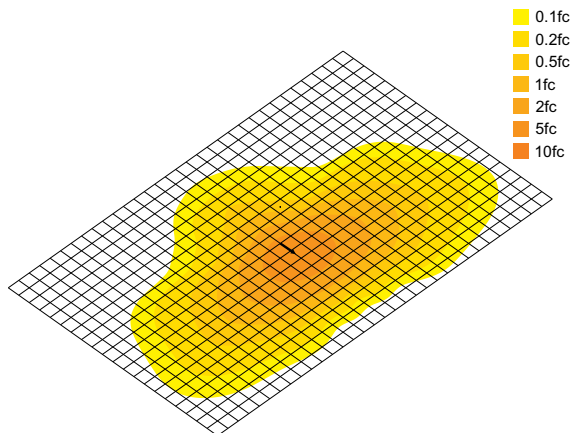
WIRING DIAGRAM



LIGHT DISTRIBUTION PATTERN

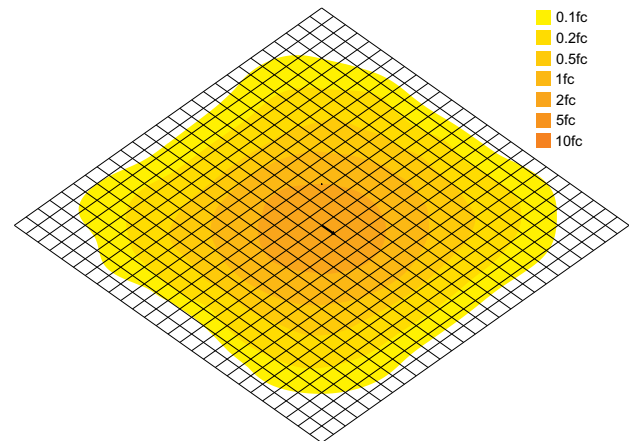
TYPE III (3)

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

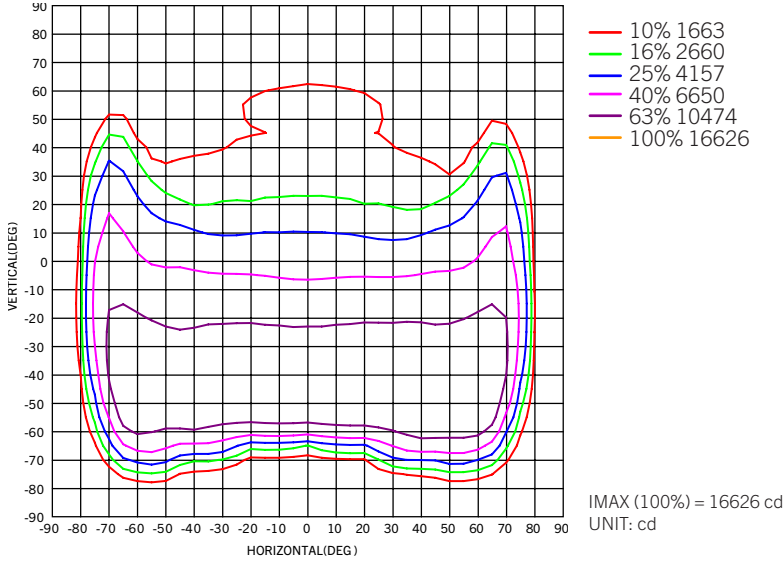


KT-ALED290-L2-OSA-NM-8XX-VDIM

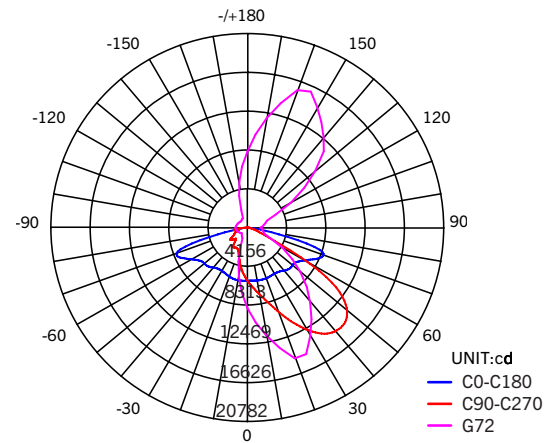
LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE III [3])

ISOCANDELA PLOT

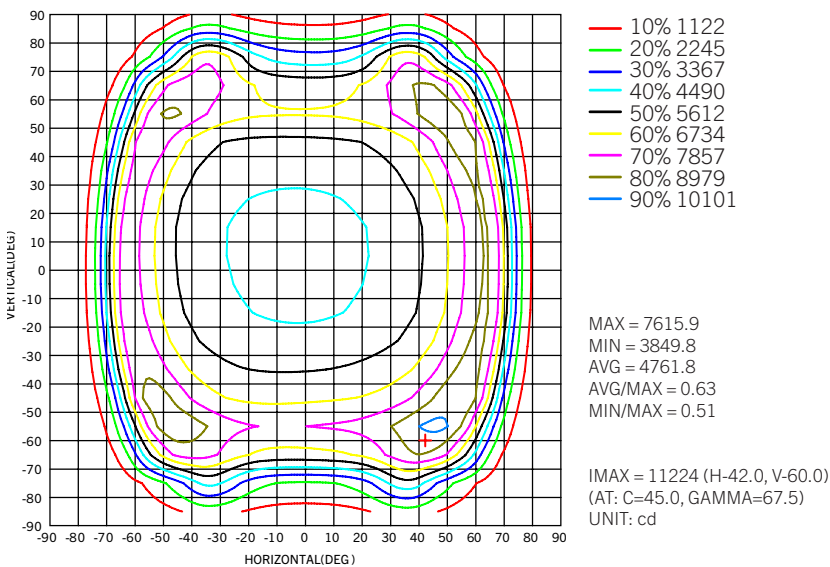


LUMINOUS INTENSITY DISTRIBUTION

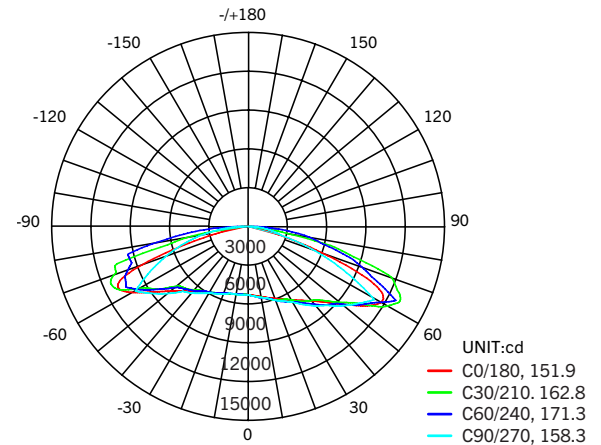


PHOTOMETRIC SPECIFICATIONS (TYPE V [5])

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

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	KTSL-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	KTSL-FC4-12V-PKO	Bluetooth mesh wireless screw-in low voltage fixture controller for SmartLoop system	843654149066	RUN-10



Twist-Lock Area Light Control
KT-TLP-UV-3PN



Twist-Lock Area Light Control
KT-RSC-7PN



Microwave Occupancy Sensor
KTS-MW3-12V-PKO



Smart Port LED Controller
KTSL-FC3-12V-PKO-PIR



Screw-In Fixture Controller
KTSL-FC4-12V-PKO

* 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-REMOTECONTROL	Remote Control for KTS-MW3-12V-XX Sensors, Sets/adjusts all sensor performance parameters	843654132020	XSR-61

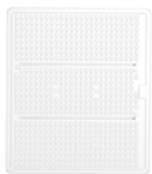


Remote Control
KTS-MW3-REMOTECONTROL

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



Lenses
KT-ALED-LENS-L2-2-KIT



Lenses
KT-ALED-LENS-L2-4-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

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



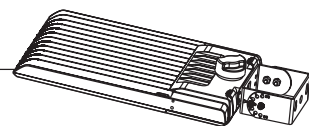
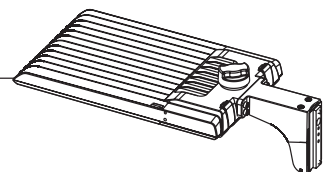
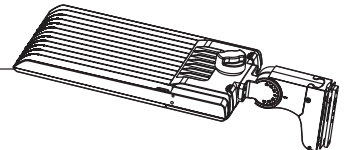
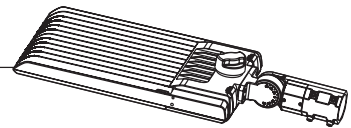
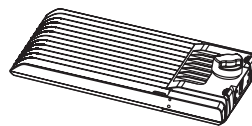
Adjustable Pole Mount
KT-ALED-PMA-1-KIT



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
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- | | |
|----------------------------|--------------------------|
| 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 | |

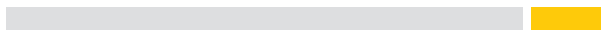
7 Optic Swap Designation

A	Type III lens installed, Type V lens included
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ORDERING EXAMPLES

FIXTURE WITH SINGLE FACTORY-INSTALLED ACCESSORY

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



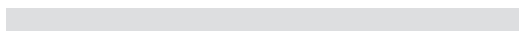
KEYSTONE FIXTURE

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

FILE E34511

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

07/2018
E35111

INVOLVED. CAUTION - RISK OF SHOCK. DISCONNECT
POWER BEFORE SERVICING. SUITABLE FOR OPERATION IN
AMBIENT NOT EXCEEDING 40°C. SUITABLE FOR THE LOCATION.













