# KURTZON
### SPECIFICATION GRADE LIGHTING
### ILLUMINATING YOUR WORLD

PROJECT

DATE

TYPE

NOTES

REV: 12/18/2024

# Cleanroom **KL Tear Drop**

Sealed 4' Linear Teardrop LED Luminaire. Surface Mounting to T-Bar Grid

- **Suitable for ISO 3-9 Cleanspaces**

- **Suitable for 209E 1-100,000 Cleanspaces**

- **ETL Listed for Wet Locations**

- **Suitable for Row Mounting with CRM option**

- **Luminaire mounts directly to Tbar Grid.**

- **Available with 590nm True Amber LEDS.**

- **Luminaire profile specifically designed for a low drag on laminar air flow applications**

- **B.A.A. & B.A.B.A Compliant & Made in the USA by a Family Owned US Corporation**

## ORDERING GUIDE

| Series | Material | Size | Row Qty. | LED Type | CCT/CRI | Voltage | Optics | Options |
|---|---|---|---|---|---|---|---|---|
| **KL-AFV** | | | 1 | | | | | |

| Series | Material | | Size | Light Source | | | Voltage | Optics | | Options | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Row Qty. | LED Type | CCT/CRI | | | | | |
| **KL-AFV** | 1 | White CRS Ext. & White CRS Int. | **40** 4' Housing | 1 | **LEDR** (White) | **83 CRI:** | **120V** | **PA** | Linear Prismatic Clear Acrylic | **PxL** * | Programmed to User Specified Lumen Value. |
| | | | | | **LEDH** (White) | **830** 3000K | **277V** | **FA** | Linear Frosted Acrylic | **PxW** * | Programmed to User Specified Wattage Value. |
| | 2 | Polished 304 SS Ext. & White CRS Int. | | | **YLED590** (Amber) | **835** 3500K | **UNV** | | | **10KV** | 10KV Parallel Surge Protection (One Supplied Per Circuit) |
| | | | | | | **840** 4000K | **347V*** | | | **WHIP** | Must Specify Length and Wire Qty |
| | 3 | Polished 304 SS Ext. & Polished 304 SS Int | | | | **850** 5000K | | | | **FC** | Fuse & Holder (One Supplied Per Circuit) |
| | | | | | | | | | | **EM10** | 10W Integral LED EM (Specify Input Voltage) |
| | | | | | | **90+ CRI:** | | | | **EDL** | -40F Electronic Driver |
| | | | | | | **935** 3500K | | | | **AMW** | Anti-Microbial White Powdercoat |
| | | | | | | **940** 4000K | | | | **TP** | Torx Head SS Tamperproof Fastners |
| | | | | | | **950** 4000K | | | | **CRM** | Continous Row Mounting |
| | | | | | | | | | | **WHT** | White Finished Stainless Steel |
| | | | | | | | | | | | Note*: Specify Value in Ordering Notes Below |

**Ordering Notes, If Applicable**

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## SPECIFICATIONS

**HOUSING:** Double channel housing of 20Ga Cold Rolled Steel or 20Ga 304 Stainless Steel.

**END CAPS:** Precision stamped 20Ga 304 Stainless Steel end caps secured to housing with captive stainless steel pan head screws. See Options for Tamper resistant Torx drive stainless steel fasteners or hub assembly.

**GASKETS:** NSF Listed closed cell microcellular extruded KleanLock SealPro gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

**OPTICS:** Avaliable in extruded .125" Thick Clear or Frosted Acrylic.

**LEDS:** Commercially available in a wide variety of Color Temperature (CCT), FLUX, and CRI. Highly efficient and consistent color maintained to 3 SDMC for color critical applications. B50/L70 and compliant with Zhaga recognized hole patterns. Consult factory for LED options or configurations not listed below.

**DRIVERS:** Standard Universal Voltage Class 2 drivers are 0-10v Dimmable to 1% and rated -20C (-4F). They come with at least 2.5Kv surge protection, have less than 10% THD at max load, Ballast Factor Greater than .95 and are programmable to match specific lumen or wattage requirements. Drivers with higher input voltage ratings are available, consult factory for driver specifications.
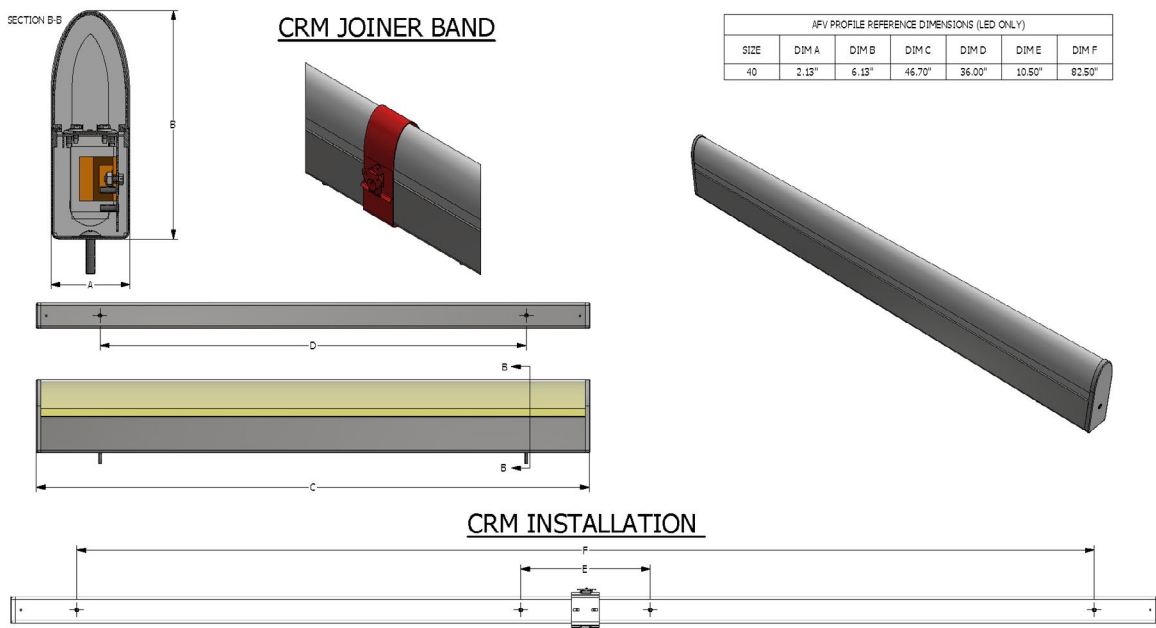
**REFLECTOR:** Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

**INSTALLATION:** Two .312" holes for surface mounting. Supply entry through back side of housing. Joiner bands provided for continuous row mounting (See Option: CRM). Please specify number of fixtures in each run. Suitable for surface installation onto covered ceiling only.

**FINISH:** Stainless steel housings are satin polished unless WHT or AMW options are selected. All other materials are provided with gloss high reflectance white polyester powder coat with 1000hr salt spray test per ASTM B117. AMW options provides a white anti-microbial polyester powder coat to all exposed metal surfaces.

**LISTINGS:** ETL listed per UL_1598 for wet locations. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 1 through Class 100,000 cleanspaces. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty. This product Series is both Build America Buy America (B.A.B.A.) & Buy American Act (B.A.A.) compliant.

## PRODUCT DRAWINGS

| AFV PROFILE REFERENCE DIMENSIONS (LED ONLY) | | | | | | |
|---|---|---|---|---|---|---|
| SIZE | DIM A | DIM B | DIM C | DIM D | DIM E | DIM F |
| 40 | 2.13" | 6.13" | 46.70" | 36.00" | 10.50" | 82.50" |

SECTION B-B

CRM JOINER BAND

CRM INSTALLATION

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## ENERGY DATA

| TEARDROP PROFILE LED (APPROX[1] LUMENS DELIVERED) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ENCLOSURE SIZE | LIGHT PACKAGE | CRI OR COLOR | DIMMING | FROSTED LENS | | | AMBIENT TEMP RATING | |
| | | | | LUMENS | WATTS[2] | EFFICACY[3] (Lm/W) | MINIMUM | MAXIMUM[4] |
| 40 | 1LEDR | **83** | 0-10V 1% | **3,704** | 29 | 127 | -20°C (-4°F) | 40°C (104°F) |
| 40 | 1LEDR | 90+ CRI | 0-10V 1% | 3,575 | 29 | 123 | -20°C (-4°F) | 40°C (104°F) |
| 40 | 1LEDH | **83** | 0-10V 1% | **6,735** | 53 | 127 | -20°C (-4°F) | 40°C (104°F) |
| 40 | 1LEDH | 90+ CRI | 0-10V 1% | 6,500 | 53 | 123 | -20°C (-4°F) | 40°C (104°F) |
| 40 | 1YLED | 590nm AMBER | 0-10V 1% | 1,600 | 43 | 37 | -20°C (-4°F) | 40°C (104°F) |

[1] DELIVERED LUMEN DATA IS EXTRAPOLATED FROM MEASURED DATA @25C WITH NO EXTRA OPTIONS. VARIANCES WILL OCCUR WHEN OTHER SELECTIONS ARE MADE

[2] WATTAGE IS MEASURED WITH LED 840 SELECTION @ 120vAC AND Tambient = 25C. WATTAGES WILL VARY AND INCREASE WHEN ALTERNATE OPTOINS ARE SELECTED

[3] EFFICACY CALCULATED USING 80 CRI 4000K CCT DATA.

[4] MAX TEMP RATING IS WITH NO OTHER OPTIONS SELECTED.

## PHOTOMETRICS

**FROST ACRYLIC**

Key:

- - - - - **0**
·-··-··- **45**
———— **90**