

The P7 Pendant/Teardrop Retrofit Kit from Vega Light Control Systems

- Designed as an easy and reliable way to convert existing fixtures
- Thermally tested and approved for application in major manufacturers luminaires
- Alternative to HID lamps, up to 250W MH and 150W HPS
- Eliminates mercury & lead. Reduce carbon footprint & light pollution.
- Tested to the most demanding industry standards:
 - LM-79, LM-80, In-Situ, TM-21
 - Certified to UL 1598C, UL8750, CSA TIL B-79A
 - DLC Premium Listed



PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION



- **INTENDED FOR LUMINAIRE MODELS AS MANUFACTURED BY COMPANIES SHOWN IN THE RETROFIT CORRELATION TABLE CONTAINED IN THESE INSTRUCTIONS.**
- **RISK OF FIRE OR ELECTRIC SHOCK. LUMINAIRE WIRING AND ELECTRICAL PARTS MAY BE DAMAGED DURING INSTALLATION OF LED RETROFIT KIT. CHECK FOR ENCLOSED WIRING AND COMPONENTS.**
- **RISK OF FIRE OR ELECTRIC SHOCK. INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE LUMINAIRE'S ELECTRICAL SYSTEM. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.**
- **RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN LUMINAIRES THAT HAVE THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE.**
- **ONLY THOSE OPEN HOLES INDICATED IN THE PHOTOGRAPHS AND/OR DRAWINGS MAY BE MADE OR ALTERED AS A RESULT OF KIT INSTALLATION. DO NOT LEAVE ANY OTHER OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS.**
- **DO NOT MAKE OR ALTER ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS DURING KIT INSTALLATION.**
- **TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.**
- **THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.**

AVERTISSEMENT

- **RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE. L'INSTALLATION DE CE NÉCESSAIRE DE MODERNISATION EXIGE UNE PERSONNE FAMILIÈRE AVEC LA CONSTRUCTION ET LE FONCTIONNEMENT DU SYSTÈME ÉLECTRIQUE DU LUMINAIRE ET DES RISQUES ASSOCIÉS. TOUTE PERSONNE QUI N'EST PAS QUALIFIÉE NE DOIT FAIRE AUCUNE TENTATIVE D'INSTALLATION ET DOIT CONTACTER UNE PERSONNE QUALIFIÉE.**
- **RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE. N'INSTALLER CE NÉCESSAIRE QUE DANS LES LUMINAIRES DONT LES CARACTÉRISTIQUES DE CONSTRUCTION ET LES DIMENSIONS SONT CONFORME À CELLES ILLUSTRÉES DANS LES PHOTOS ET/OU LES DESSINS ET DONT LA PUISSANCE D'ENTRÉE NOMINALE DU NÉCESSAIRE DE MODERNISATION NE DÉPASSE PAS CELLE DU LUMINAIRE.**
- **IL EST INTERDIT DE FAIRE OU DE MODIFIER UNE OUVERTURE DANS UN BOÎTIER DE CÂBLAGE OU DE COMPOSANTS ÉLECTRIQUES AU COURS DE L'INSTALLATION DU NÉCESSAIRE.**
- **AFIN DE PRÉVENIR L'ENDOMMAGEMENT OU L'ABRASION DES CÂBLES, ÉVITER TOUT CONTACT ENTRE CES DERNIERS ET LE BORD D'UN OBJET TRANCHANT TEL QU'UNE TÔLE.**
- **LE NÉCESSAIRE DE MODERNISATION EST ACCEPTÉ À TITRE DE COMPOSANT D'UN LUMINAIRE LORSQUE LA PERTINENCE DE LA COMBINAISON DOIT ÊTRE DÉTERMINÉE PAR LES AUTORITÉS COMPÉTENTES**

NOTICE

- TO AVOID ELECTRIC SHOCK DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OR SERVICING.
- TO PREVENT PRODUCT MALFUNCTION AND / OR ELECTRICAL SHOCK THIS PRODUCT MUST BE PROPERLY GROUNDED.
- INSTALLATION MUST BE STRUCTURALLY SOUND TO PREVENT DAMAGE OR PERSONAL INJURY DUE TO FIXTURE COLLAPSE.
- USE CAUTION WHEN HANDLING THIS PRODUCT DURING OR AFTER OPERATION AS IT MAY BECOME HOT AND CAUSE BURNS.
- FAILURE TO INSTALL THIS PRODUCT IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), OR THE CANADIAN ELECTRICAL CODE (CSA 22.1), ALL APPLICABLE FEDERAL, STATE AND LOCAL ELECTRIC CODES AS WELL AS THE SPECIFIC UNDERWRITERS LABORATORIES (UL) SAFETY STANDARDS FOR THE INSTALLATION, LOCATION AND APPLICATION MAY CAUSE UNSAFE SITUATIONS LEADING TO SERIOUS PERSONAL INJURY, DEATH, PROPERTY DAMAGE AND/OR PRODUCT MALFUNCTION.
- THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.
- FAILURE OF FIXTURE TO PROVIDE SUFFICIENT WEATHER PROTECTION VOIDS WARRANTY.
- TO PREVENT EARLY PRODUCT FAILURE, THIS PRODUCT SHOULD BE INSTALLED IN OPERATING ENVIRONMENTS WITH MAXIMUM MEAN FIXTURE AMBIENT OPERATING TEMPERATURE FOR LED RETROFIT MODULE: 104°F (40°C); MAXIMUM AMBIENT OPERATING TEMPERATURE CANNOT EXCEED 140°F (60°C).
- INSTALLATION REQUIREMENTS MAY VARY DEPENDING ON THE LUMINAIRE RETROFITTED.
- IF INSTALLED IN FIXTURE OTHER THAN INTENDED, CONTACT VEGA CUSTOMER SERVICE TO EVALUATE APPLICABILITY TO FIXTURE. SUPPORT@VEGALIGHTCONTROL.COM, PHONE: 616-259-0700

1. PRODUCT OVERVIEW

LED Light Engine

- 80W, and 150W Versions
- 3000K, 4000K and 5000K CCT Available
- Type 3 and Type 5 Available
- True photometric performance through silicone optics
- Dimming Options:
 - 0-10vdc dimming available

Mechanical Details

- Brand specific Light Engine Assemblies to minimize rework of fixture
- Brand specific Power supply bracket designs to plug and play into fixture housings and wiring
- Installer must provide sealant/gasket of lens to light engine to restore resistance to water intrusion

Performance Details

- Certified to UL 1598C, UL 8750, CSA TIL B-79A
- Universal 120-277 VAC
- 5 Year replacement warranty, extended warranties available
- 18kA/36kV series surge suppression designed to UL1449 3rd edition
- Drivers qualified to:
 - Life > 50,000 hours
 - power factor of ≥0.9
 - THD of ≤20%
- LEDs qualified to:
 - DLC Premium – L70 of 100,000 hours minimum, L90 of 36,000 hours min.

1.1 Product Selection

- The P7 retrofit kits are designed to fit specific teardrop fixtures to make installation quick and easy.

P/N Format: P7 - (style)(watts) - (cct)K - T(type)M - (mounting) - (dimming)

Hadco TF9



Style	Watts	-	CCT	-	Type	-	Mounting	-	Dimming
P7-D 80		-	30K	-	T5M	-	CHTF9	-	STD
150		-	40K	-	T3M			-	DIM
		-	50K						

Application: Hadco® TF9 Teardrop Pendant

Catalog No: TF9



Holophane Teardrop "U" Series



Style	Watts	-	CCT	-	Type	-	Mounting	-	Dimming
P7-H 80		-	30K	-	T5M	-	CHLE1	-	STD
150		-	40K	-	T3M			-	DIM
		-	50K						

Application: Holophane® Esplanade, Boardwalk, Memphis, Port Huron

Catalog No: ESU, BSU, MPU, PHU



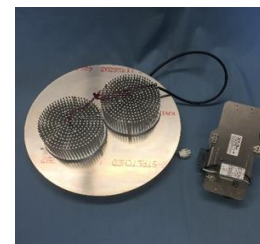
Lumec RN20 with Vert. Swing Door



Style	Watts	-	CCT	-	Type	-	Mounting	-	Dimming
P7-L 80		-	30K	-	T5M	-	CLRNV	-	STD
150		-	40K	-	T3M			-	DIM
		-	50K						

Application: Lumec® Renaissance with Vert. Swing Door

Catalog No: RN20 and RN30



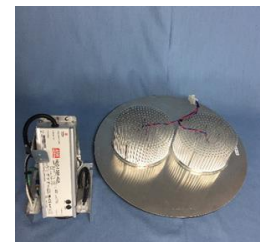
Lumec RN20 with Horz. Swing Door



Style	Watts	-	CCT	-	Type	-	Mounting	-	Dimming
P7-L 80		-	30K	-	T5M	-	CLRNH	-	STD
150		-	40K	-	T3M			-	DIM
		-	50K						

Application: Lumec® Renaissance with Horizontal Swing Door

Catalog No: RN20 and RN30



King Luminaire 800 Series



Style	Watts	-	CCT	-	Type	-	Mounting	-	Dimming
P7-K 80		-	30K	-	T5M	-	CKL80	-	STD
150		-	40K	-	T3M			-	DIM
		-	50K						

Application: King Luminaire® 800 Series

Catalog No: K803 through K807



2. INSTALLATION INSTRUCTIONS

- Refer to fixture installation manual for fixture mounting procedures

STEP 1: Prepare fixture for installation

- Turn power off before attempting installation
- Remove lamp, original optical components, socket, and ballast
- Separate reflector from lens as shown or replace with new lens



2.1 Hadco® Model TF9 using the P7- D Retrofit Kit



Remove HID Ballast and cable going to socket



Fixture with parts removed and ready for install



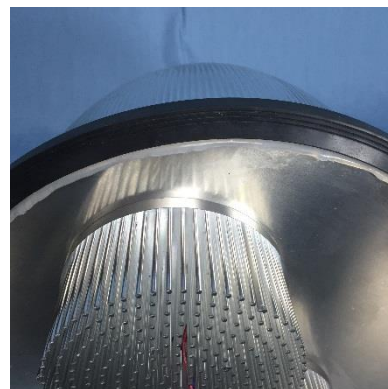
Power supply plugs into existing Molex connector and is retained with existing pin



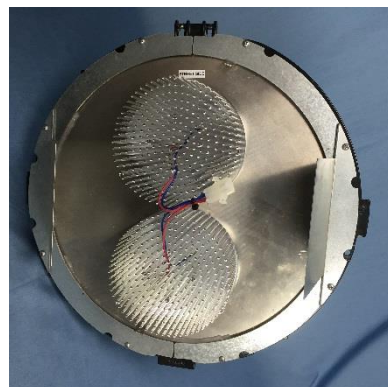
If re-using lens , pry reflector off carefully to break sealant while saving gasket



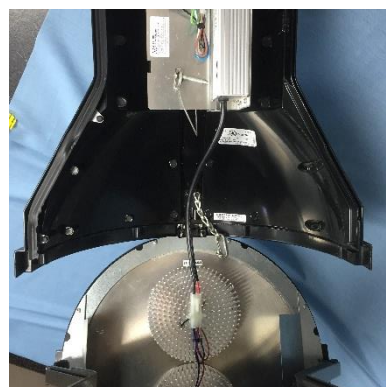
If Type 3, align STREET SIDE markings of lens and LED assembly while applying gasket.



After gasket is back in place over LED assembly and lens, apply sealant between gasket and LED plate



Reassembled Lens assembly



Plug in LED Light Engine and re-attach security chain.



Apply power to test installation

2.2 Holophane® Tear Drop “U” Series using the P7- H Retrofit Kit

Model Names (Catalog Numbers): Esplande (ESU), Boardwalk (BWU), Memphis (MPU), Port Huron (PHU)



Remove HID Ballast & socket assembly, cover plate on terminal block, and reflector



Fixture with ballast removed and ready for install of kit. Inspect fixture gasket and replace if needed.



3 piece kit with power supply, LED cable, and LED light engine assembly.



Attach power supply to housing re-using existing screws, and plug cable into existing Molex connector.



LED Light Engine simply lays on top of bowl glass and retainer frame. Note STREET SIDE text on lens. Apply sealant to attach LED engine



Note that on this tear drop frame, the notches in the light engine align with the glass retainers.



Plug together LED Engine cables. Inspect lens gasket and replace if needed.



Close access doors and secure being sure not to pinch wiring



Apply power to test installation

2.3 Lumec® Model RN20 with Vertical Swing Door using the P7- L “CLRNV” Retrofit Kit



Remove HID Ballast and cable going to socket



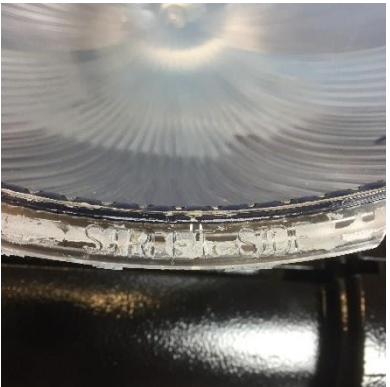
Fixture with parts removed and ready for install



Attached power supply with 4 of #10 x 5/16" screws provided



If re-using lens, pry reflector off carefully to break sealant



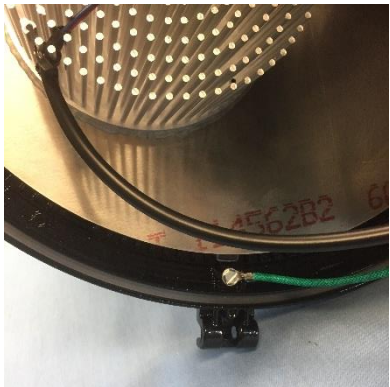
Note STREET SIDE text on lens.
Apply sealant to attach LED engine



If Type 3, orient STREET SIDE markings properly toward latch



Attach to LED Engine and lens to frame with original hardware



Re-attach ground wires if removed during install



Re-position cover plate and tighten grounding screw



Plug in the original AC Line cable and the LED Engine cable securely



Close access door being sure not to pinch wiring



Apply power to test installation

2.4 Lumec® Model RN20 with Horizontal Swing Door using the P7- L “CLRNH” Retrofit Kit



Remove HID Ballast after unplugging cables



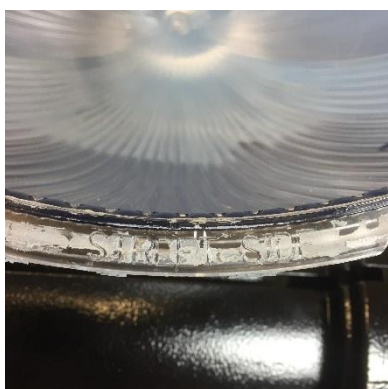
Fixture with ballast removed, detach terminal block from casting



Slide in power supply and relocate terminal block as shown



If re-using lens , pry reflector off carefully to break sealant



Note STREET SIDE text on lens. Apply sealant to attach LED engine



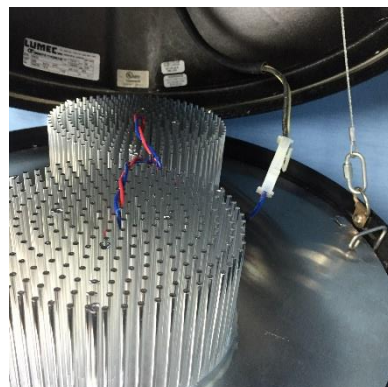
If Type 3, orient STREET SIDE markings properly toward latch



Attach to LED Engine and lens to frame with original hardware



Re-attach safety cable after hanging lens assembly



Plug together LED Engine cables



Plug in the original AC Line cable and the LED Engine cable securely



Close access door being sure not to pinch wiring



Apply power to test installation

2.2 King Luminaire® K800 Series using the P7- K Retrofit Kit

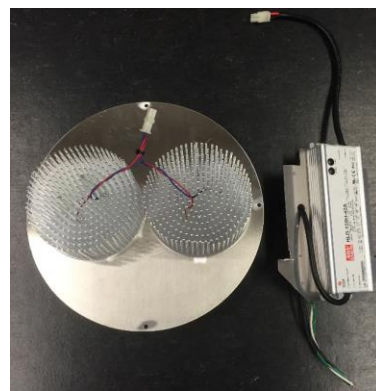
Model Names: Solitaire Sr., Coronet, Chicago Sr., Satellite Sr., Doral



Remove HID Ballast & socket assembly



Breakoff reflector to make room for LED assembly.



2 piece kit with power supply, and LED light engine assembly.



Attach power supply to housing re-using existing screws.



Plug together LED Engine cables. Inspect lens gasket and replace if needed.



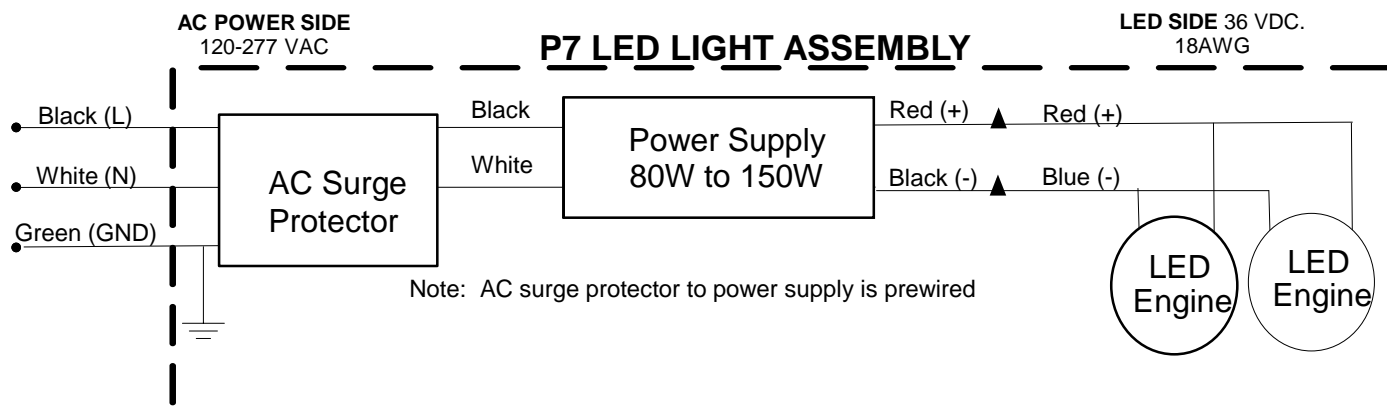
LED Light Engine attaches to existing holes for retaining reflector. Position STREET SIDE toward latch.



Apply power to test installation

3. ELECTRICAL INSTRUCTIONS

Wiring diagram after installation



4. RELATED INFORMATION

Maintenance and Cleaning

- Periodic cleaning of fixture will ensure operation at maximum optical efficiency
- Refer to fixture installation instructions for maintenance and cleaning guidelines
- Even though LED Retrofit Kit may continue to light after the specified lifetime has passed, it must be replaced in order to maintain appropriate light levels

5. Troubleshooting

Condition	Possible Reason(s)	Recommended Action
AC surge protector damaged	Surge protector unable to protect unit	<ol style="list-style-type: none">1. Verify AC voltage at both input and output of surge protector.2. If within warranty period, contact VEGA sales representative for RMA.3. If out of warranty period, contact VEGA sales representative for information to replace surge protector.
LEDs are dim or not lit	<ol style="list-style-type: none">1. DC Cable is unplugged.2. Power supply has failed1. LED board is damaged	<ol style="list-style-type: none">1. Connect the DC Cable by plugging together the two Molex connectors2. To identify failed power supply, use clamp meter (tongs) to measure output current. Replace if below rated current. Before replacing power supply, verify AC voltage through surge protector.3. If within warranty period, contact VEGA sales representative for RMA. If not within warranty period, LED Light Engine should be replaced as it is not user serviceable.
Difficulty experienced during mounting	---	Contact VEGA representative for recommended action: support@vegalightcontrol.com 616-259-0700 OR visit vegalightcontrolsystems.com for additional reference designs.