Avista®

Post Top Light Engine/Retrofit 3rd Generation (AVI-G3)





Features

As LEDs change and improve, so does Avista with a new generation of LEDs, and drivers. The Avista is designed to integrate into almost any post top luminaire as a powerful, energy efficient, and long lasting LED system. Avista provides various options for intensity, distribution and color to make the transition seamless and fit the application perfectly.

Product Overview

Wattage: up to 86W

 $\label{eq:Lumen Output: up to 10,943 lm; up to 143 lm/W} \text{Lumen Output: } \text{up to 10,943 lm; up to 143 lm/W}$

Color Temp: 2700K, 3000K, 4000K

Dimming: 0-10V dimming

Manual onboard dimming option available

PROJECT:

8" to 12"

year limited





TYPE:

Application:

LED light engine for use in post top mount area and pedestrian environments. Designed for new fixtures or existing as a retrofit. Operating position is base up (standard) or base down (Pendant)

Installation:

Height adjustable light engine can be field set for optimal performance. LED retrofit kit mounts to many existing luminaires.

Operating Limits:

-40C to +45C Ambient

Electrical:

- Over voltage and short circuit protected driver
- Series connected 10kV/20kA surge protector
- Universal input voltage 120-277VAC (50/60Hz).
- 347V-480V option consult factory
- 0-10V dimming

Construction:

- Anodized Aluminum Heat Sink
- Fully sealed LED optical chamber
- Acrylic Lens

Distribution:

- Symmetric (SY)
- Asymmetric (AS)
- Street Optic (SO)

CCT:

- 2,700K (**27**)
- 3,000K (30)
- 4,000K (**40**)

Power Level:

(see performance chart for output)

- P1 (30W)
- P2 (44W)
- **P3** (60W)
- P4 (86W)

L70:

50,000+ hrs.

Accessories:

- Multi-fit plate (MFP)
- 7 Pin integrated receptacle (7IR)
- Controls capable harness (CCH)
- Wireless control options
- Optional onboard field selectable output switch for dimming (FSO)



with **CCH** or **FSO**)

options.

FSO - Field Selectable Output option (to allow manual dimming). **FSO** is NOT compatible with **7IR** or **CCH**

Post Top Light Engine/Retrofit, 3rd Generation (AVI-G3)



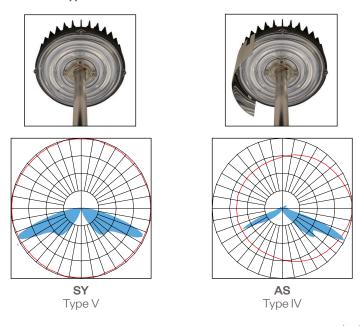
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PR	OJECT:	TYPE:						
Ordering Information								
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		<u> </u>						
	1 2 3	4 5						
		7						
		Add additional accessories as n	andad					
		Add additional accessories as in	seded					
	Model							
1	AVI-G3 - Standard model ———							
	AVI-G3-T - Standard Tall model — For m	nost Amerlux luminaires						
	AVI-G3-U - Multi-fit model ———							
	AVI-G3-U-T - Multi-fit Tall model ——For	most other Mfg. luminaires						
	AVI-G3-P - Pendant mount model							
	AVI-G3-K/V - For (nominal) 6" cylindrical oper	ninge						
	AVI-G3-K/V-T - Tall model for (nominal) 6" cyl	_						
	openings	manoa.						
	11. 2							
2	<u>Light Distribution</u>							
	SY - Symmetric							
	AS - Asymmetric							
	SO - Street Optic							
	Loot							
3	<u>OCT</u>							
	27 - 2700K (80CRI) 30 - 3000K (70CRI)							
	40 - 4000K (70CRI)							
	10 TOOK (TOOKI)							
4	Power Level							
~	P1 - (30W)							
	P2 - (44W)							
	P3 - (60W)							
	P4 - (86W)							
	1001/0771/							
	120V-277V auto-sensing driver is standard.							
	Consult factory for 347V/480V option.							
	Options/Accessories							
5	MFP - Multi-fit plate (for use with AVI-G3-U, AV	/I-G3-U-T or						
	AVI-G3-P models only)							
	CCH - Controls Capable Harness (not available	e for use						
	with 7IR or FSO)							
	7IR - Light engine integrated 7-pin NEMA Rece							
	(to allow installation of a wireless control node f							
	operation on the SmartSite or other control pla							
	limited to Power Levels D1-D3 not available for	1100						

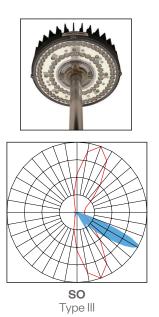


PROJECT: TYPE:

* Weight varies with Power ouput due to **Standard Models** variances of the driver. 8" - 12" 8" - 12" AVI-G3 AVI-G3-U AVI-G3-P Weight: 6.2 - 6.6 lbs* Weight: 5.7 - 6.1 lbs* Weight: 4.9 - 6.3 lbs* 12" - 16" ----AVI-G3-K/V-T Weight: 6.5 - 6.9 lbs* 12" - 16" 12" - 16" AVI-G3-T AVI-G3-U-T AVI-G3-K/V Weight: 6.3 - 6.7 lbs* Weight: 5.9 - 6.3 lbs* Weight: 6.3 - 6.7 lbs*

Light Distribution Types









PROJECT: TYPE:

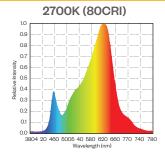
Performance

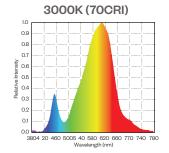
ALL IES files supplied are 3000K. For 2700K use a 0.905 multiplier; For 4000K use a 1.05 multiplier.

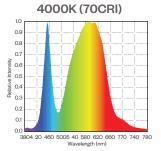
	Model	Distribution	ССТ	Power Level	System Watts	LED Engine Lumens	LED Engine LPW	Lumens w/DLC Acorn	LPW DLC* Acorn	BUG Rating
		SY	27	P1	30	3651	122.9	3345	112.6	2-3-2
			30			4034	135.8	3695	124.4	2-3-2
			40			4246	143.0	3890	131.0	2-3-2
		AS	27			3505	118.0	3197	107.6	1-3-2
			30			3872	130.4	3531	118.9	1-3-2
- 4			40			4076	137.2	3717	125.2	1-3-2
		so	27			3296	111.0	2976	100.2	1-3-1
			30			3579	120.5	3232	108.8	1-3-1
			40			3883	130.7	3506	118.0	1-3-1
		SY	27	P2	44	5245	119.2	4805	109.2	2-3-2
			30			5794	131.7	5308	120.6	2-3-2
			40			6099	138.6	5587	127.0	2-3-2
		AS	27			5035	114.4	4592	104.4	2-3-2
			30			5562	126.4	5073	115.3	2-3-2
			40			5855	133.1	5340	121.4	2-3-2
		so	27			4654	105.8	4203	95.5	1-3-2
	AVI-G3		30			5141	116.8	4642	105.5	1-3-2
-			40			5412	123.0	4887	111.1	1-3-2
		SY	27	P3	60	7026	116.1	6437	106.4	2-3-3
			30			7762	128.3	7111	117.5	2-3-3
			40			8170	135.0	7485	123.7	3-3-3
			27			6745	111.5	6152	101.7	2-3-2
			30			7451	123.2	6795	112.3	2-3-2
			40			7843	129.6	7153	118.2	2-3-2
		so	27			6235	103.1	5630	93.1	2-3-3
- 40			30			6887	113.8	6219	102.8	2-3-3
			40			7249	119.8	6546	108.2	2-3-3
		SY	27	P4	86	9411	109.4	8622	100.3	2-3-3
			30			10394	120.9	9524	110.7	2-3-3
			40			10943	127.2	10025	116.6	3-3-3
		AS	27			9035	105.1	8240	95.8	2-3-2
			30			9980	116.0	9102	105.8	2-3-2
			40			10505	122.2	9581	111.4	2-3-2
PATENTED		so	27			8595	99.9	7761	90.2	2-3-3
			30			9494	110.4	8573	99.7	2-3-3
DLC			40			9994	116.2	9024	104.9	2-3-3

 $\ensuremath{^{\star}}$ Numbers in $\ensuremath{\mathbf{BOLD}}$ indicate that the configuration is DLC listed.











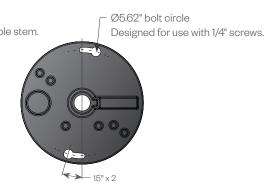


PROJECT: TYPE:

AVI-G3 and AVI-G3-T Standard Mounting Plate







AVI-G3-U and AVI-G3-U-T Mounting Options

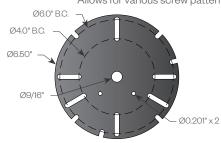
Mounting plate is not provided unless specified.

Optional Mounting Plate



MFP (Optional plate)

Allows for various screw patterns and configurations.



Custom Mounting Plates (consult factory)





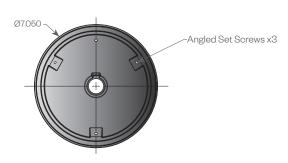




AVI-G3-K/V Mounting Plate



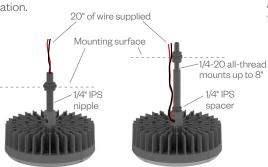




AVI-G3-P Assembly

Designed for pendant application.

543" | 543" | 126" 185"



Allows mounting with 1/4" IPS nipple and 1/4-20 all-thread

Hardware Contents

- (4) 1/4" IPS nipple 1", 2", 4", 6"
- (2) 1/4" IPS nuts
- (2) 1/4" Washer
- (1) 1/4-20x8 all-thread
- (2) 1/4-20 nuts
- (2) 1/4-20 washer
- (1) 1/4" IPS to 1/4-20 adapter



PROJECT: TYPE:

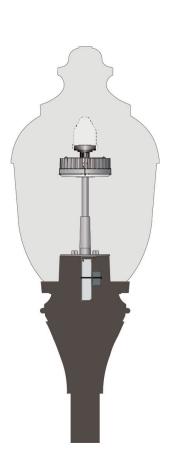
7-Pin Control-ready Option (7IR)

A 7-Pin Control ready option for Avista enables wirelss control technology. An integral 7-Pin NEMA receptacle is combined with our patented LED post-top retrofit designed for operation in a wirelss mesh network. The Avista, using a wireless control system, could be suitable for a broad range of outdoor applications allowing for optimization energy savings, enhanced lighting asset management and improved maintenance and repair operations.

Requirements:

- Limited to Power Levels P1-P3.
- Shorting cap required prior to control system installation.
- Check luminaire clearances for AVI and control system prior to installation.
- If the control system includes a photocell, attention should be paid to the type of luminaire. Internal reflections could cause the luminaire to cycle on and off.
- Designed for use with wireless node rated ≥ 70°C.







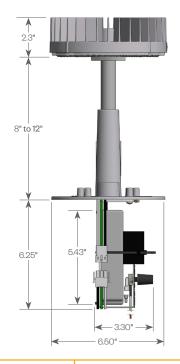
PROJECT: TYPE:

Field Selectable Output Switch (FSO)

The Field Selectable Output (**FSO**) switch is an onboard dimming option that utilizes the 0-10V dimming leads to manually control the output of the fixture. There are 10 detents in the switch and a label indicating the position and relative output setting so that all units on the same project can be adjusted to the same output when necessary. The **FSO** switch also allows maximum flexibility in retrofit applications and is useful when certain fixtures on a project may need reduced output due to citizen's input.

Output can be set between 20% and 100% in approximately 10% increments.

The **FSO** is NOT compatible with the **SSINT-1**, **7IR** or **CCH** options.



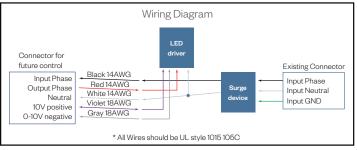


Controls-Capable Wiring Harness (CCH)

A Controls-Capable wiring Harness option allows for easy connectivity of future wireless control technology.

- For use with 3rd party wireless control systems mounted within or in close proximity of the luminaire.
- Not required with control system supplied by Amerlux.





Operation Notes and Limits

The AVI-G3 is designed to operate effectively in many different luminaires with very few limitations. Although the optical chamber is fully sealed, the driver and surge protector are not designed to get wet, therefore the luminaire in which it is used must be "wet location listed".

The AVI-G3 is suitable for use in ambient conditions of -40C to +45C provided the enclosure has a volume greater than or equal to 2430 cubic inches for the P4 power level.

Smaller enclosures may be suitable for power levels P1-P3.