

# D4 Post Top Retrofit Kit INSTALLATION GUIDE

- The D4 Post Top Retrofit Kits from Vega Light Control Systems
  - Designed as an easy and reliable way to convert existing fixtures
  - Alternative to HID lamps, up to 300W MH and 200W HPS
  - Use for pole heights up to 30 feet
  - Eliminates mercury & lead
  - Reduce carbon footprint & light pollution.
  - Tested to the most demanding industry standards:
    - o LM-79, LM-80, In-Situ, TM-21, and DLC
    - surge testing to UL 1449 3rd edition
    - UL 1598C 1st Ed. and CSA TIL B-79A



PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

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- 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 THE LUMINAIRES THAT HAS THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE.
- RISK OF FIRE OR ELECTRIC SHOCK. LUMINAIRE WIRING AND ELECTRICAL PARTS MAY BE DAMAGED WHEN DRILLING FOR INSTALLATION OF LED RETROFIT KIT. CHAECK FOR ENCLOSED WIRING AND PARTS.
- ONLY THOSE OPEN HOLES INDICATED IN THE PHOTOGRAPS 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 ËTRE DÉTERMINÉE PAR PAR LES AUTORITÉS COMPÉTENTES

# NOTICE

- TO AVOID ELECTRIC SHOCK, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OR SERVICING.
- TO PREVENT ELECTRIC SHOCK THIS PRODUCT MUST BE PROPERLY GROUNDED.
- INSTALLATION MUST BE STRUCTURALLY SOUND TO PREVENT PERSONAL INJURY DUE TO FIXTURE COLLAPSE.
- USE CAUTION WHEN HANDLING 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 UNDESIRED 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 UNCERTAIN, CONTACT VEGA LIGHT CONTROL SYSTEMS CUSTOMER SERVICE TO EVALUATE APPLICABILITY TO FIXTURE. <u>SUPPORT@VEGALIGHTCONTROL.COM</u>, PHONE: 616-259-0700

# 1. PRODUCT OVERVIEW

### 1.1. D4 Post Top Retrofit Specifications

#### **LED Light Engine**

- 30W, 40W, 60W, and 80W Versions
- 2200K, 3000K, 4000K and 5000K CCT Available
- Type 3 and Type 5 Available
- True photometric performance through silicone optics
- Dimming Options:
  - 0-10vdc dimming available
    - Timer based overnight schedules

#### **Mechanical Details**

- 4.73" & 5.91" Diameter Light Engines fit ALL globes
- Telescoping center post for height adjustment, field settable
- Universal Mounting plates available in 4 sizes; 6.25", 6.5", 7" or 8" diameter
- Brand specific quick change mounting plates also available
- Power supply housing and bracket designs to mount above, midway, or below globe/fixture base
- Downlight light option for suspended LED engine in shoeboxes, pendants, and colonials.

#### Performance Details

- 5 Year replacement warranty, extended warranties available
- 18kA 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 models L70 of 100,000 hours minimum, L90 of 36,000 hours min.
  - DLC Standard models L70 better than 50,000 hours

# 1.2. Products Covered

P/N Format:	D4 - (style)(watts)	- (cct)K -	T(type)M - (m	nounting) - (dir	nming)		
Full Enclosure Kit	Style Watts	- сст	- Type	- Mounting -	Dimming	Mounting Code Details	
	D4-F 30	- 22K	- T5M	- 625 -	STD	Universal 6.25" plate	
	D4-F 40	- 30K	- T3M	- 6S -	DIM	Universal 6.5" plate	
VED	D4-F 60	- 40K		- 75 -	PXY7#	Universal 7" plate	
	(80 NA)	- 50K		- 8N		Universal 8" plate	
		0010		- C###		Other custom configurations	
•] P				- 0###		"H" profix is high output version	
8	Turning LAnnelingtion	Conorio	a h a ll a w fitta r w h		na a cuata al cua		
di contra de la co	Турісаї Арріїсацої	. Generic	snanow inter wit	ere Dallast was	mounted un		
Mid Mount Kit	Style Watts	- сст	- Type	- Mounting -	Dimming	Mounting Code Details	
	D4-M 30	- 22K	- T5M	- CHBTI -	STD	Hadco B Twistlock	
	D4-M 40	- 30K	- T3M	- CHBSP -		Hadco B Pin & Screw	
	D4-M 60	- 40K	10101	- CSBSC -	DYV7#	Sternburg Spring Clins	
	D4 M 80	- 40K			ΓΛΙ <b>Δ</b> #	Sternburg Spring Clips	
	D4-IVI 60	- 50K		- CSBIL			
a)				- H###		"H" prefix is nigh output version	
		_		- #XX		Universal Plates above also applicable	
	Typical Application: Deeper fitters such as petal style where ballast was mounted into fitter by top plate/cover.						
Granville Classic Kit	Style Watts	- сст	- Type	- Mounting -	Dimming	Mounting Code Details	
	D4-H 30	- 22K	- T5M	- CGVC7 -	STD	Granville Classic 7" Fitter or 4" Fitter	
	D4-H 40	- 30K	(T3M - NA)	- HGVC7 -		"H" prefix is high output version	
	D4-H 60	- 40K	(10111-101)		PXV7#	n pionxio nigri calpat voloion	
	(80 NA)	- 50K			ΓΛΙΖπ		
	(00 NA)	- 50K					
	Taniaal Analiaa (isa	0					
00	Typical Application	: Specific	configuration to	r mounting in Gi	anville Class	sic 7° and 4° fitters with 19° glass globes.	
		o :					
		One piec	ce assembly				
Granville Premier Kit	Style Watts	One piec	ce assembly	- Mounting -	Dimming	Mounting Code Details	
Granville Premier Kit	Style Watts D4-H 30	One piec - CCT - 22K	ce assembly - Type - T5M	- Mounting -	Dimming STD	Mounting Code Details Granville Premier w/ Photo Control Socket	
Granville Premier Kit	<b>Style Watts</b> D4-H 30 D4-H 40	One piec - CCT - 22K - 30K	<b>- Type</b> - T5M (T3M - NA)	- Mounting - - CGPCS - - CGPNS -	Dimming STD DIM	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket	
Granville Premier Kit	<b>Style Watts</b> D4-H 30 D4-H 40 D4-H 60	One piec - CCT - 22K - 30K - 40K	e assembly - Type - T5M (T3M - NA)	- Mounting - - CGPCS - - CGPNS - - H### -	Dimming STD DIM PXY7#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)	One piec - CCT - 22K - 30K - 40K - 50K	ce assembly - Type - T5M (T3M - NA)	- Mounting - - CGPCS - - CGPNS - - H### -	Dimming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K	ce assembly - Type - T5M (T3M - NA)	- Mounting - - CGPCS - - CGPNS - - H### -	Dimming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K	ce assembly - Type - T5M (T3M - NA)	- Mounting - - CGPCS - - CGPNS - - H### -	Dimming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           ::         Specific           Two piece	ce assembly - Type - T5M (T3M - NA) configuration for a assembly.	Mounting -     CGPCS -     CGPNS -     H### - r mounting in Gi	Dimming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)	One piec - CCT - 22K - 30K - 40K - 50K : Specific Two piec	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly.	Mounting     CGPCS     CGPNS     H###  r mounting in Gi	Dimming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)	One piec - CCT - 22K - 30K - 40K - 50K - 50K - Specific Two piec - CCT	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type	- Mounting - - CGPCS - - CGPNS - - H### - r mounting in Gr	Dimming STD DIM PXYZ# ranville Prem	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version hier fitters with 19" glass globes.	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)   Typical Application           Style         Watts           D4-S         30	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           :         Specific           Two piec           -         CCT           -         22K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M	Mounting -     CGPCS -     CGPNS -     H### -  r mounting in Gr Mounting -     DNLT -	Dimming STD DIM PXYZ# ranville Prem Dimming STD	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version hier fitters with 19" glass globes.	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)   Typical Application           Style         Watts           D4-S         30           D4-H         40	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           :         Specific           :         Specific           :         Specific           :         Specific           :         Specific           :         Specific           :         22K           :         30K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M - T3M	<ul> <li>Mounting</li> <li>CGPCS</li> <li>CGPNS</li> <li>H###</li> </ul> r mounting in Ground of the second s	Dimming STD DIM PXYZ# canville Prem Dimming STD DIM	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         nier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           (80 NA)         30   Typical Application           Style         Watts           D4-S         30           D4-H         40	One piec           CCT           22K           30K           40K           50K           Specific           Two piec           CCT           22K           30K           22K           30K           30K           40K	ce assembly          Type         T5M         (T3M - NA)         configuration for the assembly.         - Type         - T5M         - T5M         - T5M         - T5M         - T5M         - T3M	- Mounting - - CGPCS - - CGPNS - - H### - r mounting in Gr - Mounting - - DNLT - - DNLT2 - - CADJ1 -	Dimming STD DIM PXYZ# canville Prem Dimming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version hier fitters with 19" glass globes. Mounting Code Details 120mm Light Engine flexible Downlight Kit 150mm Light Engine flexible Downlight Kit 14" to 23" span, Larger fixture Downlight Kit	
Granville Premier Kit	Style       Watts         D4-H       30         D4-H       40         D4-H       60         (80 NA)    Typical Application          Style       Watts         D4-S       30         D4-S       40         D4-S       60         D4-S       80	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           ::         Specific           :         Specific           :         Specific           :         Specific           :         Specific           :         22K           :         30K           :         30K           :         40K           :         50K	ce assembly          Type         -       T5M         (T3M - NA)         configuration for         ce assembly.         -       Type         -       T5M         -       T3M	<ul> <li>Mounting</li> <li>CGPCS</li> <li>CGPNS</li> <li>H###</li> <li>H###</li> </ul>	Dimming STD DIM PXYZ# canville Prem Comming STD DIM PXYZ#	Mounting Code Details Granville Premier w/ Photo Control Socket Granville Premier w/o Photo Control Socket "H" prefix is high output version hier fitters with 19" glass globes. Mounting Code Details 120mm Light Engine flexible Downlight Kit 150mm Light Engine flexible Downlight Kit 14" to 23" span, Larger fixture Downlight Kit Other custom configurations	
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Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           04-H         60           04-S         30           04-S         40           04-S         60           04-S         80	One piec           CCT           22K           30K           40K           50K           Specific           Two piec           CCT           22K           30K           22K           30K           40K           50K           Specific           Two piec           CCT           22K           30K           40K           50K           Shoebox	ce assembly           Type           T5M           T3M - NA)           configuration for           ce assembly.           T5M           T3M           T3M	<ul> <li>Mounting</li> <li>CGPCS</li> <li>CGPNS</li> <li>CGPNS</li> <li>H###</li> <li>H###</li> <li>DNLT</li> <li>DNLT2</li> <li>CADJ1</li> <li>C###</li> <li>H###</li> <li>Colonial fixtures</li> </ul>	Dimming STD DIM PXYZ# canville Prem Dimming STD DIM PXYZ#	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         nier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         Other custom configurations         "H" prefix is high output version         me mounts separately on adjustable arms.	
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Granville Premier Kit	Style       Watts         D4-H       30         D4-H       40         D4-H       60         (80 NA)       (80 NA)    Typical Application          Style       Watts         D4-S       30         D4-S       40         D4-S       60         D4-S       80    Typical Application	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           :         Specific           Two piec         CCT           -         22K           -         30K           -         22K           -         30K           -         40K           -         50K           :         Shoeb or           -         CCT           -         22K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M - T3M x, Pendant, and x, Pendant, and - Type - T5M	<ul> <li>Mounting</li> <li>CGPCS</li> <li>CGPNS</li> <li>CGPNS</li> <li>H###</li> <li>H###</li> <li>Mounting in Gr</li> <li>DNLT2</li> <li>DNLT2</li> <li>CADJ1</li> <li>CADJ1</li> <li>C###</li> <li>Colonial fixtures</li> <li>COEM1</li> <li>COEM1</li> </ul>	Dimming STD DIM PXYZ# canville Prem Dimming STD DIM PXYZ# s. Light Engin STD	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         mier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         Other custom configurations         "H" prefix is high output version         me mounts separately on adjustable arms.         Mounting Code Details         OEM Customer, configuration 1	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           D4-H         60           D4-H         60           D4-H         60           D4-H         60           04-H         60           04-K         30           D4-S         40           D4-S         60           D4-S         80           Typical Application           Style         Watts           D4-S         30           D4-C         30           D4-C         30           D4-C         30           D4-C         40	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           :         Specific           :         Specific           :         Specific           :         Specific           :         22K           -         30K           -         50K           :         Shoeb or           -         22K           -         30K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M - T3M x, Pendant, and - Type - T5M - T5M - T3M	<ul> <li>Mounting</li> <li>CGPCS</li> <li>CGPNS</li> <li>CGPNS</li> <li>H###</li> <li>H###</li> <li>Mounting in Gr</li> <li>DNLT2</li> <li>DNLT2</li> <li>CADJ1</li> <li>CADJ1</li> <li>CADJ1</li> <li>CADJ1</li> <li>CH##</li> <li>Colonial fixtures</li> <li>COEM1</li> <li>CCC01</li> </ul>	Dimming STD DIM PXYZ# ranville Prem Dimming STD DIM PXYZ# s. Light Engin STD DIM	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         hier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         Other custom configurations         "H" prefix is high output version         me mounts separately on adjustable arms.         Mounting Code Details         OEM Customer, configuration 1         OEM Customer CC, configuration 1	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           D4-H         60           D4-H         60           D4-H         60           D4-H         60           04-H         60           04-H         60           04-H         60           04-H         60           04-K         30           D4-S         40           D4-S         60           D4-S         80           Typical Application           Style         Watts           D4-S         30           D4-S         80           Typical Application           D4-S         30           D4-S         60           D4-S         80	One piec           CCT           22K           30K           40K           50K           Specific           Two piec           CCT           22K           30K           40K           50K           Specific           Two piec           CCT           22K           30K           40K           50K           Shoebox           CCT           22K           30K           22K           30K           40K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M - T3M x, Pendant, and - Type - T5M - T3M	Mounting     CGPCS     CGPNS     CGPNS     H###      Mounting in Gr      Mounting in Gr      DNLT     DNLT2     CADJ1     CADJ1     CADJ1     CH##      Colonial fixtures      Mounting     COEM1     CCC01     CCC02	Dimming STD DIM PXYZ# canville Prem STD DIM PXYZ# s. Light Engin STD DIM STD DIM STD DIM	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         hier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         Other custom configurations         "H" prefix is high output version         me mounts separately on adjustable arms.         Mounting Code Details         OEM Customer, configuration 1         OEM Customer CC, configuration 1         OEM Customer CC, configuration 2	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           0         (80 NA)   Typical Application           Style         Watts           D4-S         30           D4-S         40           D4-S         60           D4-S         80   Typical Application           Style         Watts           D4-S         30           D4-S         30           D4-S         80	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           ::         Specific:           Two piec         CCT           -         22K           -         30K           -         40K           -         50K           ::         Shoeb or           -         22K           -         30K           -         22K           -         30K           -         22K           -         30K           -         22K           -         30K           -         50K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M - T3M x, Pendant, and - Type - T5M - T5M - T3M	Mounting     CGPCS     CGPNS     CGPNS     H###      Mounting in Gr      Mounting in Gr      DNLT     DNLT     DNLT2     CADJ1     CADJ1     CADJ1     CH##      Colonial fixtures      Mounting     COEM1     CCC01     CCC02     C###	Dimming STD DIM PXYZ# canville Prem STD DIM PXYZ# s. Light Engin STD DIM STD DIM PXYZ#	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         hier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         0ther custom configurations         "H" prefix is high output version         mounts separately on adjustable arms.         Mounting Code Details         0EM Customer, configuration 1         0EM Customer CC, configuration 2         0ther custom configurations	
Granville Premier Kit	Style       Watts         D4-H       30         D4-H       40         D4-H       60         D4-H       60         D4-H       60         D4-H       60         D4-H       60         04-H       60         04-K       Application         D4-S       80         D4-S       60         D4-S       80         Typical Application         Style       Watts         D4-S       80         D4-S       60         D4-S       60         D4-S       60         D4-S       60         D4-S       80	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           :         Specific           :         Specific           :         Specific           :         Specific           :         22K           -         30K           -         40K           -         50K           :         Shoebox           -         CCT           -         22K           -         30K           -         CCT           -         22K           -         30K           -         30K           -         30K           -         30K           -         30K           -         50K	ce assembly - Type - T5M (T3M - NA) configuration for ce assembly. - Type - T5M - T3M x, Pendant, and - Type - T5M - T3M	•         Mounting         -           -         CGPCS         -           -         CGPNS         -           -         H###         -           r         mounting in         G           r         DNLT         -           -         DNLT2         -           -         CADJ1         -           -         CH##         -           -         CADJ1         -           -         CH###         -           Colonial fixtures:         -         -           -         COEM1         -           -         CCC01         -           -         CCC02         -           -         CH###         -	Dimming STD DIM PXYZ# canville Prem Dimming STD DIM PXYZ# s. Light Engin DIM STD DIM PXYZ#	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         hier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         Other custom configurations         "H" prefix is high output version         De mounts separately on adjustable arms.         Mounting Code Details         OEM Customer, configuration 1         OEM Customer CC, configuration 2         Other custom configurations         "H" prefix is high output version	
Granville Premier Kit	Style         Watts           D4-H         30           D4-H         40           D4-H         60           D4-H         60           D4-H         60           D4-H         60           D4-H         60           (80 NA)         Typical Application           Style         Watts           D4-S         30           D4-S         60           D4-S         80           Typical Application           Style         Watts           D4-C         30           D4-C         30           D4-C         30           D4-C         30           D4-C         30           D4-C         30           D4-C         80	One piec           -         CCT           -         22K           -         30K           -         40K           -         50K           :         Specific           :         Specific           :         Specific           :         Specific           :         22K           -         30K           -         40K           -         50K           :         Shoeb or           -         22K           -         30K           -         22K           -         30K           -         22K           -         30K           -         50K           :         50K	ce assembly	<ul> <li>Mounting</li> <li>CGPCS</li> <li>CGPNS</li> <li>CGPNS</li> <li>H###</li> <li>H###</li> <li>DNLT2</li> <li>DNLT2</li> <li>DNLT2</li> <li>CADJ1</li> <li>CADJ1</li> <li>C###</li> <li>Colonial fixtures</li> <li>COEM1</li> <li>CCC01</li> <li>CCC01</li> <li>CCC01</li> <li>CCC02</li> <li>C###</li> <li>H###</li> </ul>	Dimming STD DIM PXYZ# ranville Prem Dimming STD DIM PXYZ# s. Light Engin DIM STD DIM PXYZ#	Mounting Code Details         Granville Premier w/ Photo Control Socket         Granville Premier w/o Photo Control Socket         "H" prefix is high output version         mier fitters with 19" glass globes.         Mounting Code Details         120mm Light Engine flexible Downlight Kit         150mm Light Engine flexible Downlight Kit         14" to 23" span, Larger fixture Downlight Kit         Other custom configurations         "H" prefix is high output version         me mounts separately on adjustable arms.         Mounting Code Details         OEM Customer, configuration 1         OEM Customer CC, configuration 2         Other custom configurations         "H" prefix is high output version	

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#### Notes:

Product has been properly packed to the protect during transit. Inspect and notify the distributor or shipping agent of any damage found.
For additional information visit <u>www.vegalightcontrolsystems.com</u>, email <u>support@vegalightcontrol.com</u> or call 616-259-0700

\* Side Brackets may be used to the span the width of a fixture or used to screw mount LED light engine to the hood of a light.

## 1.4. Fixture Considerations

- 1. **Do not use a Type 3 LED Light Engine in a Refracted Globe.** Type 3 Refracted globes will effectively convert the T5M retrofit kit into a Type 3 distribution in globes such as the Lindy Type 3 and the Granville Type 3.
- 2. **Do not mount LED Light Engine too high in the globe.** The LED Light Engine needs adequate air space above it to dissipate heat. Additional air space may be needed for Tc limits as shown below.
- 3. The arc tube height of the previous HID system is typically the proper height for the LED mounting. This is especially true for refracted globes to maintain the proper pattern of light to the ground and avoid excessive up light.
- 4. Example Globes vs LED height settings:
  - ✓ LexaLite Lindy 424 globe arc tube height is designed at 11.3" from the base of the globe.
  - ✓ LexaLite Lindy 408 globe performs best at LED height set 8" from the base of the globe.
  - ✓ Crown 88266-CL has an optimum output when set 13" from the base of the globe.



- 5. Measure the maximum temperature achieved at the locations shown below after at least 2 hours under power inside fixture. Take that temperature and add the difference between room temperature and 40C to calculate the maximum Tc.
  - ✓ For example: Room is 22C, Tc measured is 62C, the compensated maximum Tc is 80C



6. When using Type 3 LED Retrofit Kits orient the LED Light Engine as shown below



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# 2. INSTALLATION INSTRUCTIONS

- Refer to fixture installation manual for fixture mounting procedures
- Please refer to www.vegalightcontrolsystems.com for additional install instructions

#### 2.1. STEP 1: Prepare fixture for installation

- Turn power off before attempting installation
- · Remove lamp, original optical components, socket, and ballast
- Remove internal reflectors or Lite Lid
- If photocell-controlled, connect unit after external control

**Note**: Failure to remove original components including ballast will void product warranty.







Allow unit to cool fully before servicing

WARNING

**Risk of burn** 

# 2.2. STEP 2: Fitting of LED Retrofit Kit into Fixture

- Review the various mounting configurations on the following pages and select the most applicable model
- Select and install appropriate mounting accessories if needed
- Based on the fixture type, configure power supply assembly, brackets, and height (see 1.4.2-5)



#### Notes:

- Center Pole Mounting height can be adjusted using the included hex key to loosen set screw and slide LED to needed position. Be sure to also pull or push LED cable into position while adjusting height. After adjusting height, tighten set screw enough to hold tube, then tighten another ½ turn with hex key. (see 1.4.2-4)
- Side brackets can be adjusted, bent, trimmed, or special ordered to span or offset LED mounting height.
- Allow adequate space around all sides of LED Light Engine from fixture or globe. (see 1.4.5)
- Order a lower wattage of kit if install is still exceeding Tc limits with LED kit properly positioned.
- Assembled Retrofit Kit may be special ordered configured ready to drop into light fixture. These options include:
  - Size and position of mounting plate and or custom mounting plates
  - Height of Light Engine set to specified height





### **CENTER POLE MOUNTING**

#### Notes:

- For Type 3, ensure LED head is rotated with "Street Side" of light engine facing the street (see 1.4.6)
- Re-use screws previously holding HID ballast to fixture to attach Retrofit Kit when possible. Additional hardware
  maybe required.
- For Post Top fixtures, LED Light should be installed to maintain cooling clearance above heatsink and at arc tube height of replaced HID. (see 1.4.5)
- Restore the original light fixture sealing for water and insect control. Rain water must not enter the wiring compartment.

# SIDE BRACKET MOUNTING



#### Notes:

- Additional hardware maybe required to mount LED Retrofit Kit in fixture
- Re-use screws previously holding HID ballast to fixture to attach Retrofit Kit when possible.
- LED Light should be installed to maintain cooling clearance above heatsink (see 1.4.5)
- For Type 3, ensure "Street Side" of light engine faces the street

## 2.4. STEP 4: Make electrical connections

- Connect line voltage wires using wire nuts as shown in the wiring diagram in Section 3
  - > Strip wires appropriately for the wire nuts utilized, 3/8" for those included in the kit.
  - > The surge protector and power supply are universal voltage.
  - > The white wire may be either Neutral or Line.
  - > Green/Yellow wire is tied to grounding conductor.
- Connect low voltage wires if they are separated during install.
  - > Plug connectors together when supplied with 2 pin Molex connectors between LED and driver.
  - If loose wires connect White LED wire to positive driver lead (Red) and Gray LED wire to negative driver lead (Black or Blue) using pre-installed Lever Nuts.
- If photocell-controlled or remote controlled, connect Retrofit Kit to output of the control

## 2.5. STEP 5: Secure fixture components

• Secure fixture components and restore original light fixture sealing for water and insect control.

# 3. ELECTRICAL INSTRUCTIONS

## 3.1. Wiring diagram after installation



# 4. RELATED INFORMATION

## 4.1. 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

# 4.2. List of applicable and related Documents

• D4 LED Retrofit Kit Product Information Brochure

# 5. Troubleshooting

Condition	Possible Reason(s)	Recommended Action			
AC surge protector damaged	Surge protector unable to protect unit	<ol> <li>Verify AC voltage at both input and output of surge protector.</li> <li>If within warranty period, contact VEGA sales representative for RMA.</li> <li>If out of warranty period, contact VEGA sales representative for information to replace surge protector.</li> </ol>			
LEDs are dim or not lit	<ol> <li>DC Cable is unplugged.</li> <li>Power supply has failed</li> <li>LED board is damaged</li> </ol>	<ol> <li>Connect the DC Cable by plugging together the two Molex connectors</li> <li>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.</li> <li>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.</li> </ol>			
Difficulty experienced during mounting		Contact VEGA representative for recommended action support@vegalightcontrol.com 616-259-0700 OR visit <u>www.vegalightcontrolsystems.com</u> for additional reference designs.			