



# KT-ALED140-M2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### DESCRIPTION

140W 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-ALED140-M2-OSA-NM-840-VDIM | 140W    | 4000K | 20920  | 149 lm/W | 120-277V      | 0-10V   | >80 | Type III Installed, Type V Included        | No                 | Bronze        | 400W MH           |
| KT-ALED140-M2-OSA-NM-850-VDIM |         | 5000K |        |          |               |         |     | Types II and IV Available, Sold Separately |                    |               |                   |

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

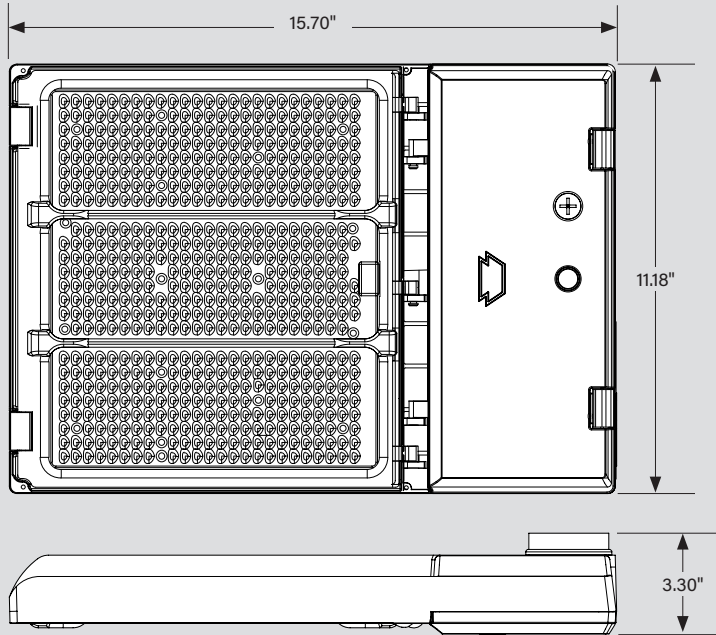
\*\* Fixtures (and mounts) with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

# KT-ALED140-M2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### PHYSICAL SPECIFICATIONS

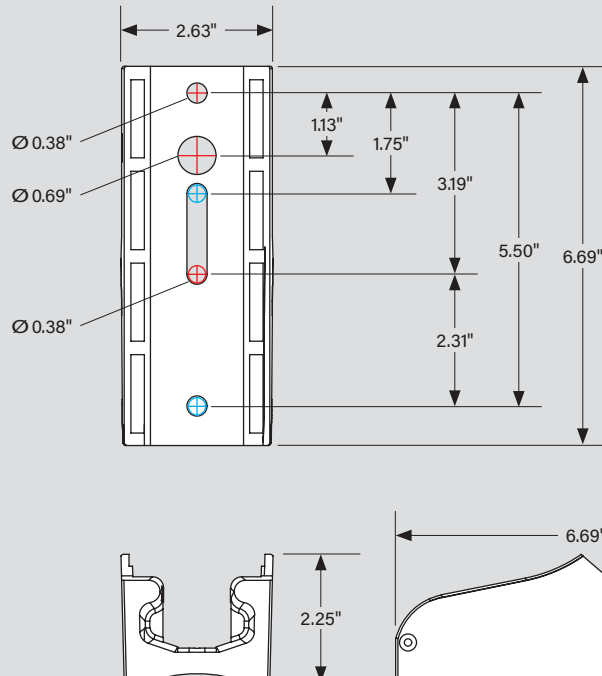
#### LED AREA LIGHT FIXTURE



#### PACKAGING

|                   |                            |
|-------------------|----------------------------|
| Carton Quantity   | 1 piece                    |
| Carton Dimensions | 5.63"H x 13.15"W x 21.65"L |
| Carton Weight     | 12.35 lbs                  |

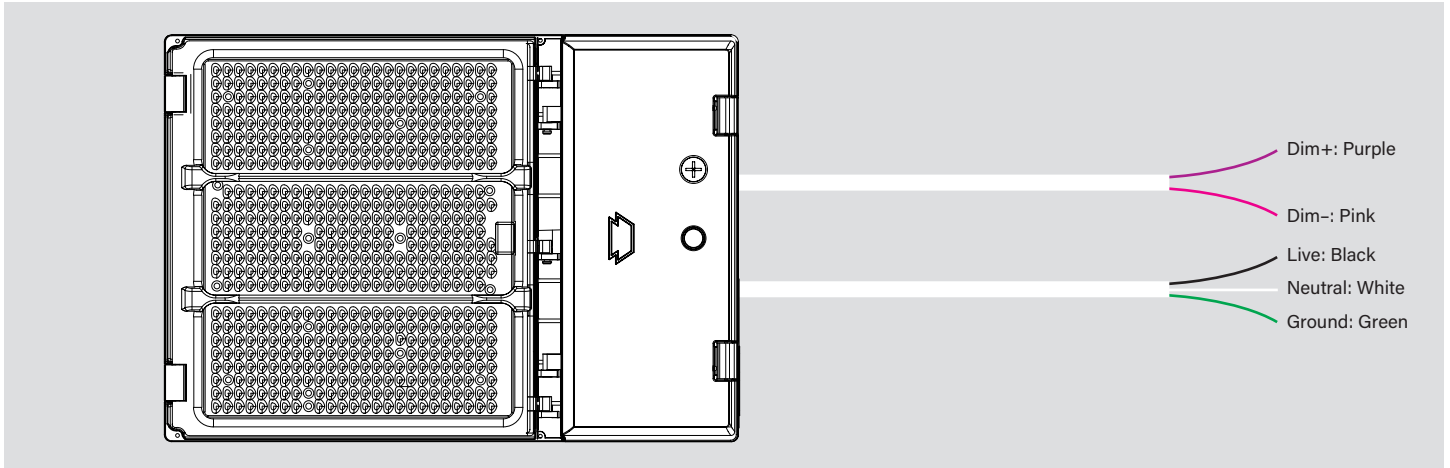
#### POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



# KT-ALED140-M2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

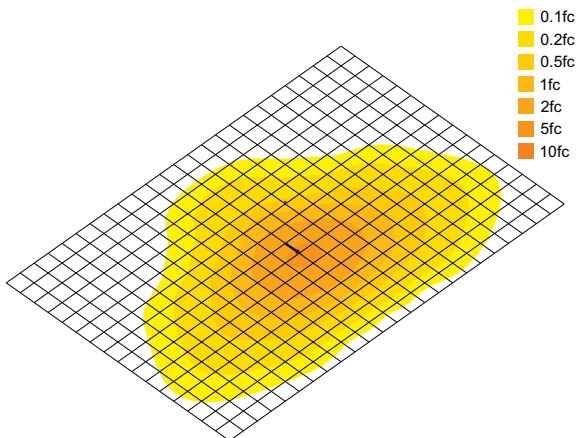
### WIRING DIAGRAM



### LIGHT DISTRIBUTION PATTERN

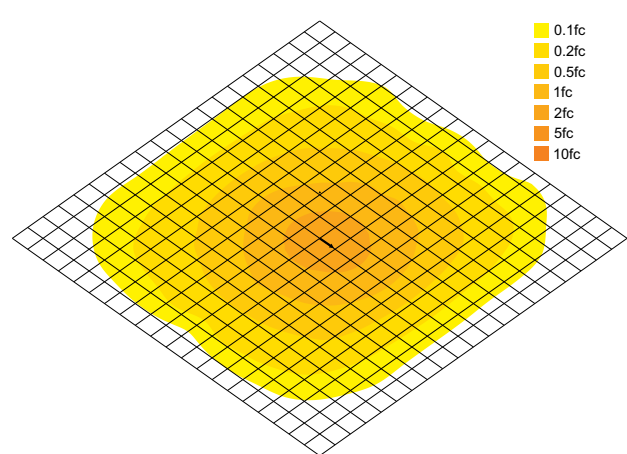
#### TYPE III (3)

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

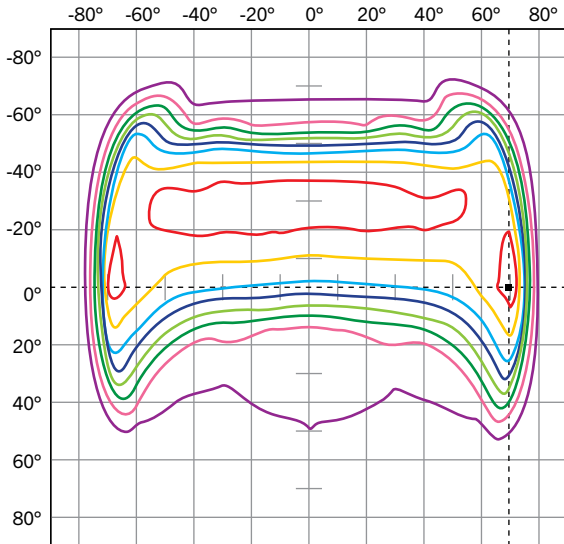


# KT-ALED140-M2-OSA-NM-8XX-VDIM

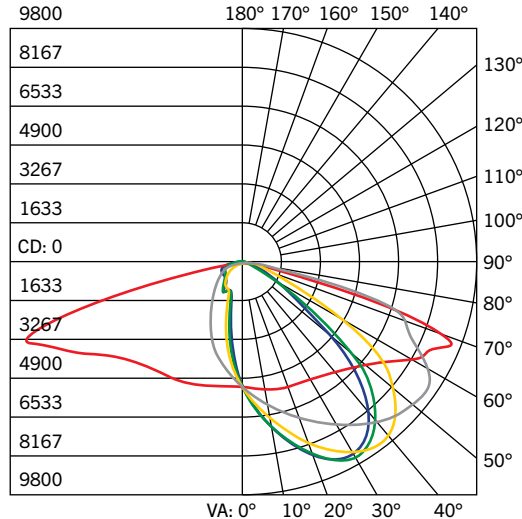
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE II [2])

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION

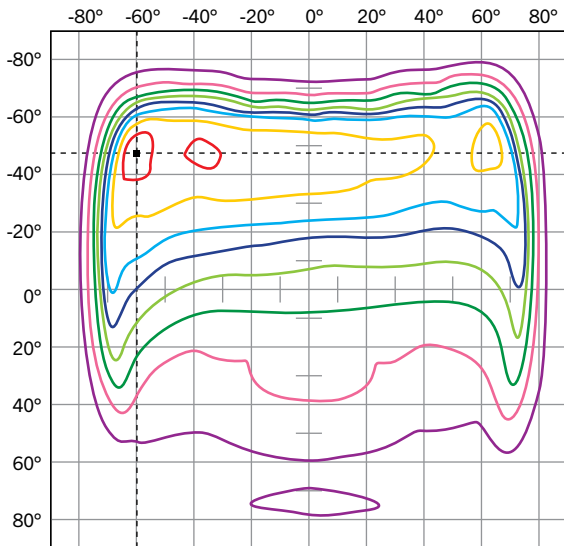


#### FLUX DISTRIBUTION

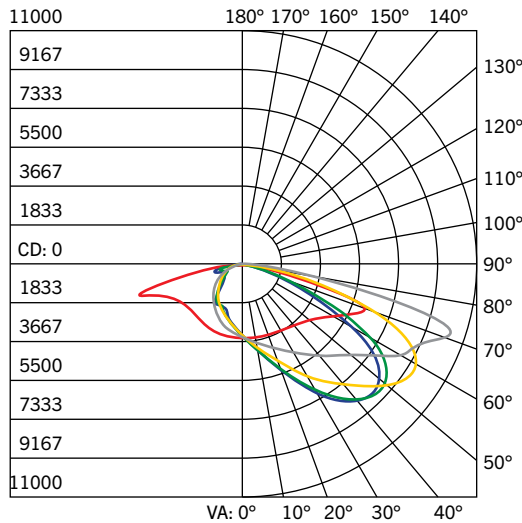
| Zone                 | Lumens          | % Luminaire   |
|----------------------|-----------------|---------------|
| <b>Forward Light</b> |                 |               |
| 0°-30°               | 3186.7          | 16.1%         |
| 30°-60°              | 8489.0          | 42.9%         |
| 60°-80°              | 3168.5          | 16.0%         |
| 80°-90°              | 93.8            | 0.5%          |
| <b>Back Light</b>    |                 |               |
| 0°-30°               | 1190.4          | 6.0%          |
| 30°-60°              | 2131            | 10.8%         |
| 60°-80°              | 1450.0          | 7.3%          |
| 80°-90°              | 66.9            | 0.3%          |
| <b>Up Light</b>      |                 |               |
| 90°-100°             | 0.0             | 0.0%          |
| 100°-180°            | 0.0             | 0.0%          |
| <b>Total</b>         | <b>19777.0</b>  | <b>100.0%</b> |
| <b>BUG Rating</b>    | <b>B3-U0-G3</b> |               |

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

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



#### FLUX DISTRIBUTION

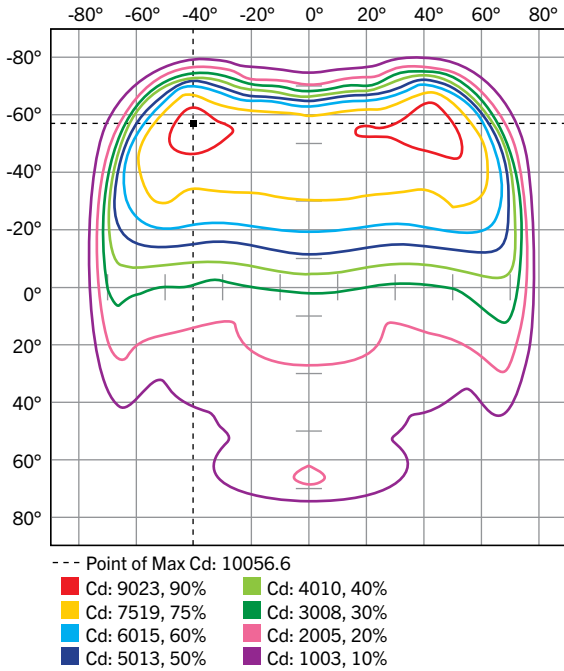
| Zone                 | Lumens          | % Luminaire   |
|----------------------|-----------------|---------------|
| <b>Forward Light</b> |                 |               |
| 0°-30°               | 1987.8          | 10.0%         |
| 30°-60°              | 7930.7          | 39.8%         |
| 60°-80°              | 4932.6          | 24.8%         |
| 80°-90°              | 287.8           | 1.4%          |
| <b>Back Light</b>    |                 |               |
| 0°-30°               | 1155.2          | 5.8%          |
| 30°-60°              | 2197.3          | 11.0%         |
| 60°-80°              | 1305.0          | 6.6%          |
| 80°-90°              | 122.1           | 0.6%          |
| <b>Up Light</b>      |                 |               |
| 90°-100°             | 0.0             | 0.0%          |
| 100°-180°            | 0.0             | 0.0%          |
| <b>Total</b>         | <b>19918.5</b>  | <b>100.0%</b> |
| <b>BUG Rating</b>    | <b>B3-U0-G3</b> |               |

# KT-ALED140-M2-OSA-NM-8XX-VDIM

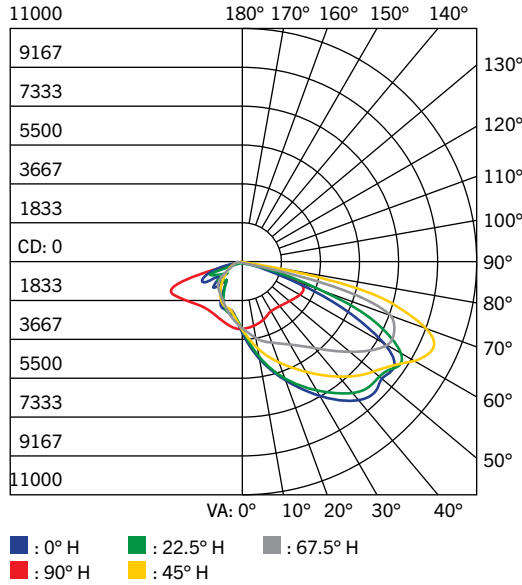
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE IV [4])

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION

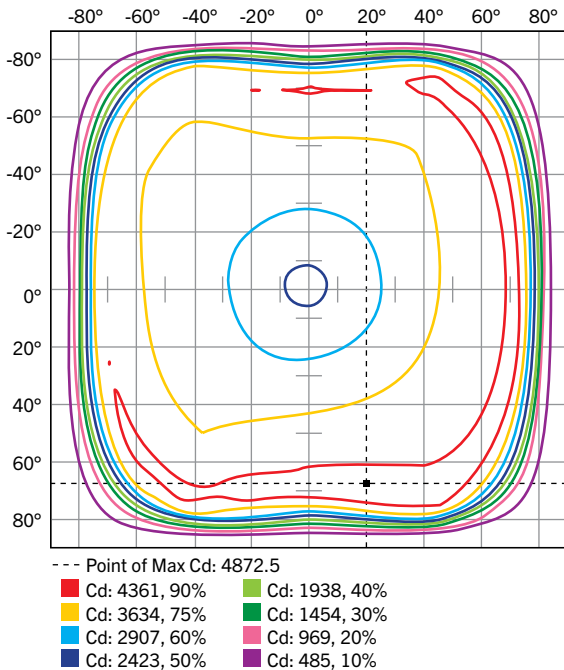


#### FLUX DISTRIBUTION

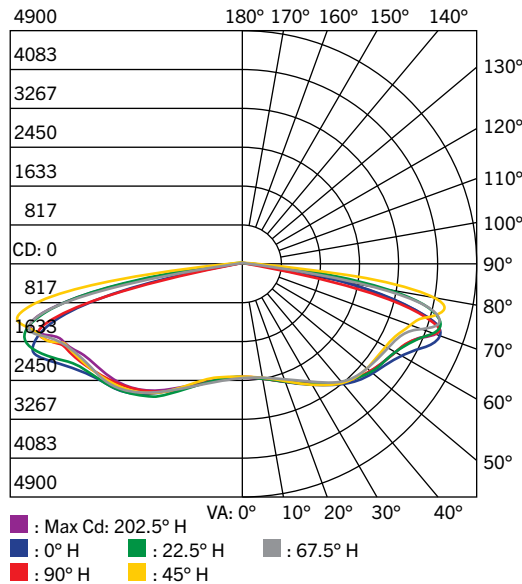
| Zone                 | Lumens          | % Luminaire   |
|----------------------|-----------------|---------------|
| <b>Forward Light</b> |                 |               |
| 0°-30°               | 2060.6          | 10.3%         |
| 30°-60°              | 8129.9          | 40.7%         |
| 60°-80°              | 5588.9          | 28.0%         |
| 80°-90°              | 185.5           | 0.9%          |
| <b>Back Light</b>    |                 |               |
| 0°-30°               | 1006.7          | 5.0%          |
| 30°-60°              | 1807.9          | 9.1%          |
| 60°-80°              | 1112.2          | 5.6%          |
| 80°-90°              | 59.6            | 0.3%          |
| <b>Up Light</b>      |                 |               |
| 90°-100°             | 0.0             | 0.0%          |
| 100°-180°            | 0.0             | 0.0%          |
| <b>Total</b>         | <b>19951.3</b>  | <b>100.0%</b> |
| <b>BUG Rating</b>    | <b>B3-U0-G3</b> |               |

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

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



#### FLUX DISTRIBUTION

| Zone                 | Lumens          | % Luminaire   |
|----------------------|-----------------|---------------|
| <b>Forward Light</b> |                 |               |
| 0°-30°               | 1132.6          | 5.7%          |
| 30°-60°              | 3946.2          | 20.0%         |
| 60°-80°              | 4046.6          | 20.5%         |
| 80°-90°              | 584.7           | 3.0%          |
| <b>Back Light</b>    |                 |               |
| 0°-30°               | 1166.4          | 5.9%          |
| 30°-60°              | 4139.8          | 20.9%         |
| 60°-80°              | 4238.8          | 21.4%         |
| 80°-90°              | 522.6           | 2.6%          |
| <b>Up Light</b>      |                 |               |
| 90°-100°             | 0.0             | 0.0%          |
| 100°-180°            | 0.0             | 0.0%          |
| <b>Total</b>         | <b>19777.7</b>  | <b>100.0%</b> |
| <b>BUG Rating</b>    | <b>B4-U0-G4</b> |               |

# KT-ALED140-M2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### EPA SPECIFICATIONS

#### Medium-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 |  |  |  |  |  |  |  |  |  |
| <b>Adjustable Pole Mount</b><br>  | Horizontal       | 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.                                                                        |
| <b>Adjustable Pole Mount</b><br> | 45°              | 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.                                                                        |
| <b>Slip Fitter Mount</b><br>    | Horizontal       | 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.                                                                        |
| <b>Slip Fitter Mount</b><br>    | 45°              | 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.                                                                        |
| <b>Slip Fitter Mount</b><br>    | Vertical         | 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.                                                                        |

# KT-ALED140-M2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### ACCESSORIES (SOLD SEPARATELY)

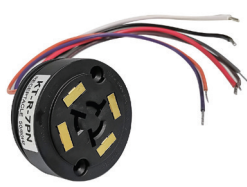
#### SENSORS

**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    |

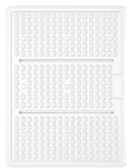


Remote Control  
KTS-MW3-REMOTECONTROL

#### LENSES

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

| CATALOG NUMBER        | DESCRIPTION                                                                     | UPC          | EASY CODE |
|-----------------------|---------------------------------------------------------------------------------|--------------|-----------|
| KT-ALED-LENS-M2-2-KIT | Type II Optics Lens for CCT Dedicated, Large Size Housing, Series 2 Area Lights | 843654153926 | UDR-71    |
| KT-ALED-LENS-M2-4-KIT | Type IV Optics Lens for CCT Dedicated, Large Size Housing, Series 2 Area Lights | 843654153964 | PNA-91    |



Lenses  
KT-ALED-LENS-M2-2-KIT



Lenses  
KT-ALED-LENS-M2-4-KIT

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

# KT-ALED140-M2-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-M2-KIT | Reversible Glare Shield for Medium Size Housing, Series 2 Area Lights, Bronze | 843654153797 | HEM-55    |
| KT-ALED-SF-1-KIT  | Slip Fitter 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    |

Glare Shield  
KT-ALED-GS-M2-KIT



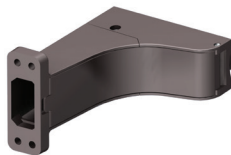
Slip Fitter Mount  
KT-ALED-SF-1-KIT



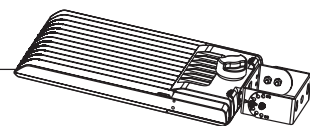
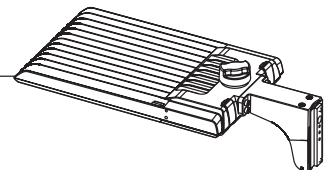
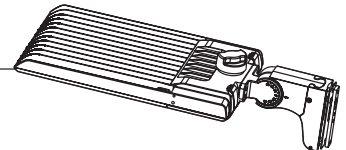
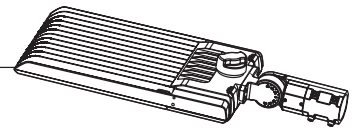
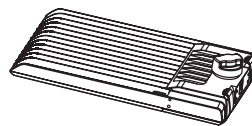
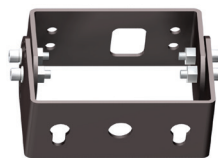
Adjustable Pole Mount  
KT-ALED-PMA-1-KIT



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-ALED140-M2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### ORDERING INFORMATION

| ORDER CODE                    | PACK QTY. | UPC          | Easy Code | DLC PRODUCT ID |
|-------------------------------|-----------|--------------|-----------|----------------|
| KT-ALED140-M2-OSA-NM-840-VDIM | 1         | 843654153001 | VUR-27    | S-YTM0PN       |
|                               |           |              |           | S-URO9PN       |
| KT-ALED140-M2-OSA-NM-850-VDIM | 1         | 843654153018 | CEM-23    | S-7IVLFQ       |
|                               |           |              |           | S-F0MJWD       |

### CATALOG NUMBER BREAKDOWN

# KT-ALED140-M2-OSA-NM-8XX-VDIM

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

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

#### 7 Optic Swap Designation

A Type III lens installed, Type V lens included

### ORDERING EXAMPLES

FIXTURE WITH SINGLE FACTORY-INSTALLED ACCESSORY

**KT-ALED140-M2-OSA-NM-8XX-VDIM /7PRS**

FIXTURE WITH NO FACTORY-INSTALLED ACCESSORIES

**KT-ALED140-M2-OSA-NM-8XX-VDIM**

#### KEYSTONE FIXTURE

#### CATALOG NUMBER

KT-ALED140-M2-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.