VTOD2

Applications

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.

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

VTOD2213LUNVFD850LAFGHWSS

UL CERTIFIED · UL WET RATED · Buy American Act & the American Recovery and Reinvestment Act · IP67 · IP69 · DLC LISTED™

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
- Multiple mounting methods for compatibility in most environments
- 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

Control and Sensor Options

- Factory installed control and sensor options
- Manual Programming Sensors
- Remote Programming Sensors

Lumen Maintenance

See lumen maintenance table on page 2

Fixture Certification & Listings

- UL/cUL Listed for Wet Locations
- UL 5VA (f1) fiberglass housing
- IP67 for 4' fixtures
- IP69 for 2' fixtures
- IP66 when using WSxx and WBxx sensors
- IP65 when using WWxx sensor
- NEMA 4X housing
- High pressure wash down up to 1500 PSI
- DesignLights Consortium standard 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, 5000K[1]

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 Maintenance[2]

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

2

VTOD2

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)	
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)	Min. Operating Temp. 0°C (32°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)	

Sensor Type	Operating Range
WWxx	0°C to 50°C (32°F to 122°F)
WSxx	0°C to 50°C (32°F to 122°F)
WBxx	0°C to 50°C (32°F to 122°F)

Additional Specification Information

[3] Weight will vary based on option selection

3

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

VTOD2213LUNVFD850LAFGHWSS

Ordering Information (Enter Selected Catalog Number Below)

Series	Fixture Size	Nominal Lumen Code[4]	Voltage	Driver Type	CRI; Color Temp	Lens Options	Power Connection	Latch Type	Additional Options	Factory Installed Control Options	Packaging
Series	**Fixture Size**	**Nominal Lumen Code[4]**	**Voltage**	**Driver Type**	**CRI; Color Temp**	**Lens Options**	**Power Connection**	**Latch Type**	**Additional Options**	**Factory Installed Control Options**	**Packaging**
VTOD2= ISON™ Vaportight Series Wide Body, Gen 2	**2**= 2 ft. **4**= 4 ft.	**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[7,8] **BB20**= Battery Back Up, 20w[7,8] **-C**= Cold Temperature Environment (-40°C) **TS**= 20kV/10kA Surge Protection	(See below for part numbers and descriptions)	**(blank)**= Bulk Pack **SP**= Single Pack

Sensor and Controls Options

Factory Installed Control Options
(Blank)= No Control Options
WWxx= Wattstopper HB3x: PIR Occupancy Sensor, ON/OFF, Manual Programmable[6,8]
WSxx= Wattstopper FSP-2x1: PIR Occupancy Sensor, Photosensor, High and Low End Trim, 0-10V Dimming, IR Remote Programmable[5,6,8]
WBxx= Wattstopper FSP-3x1: PIR Occupancy Sensor, Daylight Harvesting, High and Low End Trim, 0-10V Dimming, Bluetooth Mobile App Programmable[5,6,8]

Additional Specification Information

[4] For actual lumens, see performance table

[5] **WSxx** and **WBxx** sensor option only available for 4' models

[6] "**xx**" in part number is a placeholder for lens height of sensor. "**08**", "**20**", or "**40**" can replace the "**xx**" placeholder

[7] Multiply 10w or 20w by the lumens per watt (LPW) of the fixture to calculate lumen output in emergency mode
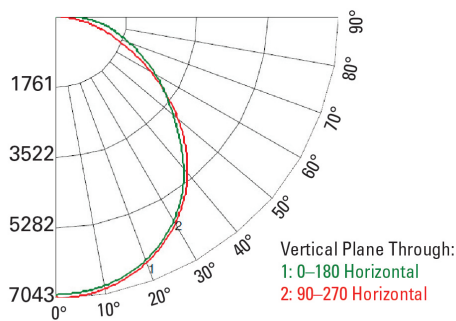
[8] Not available with Cold Temperature **-C** option

4

Accessories (Field Installed)

Suspended Mounting Options	
ECAB19	19" Cables with Snap Hooks (2 Required per Fixture)
ECAB31	31" Cables with Snap Hooks (2 Required per Fixture)
HW-FC008	Hanging Cable Set: Adjustable 180", Loop, Y-Fit with Snap Hooks
HW-FC020-SH	Hanging Cable Set: Adjustable 120", loop, Y-fit with (2) Loops, (2) Snap Hooks Included (Not Attached)
OESH101BRA	Eyebolt Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
OESH108RA	Pendant Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
CT4-VHOOK	Stainless Steel Flexible Ceiling Mount that Attaches to Supplied Fixture Mounting Clips. Also, Compatible with Chain or Cable Hanging Methods. Two are Needed per Fixture
Rigid Mounting Options	
CT4-CM1.25	Stainless Steel, Rigid/Flush Mount Bracket for Surface Mount, Fixture Will Hang Approx. 1.25" from Ceiling. 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.
Sensor Configuration Tool (Ordered Separately)	
FSIR-100	Hand-held Sensor Configuration Tool Required for Adjusting Default Factory Settings, Including Hi/Low/Off Modes and Sensitivity/Time Delay/Cut Off (For Use With **WSxx** Sensors)

Photometrics

Visit orionlighting.com to obtain all .IES files

VTOD22 16L 840

Vertical Plane Through:
1: 0–180 Horizontal
2: 90–270 Horizontal

VTOD24 32L 840

Vertical Plane Through:
1: 0–180 Horizontal
2: 90–270 Horizontal

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