

# Avista LED Light Engine

## Retrofit Guide

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The Avista (AVI-G3) is a high powered, durable LED light engine that will work with many luminaires on the market today.

This guide addresses the common issues of qualifying the job and getting the required fixture information to create a simple field installation solution for the end user.

With some basic knowledge of how the AVI2 works, the decision makers and installers can pre-qualify and choose the right AVI-G3 model for the luminaire.



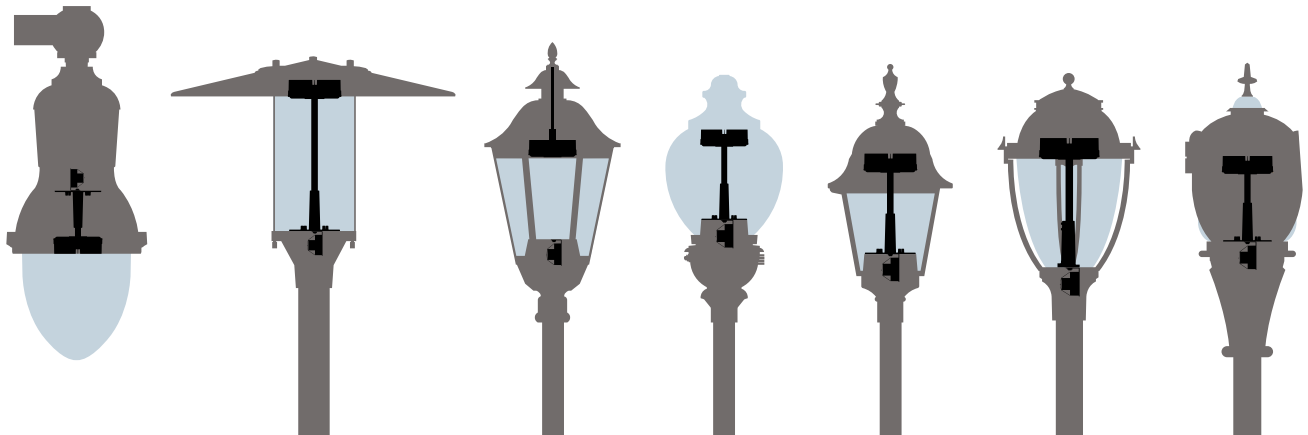
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Diversity is the name of the game.

By design, Avista has the capacity to retrofit some of the most challenging luminaires in the lighting industry. HID luminaires were not designed to use technology 10 to 20 years advanced from when it was originally manufactured. However, Amerlux has come up with a “skeleton key” of sorts to fit as many applications as possible. With just basic information about your retrofit idea, Avista can be the solution to providing a dramatic improvement in quality of lighting and extend the lifespan of the luminaire.

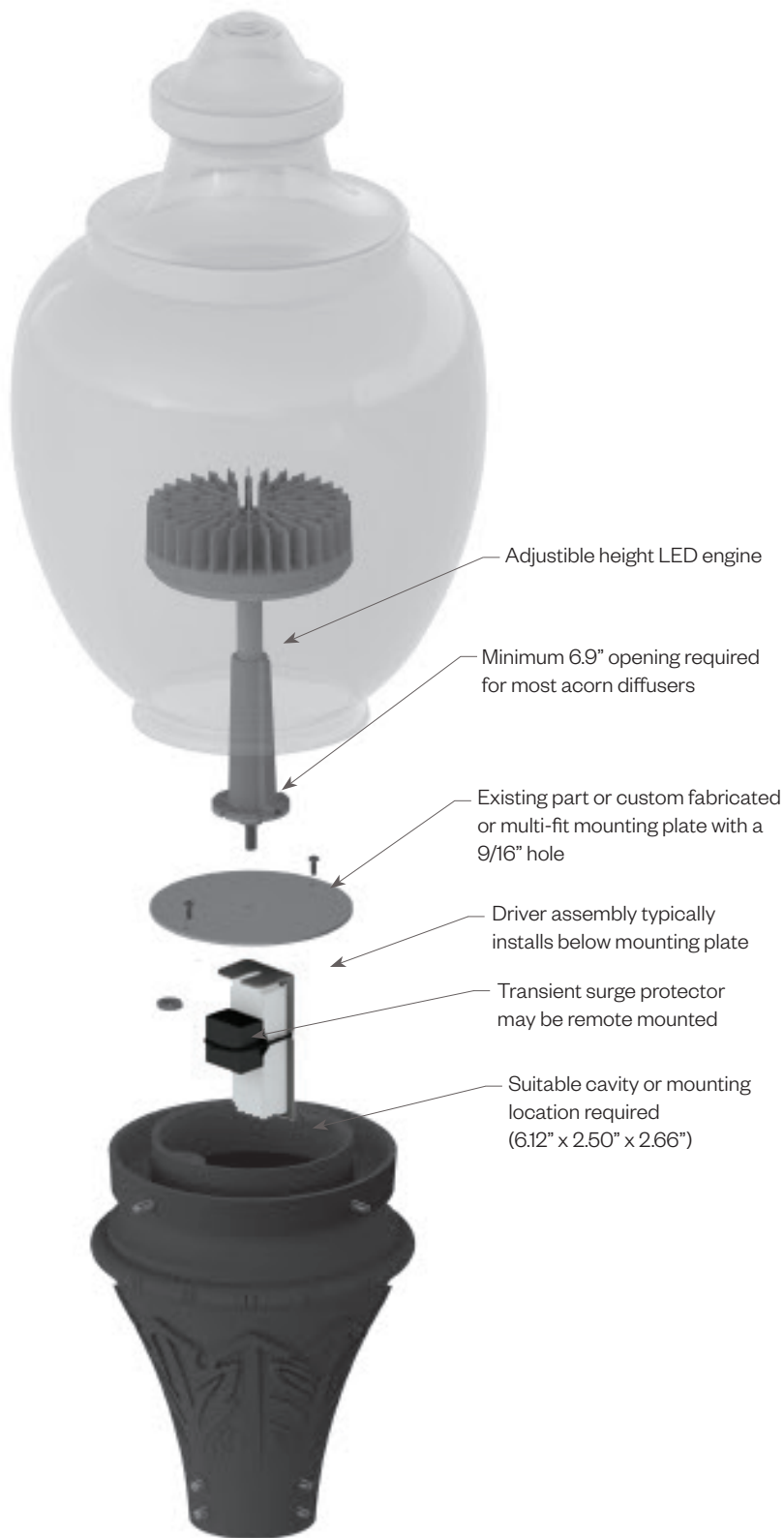
Some of Avista’s retrofit experience:

Holophane	Louis Poulsen	Sternberg
Hadco	Lumec	Visco
King	Pemco	



## Typical AVI-G3-U Mounting

The AVI-G3-U model Avista LED engine is designed for the purpose of retrofitting many post-top luminaires where the LED engine is stem-mounted above the driver assembly.



### Mounting Checklist:

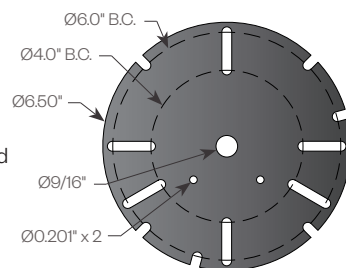
#### Suitable Mounting Location

- A suitable location or existing mounting plate with a minimum 9/16" hole or
- A multi-fit, or custom fabricated mounting plate designed for the specific luminaire (contact factory)
- A minimum 6.9" opening required to allow the Avista clearance into the diffuser
- A suitable cavity or mounting location for driver assembly (6.12" x 2.50" x 2.66")

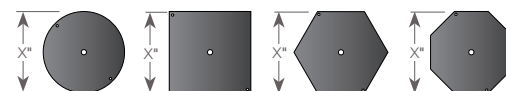
### Optional AVI-U Mounting Plates:

#### Multi-fit

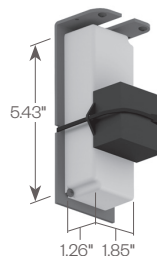
Allows for various screw patterns and configurations.



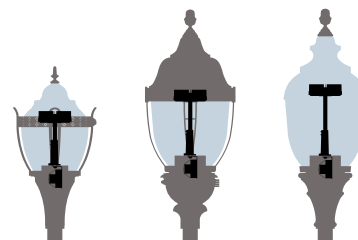
#### Custom Mounting Plates (consult factory):



### Driver Assembly:



### AVI-G3-U accommodates a variety of applications.



## Typical AVI-G3-P Mounting

The AVI-G3-P model Avista LED engine is designed for use in pendant mount applications. It is suitable for use in a variety of luminaires from tear-drop to bell shaped fixtures, or in lanterns when no visible post is desired.

### Pendant kit includes:

- 20" of leads between light engine and driver assembly
- 1/4-20 all-thread mounting hardware
- 1/4" IPS mounting hardware

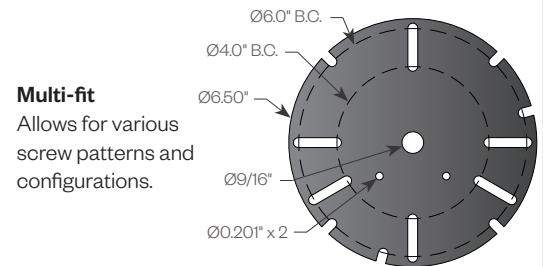


### Mounting Checklist:

#### Suitable Mounting Location

- A suitable pendant mounting plate or bracket with a minimum 9/16" hole  
*or*
  - A suitable pendant mounting plate or bracket with a minimum 9/16" hole  
*or*
  - A custom fabricated mounting plate designed for the specific luminaire (consult factory)
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- Driver cavity above light engine  
*or*
  - Driver cavity below light engine (20" wire provided)
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- A suitable cavity or mounting location for driver assembly (6.12" x 2.50" x 2.66")

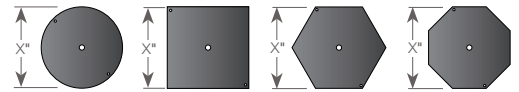
### Optional AVI-P Mounting Plates:



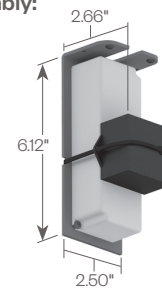
#### Multi-fit

Allows for various screw patterns and configurations.

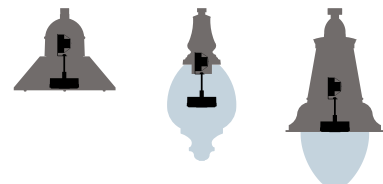
#### Custom Mounting Plates (consult factory):



### Driver Assembly:

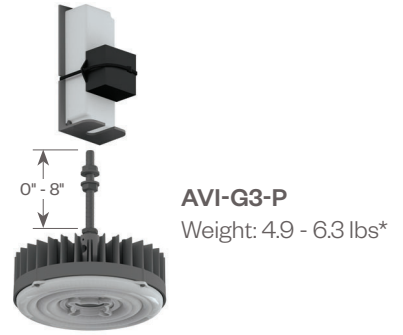
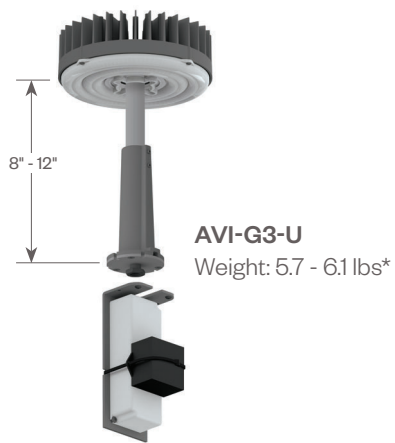
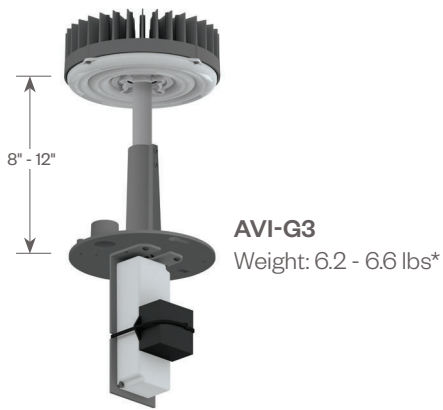


### AVI-G3-U accommodates a variety of applications.

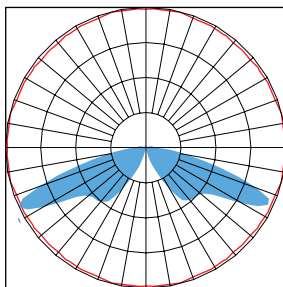


Driver shown installed above light engine.

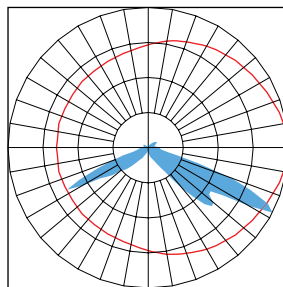
## Standard Modules



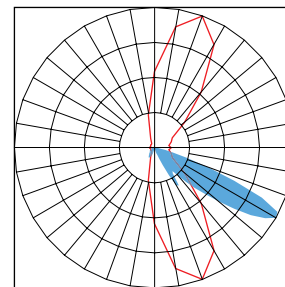
## Light Distribution Types



**SY**  
Type V



**AS**  
Type IV



**SO**  
Type III

## How To Order

- Step 1:** Choose a Model (pg 4) that best suits your retrofit project.
- Step 2:** Choose a Light Distribution
- Step 3:** Choose a Code that represents the wattage and lumens desired.
- Step 4 (Optional Accessory):** Choose a mounting plate if needed.

## Performance

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



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

\* Numbers in **BOLD** indicate that the configuration meets DLC standards.