

## VTOD1

### 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 or freezer environments.



VTOD12A1UNVNDXXSTFR840SS

### Features

- Multiple mounting methods for compatibility in most environments
- Various lumen outputs to meet required light levels
- 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
- 10 kA surge protection available

### Electrical

- Available in 120v-277v, 347v and 480v
- Factory wired for full dimming (0-10v) or ON/OFF applications
- Hardwired power connection standard with other power connections available

### Ambient Operating Range

See ambient operating table on page 3

### 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 qualified luminaire
- Visit the [DLC QPL](#) for listed models

### Lumen Maintenance

See lumen maintenance table on page 2

### Warranty

Orion APOLLO® class LED fixtures are covered by a five-year limited warranty subject to the ambient operating temperature. Refer to ambient operating table page 3. When sensors are used with product in applications below 0°C (32°F), written approval from factory is required for warranty to apply. Accessories and individual components are covered by separate OEM supplier warranties



### Performance Information 277v<sup>3</sup>

Series	Fixture Size	Nominal Lumen Code	Actual Lumens	Wattage	LPW	CCT	CRI	Input Current	Power Factor
VTOD1	2'	A1	13,533lm	88w	154	5000K	≥80	0.32A	>.90
VTOD1	2'	B1	15,578lm	105w	149	5000K	≥80	0.38A	>.90
VTOD1	4'	C1	19,500lm	117w	167	5000K	≥80	0.42A	>.90
VTOD1	4'	D1	23,830lm	144w	166	5000K	≥80	0.52A	>.90
VTOD1	4'	E1	31,240lm	210w	149	5000K	≥80	0.76A	>.90
VTOD1	4'	F1	36,309lm	235w	154	5000K	≥80	0.85A	>.90

### Performance Information 480v<sup>3</sup>

Series	Fixture Size	Nominal Lumen Code	Actual Lumens	Wattage	LPW	CCT	CRI	Input Current	Power Factor
VTOD1	2'	A1	13,499lm	91w	148	5000K	≥80	0.19A	>.90
VTOD1	2'	B1	14,910lm	100w	150	5000K	≥80	0.21A	>.90
VTOD1	4'	C1	19,500lm	120w	163	5000K	≥80	0.25A	>.90
VTOD1	4'	D1	23,830lm	147w	162	5000K	≥80	0.31A	>.90
VTOD1	4'	E1	30,829lm	213w	145	5000K	≥80	0.44A	>.90
VTOD1	4'	F1	35,349lm	242w	146	5000K	≥80	0.50A	>.90

### Lumen Maintenance<sup>10</sup>

Series	Nominal Lumen Code	Nominal Lumens	Operating Temperature	Calculated Lumen Maintenance		
				L70	L80	L90
VTOD1	A1	13,000	25°C	146,000	90,000	40,000
			45°C	135,000	83,000	37,000
VTOD1	B1	15,000	25°C	144,000	89,000	40,000
			45°C	128,000	77,000	33,000
VTOD1	C1	20,000	25°C	152,000	94,000	43,000
			50°C	142,000	88,000	39,000
VTOD1	D1	24,000	25°C	152,000	94,000	43,000
			50°C	140,000	86,000	39,000
VTOD1	E1	31,000	25°C	146,000	90,000	40,000
			45°C	135,000	83,000	37,000
VTOD1	F1	36,000	25°C	144,000	89,000	40,000
			45°C	128,000	77,000	33,000

### Ambient Operating Temperatures<sup>5</sup>

Nominal Lumen Code	Standard Range 120v-277v	Standard 347v/480v	Standard 120v-277v [-C Option]	Standard 347v/480v [-C Option]
A1	-20°C to 45°C [-4°F to 113°F]	-20°C to 40°C [-4°F to 104°F]	-35°C to 45°C [-31°F to 113°F]	-35°C to 40°C [-31°F to 104°F]
B1	-20°C to 45°C [-4°F to 113°F]	-20°C to 40°C [-4°F to 104°F]	-35°C to 45°C [-31°F to 113°F]	-35°C to 40°C [-31°F to 104°F]
C1	-20°C to 50°C [-4°F to 122°F]	-20°C to 50°C [-4°F to 122°F]	-35°C to 50°C [-31°F to 122°F]	-35°C to 50°C [-31°F to 122°F]
D1	-20°C to 50°C [-4°F to 122°F]	-20°C to 45°C [-4°F to 113°F]	-35°C to 50°C [-31°F to 122°F]	-35°C to 45°C [-31°F to 113°F]
E1	-20°C to 45°C [-4°F to 113°F]	-20°C to 35°C [-4°F to 95°F]	-35°C to 45°C [-31°F to 113°F]	-35°C to 35°C [-31°F to 95°F]
F1	-20°C to 45°C [-4°F to 113°F]	-20°C to 30°C [-4°F to 86°F]	-35°C to 45°C [-31°F to 113°F]	-35°C to 30°C [-31°F to 86°F]

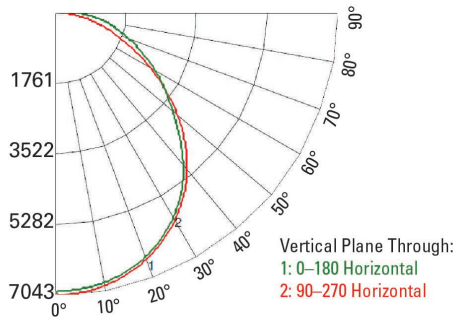
### Physical Information

Size	Length	Width	Depth	Weight <sup>4</sup>
2'	26.70"	14.50"	5.80"	16.50lbs.
4'	51.90"	14.60"	5.90"	26.00lbs.

### Photometrics

Visit [orionlighting.com](http://orionlighting.com) to obtain all .IES files

#### VTOD14 C1 ST 850



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

Series	Fixture Size	Nominal Lumen Code	Voltage	Driver Type	Fixture Type	Lens Options	CRI; Color Temp	Power Connection	Latch Type	Additional Options
VTOD1	2	A1	UNV	NDXX	ST	FR	850	[Blank]	SS	BBxx

### Ordering Information

Series	Fixture Size	Nominal Lumen Code <sup>1</sup>	Voltage	Driver Type	Fixture Type	Lens Options	CRI; Color Temp	Power Connection	Latch Type	Additional Options
<b>VTOD1</b> = APOLLO® Vaportight Series Wide Body, Gen 1	<b>2</b> = 2 ft. <b>4</b> = 4 ft.	<b>2 ft.</b> <b>A1</b> = 13,000lm <b>B1</b> = 15,000lm  <b>4 ft.</b> <b>C1</b> = 20,000lm <b>D1</b> = 24,000lm <b>E1</b> = 31,000lm <b>F1</b> = 36,000lm	<b>UNV</b> = 120v-277v <b>347</b> = 347v <b>480</b> = 480v	<b>FDXX</b> = Factory Wired for Dimming Applications <b>NDXX</b> = Factory Wired for ON/OFF Applications, Dimming capable if required	<b>ST</b> = Standard Light Output	<b>FR</b> = Frosted Impact Resistant Acrylic	<b>840</b> = 80CRI, 4000K <b>850</b> = 80CRI, 5000K	<b>[Blank]</b> = Hardwire <b>06W</b> = 6' Whip <b>11W</b> = 11' Whip <b>CE7</b> = 7' Hardwire Leads with Liquid Tight Conduit Elbow	<b>SS</b> = Stainless Steel	<b>[Blank]</b> = No Options <b>BBxx</b> = Battery Back Up <sup>2,5,6</sup> <b>-C</b> = Cold Temperature Environment <b>TVSS</b> = 10 kA Surge Protection <b>WWxx</b> = Wattstopper PIR Occupancy Sensor, ON/OFF, Non-Dimming, 360° <sup>7,11</sup> <b>WSxx</b> = Wattstopper PIR Occupancy Sensor, HIGH/ LOW/OFF, 0-10V Dimming, Switching Photocell, IR Remote Programmable, 360° <sup>8,9,11</sup> <b>WBxx</b> = Wattstopper PIR Occupancy Sensor, HIGH/ LOW/OFF, 0-10V Dimming, Switching Photocell, Bluetooth, Mobile App Programmable, 360° <sup>8,9,11</sup>

### Accessories [Field Installed]

Suspended Mounting Options	
<b>ECAB19</b>	19" Cables with Snap Hooks (2 Required per Fixture)
<b>ECAB31</b>	31" Cables with Snap Hooks (2 Required per Fixture)
<b>HW-FC008</b>	Hanging Cable Set: Adjustable 180", Loop, Y-Fit with Snap Hooks
<b>HW-FC020-SH</b>	Hanging Cable Set: Adjustable 120", loop, Y-fit with (2) Loops, (2) Snap Hooks Included (Not Attached)
<b>OESH101BRA</b>	Eyebolt Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
<b>OESH108RA</b>	Pendant Mounting Bracket Kit, Requires Two Secondary Hangers Longer Than 30"
<b>CT4-VHOOK</b>	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	
<b>CT4-CM1.25</b>	Stainless Steel, Rigid/Flush Mount Bracket for Surface Mount, Fixture Will Hang Approx. 1.25" from Ceiling. Two are Needed per Fixture
<b>LED-VTOD1-RMBSS-KIT</b>	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.
<b>LED-VTOD1-RMBSS-TEMPLATE</b>	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)	
<b>FSIR-100</b>	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 <b>WSxx</b> Sensors)

### Additional Specification Information

<sup>1</sup> For actual lumens, see performance table

<sup>2</sup> "XX" is a character placeholder for the manufacturing configuration

<sup>3</sup> Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values

<sup>4</sup> Weight will vary based on option selection

<sup>5</sup> Fixture with Battery Back Up cannot be installed in an environment where the ambient temperature falls below 32°F

<sup>6</sup> **BBxx-** Available in **UNV HW** and **UNV CE7** models only.

<sup>7</sup> Feature/accessory option is only available with **NDXX** driver type

<sup>8</sup> Feature/accessory option is only available with **FDXX** driver type

<sup>9</sup> **WSxx** and **WBxx** sensor option only available for 4' models

<sup>10</sup> Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance

<sup>11</sup> "xx" in part number is a placeholder for lens height of sensor. "08", "20", or "40" can replace the "xx" placeholder