



# VKMUNV008RT9yyA



## VividHorse UNV CCT Selectable DC Engine Retrofit Kit with 0-10V Dimming

- Universal Voltage (120~277) DC Engine
- CCT Selectable: 2700K, 3000K, 3500K, 4000K, 4500K, 5000K
- CRI90 standard
- Potassium Fluorosilicate (PFS) phosphor LEDs to achieve as high efficacy as today's CRI80 LEDs
- Suitable for open or fully enclosed luminaires
- Suitable for luminaires with plastic and glass lenses
- cULus Classified 1598C
- cULus Recognized 8750
- Energy Star Luminaire 2.2 Listed and CSD<sup>①</sup>

### General Specifications

|                                                                     |                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage <sup>②</sup>                                          | 120~277VAC (+/- 10%)                                                                                                                                                                                                               |
| Input Current <sup>②</sup>                                          | ~0.085A @120V      ~0.040A @277V                                                                                                                                                                                                   |
| Input Power <sup>②</sup>                                            | 10W                                                                                                                                                                                                                                |
| Input PF                                                            | >0.98                                                                                                                                                                                                                              |
| THD                                                                 | <20%                                                                                                                                                                                                                               |
| Input Frequency                                                     | 50/60Hz                                                                                                                                                                                                                            |
| Module Operating Voltage                                            | 22.2VDC                                                                                                                                                                                                                            |
| Max Lumen Output @ Full Power <sup>②</sup>                          | 1400 lumens @ 4000K/90CRI                                                                                                                                                                                                          |
| Dimming Type/Range                                                  | 0-10V / 100% ~ 10%                                                                                                                                                                                                                 |
| Beam Angle                                                          | 120°                                                                                                                                                                                                                               |
| Color Rendering Index                                               | CRI (Ra) >=90 / R9 >=50 / TM-30 R <sub>a</sub> >=85 / TM-30 R <sub>g</sub> >=100                                                                                                                                                   |
| Storage Temperature Range                                           | -35°C to 100°C / -31°F to 212°F                                                                                                                                                                                                    |
| Operating Ambient Temperature Range (Ta)                            | -35°C to 60°C / -31°F to 140°F                                                                                                                                                                                                     |
| Maximum Driver Case Temperature: per UL/ 5 year warranty            | 90°C (194°F) / 80°C (176°F)                                                                                                                                                                                                        |
| Maximum Module Case Temperature                                     | Safety: 105°C(221°F)/ L70(>60Khrs): 105°C(221°F)/ L90(36Khrs): 96°C(204.8°F)                                                                                                                                                       |
| Estimated Lumen Maintenance                                         | L70= >60,000 hours @ Tc max 105°C / L90= 36,000 hours @ Tc max 96°C                                                                                                                                                                |
| Color Consistency                                                   | Binning per ANSI C78.377-2015 @25°C; Typ. 3 SDCM, Max. 5 SDCM                                                                                                                                                                      |
| Inrush Current / Duration                                           | 5A @ 277V / 100us                                                                                                                                                                                                                  |
| Line Regulation / Load Regulation                                   | <1% @100% Load / <3% @100% Load                                                                                                                                                                                                    |
| Total Overall Ripple LF (<300Hz)/ HF(<40kHz) peak to peak           | <5% @100% Load                                                                                                                                                                                                                     |
| Low Frequency Ripple (120Hz ripple peak to peak)                    | <5% @100% Load                                                                                                                                                                                                                     |
| Flicker Percentage                                                  | <7% @100% - 20% Dimming Range<br><5% @<20% Dimming Range                                                                                                                                                                           |
| Flicker P <sub>st</sub> / SVM @ Min. Dimming Level per NEMA 77-2017 | P <sub>st</sub> : 1.154   SVM: 0.674                                                                                                                                                                                               |
| Start-up Time / Standby Power                                       | <500ms / <1W No Load                                                                                                                                                                                                               |
| Overall Size                                                        | 7.4"L x 4.7"W x 0.92"H (188mm L x 119.4mm W x 23.35mm H)                                                                                                                                                                           |
| Wire Type/ Length                                                   | 18AWG / 12" Black and White wires (Input 120~277VAC)<br>18AWG / 12" Purple and Pink wires (Dimming 0-10VDC)                                                                                                                        |
| LED Quantity                                                        | 48pcs. CW + 48pcs. WW                                                                                                                                                                                                              |
| Driver Part Number                                                  | T1M1UNV0350-15L                                                                                                                                                                                                                    |
| Module Part Number                                                  | VMU095023RT9TWA                                                                                                                                                                                                                    |
| Weight                                                              | 320g / 0.71lbs.                                                                                                                                                                                                                    |
| Packaging: Master Carton                                            | 20pcs                                                                                                                                                                                                                              |
| Maximum Screw Installation Torque                                   | 35in-lb (560in-ozf)                                                                                                                                                                                                                |
| Safety/Compliance                                                   | Component: cURus Module File #E351548; Driver File #E342838<br>DC Engines Retrofit Kits: cULus Classified 1598C File # E365124<br>RoHS Compliant<br>Dry and Damp Location<br>Energy Star Luminaire 2.2 Listed and CSD <sup>①</sup> |
| RFI/EMI                                                             | FCC Part 15B Consumer, EN55015                                                                                                                                                                                                     |
| Input Surge Test                                                    | 2.5kV Common and Differential mode (Per ES Ring Wave Test)                                                                                                                                                                         |
| Sound Rating / Noise                                                | A / <24 dBA                                                                                                                                                                                                                        |
| Output Type                                                         | Class 2 (approved for luminaires glass or plastic lenses)                                                                                                                                                                          |
| PCB Material / Connector Qty / Em. Connection                       | CEM1 / 2 / Yes                                                                                                                                                                                                                     |
| Warranty                                                            | 5 years @ Max. Tc 105°C (module) and 80°C (Driver) from the date of manufacture                                                                                                                                                    |

① See page #5 "Certification Chart" for exact models.

② Measured electrical data per UL file



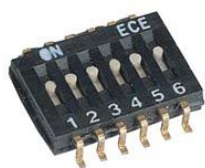
# VKMUNV008RT9yyA



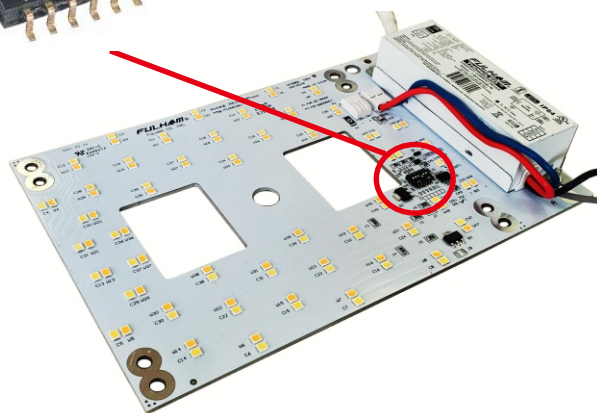
## CCT Selection Indication

1. The VividHorse DC Engine Retrofit Kit is a dual-channel LED product, that allows for CCT selection via the dip switch on the PCB. Available CCTs include 2700K, 3000K, 3500K, 4000K, 4500K and 5000K.
2. A pre-set CCT will come from the factory. Check the product label or packaging to see the pre-set CCT level.
3. Change the dip switch position to “ON” (1~6) to set the desired CCT level; Mark the set CCT level on the retrofit kit warning label provided inside the accessory bag.

**NOTE: ONLY keep one dip switch in the “ON” position, not doing so may result in an undesired CCT.**

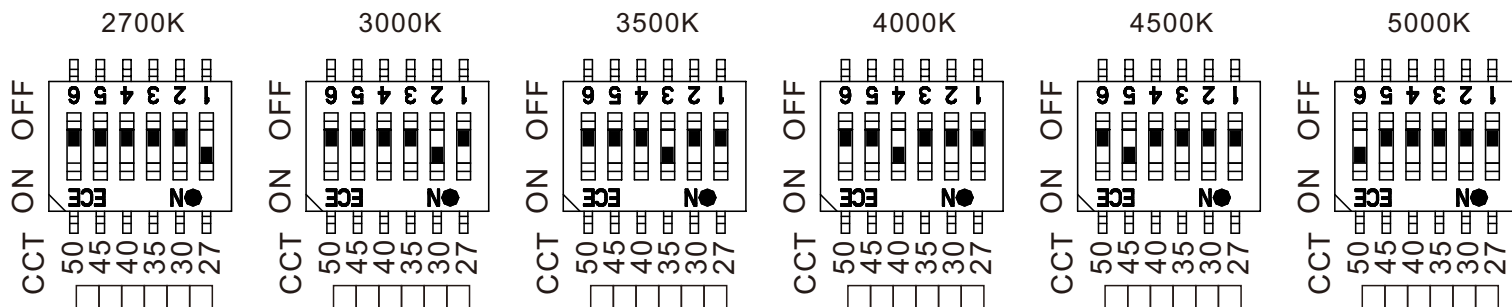


CCT Selection Dip Switch



CCT Indication Table

|       | 1   | 2   | 3   | 4   | 5   | 6   |
|-------|-----|-----|-----|-----|-----|-----|
| 2700K | ON  | OFF | OFF | OFF | OFF | OFF |
| 3000K | OFF | ON  | OFF | OFF | OFF | OFF |
| 3500K | OFF | OFF | ON  | OFF | OFF | OFF |
| 4000K | OFF | OFF | OFF | ON  | OFF | OFF |
| 4500K | OFF | OFF | OFF | OFF | ON  | OFF |
| 5000K | OFF | OFF | OFF | OFF | OFF | ON  |





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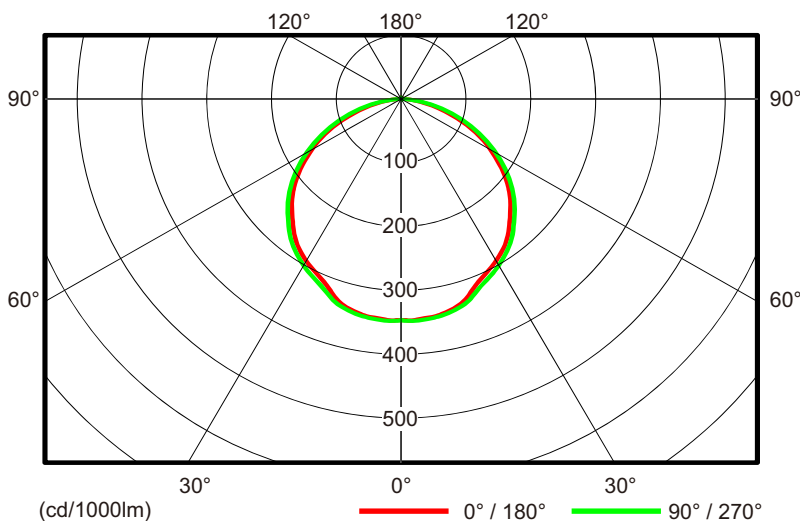


## Electrical and Optical Specifications

| CRI | Color Temperature | DC Engine Retrofit Kit Part Number | Input Power | Nominal Luminous Flux @ 90 CRI | Engine Efficacy @ 90 CRI |
|-----|-------------------|------------------------------------|-------------|--------------------------------|--------------------------|
| 90  | 2700K             | VKMUNV008RT927A                    | 10W         | 1340 lumens                    | 134 lm/W                 |
|     | 3000K             | VKMUNV008RT930A                    | 10W         | 1360 lumens                    | 136 lm/W                 |
|     | 3500K             | VKMUNV008RT935A                    | 10W         | 1380 lumens                    | 138 lm/W                 |
|     | 4000K             | VKMUNV008RT940A                    | 10W         | 1400 lumens                    | 140 lm/W                 |
|     | 4500K             | VKMUNV008RT945A                    | 10W         | 1400 lumens                    | 140 lm/W                 |
|     | 5000K             | VKMUNV008RT950A                    | 10W         | 1400 lumens                    | 140 lm/W                 |

## Light Distribution

| Zone     | Zone Flux | Zone Flux% | Sum Zone Flux | Sum Zone Flux% |
|----------|-----------|------------|---------------|----------------|
| 0 ~ 10   | 45.6      | 3.3%       | 45.6          | 3.3%           |
| 10 ~ 20  | 130.7     | 9.5%       | 176.3         | 12.8%          |
| 20 ~ 30  | 194.5     | 14.1%      | 370.8         | 26.9%          |
| 30 ~ 40  | 238.3     | 17.3%      | 609.1         | 44.2%          |
| 40 ~ 50  | 251.3     | 18.2%      | 860.4         | 62.4%          |
| 50 ~ 60  | 228.2     | 16.6%      | 1088.6        | 79.0%          |
| 60 ~ 70  | 169.8     | 12.3%      | 1258.4        | 91.3%          |
| 70 ~ 80  | 91        | 6.6%       | 1349.4        | 97.9%          |
| 80 ~ 90  | 22.5      | 1.6%       | 1371.9        | 99.5%          |
| 90 ~ 180 | 6.6       | 0.5%       | 1378.5        | 100.0%         |



### NOTES:

- 1) Electrical and optical specifications are based on Tc mod = 25°C. Reference Amb. Temp. vs Rel. Lum. Flux for other temperatures.
- 2) Performance for these components have been tested in accordance with Energy Star.
- 3) Refer to Energy Star CSD or Luminaires 2.2 for actual measurements on specific part numbers. Energy Star testing is done at elevated case temperature.
- 4) Specifications are subject to change without notice.
- 5) 70CRI & 80CRI are NOT available.



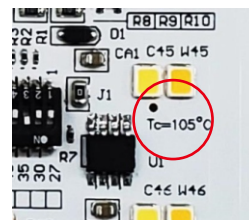
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## Thermal Specifications

### ③ DC Engine Retrofit Kit

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Storage Temperature Range           | -35°C to 100°C / -31°F to 212°F |
| Operating Ambient Temperature Range | -35°C to 60°C / -31°F to 140°F  |
| Maximum Driver Case Temperature     | 90°C / 194°F                    |
| Maximum Module Case Temperature     | 105°C / 221°F                   |

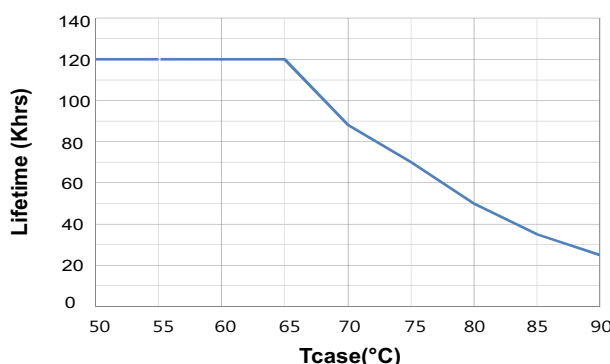


Tc located on module



Tc located on driver

## LED Driver Lifetime vs. Tcase



Failure Rate Info based upon MTBF modeling:  
90% survivals at end of life @ ≤Tc lifetime rating

## Thermal De-Rating: Tc vs. Luminous Flux

| Module Case Temperature (Tc) | Total Vf Multiplier | Luminous Flux Multiplier |
|------------------------------|---------------------|--------------------------|
| 25°C                         | 1.000               | 1.000                    |
| 30°C                         | 0.998               | 0.992                    |
| 35°C                         | 0.995               | 0.984                    |
| 40°C                         | 0.993               | 0.976                    |
| 45°C                         | 0.990               | 0.967                    |
| 50°C                         | 0.988               | 0.958                    |
| 55°C                         | 0.986               | 0.949                    |
| 60°C                         | 0.984               | 0.940                    |
| 65°C                         | 0.982               | 0.931                    |
| 70°C                         | 0.980               | 0.922                    |
| 75°C                         | 0.978               | 0.913                    |
| 80°C                         | 0.977               | 0.904                    |
| 85°C                         | 0.976               | 0.895                    |
| 90°C                         | 0.974               | 0.886                    |
| 95°C                         | 0.973               | 0.877                    |
| 100°C                        | 0.971               | 0.867                    |
| 105°C                        | 0.969               | 0.858                    |

### NOTES:

- 1) Refer to DC Engine Retrofit Kit Installation Instructions for further detail.
- 2) This DC Engine Retrofit Kit can retrofit any luminaire with a dimension/volume greater or equal to the minimum dimensions shown below and on the Installation Instructions.
- 3) This DC Engine Retrofit Kit can be used with luminaires similar to the one illustrated on the Installation Instructions.

③ Suitable for surface mounted luminaire with minimum dimensions or volume: Length of 10.5", Height of 4.25", and Width of 6" or 267.75 cubic inches



# VKMUNV008RT9yyA



## Certification Chart

| Classification                                                                    | Model | VKMUNV008RT9yyA          |
|-----------------------------------------------------------------------------------|-------|--------------------------|
|  |       | YES                      |
|  |       | YES<br>(Driver & Module) |
|  |       | YES                      |
|  |       | YES<br>(Exclude 4500K)   |
|  |       | YES<br>(Exclude 4500K)   |

## Energy Star™ TM-21 Calculator Data

| Tc Module | Reported L70   | Reported L90   |
|-----------|----------------|----------------|
| 85°C      | >60,000 Hrs    | 40,000 Hrs     |
| 96°C      | >60,000 Hrs    | 36,000 Hrs     |
| 105°C     | >60,000 Hrs    | 33,000 Hrs     |
| Tc Module | Calculated L70 | Calculated L90 |
| 85°C      | 131,000 Hrs    | 40,000 Hrs     |
| 96°C      | 117,000 Hrs    | 36,000 Hrs     |
| 105°C     | 106,000 Hrs    | 33,000 Hrs     |

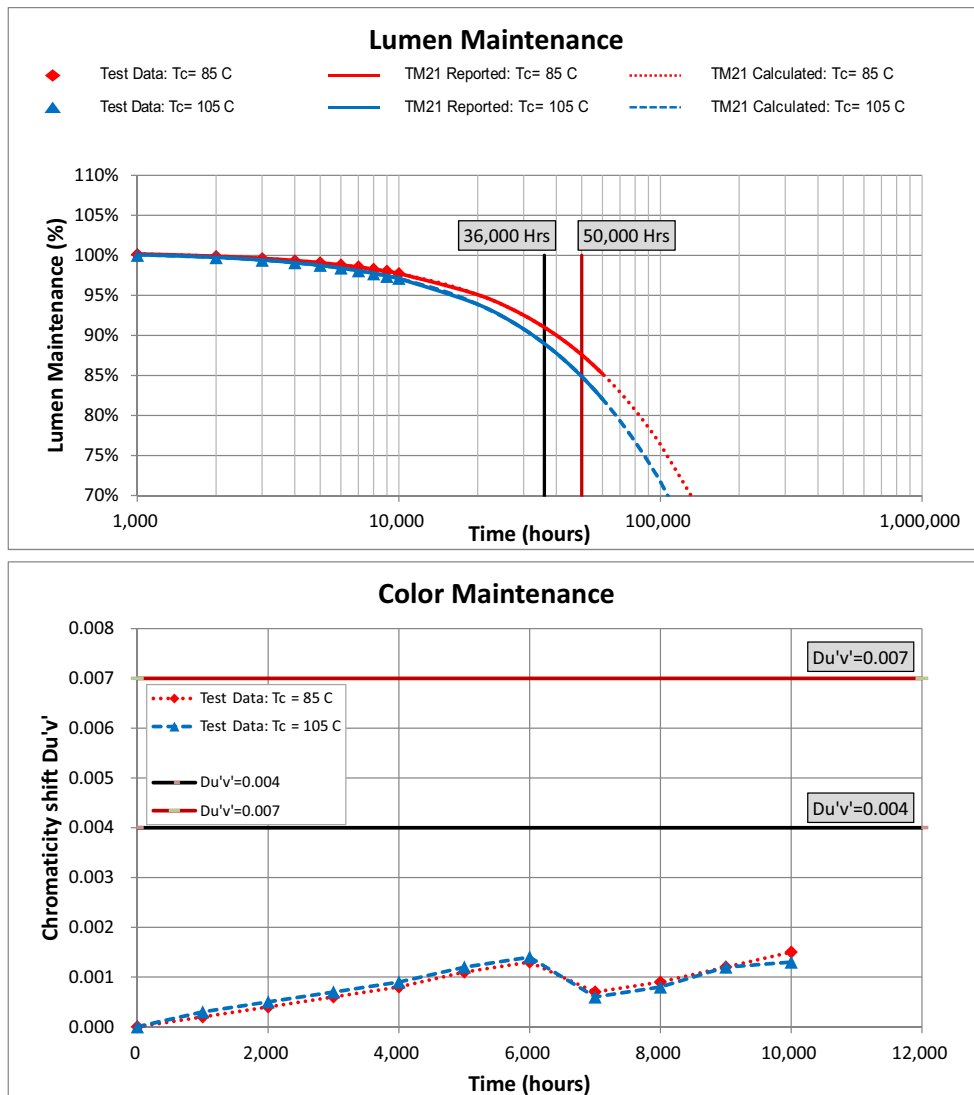
### 1) Energy Star CSD:

[https://www.energystar.gov/products/lighting\\_fans/certified\\_lighting\\_subcomponent\\_database\\_csd](https://www.energystar.gov/products/lighting_fans/certified_lighting_subcomponent_database_csd)

### 2) Energy Star Listed:

[https://www.energystar.gov/productfinder/product/certified-light-fixtures/results?scrollTo=342&search\\_text=fulham&fixture\\_type\\_isopen=&markets\\_filter=United+States&zip\\_code\\_filter=&product\\_types=Select+a+Product+Category&sort\\_by=light\\_output\\_lumens&sort\\_direction=asc&page\\_number=0&lastpage=0](https://www.energystar.gov/productfinder/product/certified-light-fixtures/results?scrollTo=342&search_text=fulham&fixture_type_isopen=&markets_filter=United+States&zip_code_filter=&product_types=Select+a+Product+Category&sort_by=light_output_lumens&sort_direction=asc&page_number=0&lastpage=0)

## LED Lumen & Color Maintenance Data per LM-80 report and TM-21 Calculator



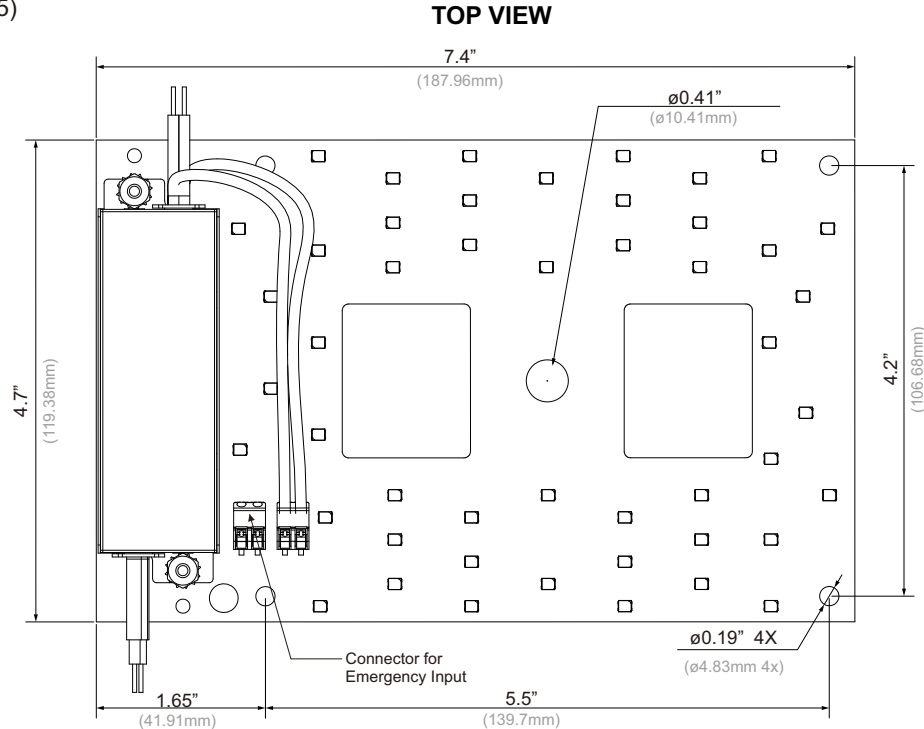


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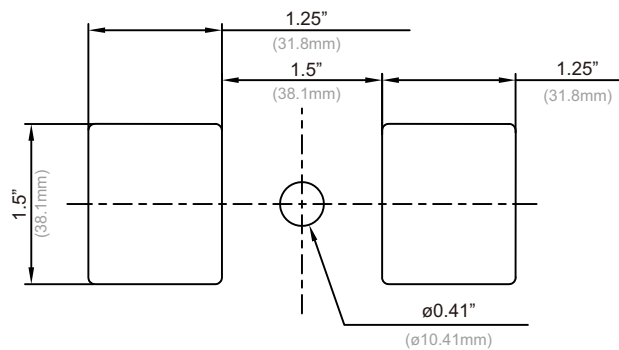


## Mechanical Drawings

(Scale 4 : 5)



| Overall Dimensions                            |                    |
|-----------------------------------------------|--------------------|
| Length                                        | 7.4"<br>[187.96mm] |
| Width                                         | 4.7"<br>[119.38mm] |
| Height                                        | 0.92"<br>[23.35mm] |
| Wire Length                                   |                    |
| AC Input<br>(Black / White)                   | 12"<br>[304.8mm]   |
| 0-10V Dimming<br>Purple (10v+)<br>Pink (10V-) | 12"<br>[304.8mm]   |





# VKMUNV008RT9yyA



## DC Engine Retrofit Kit Equivalency Chart: FLUO to LED

| DC Engine Retrofit Kit (7.4" x 4.7" Rectangular) |                |                    |          | CFL         |              |            |               |              |          |
|--------------------------------------------------|----------------|--------------------|----------|-------------|--------------|------------|---------------|--------------|----------|
| DC Engine Retrofit Kit Part Number               | System Wattage | Lumen Output       | Efficacy | CFL Style   | Lamp Wattage | # of Lamps | Total Wattage | Lumen Output | Efficacy |
| VKMUNV008RT9yyA                                  | 10W            | 1400 lm (4K/90CRI) | 140 lm/W | Quad        | 13W          | 1          | 13W           | 775 lm       | 59 lm/W  |
|                                                  |                |                    |          |             | 18W          | 1          | 18W           | 1075 lm      |          |
|                                                  |                |                    |          | Triple      | 13W          | 1          | 13W           | 825 lm       | 63 lm/W  |
|                                                  |                |                    |          |             | 18W          | 1          | 18W           | 1020 lm      | 56 lm/W  |
|                                                  |                |                    |          | Quad        | 13W          | 2          | 26W           | 1550 lm      | 59 lm/W  |
|                                                  |                |                    |          |             | 26W          | 1          | 26W           |              |          |
|                                                  |                |                    |          | Triple      | 13W          | 2          | 26W           | 1650 lm      | 63 lm/W  |
|                                                  |                |                    |          |             | 26W          | 1          | 26W           | 1536 lm      | 59 lm/W  |
|                                                  |                |                    |          | Circline T5 | 22W          | 1          | 22W           | 1530 lm      | 69 lm/W  |
|                                                  |                |                    |          | Circline T9 | 22W          | 1          | 22W           | 775 lm       | 35 lm/W  |

### NOTES:

- 1) LED is a point source and FLUO is 360, there is more light lost with FLUO especially during the reflection. Therefore it is recommended to use a 65 percent of the original light source total lumens when converting FLUO to LED. For example original FLUO lumens of 2000 x .65% = 1300 LED lumens. This is only a recommendation, and the installer should consider other factors for the application.
- 2) For reference only, several factors apply.





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## DC Engine Retrofit Kit with Emergency Options

NOTE: Emergency systems are not UL classified for field installation.

| Engine/Kit Part Number | Emer. Driver Part Number      | Battery Wattage | Battery Part Number           | Harness (mA)    | LED V <sub>f</sub> (V) | LED I <sub>f</sub> (mA) | Total Power (W) | Total Lum. Output (lm) | Eff. (lm/W) |
|------------------------|-------------------------------|-----------------|-------------------------------|-----------------|------------------------|-------------------------|-----------------|------------------------|-------------|
| VKMUNV008RT940A        | FHS2-UNV-36L/<br>FHS2-UNV-56S | 4W              | FHSBATT8-AA9<br>FHSBATL3-1    | FHS-HARNESS-175 | 21.5                   | 125                     | 3.8             | 720 <sup>Ⓢ</sup>       | 191         |
|                        | FHSCP-UNV-5WL                 | 5W              | N/A                           | N/A             | 21.8                   | 228                     | 5.0             | 934                    | 187         |
|                        | FHSCP-UNV-10P-L-SD            | 5W              | FHSBATL3-1.5-SD               | N/A             | 21.8                   | 228                     | 5.0             | 934                    | 187         |
|                        | FHS2-UNV-36L                  | 6W              | FHSBATL6-.6                   | FHS-HARNESS-250 | 21.8                   | 250                     | 5.5             | 1022 <sup>Ⓢ</sup>      | 187         |
|                        | FHSCP-UNV-10P-L-SD            | 6W              | FHSBATL9-.6-SD                | N/A             | 21.9                   | 368                     | 6.0             | 1124                   | 187         |
|                        | FHSCP-UNV-7.8WL               | 7.8W            | N/A                           | N/A             | 22.2                   | 354                     | 7.8             | 1428                   | 183         |
|                        | FHS2-UNV-36L/<br>FHS2-UNV-56S | 8W              | FHSBATL3-1.5<br>FHSBATL3-1.5S | FHS-HARNESS-350 | 22.2                   | 350                     | 7.8             | 1412 <sup>Ⓢ</sup>      | 182         |

### NOTES:

1) For reference only, several factors apply.

2) Emergency systems are not UL classified for field installation.

Ⓢ These batteries do not include mounting means, separate mounting brackets are available

Ⓢ Initial lumen output. Will reduce to no less than ~65% of total lumen output.

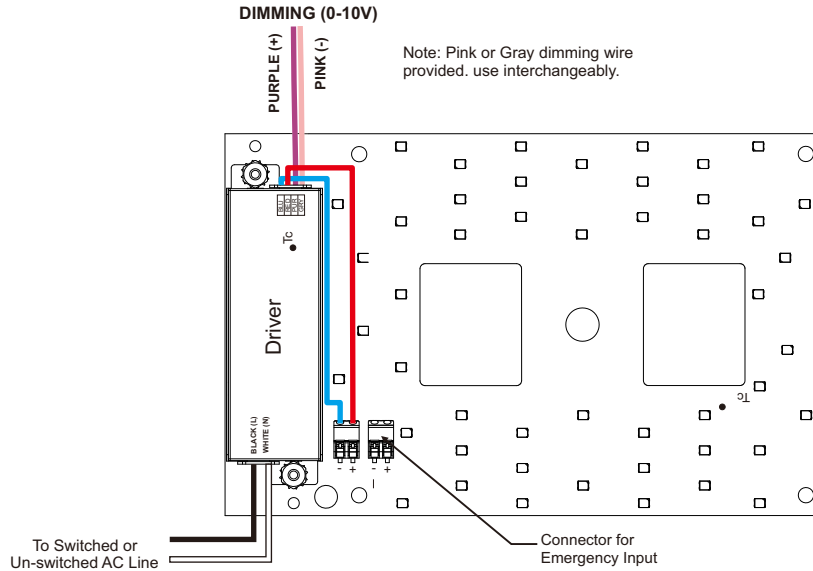




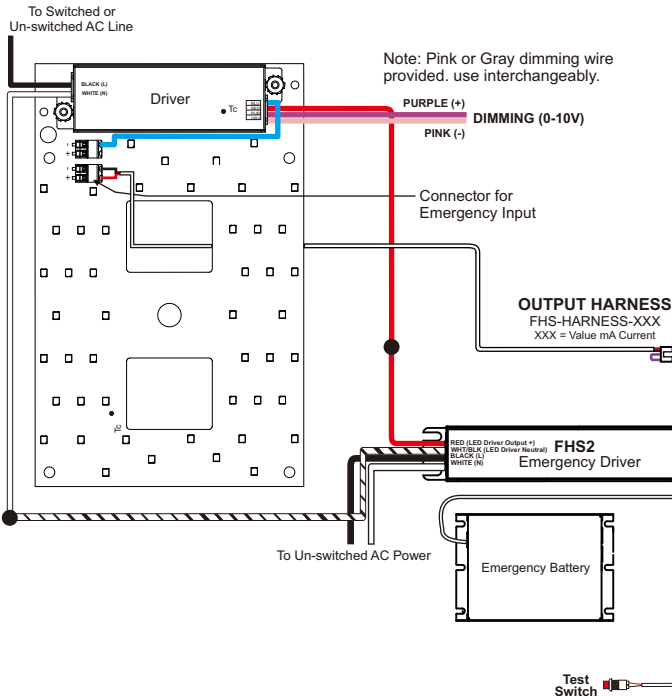
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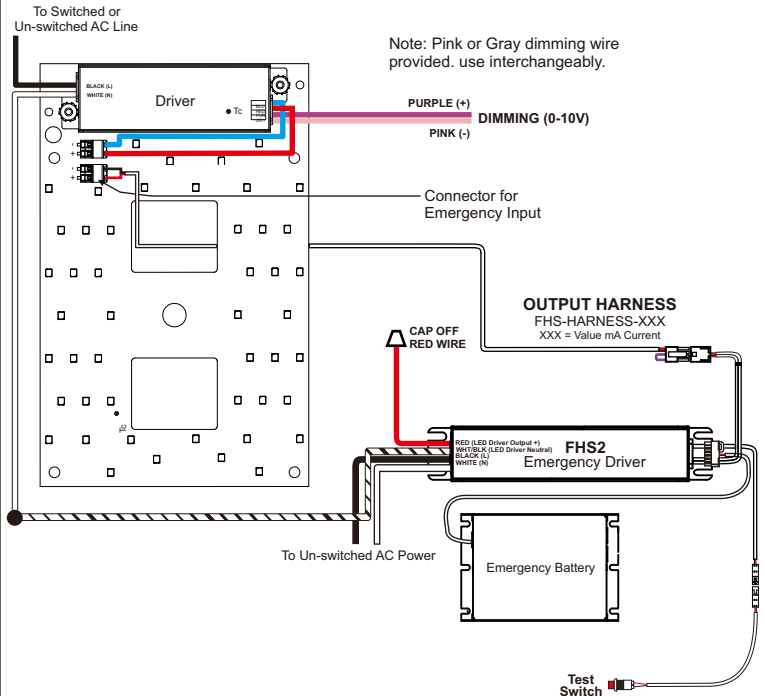
## Wiring Diagram: Standard Option



## Wiring Diagram: HotSpot2 (FHS2) EM- Pass Through (Recommended for non-Fulham LED EM)



## Wiring Diagram: HotSpot2 (FHS2) EM- In Parallel (Recommended for Fulham LED EM)



### NOTES:

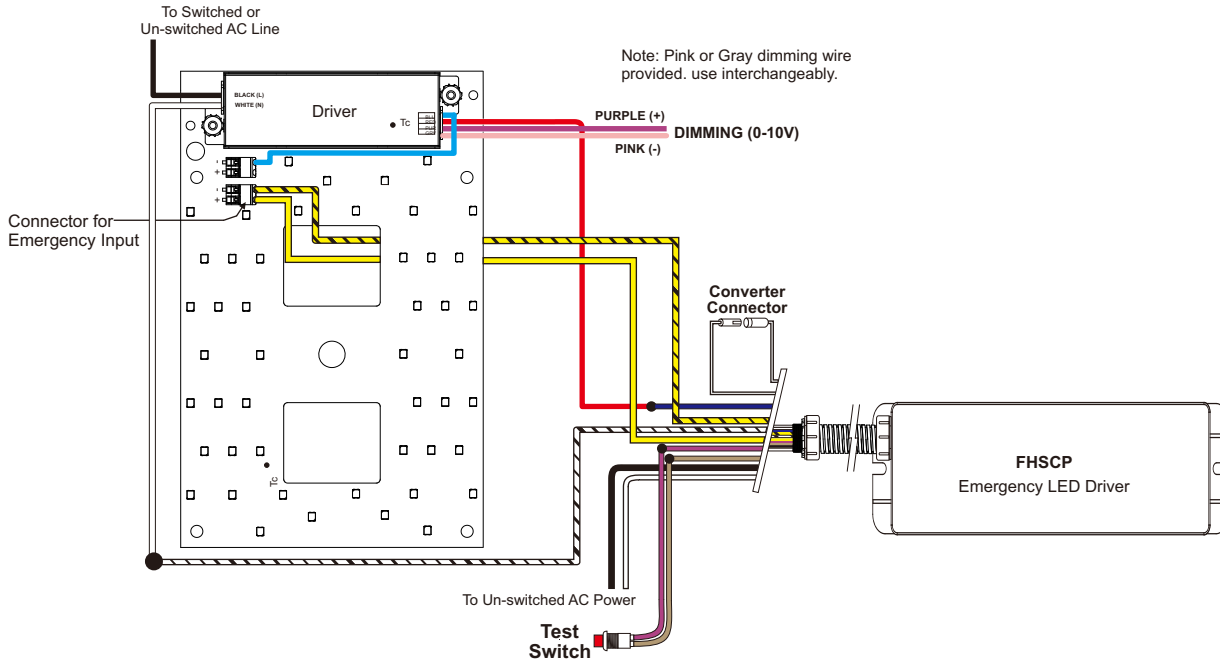
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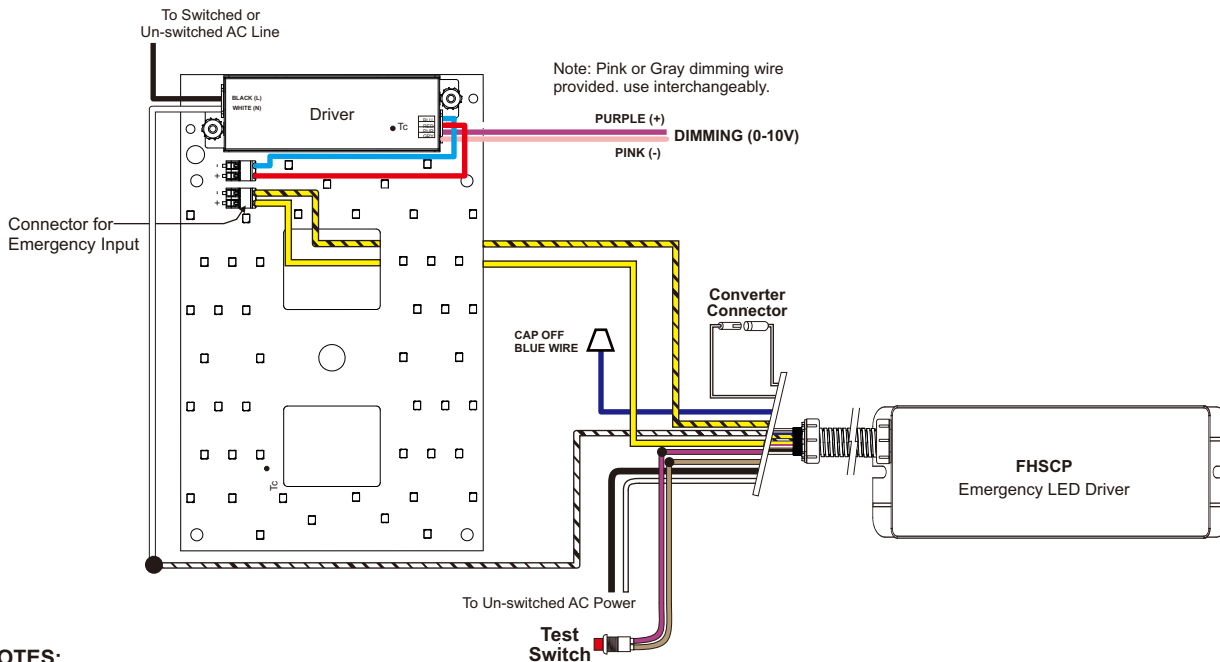
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## Wiring Diagram: Constant Power with conduit (FHSCP) EM- Pass Through (Recommended for non-Fulham LED EM)



## Wiring Diagram: Constant Power with conduit (FHSCP) EM- In Parallel (Recommended for Fulham LED EM)



### NOTES:

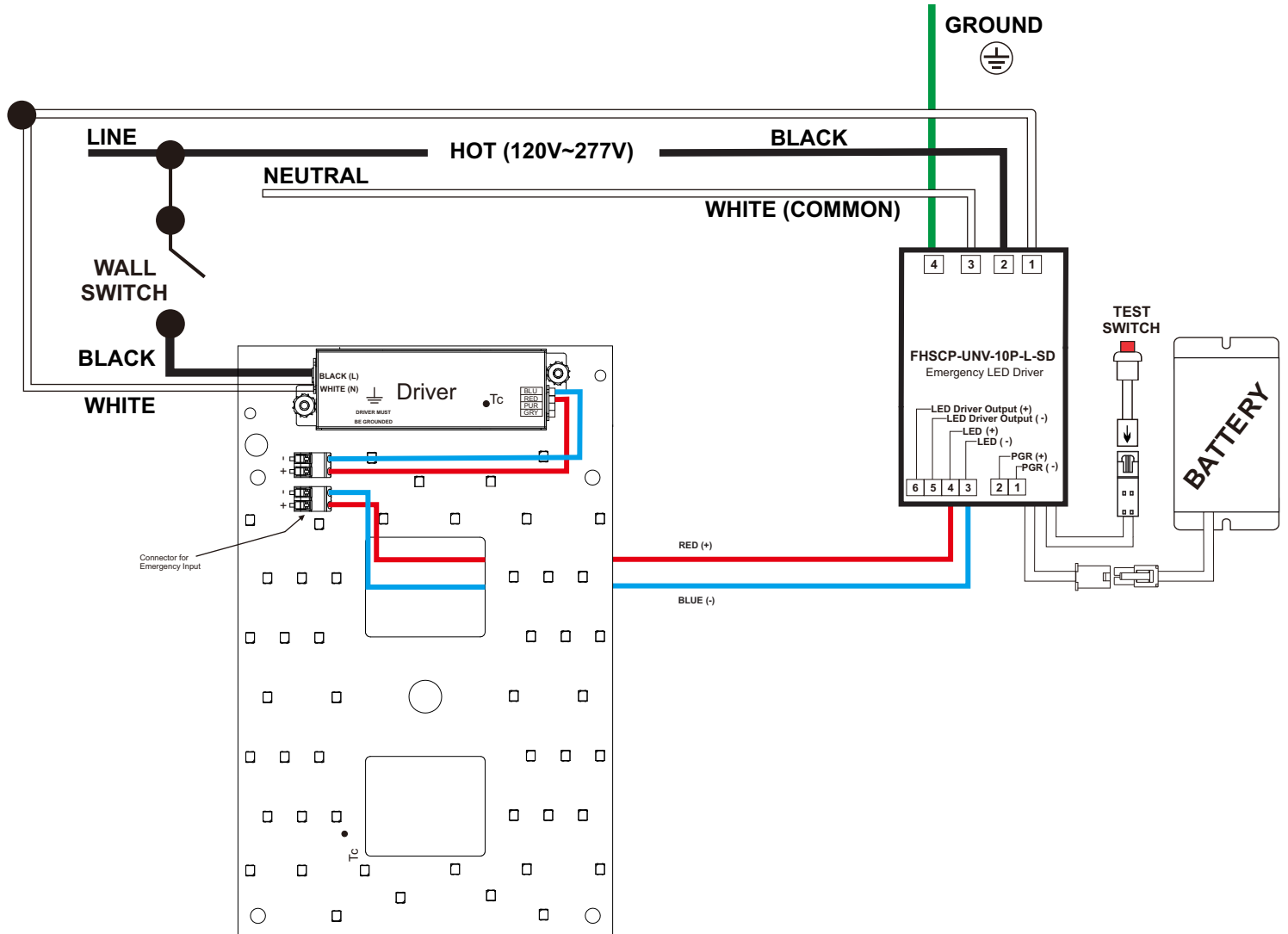
- 1) For reference only, several factors apply.
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## Wiring Diagram: Parallel Wiring (FHSCP-UNV-10P-L-SD)



### NOTES:

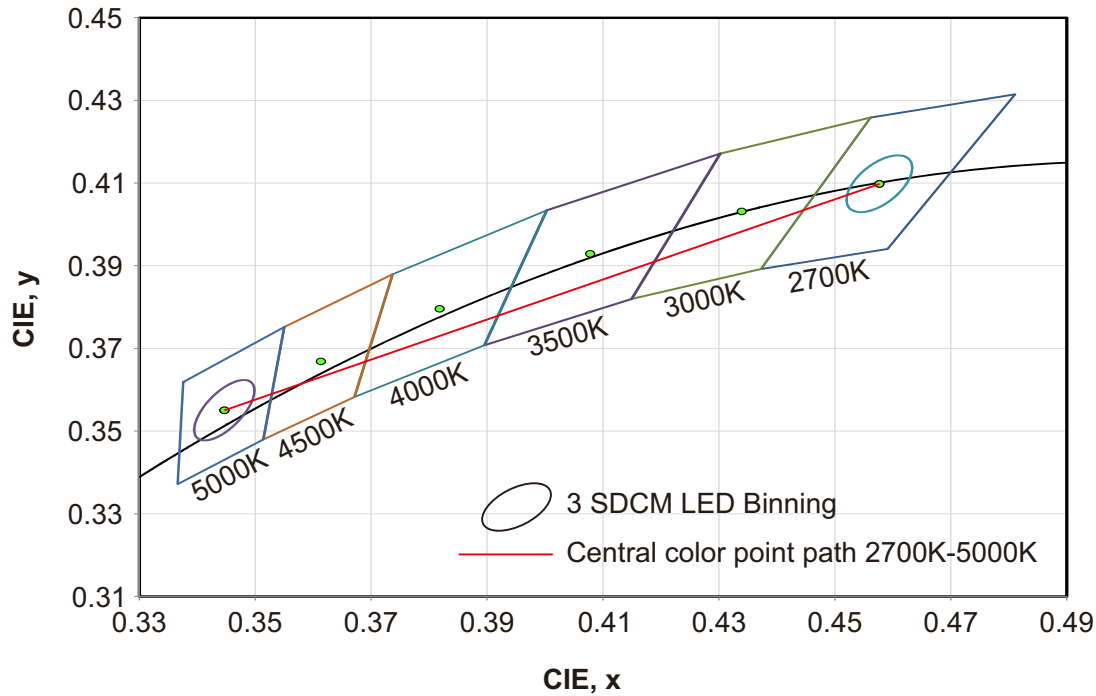
- 1) For reference only, several factors apply.
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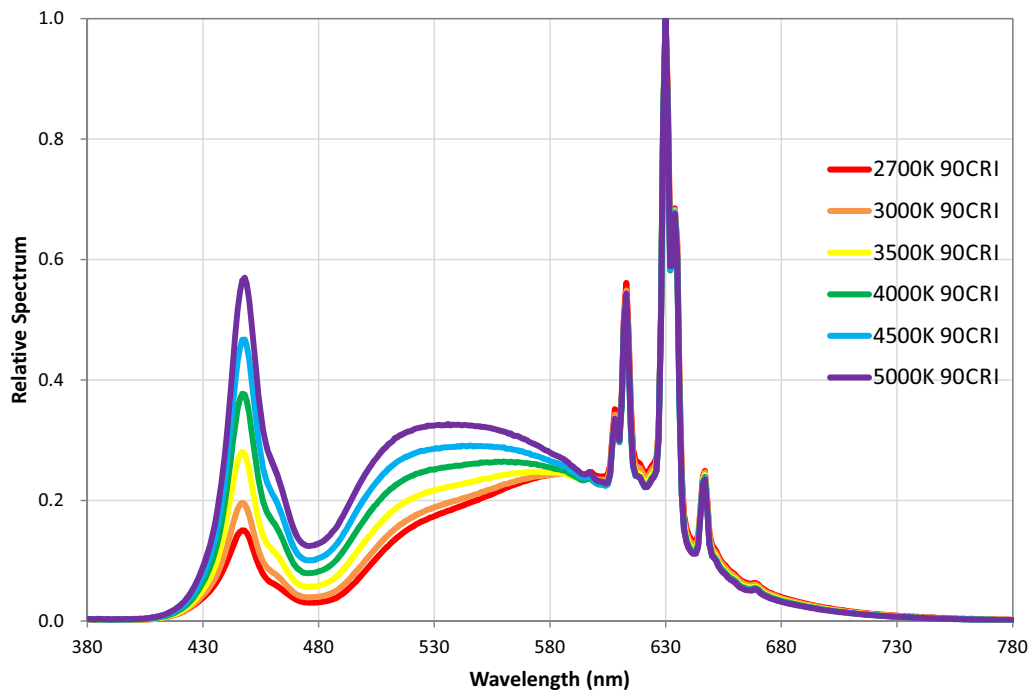
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## Color and Binning



## Optical Spectrum



## NOTES:

- 1) The Color and Binning and Optical Spectrum charts are for reference only. For more detailed info, contact factory.
- 2) Reference Samsung Chromaticity Diagram for Color and Binning. Binning per ANSI C78.377-2015 @ 25°C; 3 SDCM.
- 3) The Optical Spectrum values vary depending on product type and color rank.



# VKMUNV008RT9yyA



## Guidelines

### Reduced Flicker Operation Feature

- DC Engine models have added circuitry to help reduce the Flicker when operated on the 50/60Hz power lines. The Flicker percentage on these models is below 30% when operated at line voltage, per CEC requirement.

### Termination Notes

- A luminaire disconnect UL listed connector is included, as part of DC Engine Retrofit Kit to meet Energy Star requirements.
- Use solid wire size 18AWG/12" per pole, rated at max 600V load and 105°C operating temperature.
- Strip wires to 11-13mm (0.47in.).
- Connector not for multiple use.
- For additional information on Wago's 873 Series Lumi-Nuts® connector, please visit:



### Environmental Rating

- DC Engine Retrofit Kit are rated for dry and damp locations.

### Fastening to Luminaire

- When installing by "mounting thru holes" (recommended), use any screw with diameter less than 0.13in. [3.4mm]. Mount on a flat surface and use all 4 mounting holes to ensure good contact between back side of DC Engine Retrofit Kit and mounting surface.
- Refer to max specified torque for installation. Suggested screw sizes: #5 or M3 Pan Head screw.

### Electrostatic Sensitive Product (ESD)

- Fulham LED products should be handled with proper measures to protect against any potential ESD damage.
- When servicing, personnel should be ground and direct contact with LED should be avoided.

### Thermal Management

- Proper thermal management should be employed to ensure life and reliability of product.

### Wiring

- Intended for UNV (120-277V) application ONLY.
- Connect the Black wire from the DC Engine Retrofit Kit to the building Line by using the proper connectors or wire nuts.
- Connect the White wire from the DC Engine Retrofit Kit to the building/source Neutral by using the proper connectors or wire nuts.
- DC Engine Retrofit Kit and luminaire must be grounded.



# VKMUNV008RT9yyA



## Part Number Matrix

**V** **K** **M** **UNV** **008** **RT** **9** **40** **A**

| Product Line                | Compliance                                    | Dimming   | Input Voltage   | Estimated Power     | Shape          | CRI    | Color Temperature                                                                |
|-----------------------------|-----------------------------------------------|-----------|-----------------|---------------------|----------------|--------|----------------------------------------------------------------------------------|
| V = VividHorse <sup>①</sup> | K = DC Engine Retrofit Kit (cULus Classified) | M = 0-10V | UNV = 120V~277V | 008 = 8W (Typ. 10W) | RT=Rectangular | ⑨ = 90 | 27 = 2700K<br>③0 = 3000K<br>35 = 3500K<br>40 = 4000K<br>45 = 4500K<br>50 = 5000K |

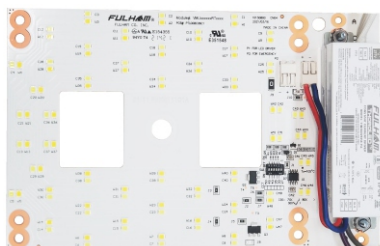
① Standard Product offering.

② DC Engine Retrofit Kit includes mounting hardware, retrofit labels, and installation instructions.

## Product Image: 10W Rectangular DC Engine Kit

VKMUNV008RT9yyA

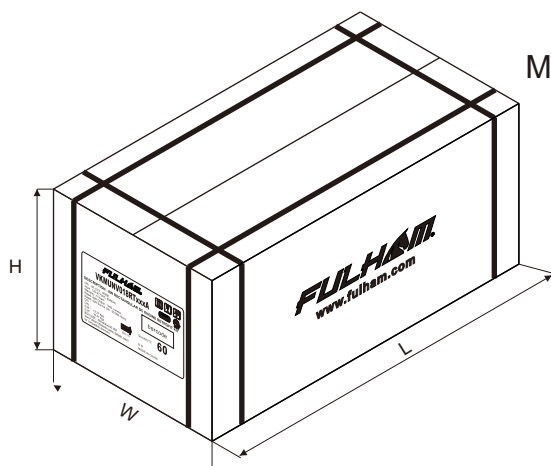
This luminaire has been modified and can no longer operate the originally intended lamp.  
**REPLACE ONLY WITH FULHAM ELECTRONIC CO. : VKMUNV008RTxyyA**  
 Ce luminaire a été modifié et ne peut plus utiliser la lampe prévue à l'origine.  
**REPLACER UNIQUEMENT AVEC FULHAM ELECTRONIC CO. : VKMUNV008RTxyyA**  
 Where xyy may be the following  
 Où xyy peut être le suivant  
 x: CRI ③0=90 yy: CCT ②7=2700K ③3=3000K ③5=3500K ④0=4000K ④5=4500K ⑤0=5000K



### Hardware Kit: TLC-HW08

UNV DC Engines Retrofit Kits with 0-10V Dimming :  
 Hardware, Quick disconnect, Labels & Installation Instructions

## Packaging



Master Carton

| OUTER DIMENSION       |                       |              |
|-----------------------|-----------------------|--------------|
| L                     | W                     | H            |
| 21.65"(550mm)         | 15.75"(400mm)         | 9.45"(240mm) |
| Net Weight            | Gross Weight          | QUANTITY     |
| 27.06 lbs. (12.27 kg) | 36.30 lbs. (16.47 kg) | 60pcs.       |