



# Vaportite Hazardous Location Class 1, Division 2



## Description

The LITELUME™ Vaportite Hazardous Location (LL-VTHL) Class 1, Division 2 series luminaire features SUS304 Stainless Steel housing with a heavy duty impact resistant fiberglass-reinforced polycarbonate lense and comes in 2' and 4' lengths. Designed to replace HID lighting systems up to 250w MH or HPS. Typical lighting applications include industrial facilities, oil, gas, painting facilities, and auto service facilities. Mounting heights of 18 to 30 feet can be used based on light level and uniformity requirements.

## Fixture Information

|                     |   |
|---------------------|---|
| Size:               | 30W/40W/50W/60W   |
| Housing:            | SUS304 Stainless Steel  |
| Housing Protection: | IP66/IK10/3G vibration/1200 hours salt spray  |
| Finish:             | Epoxy Powder Coat   |
| Mountings:          | Standard: Surface or Suspended Mount  |
| Lens:               | Standard: Clear fiberglass-reinforced PC<br>Standard: Frosted fiberglass-reinforced PC  |
| CRI:                | 80  |
| Dimming:            | Standard: 0-10V   |
| Temperature:        | Standard: -40°C to +60C<br>With emergency battery backup: -10°C to +60C   |
| Voltage:            | Standard: 120-277V<br>Optional: 277-480V  |
| Power Factor:       | >.90  |
| Surge Protector:    | 4 kVA   |
| Cable Entry:        | Standard: 4 x M20 (Side x1 with cable gland, Side x3 with stopping plugs)<br>Emergency: 4 x M20 (Side x1 with cable gland, Side x3 with stopping plugs)                 |
| Wiring:             | Suitable for dead end, through feed or single-ended "T" wiring  |
| Warranty:           | Standard Luminaire: 10-Year Limited Warranty<br>With 8w emergency battery backup: 5-Year Limited Warranty<br>With 15w emergency battery backup: 3-Year Limited Warranty |

## Performance Data

### Lumen Output:

4,500 to 9,000 lm

### Lumens Per Watt (typical):

150 lm/W

### Beam Angle:

120°

### CCT:

4000K

5000K

### Lifespan:

50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### Ratings & Certificates

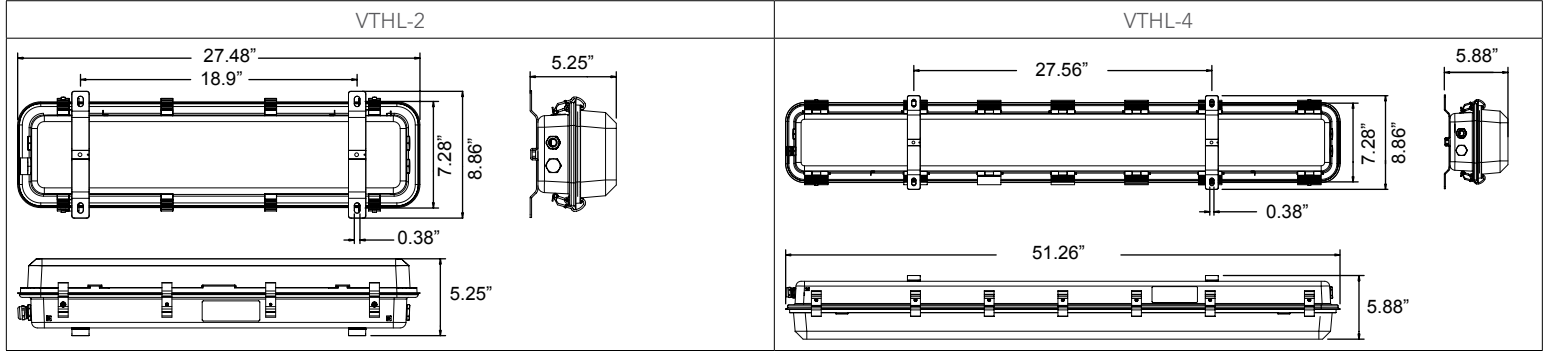
UL844 Hazardous Locations  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1, Groups E, F, G  
 Class II, Division 2, Groups F, G  
 Class III  
 Class I, Zone 2 Group IIC  
 UL 1598 Luminaires  
 UL 1598A Marine Outside Type  
 UL 8750 LED Safety  
 UL924 Emergency Lighting  
 DLC 5.1  
 ETL  
 ABS  
 IP66  
 IK10  
 3G Vibration  
 1200 Hours Salt spray  
 ATEX Marking (Certificate Number:  
 CSANe 23ATEX1213X):  
 II 3GD  
 Ex db ec IIC T6/T5 GC  
 Ex tc IIIC T80°C/T95°C DC





### Dimension

| Item   | Length | Height | Width |
|--------|--------|--------|-------|
| VTHL-2 | 27.48" | 5.25"  | 8.86" |
| VTHL-4 | 51.26" | 5.88"  | 8.86" |



### Features

**Built tough.**

- Fixed mounting bracket for flexible installations - surface mount and rope mount.
- Equipped Latches not only for waterproofness, but for quick release and easy to maintain.
- SUS304 stainless steel standard housing (SUS316 optional), great corrosion and heat resistance, outstanding durability, suitable for harsh environments.
- Excellent quality optics, longer installation distance between luminaires for lower costs.
- LED light strip replaceable, customer can buy new one to replace if it fails to work.
- UV stabilized, impact-resistant fiberglass reinforced polycarbonate lens (clear for standard, diffuse for optional).
- Available in two lengths: 2 feet, 4 feet

Clear  
Frosted

### 8W Emergency Specifications (for Zone 2)

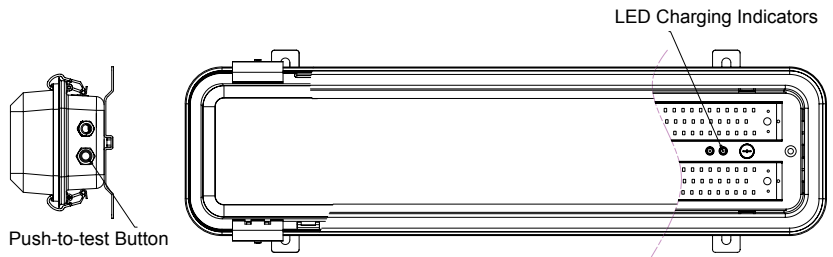
|                         |  |
|-------------------------|--|
| Input Rating            | 120-270Vac, 50/60Hz, THD ≤ 20%, PF ≥ 0.9, Input Current Max.0.6A |
| Input Power             | 10-50W   |
| Output Rating           | 28-50Vdc   |
| Emergency Power         | 8W   |
| Battery                 | Lithium  |
| Emergency Run Time      | 3 hours  |
| Response Time           | ≤ 1 second   |
| Charge Time             | ≥ 24 hours   |
| Battery Life Expectancy | 5 years  |
| Ambient Temperature     | -10°C to +60°C   |

CAUTION: Sealed unit. Battery not replaceable. Replace entire unit when necessary



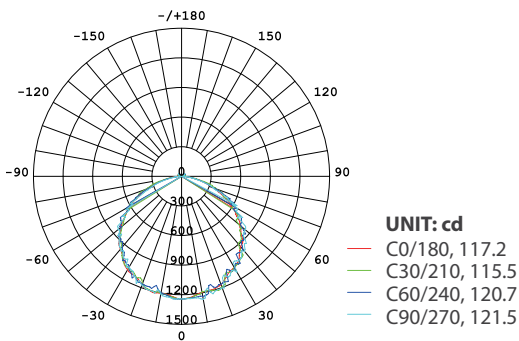
### 15W Emergency Specifications ( for Class 1, Division 2 )

|                         |  |
|-------------------------|--|
| Emergency Drive Model   | EM-15W-HL                              |
| Input Power             | 120-277Vac, 50/60Hz, Max.100mA, Max.7W |
| Output Rating           | 25-55Vdc, Constant wattage 15W         |
| Charge Time             | 24 hours                               |
| Emergency Run Time      | 3 hours                                |
| Response Time           | < 550mS                                |
| Ambient Temperature     | 0°C to 60°C                            |
| Battery Life Expectancy | 3 years                                |



CAUTION: Sealed unit. Battery not replaceable. Replace entire unit when necessary

### Photometry



AVERAGE BEAM ANGLE(50%): 118.7 DEG

### Included Accessories

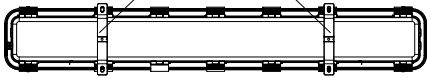
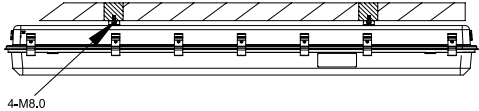
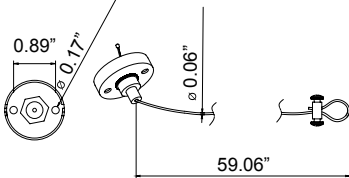
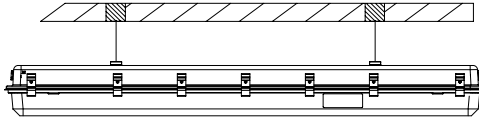
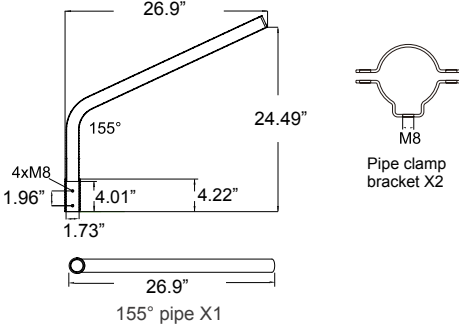
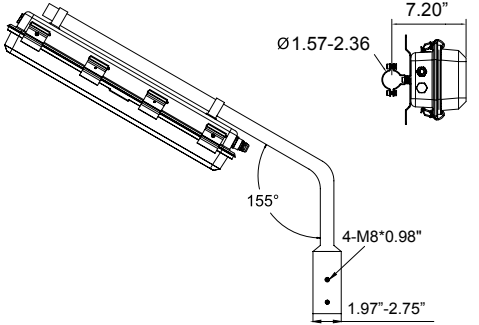
|                        |   |
|------------------------|---|
| <b>Ceiling Mount</b>   | Standard with 2 stainless steel mounting brackets welded to the back of luminaire |
| <b>Suspended Mount</b> | Standard with 2 stainless steel cable cables                                      |

### Accessories

|  |  |
|--|--|
| <b>Pipe Mounting Kit</b><br>(1) 155° pipe<br>(2) Pipe clamp brackets |  |
| <b>Frosted Lens</b>  |  |
| <b>Emergency Battery Backup</b>                                      |  |



## Mounting Methods

| Options           | Description   | Kit  | Installed   |
|-------------------|---|--|---|
| Ceiling Mount     | Standard with 2 stainless steel mounting brackets welded to the back of luminaire | <p>Standard Mounting Kit (Included)</p>   |  <p>4-M8.0</p>   |
| Suspended Mount   | Standard with 2 stainless steel cable cables                                      |   |    |
| Pipe Mounting Kit | (1) 155° pipe<br>(2) Pipe clamp bracket   |  <p>26.9"</p> <p>155°</p> <p>24.49"</p> <p>4xM8</p> <p>1.96"</p> <p>4.01"</p> <p>4.22"</p> <p>1.73"</p> <p>26.9"</p> <p>155° pipe X1</p> <p>M8</p> <p>Pipe clamp bracket X2</p> |  <p>7.20"</p> <p>Ø1.57-2.36</p> <p>155°</p> <p>4-M8*0.98"</p> <p>1.97"-2.75"</p> |



|                     |  |
|---------------------|--|
| <b>Project Name</b> |  |
| <b>Catalog #</b>    |  |
| <b>Job Type</b>     |  |
| <b>Prepared By</b>  |  |
| <b>Notes</b>        |  |

### Fixture Ordering Information

| Part #                 | Watts | Lumens | Kelvin | Voltage | Dist/Beam |
|------------------------|-------|--------|--------|---------|-----------|
| LL-VTHL-2-30-50-UNV-WH | 30    | 4500   | 5000   | 120-277 | 120       |
| LL-VTHL-2-30-40-UNV-WH | 30    | 4500   | 4000   | 120-277 | 120       |
| LL-VTHL-2-40-50-UNV-WH | 40    | 6000   | 5000   | 120-277 | 120       |
| LL-VTHL-2-40-40-UNV-WH | 40    | 6000   | 4000   | 120-277 | 120       |
| LL-VTHL-4-50-50-UNV-WH | 50    | 7500   | 5000   | 120-277 | 120       |
| LL-VTHL-4-50-40-UNV-WH | 50    | 7500   | 4000   | 120-277 | 120       |
| LL-VTHL-4-60-50-UNV-WH | 60    | 9000   | 5000   | 120-277 | 120       |
| LL-VTHL-4-60-40-UNV-WH | 60    | 9000   | 4000   | 120-277 | 120       |

### Accessories Ordering Information

| Part #  | Description   |
|---------|---|
| EM8X    | Emergency Battery Back Up 8W Exclusive              |
| EM15X   | Emergency Battery Back Up 15W Exclusive             |
| VTHLPMK | Pipe Mounting Kit Including (2) Clamp Brackets VTHL |
| VTHLF-2 | Frosted Lens VTHL 2'                                |
| VTHLF-4 | Frosted Lens VTHL 4'                                |

\* Please contact LITELUME for all Custom Option Requests