lumenline<sup>™</sup>2

drawing number 109793



This product must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. REGRESSED LENS DIRECT LIGHTING Failure to comply with the following installation instructions may result in death or serious injury.

**RECESSED T-BAR** DIRECT LIGHTING

# **MWARNING**

SEPARATION OF FIELD INSTALLED POWER LIMITED CIRCUIT (DIMMING/CONTROL) WIRING FROM THE BRANCH CIRCUIT WIRING IN THE OUTLET BOX ARE TO BE MADE IN ACCORDANCE WITH LOCAL AND/OR NATIONAL ELECTRICAL INSTALLATION CODES.

# 

DISCONNECT POWER BEFORE INSTALLING OR SERVICING TO AVOID ELECTRICAL SHOCK.

## DO NOT EXCEED FIXTURE

SPECIFIED VOLTAGE.

# 

DO NOT USE IF FIXTURE, PARTS OR CONNECTORS ARE DAMAGED.

### CAUTION

UNAUTHORIZED FIELD REPAIRS WILL VOID WARRANTY

## **OPTICS GUIDELINES**

#### **DIRECT LIGHTING - WIDE FLOOD**

SYMMETRICAL DISTRIBUTION, NO SPECIFIC ORIENTATION REQUIRED.

INSTALL ACCORDING TO STEPS 1-6.

#### **DIRECT LIGHTING - NARROW FLOOD\***

\*NOT AVAILABLE FOR REGRESSED LENS FIXTURES OR RGB

SYMMETRICAL DISTRIBUTION, NO SPECIFIC ORIENTATION REQUIRED.

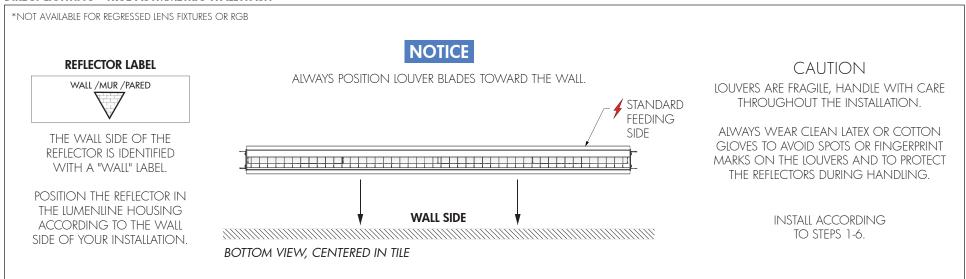
INSTALL ACCORDING TO STEPS 1-6.

### CAUTION

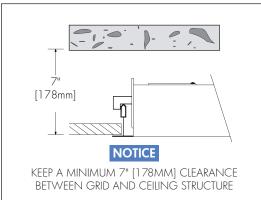
LOUVERS ARE FRAGILE, HANDLE WITH CARE THROUGH-OUT THE INSTALLATION.

ALWAYS WEAR CLEAN LATEX OR COTTON GLOVES TO AVOID SPOTS OR FINGERPRINT MARKS ON THE LOUVERS AND TO PROTECT THE REFLECTORS DURING HANDLING.

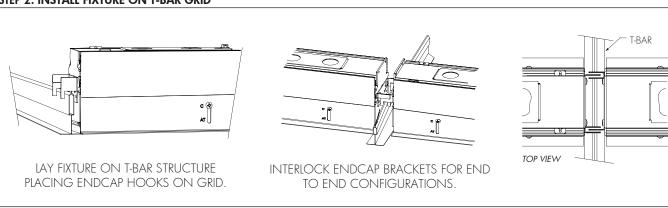
### **DIRECT LIGHTING - TRUE ASYMMETRIC WALLWASH\***



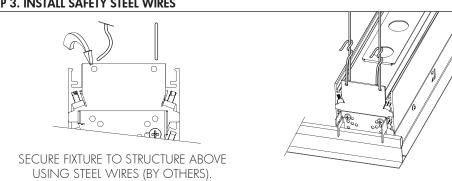
## **STEP 1. CEILING CLEARANCE**



## STEP 2. INSTALL FIXTURE ON T-BAR GRID



## STEP 3. INSTALL SAFETY STEEL WIRES



## STEP 4. INSTALL CONDUIT



**lumenbin**<sup>™</sup>, a proprietary binning method, guarantees color temperature consistency within a 2-step MacAdam ellipse.

Iumenear™ Combine lumentranslator 2 with Lumentalk-enabled luminaires housing Lumenpulse's proprietary lumenear control card to build your Lumentalk system.



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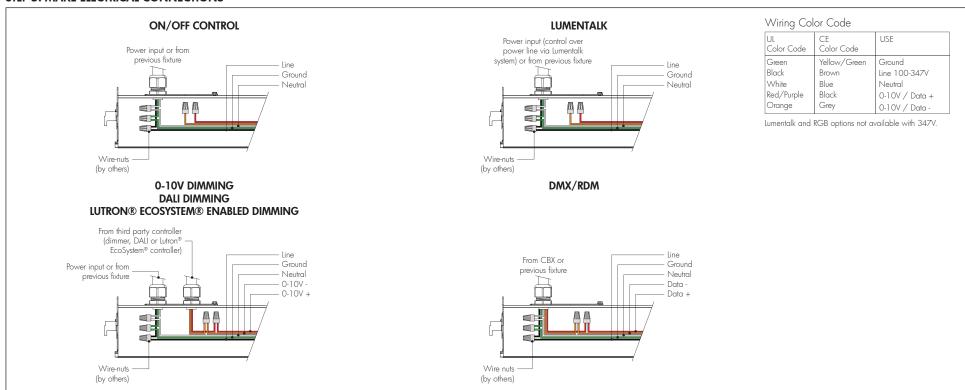
lumenline™2

drawing number 109793

This product must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. REGRESSED LENS DIRECT LIGHTING Failure to comply with the following installation instructions may result in death or serious injury.

**RECESSED T-BAR** DIRECT LIGHTING

### STEP 5. MAKE ELECTRICAL CONNECTIONS



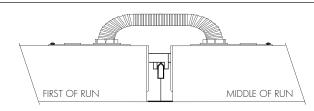
#### DMX/Data Cable Specification

DMX Cable from Controller to CBX and CBX to CBX shall adhere to ANSI E1.11 - 2008 (r2013) - Entertainment Technology - USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories. At minimum DMX Cable shall be 1-Pair (24 AWG, 7x32 Stranding)Twisted (minimum of 4.8 twists/foot), Shielded, minimum of 100 ohms Impedance, and <25 pF/ft. Capacitance.

#### **Combined Power & Data Cable Specification**

Fixture cabling from CBX to Fixtures shall be installed per NEC and Local Codes. All conductors shall be of the same size and minimum of 16 AWG annealed stranded bare copper per ASTM B-174 and must be a minimum of 26/30 and capable of handling 8 amps.

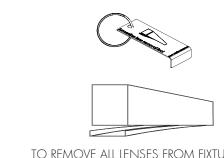
#### STEP 6. CHAIN ELECTRICAL CONNECTIONS



INSTALL CONDUIT FEEDER WITH A STRAIN RELIEF CONNECTOR (BY OTHERS) TO NEXT FIXTURE'S PLATE

# **COMMISSIONING AND SERVICING**

# STEP 1. REMOVE LENSES OR LOUVERS, AND REFLECTOR ASSEMBLIES



TO REMOVE ALL LENSES FROM FIXTURES, USE PROVIDED TOOL.

TO REMOVE ALL LOUVERS FROM FIXTURES, WEAR GLOVES AND GENTLY PULL ON LOUVERS.

TO SIMPLIFY INSTALLATION, KEEP LENSES OR LOUVERS STORED BY FIXTURE TYPE IN A SECURE PLACE. UPON DELIVERY, THE FIXTURE TYPE FOR EACH LENS IS IDENTIFIED WITH A COLORED LABEL.



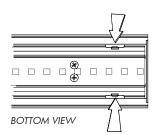




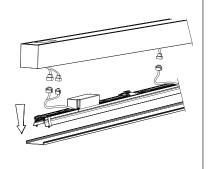


## NOTICE

STORE REFLECTORS, LENSES and louvers by fixture TYPE IN A SECURE PLACE.



PUSH SPRING CLIPS AT FIXTURE'S END TO RELEASE REFLECTOR ASSEMBLY.

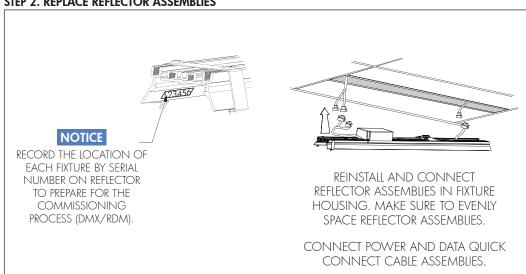


DISCONNECT AND REMOVE REFLECTOR ASSEMBLIES

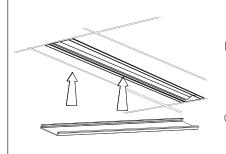
## NOTICE

REFER TO THE OPTICS GUIDELINES ON PAGE 1 BEFORE INSTALLING REFLECTOR ASSEMBLIES AND LENSES OR LOUVERS.

## STEP 2. REPLACE REFLECTOR ASSEMBLIES



## STEP 3. INSTALL LENS OR LOUVER



**M** WARNING MAKE SURE THE WIRES ARE NOT PINCHED BY REFLECTOR COMPONENTS.

REINSTALL LENS OR LOUVER.

## NOTICE

HANDLE ALL LOUVERS WITH GLOVES.

TO ALLOW FOR MATERIAL EXPANSION, USE THE LENS REMOVAL TOOL TO CREATE A SMALL GAP BETWEEN THE LENS OR LOUVER AND ENDCAP.

BE SURE TO MATCH THE FIXTURE TYPE WITH THE LENS TYPE (AS IDENTIFIED BY THE COLORED LABEL). THE LENSES MUST BE INSTALLED FLUSH WITH THE BOTTOM OF THE HOUSING. REMOVE LENS LABELS TO COMPLETE INSTALLATION.



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