RENOVA
Innovative Lighting Ideas
Energy Efficient Solutions

## Category: LED

# Vapor Tight Luminaire

*The Vapor Tight (WVT) Series has been developed for all dust, damp/wet, vapor proof, cold weather and outdoor applications. Fixture can be surface (wall or ceiling), pendent, chain or cable mounted. This series utilizes LED technology for optimal fixture efficiency, reduction of energy consumption and improved quality of light. It also provides instant-on operation and offers many other energy saving options.*

## Prefix: WVT

Vapor Tight

**project:**

**fixture type:**

**catalog #:**

**quantity:**

## ORDERING GUIDE

| WVT | | - | | - | | - | | - | | - | | - | | - | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PREFIX/ SERIES | SIZE | | OPTICS (DISTRIBUTION) | | LUMEN OUTPUT* | | DRIVER VOLTAGE | | DRIVER TYPE | | CCT Selectable COLOR TEMP. | | LENS (DIFFUSER) | | HOUSING COLOR / FINISH | | FIXTURE OPTIONS |
| **WVT** Vapor Tight | **4** - 4' | | **N** - Normal | | **L160** 16000<br>**L180** 18000<br>**L260** 26000 | | **UNV** - Universal Voltage (120v - 277v) (50/60 Hz) (Standard) | | **DM** - 0-10v Low Voltage Dimming (10% - 100%) (Standard) | | **LKFS** - 3500K/ 4000K/5000K | | **NA** - Not applicable | | **PL** - Polycarbonate (grey) | | **OS**- PIR Sensor w/ elbow adapter<br>**ODS** - Mircrowave Sensor with elbow adpater<br>**EM** - Emergency Battery Pack †<br>**NSF** - NSF Certified |

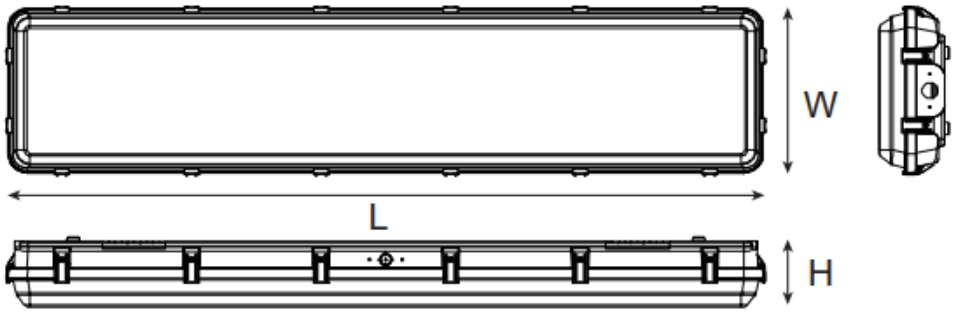
† Standard "EM" option to be NiCd Battery @ 5 Watts constant power @ 90 min. duration (standard). Consult factory for all available options.
Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

*PRIOR TO REPLACING AN EXISTING FLUORESCENT FIXTURE, PLEASE NOTE THE FOLLOWING:*

*Fluorescent lamps contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and / or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org.*

## Fixture Dimensions

Prefix: WVT




| L (in) | W (in) | H (in) | Weight (lbs) |
|---|---|---|---|
| 47.50 | 10.48 | 4.53 | 14.81 |

## Features

**HOUSING**
- Light gray polycarbonate housing with stainless steel latches.

**ELECTRICAL**
- Operating temperature (ambient): -40°C to 43°C (-40°F to 109°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Emergency driver option available.
- Input transient surge protection = 2.5kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

**OPTICAL SYSTEM**
- Polycarbonate lens.
- Field selectable 3500K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures*.
- Tri-lumen selectable delivers 16,000 to 21,000 nominal lumens*.
- Long-life LEDs provide 178,000 hours of operation with at least 70% of initial lumen output (L70), and 54,000 hours with at least 90% of initial lumen output (L90)**.
- Sensor-ready receptacle standard.
- Screw in sensor ready. Remote control required for programming (Sensor andremote control sold separately).
- LED color maintenance < -0.0016 chromaticity shift (Δu'v') over the initial 6,000 hours of operation.
- Color rendering index > 80.

**MOUNTING**
- Surface mount kit is standard and v-hooks included. (Chain sold separately)
- Optional cable mount kit provides luminaire suspension.
- Easy installation in new construction or retrofit applications

**CODE COMPLIANCE**
- cULus listed for wet locations.
- DLC premium listed.
- Complies with FCC part 15, class A.
- IP66 rated for ingress protection.
- IK10 rated for impact protection.
- Complies with NEMA 4X.
- Optional Certification for NSF/ANSI 2 Food Equipment for Food and Non Splash Zones

**WARRANTY**
- 5 year warranty on all electronics and housing

**NOTES:**

LED Dimming Drivers have adjustable output capability. A wide range of input watts/lumen output can be adjusted up or down on all models to suit a particular application. Always consult factory for the latest information.

Photometric data, IES files and all other information is available on request.

RENOVA products are constantly being improved; therefore the information shown is subject to change without notice. Always consult your lighting representative or RENOVA Lighting Systems, Inc. for the latest information.

## Lumen Tables

| Measurements | Low Lumens | | | Mid Lumens | | | High Lumens | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K |
| Lumens | 15,773 | 16,261 | 16,264 | 17,538 | 18,257 | 18,276 | 20,359 | 21,066 | 21,001 |
| Watt | 98.58 | 95.48 | 97.59 | 112.21 | 109.07 | 112.12 | 130.57 | 125.32 | 129.16 |
| Efficacy | 160.00 | 170.31 | 166.66 | 156.30 | 167.39 | 163.00 | 155.92 | 168.10 | 162.60 |

## Eletrical

| Series | CCT | Input Amps (A) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Low Lumens | | | Mid Lumens | | | High Lumens | | |
| | | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| VTSR-211816L-3CCT | 3500K | 0.82 | 0.41 | 0.36 | 0.94 | 0.47 | 0.41 | 1.09 | 0.54 | 0.47 |
| | 4000K | 0.80 | 0.40 | 0.34 | 0.91 | 0.45 | 0.39 | 1.04 | 0.52 | 0.45 |
| | 5000K | 0.81 | 0.41 | 0.35 | 0.93 | 0.47 | 0.40 | 1.08 | 0.54 | 0.47 |

## Photometrics

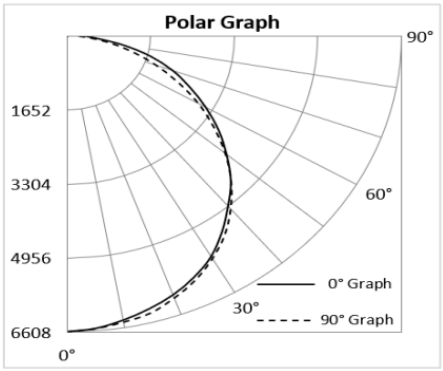
**Luminaire Data**

| | |
|---|---|
| Description | 4' H.O. Vapor Tight Lumen and Kelvin Select |
| Total Lumens | 21,001 |
| Input Wattage | 129 |
| Efficacy (lm/W) | 163 |
| Spacing Criterion (0-180°) | 1.28 |
| Spacing Criterion (90-270°) | 1.3 |

Photometrics calculated at 4000k and highest lumen setting.

**Zonal Lumen Summary**

| Zone | Lumens | %Fixt |
|---|---|---|
| 0-20° | 2,424 | 11.5% |
| 0-30° | 5,191 | 24.7% |
| 0-40° | 8,586 | 40.9% |
| 20-50° | 9,727 | 46.3% |
| 40-70° | 9,422 | 44.9% |
| 0-60° | 15,422 | 73.4% |
| 0-80° | 19,685 | 93.7% |
| 0-90° | 20,372 | 97.0% |
| 90-180° | 628 | 3.0% |
| 0-180° | 21,001 | 100.0% |

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