VVT
Narrow Linear Vapor Tight

V5 VALUE SELECT

ILP
407-478-3759
www.ilp-inc.com

FEATURES

- Enclosed & Gasketed Narrow Body Vapor Tight
- 2ft & 4ft Fixture Lengths
- Lumen Packages Ranging 3,000 to 6,000 Lumens
  - Field Selectable Lumen Range 4,000 to 6,000
  - On 4ft model
- Surface, Suspended, Pendant, Wall & 45° Mounting Options
- Stainless Steel Latches Standard
- Stainless Steel Mounting Brackets Standard
- Integral Wireless Controls Option
- 4000K & 5000K CCT Options
- >80 Color Rendering Index (CRI)
- Ambient Range of -40°F to 104°F
- Calculated L70 > 100,000 Hours
- 120-277V & 0-10V Dimmable Driver (100%-10%)
- 5 Year Warranty
- UL Listed for Wet Location
- DesignLights Consortium Qualified Luminaire

LUMEN SELECTABLE · **NSF** · **IP65 Low Water Jet Dustproof** · **QUICK SHIP** · **5 YEAR WARRANTY** · **10 YEAR WARRANTY** · **c(UL)us LISTED** · **DLC LISTED**

SUITABLE APPLICATIONS

- Coolers & Freezers   - Food & Beverage Preparation   - Greenhouse   - Pharmaceutical   - Healthcare   - Education   - Industrial   - Parking Garage

ORDERING GUIDE:

SERIES		LUMENS (select one)		DRIVER	CCT	LENS		WARRANTY	
VVT2	2 ft Vapor Tight	**3L**		**U** 120-277V	50	**FRL**	Frosted Lens	(Blank)	5YR
					40			**10YR**[7]	10YR
VVT4	4 ft Vapor Tight	**4L/5L/6L** - Lumen Selectable							
		4L							
		5L							
		6L							

OPTIONS		CONTROLS	
Factory Installed		**Basic**	
EM5[2,3]	5W Battery Backup	**MWS**[2,4]	On/Off Microwave Sensor Installed Behind Lens
EM10[2,3]	10W Battery Backup	**MWUSBD**[2,4,6]	User Selectable Bi-Level Dimming Microwave Sensor
EM10/HE[2,3]	10W Battery Backup - CEC Title 20 Compliant		
EM10/HE/SD[2,3]	10W Self Diagnostic Battery Backup - CEC Title 20 Compliant		
Cx/3W	3-wire cord standard fixtures (xFT = Length; x=6,10,15,20)		
Cx/4W	4-wire cord for EM fixtures (xFT = Length; x=6,10,15,20)		
Cx/5W	5-wire cord for non EM fixtures with external dim control (xFT = Length; x=6,10,15,20)		
Cx/6W	6-wire cord for EM fixtures with external dim control (xFT = Length; x=6,10,15,20)		
SD347[1,2]	347V Step Down Transformer		
SD480[1,2]	480V Step Down Transformer		
HUB 1/2[4,5]	Conduit Hub 1/2" for Top Power Entry		
Ship With Accessories			
SP1	10kV Surge Protector		
ACxL[5]	Loop Aircraft Cable Kit (xFT = Length; x=6,10)		
ACxL/SS	Stainless Steel Adjustable Loop Aircraft Cable Set (xFT = Length; x=6,10)		
VVT/MWS/RC5S	Programming tool for MWUSBD Sensor		
AB45DEG/SS	45 Degree Stainless Steel Angled Mounting Bracket Set		
VVT/MWS/RC5S[4,6]	Programming Tool for MWUSBD Sensor		

[1] Does not qualify for DLC
[2] Available on VVT4 only
[3] Not able to be used in conjunction with SD347-SD480 options
[4] Not able to be used in conjunction with EM5-EM10 options
[5] Must use for pendant mounting
[6] Requires VVT/MWS/RC5S Accessory for programming
[7] Contact factory for more details

QUICK SHIP ITEMS:

SERIES		LUMENS (select one)	DRIVER	CCT	LENS	
VVT2	2 ft Value Vapor Tight	**3L**	**U** 120-277V	50	**FRL**	Frosted Lens
				40		
VVT4	4 ft Value Vapor Tight	**4L/5L/6L** - Lumen Selectable				

VVT
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LED SYSTEMS INFO[1]	4000K		5000K		Watts[2]	CRI	DLC Listing	Ambient Temp. Range	Replaces
Part Numbers	Lumens	Efficacy	Lumens	Efficacy					
VVT2-3L-U-XX-FRL	3,160 lm	132 lm/W	3,205 lm	134 lm/W	24W	>80	Standard	-40°F - 104°F	1T8
VVT4-4L-U-XX-FRL	4,524 lm	143 lm/W	4,589 lm	145 lm/W	32W	>80	Standard	-40°F - 104°F	2T8
VVT4-5L-U-XX-FRL	5,495 lm	143 lm/W	5,417 lm	141 lm/W	38W				1T5HO
VVT4-6L-U-XX-FRL	6,441 lm	130 lm/W	6,533 lm	132 lm/W	49W				3T8

[1]Values are nominal, see IES file for more detail
[2]Electrical data at 25C (77F). Actual wattage may differ by +/-10%

SPECIFICATIONS

CONSTRUCTION
Durable, fully gasketed, polycarbonate housing with high impact design for rigidity and prolonged life in rough environments. Captive stainless latches fastened to housing to safely secure lens to housing. 1/2" wet location fitting standard at end of housing. Toolless removeable gear tray for quick and easy access to electrical components.

ELECTRICAL
Calculated L70 > 100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25°C ambient. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (10%-100%) with optional 347 and 480 Vac step down transformer. Optional emergency battery backups available to meet critical life safety lighting requirements. Lumen Selectable 4ft fixtures allow for ease of adjustment with switches located on side of driver on backside of gear tray. Lumen Selectable fixtures ship at the highest lumen output.

INSTALLATION
Designed for a variety of mounting applications including surface, 1/2" pendant, suspended, and 45° wall mount. Surface and hooks mounting hardware kit included standard with each fixture. Aircraft cable and 45° wall mount bracket sold separately. Toolless hinged removable gear tray for quick and easy access to electrical.

WARRANTY
5 Year Warranty Standard; 10 Year Warranty Optional (Terms and Conditions apply).

OPTICS
Impact resistant polycarbonate frosted lens standard for durability and LED glare reduction. Field removable lens for easy access to LED boards, drivers and maintenance.

THERMAL
Ambient temperature range -40°F up to 104°F ambient temperature options. Fixture to be mounted at a minimum plenum height of 18" for suspended mounting. Reduced maximum ambient for surface mounting.
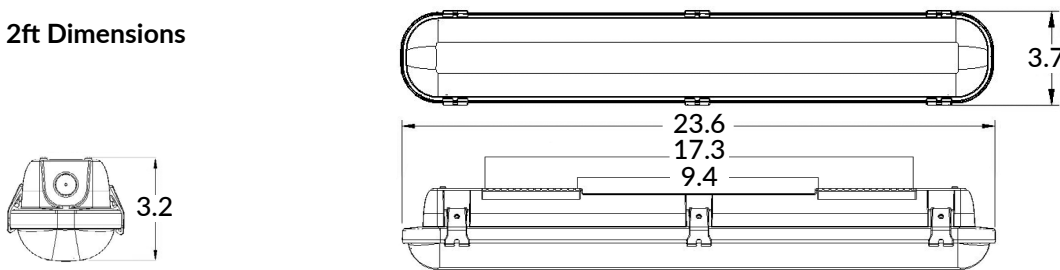
CONTROLS
Factory installed integral occupancy sensor options available. Fully control light levels for both occupied and unoccupied areas with user selectable bi-level dimming options to meet critical life safety lighting requirements. Controls installed on gear tray behind lens and maintain IP rating.
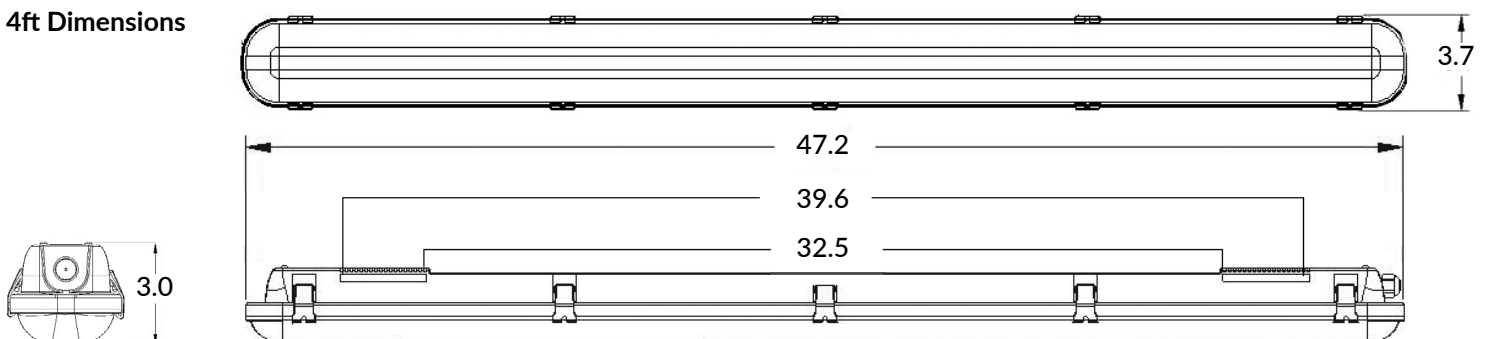
CERTIFICATIONS
UL Listed to US and Canadian safety standards. Suitable for Wet Locations. IP65 Rated. NSF Listed. DLC (DesignLights Consortium) Standard Qualified. Please refer to the DLC Qualified Products List at www.Designlights.org/QPL to confirm specific product qualifications.

LINE DRAWINGS

2ft Dimensions

4ft Dimensions

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CONTROLS OPTIONS

MWS

The integral microwave occupancy sensor activates switching of luminaire light levels. The Microwave occupancy sensor is discretely installed behind the polycarbonate lens and is available for universal (120-277V) only. Standard Factory settings: High level light is activated and increased to full bright upon detection of motion. Low light level (10% maximum drive current) is activated when target zone is absent of motion activity for ~3 minutes. Detection Area: 100%, Standby Time: Disabled, Daylight Sensor: Disabled. See coverage diagram for detection cone. Consult Factory for alternate settings.

Occupancy detector with tri-level dimming control suitable for indoor use.

1-10V dimming control method

MWS Standard Settings

- Detection area: 100%
- Hold time: 8s
- Stand-by Period: 0s
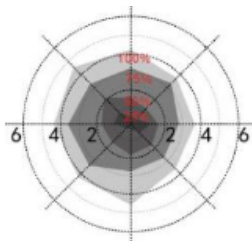- Stand-by dim level: 10%
- Daylight Sensor: Disabled

MWUSBD Standard Settings

- Detection area: 100%
- Hold time: 5 min
- Stand-by Period: Infinity
- Stand-by dim level: 30%
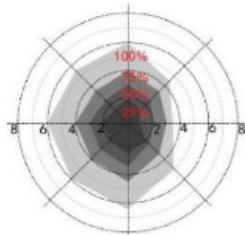- Daylight Sensor: Disabled

COVERAGE PATTERN

MWS

Ceiling Mounted Height: 3m
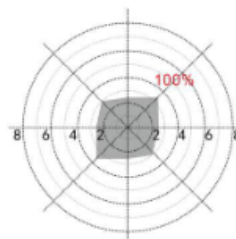**Sensitivity: 100%/75%/50%/25%**
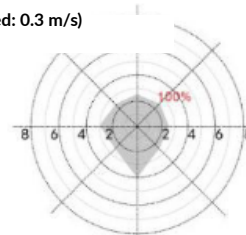

Normal Moving (Speed: 1m/s)

Ceiling Mounted Height: 6m
Sensitivity: 100%

Normal Moving (Speed: 1m/s)

Slow Moving (Speed: 0.3 m/s)

Slow Moving (Speed: 0.3 m/s)

Slow Moving (Speed: 0.3 m/s)

*** Only 100% detection sensitivity is workable when installed at 6m mounting height. Able to detect motion signal.**

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PHOTOMETRIC DATA

LUMINAIRE DATA

Part Number	VVT2-3L-U-50-FRL
Description	2ft Value Vapor Tight 3,200 Lumens, 5000K
Fixture Lumens (lm)	3,205 lm
Wattage (W)	24 W
Efficacy (lm/W)	134 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	1,234	39%
0° - 60°	2,205	69%
0° - 90°	3,013	95%
90° - 180°	176	6%
0° - 180°	3,205	100%

CANDELA PLOT
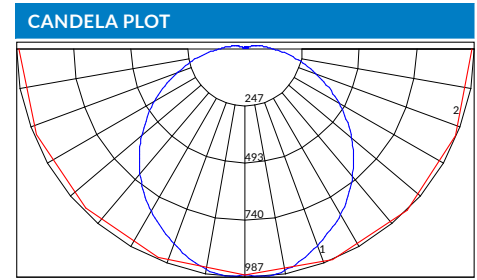
Maximum Candela = 986.7   Located At Horizontal Angle = 315, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

LUMINAIRE DATA

Part Number	VVT4-4L-U-50-FRL
Description	4ft Value Vapor Tight 4,500 Lumens, 5000K
Fixture Lumens (lm)	4,589 lm
Wattage (W)	32 W
Efficacy (lm/W)	145 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	1,848	40%
0° - 60°	3,240	71%
0° - 90°	4,357	95%
90° - 180°	232	5%
0° - 180°	4,589	100%

CANDELA PLOT
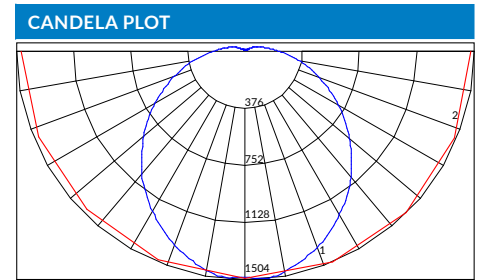
Maximum Candela = 1503.8   Located At Horizontal Angle = 292.5, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)

LUMINAIRE DATA

Part Number	VVT4-5L-U-50-FRL
Description	4ft Value Vapor Tight 5,400 Lumens, 5000K
Fixture Lumens (lm)	5,417 lm
Wattage (W)	38 W
Efficacy (lm/W)	141 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	2,182	40%
0° - 60°	3,826	71%
0° - 90°	5,144	95%
90° - 180°	274	5%
0° - 180°	5,417	100%

CANDELA PLOT
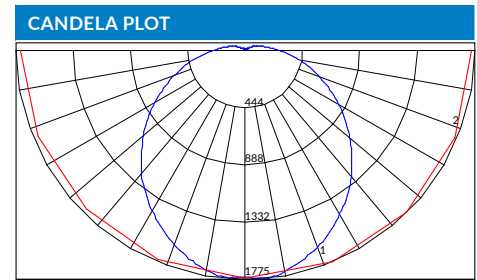
Maximum Candela = 1775.4   Located At Horizontal Angle = 292.5, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)

LUMINAIRE DATA

Part Number	VVT4-6L-U-50-FRL
Description	4ft Value Vapor Tight 6,500 Lumens, 5000K
Fixture Lumens (lm)	6,533 lm
Wattage (W)	49 W
Efficacy (lm/W)	132 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	2,631	40%
0° - 60°	4,614	71%
0° - 90°	6,203	95%
90° - 180°	331	5%
0° - 180°	6,533	100%

CANDELA PLOT
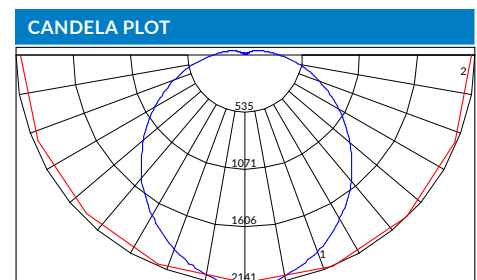
Maximum Candela = 2141.1   Located At Horizontal Angle = 292.5, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)