

VTOD2

Applications

Orion Energy Systems VTO2 product is NSF/ANSI Standard 2. Durable and versatile fixture suitable for demanding environments that require a dust-proof fixture or watertight seal such as food-processing facilities, breweries, agricultural, wash down applications and cooler/freezer environments.



VTOD2213LUNVFD850LAFGHWSSSZCSP



IP67 IP69



Project Name:	
Catalog Number:	
Type:	
Note:	
Date:	

Construction & Design

- Offered in both 2' and 4' lengths
- Stainless steel 316 marine grade latches are standard, stainless steel mounting brackets included with fixture
- Durable, lightweight, white, UL 5VA (f1) reinforced fiberglass body
- Acrylic, impact resistant, shallow ribbed frosted lens
- Various lumen outputs to meet required light levels

Additional Options

- Cold Temperature option
- Factory installed Battery Back Up available in 10w and 20w, Certified in CA Title 20

Electrical

- Available in 120v-277v, 347v and 480v
- Factory wired for full dimming (0-10v) or ON/OFF applications
- 6kV/3kA surge protection standard. 20kV/10kA surge protection available
- Power Factor > .90*
- Total Harmonic Distortion < 20%*

*Note: Varies based on option

Lumen Maintenance

See lumen maintenance table on page 2

Fixture Certification & Listing

- [NSF/ANSI Standard 2](#)
- UL/cUL Listed for Wet Locations
- UL 5VA (f1) fiberglass housing
- IP67 for 4' fixtures
- IP69 for 2' fixtures
- NEMA 4X housing
- High pressure wash down up to 1500 PSI
- DesignLights Consortium qualified luminaire
- Visit the [DLC QPL](#) for listed models

Warranty

See Orion's [Product Limited Warranty](#) for more details and information

Performance Information 277v, ≥80 CRI, 5000K¹

Nominal Lumen Code	Actual Lumens	Wattage	LPW	Input Current
2'				
13L	13,750lm	87w	158	0.32A
16L	16,625lm	106w	158	0.39A
18L	18,540lm	121w	153	0.45A
4'				
21L	20,030lm	120w	167	0.44A
24L	23,756lm	143w	167	0.52A
32L	32,724lm	205w	160	0.76A
38L	37,733lm	234w	161	0.89A

Lumen Maintenance²

Fixture Size	Nominal Lumen Code	Nominal Lumens	Operating Temperature	Calculated Lumen Maintenance		
				L70	L80	L90
2'	13L	13,000	25°C	168,000	105,000	50,000
			55°C	138,000	86,000	41,000
2'	16L	16,000	25°C	168,000	105,000	50,000
			55°C	138,000	86,000	41,000
2'	18L	18,000	25°C	168,000	105,000	50,000
			55°C	138,000	86,000	41,000
4'	21L	21,000	25°C	174,000	109,000	52,000
			55°C	142,000	89,000	42,000
4'	24L	24,000	25°C	174,000	109,000	52,000
			55°C	142,000	89,000	42,000
4'	32L	32,000	25°C	174,000	109,000	52,000
			55°C	142,000	89,000	42,000
4'	38L	38,000	25°C	174,000	109,000	52,000
			55°C	142,000	89,000	42,000

Additional Specification Information

¹ Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values

² Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance

Physical Information

Size	Length	Width	Depth	Weight ³
2'	26.70"	14.50"	5.80"	16.50lbs.
4'	51.90"	14.60"	5.90"	26.00lbs.

Ambient Operating Temperatures (When Fixture is Suspended 12" From Mounting Surface)

Nominal Lumen Code	Fixture Size	Range 120v-277v	347v/480v	120v-277v [-C Option]	347v/480v [-C Option]	With Battery Back Up
13L	2'	-20°C to 45°C [-4°F to 113°F]	-20°C to 40°C [-4°F to 104°F]	-40°C to 45°C [-40°F to 113°F]	-40°C to 40°C [-40°F to 104°F]	Min. Operating Temp. 0°C [32°F]
16L	2'	-20°C to 45°C [-4°F to 113°F]	-20°C to 40°C [-4°F to 104°F]	-40°C to 45°C [-40°F to 113°F]	-40°C to 40°C [-40°F to 104°F]	
18L	2'	-20°C to 40°C [-4°F to 104°F]	-20°C to 40°C [-4°F to 104°F]	-40°C to 40°C [-40°F to 104°F]	-40°C to 40°C [-40°F to 104°F]	
21L	4'	-20°C to 50°C [-4°F to 122°F]	-20°C to 50°C [-4°F to 122°F]	-40°C to 50°C [-40°F to 122°F]	-40°C to 50°C [-40°F to 122°F]	
24L	4'	-20°C to 50°C [-4°F to 122°F]	-20°C to 50°C [-4°F to 122°F]	-40°C to 50°C [-40°F to 122°F]	-40°C to 50°C [-40°F to 122°F]	
32L	4'	-20°C to 50°C [-4°F to 122°F]	-20°C to 50°C [-4°F to 122°F]	-40°C to 50°C [-40°F to 122°F]	-40°C to 50°C [-40°F to 122°F]	
38L	4'	-20°C to 45°C [-4°F to 113°F]	-20°C to 45°C [-4°F to 113°F]	-40°C to 45°C [-40°F to 113°F]	-40°C to 45°C [-40°F to 113°F]	

NSF Classification (NSF/ANSI Standard 170)

NSF Certification	Orion NSF Certified	USA Accredited Cert. Program Mark	Canada Accredited Cert. Program Mark	NSF Equipment Location, Use & Explanation	Common Lighting Application
3.231.4	Yes-NSF2 [Non-Food Zone]			Exposed equipment surfaces other than those in a food or splash zone.	Non-Food = Food preparation areas such as kitchens, food warehousing area may be damp.
3.231.7	Yes-NSF2 [Splash Zone]			Equipment surfaces, other than those in a food zone, that are subject to splash, spillage, or other food soiling during operation of the equipment.	Splash Zone = Food processing areas where food may land on lighting fixture and pressure hose wash-downs are needed to clean area and lighting fixture. Area may be damp or wet.

Additional Specification Information

³ Weight will vary based on option selection

Ordering Information Example (NOTE: No dashes or spaces unless noted below)
VTOD2213LUNVFD850LAFGHWSSSZCSP

Ordering Information (Enter Selected Catalog Number Below)

Series	Fixture Size	Nominal Lumen Code	Voltage	Driver Type	CRI; Color Temp	Lens Options	Power Connection	Latch Type	Additional Options	Special Certifications	Packaging
VTOD2= ISON™ Vaportight Series Wide Body, Gen 2	2= 2' 4= 4'	2' 13L= 13,000lm 16L= 16,000lm 18L= 18,000lm 4' 21L= 21,000lm 24L= 24,000lm 32L= 32,000lm 38L= 38,000lm	UNV= 120v-277v 347= 347v 480= 480v	FD= Full Dimming	840= 80CRI, 4000K 850= 80CRI, 5000K	LAFG= Lens Acrylic Frosted General 120°	HW= Hardwire (includes dimming leads) 06B= 6' Black Whip, no plug 11B= 11' Black Whip, no plug 06BD= 6' Black Whip, (includes dimming leads) no plug 11BD= 11' Black Whip,(includes dimming leads) no plug 07CE= 7' Hardwire Leads with Liquid Tight Conduit Elbow 07CED= 7' Hardwire Leads with Liquid Tight Conduit Elbow (includes dimming leads)	SS= Stainless Steel	{Blank}= No Options BB10= Battery Back Up, 10w ^{5,6} BB20= Battery Back Up, 20w ^{5,6} -C= Cold Temperature Environment (-35°C) TS= 20kV/10kA Surge Protection	SZC= Splash Zone Certified	{blank}= Bulk Pack SP= Single Pack

Additional Specification Information

⁴ For actual lumens, see performance table

⁵ Multiply 10w or 20w by the lumens per watt (LPW) of the fixture to calculate lumen output in emergency mode

⁶ Not available with Cold Temperature -C option

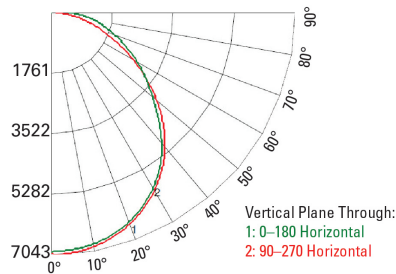
Accessories [Field Installed]

Mounting Options Certified by NSF	
CT4-CM1.25	Stainless Steel, Rigid Mount Bracket for Surface Mount, Fixture will Hang Approx. 1.25" from Ceiling. Two are Needed per Fixture.
CT4-VHOOK	Stainless Steel Flexible Ceiling Mount that Attaches to Supplied Fixture Mounting Clips. Two are Needed per Fixture.
LED-VTOD1-RMBSS-KIT	Stainless Steel, Rigid/Flush Mount Bracket, Mounts Approx. 0.5" from the Mounting Surface to the Back of the Fixture and Approx. 6.5" from the Mounting Surface to the Bottom of the Fixture. One Kit Needed per Fixture.
LED-VTOD1-RMBSS-TEMPLATE	Must Order LED-VTOD1-RMBSS-KIT-TEMPLATE Separate for Mounting Installation of LED-VTOD1-RMBSS-KIT, One Kit Needed per Location.

Photometrics

Visit orionlighting.com to obtain all .IES files

VTOD22 16L 840



VTOD24 32L 840

