

Avista®

LED Light Engine



Features

As LEDs change and improve, so does Avista with a second generation of LEDs, optics, 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. Optional controls available.

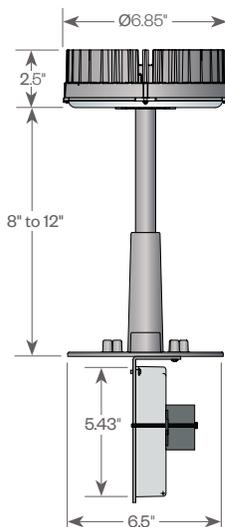
Product Overview

Wattage:	up to 68W
Lumen Output :	up to 7,500; up to 126 lm/W
Color Temp:	3000K, 4000K
Dimming:	0-10V dimming Manual onboard dimming option available

Control ready option available

PROJECT:

TYPE:



Application:

LED light engine for use in post top mount area and pedestrian environments. Designed for new fixtures or existing as a retrofit.

Installation:

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

Electrical:

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

Construction:

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

Distribution:

- Symmetric (**SY**)
- Asymmetric (**AS**)
- Street Optic, Type 3 (**SO**)

CCT:

- 3,000K (**30**)
- 4,000K (**40**)

Power Level:

- 500mA (27W) (**500M**)
- 700mA (38W) (**700M**)
- 1200mA (68W) (**1200M**)

L70:

50,000+ hrs.

Accessories:

- Multi-fit plate (**MFP**)
- Custom plate (**CSTM**)
- 7 Pin integrated receptacle (**71R**)
- Controls capable harness (**CCH**)
- Wireless control options
- Optional onboard field selectable output switch for dimming (**FSO**)



PROJECT:

TYPE:

Ordering Information

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3

4

5

Add additional accessories as needed

1

Model

- AVI2** - Standard model
- AVI2-T** - Tall model
- AVI2-U** - Multi-fit model
- AVI2-U-T** - Multi-fit Tall model
- AVI2-P** - Pendant model
- AVI2-K/V** - K/V mount
- AVI2-K/V-T** - Tall model for (nominal) 6" cylindrical openings

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Light Distribution

- SY** - Symmetric
- AS** - Asymmetric
- SO** - Street Optic

3

CCT

- 30** - 3000K
- 40** - 4000K

4

Power Level

- 500M** - 500 mA (27W)
- 700M** - 700 mA (38W)
- 1200M** - 1200 mA (68W)

5

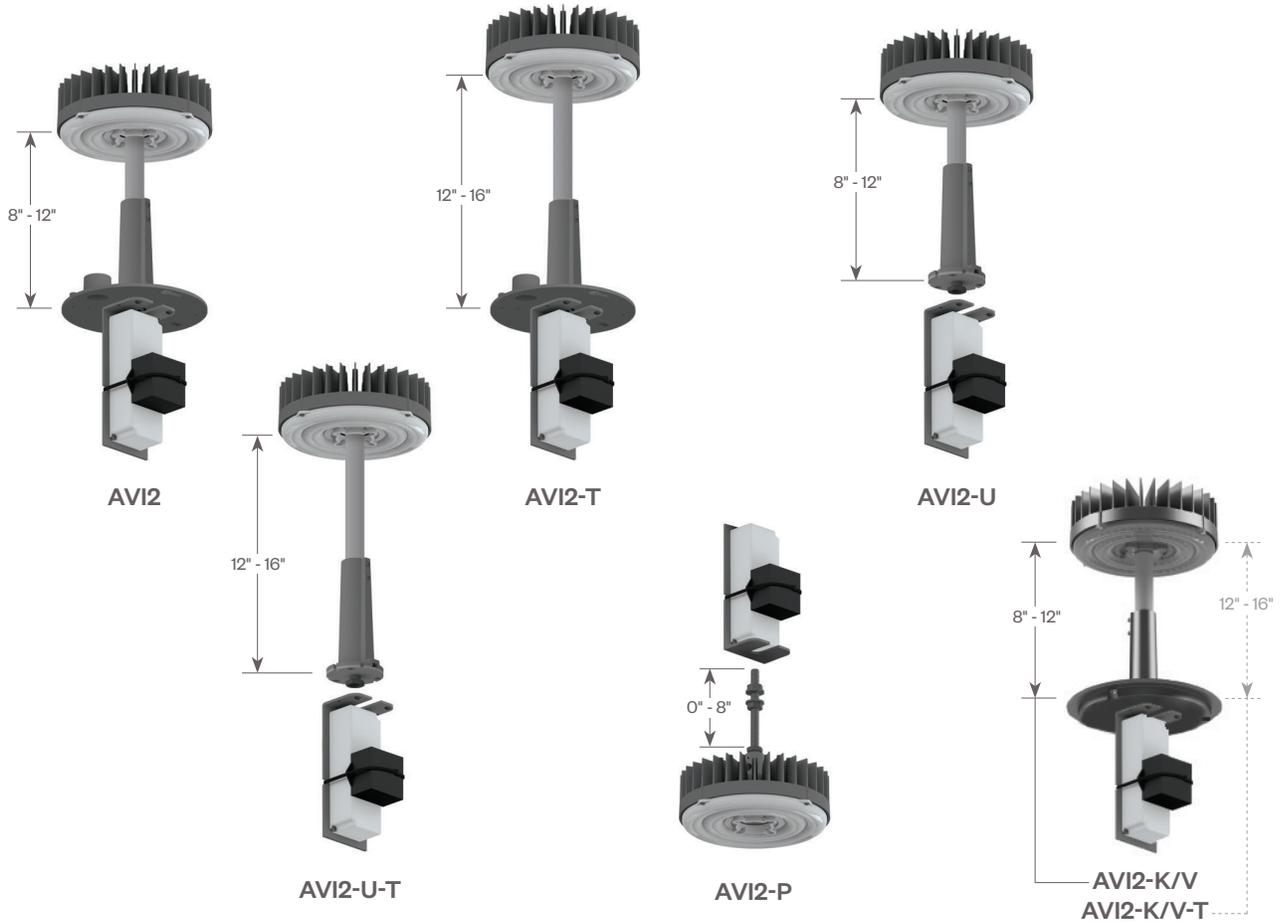
Accessories

- MFP** - Multi-fit plate
- CSTM** - Custom plate
- CCH** - Controls Capable Harness
- SSINT-1** - Integrated Wireless Control Node
(for operation on the SmartSite control platform)
- 7IR** - Light engine integrated 7-pin NEMA Receptacle
(to allow installation of a wireless control node for operation on the SmartSite or other control platform)
- FSO** - Field Selectable Output option (to allow manual onboard dimming of the light engine, see pg 7 for details)

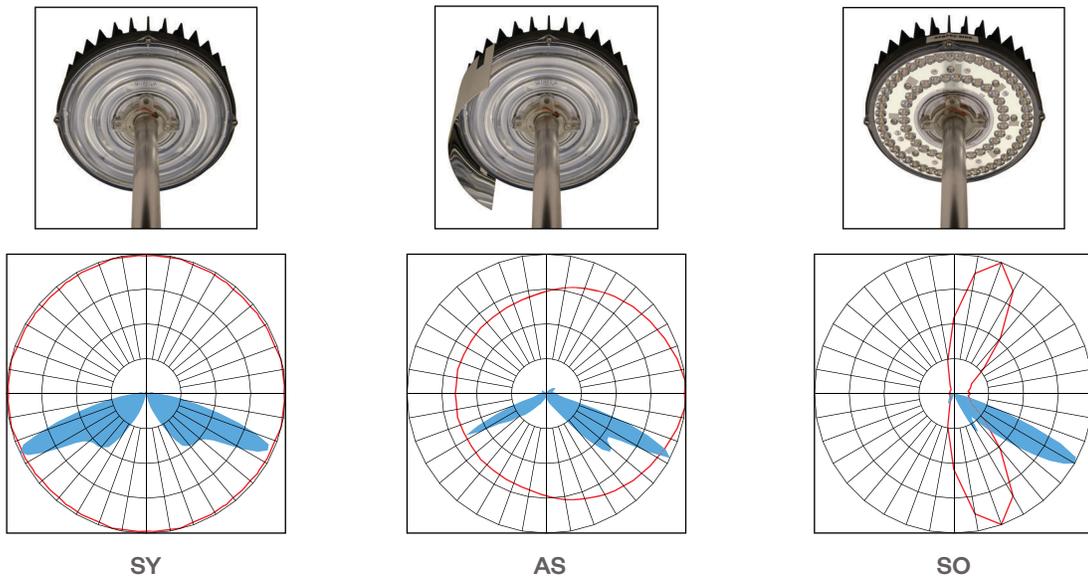
PROJECT:

TYPE:

Standard Models



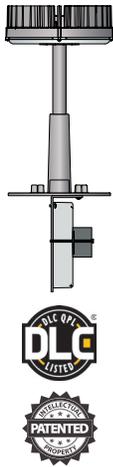
Light Distribution Types



PROJECT:

TYPE:

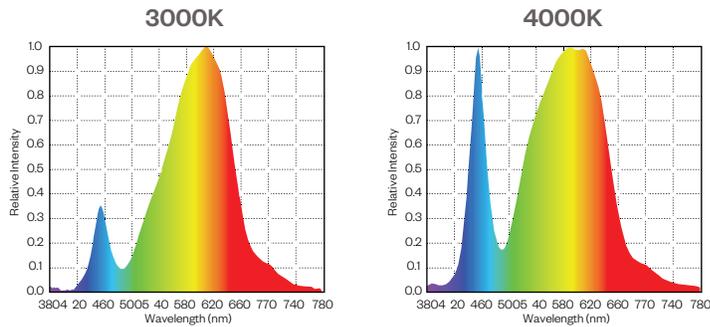
Engine Only Performance



LED System	Driver Output	System Watts	Light Distribution	CCT	Engine Only Lumens	Engine Only LPW	DLC Acorn Lumens	DLC Acorn LPW	Bug Rating w/Acorn
AVI2	500M (500 mA)	27W	SY (Symmetric)	30 (3000K)	314	115	2883	107	2-3-2
				40 (4000K)	3407	126	3155	117	2-3-2
			AS (Asymmetric)	30 (3000K)	3000	111	2778	103	1-3-2
				40 (4000K)	3142	116	2909	108	1-3-2
			SO (Street Optic)	30 (3000K)	3065	114	2838	107	1-3-1
				40 (4000K)	3218	119	2980	110	1-3-1
	700M (700 mA)	38W	SY	30 (3000K)	41489	110	3879	102	2-3-2
				40 (4000K)	4585	121	4245	112	2-3-2
			AS	30 (3000K)	3904	103	3615	95	2-3-2
				40 (4000K)	4089	108	3786	100	2-3-2
			SO	30 (3000K)	4129	109	3823	101	1-3-2
				40 (4000K)	4334	114	4013	106	1-3-2
	1200M (1200 mA)	68W	SY	30 (3000K)	7263	107	6725	99	2-3-3
				40 (4000K)	7533	111	6975	103	3-3-3
			AS	30 (3000K)	6989	103	6471	95	2-3-2
				40 (4000K)	7318	108	6776	100	2-3-2
			SO	30 (3000K)	7142	105	6613	97	2-3-3
				40 (4000K)	7500	110	6944	102	2-3-3

Approximate lumens delivered from raw light engine.

Spectral Power Distribution



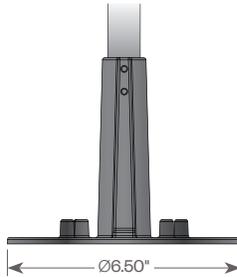
PROJECT:

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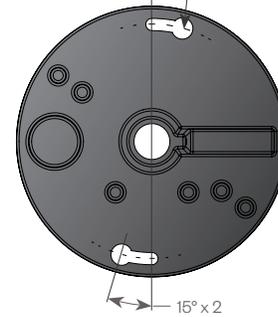
AVI2 and AVI2-T Standard Mounting Plate



Includes one piece cast aluminum mounting plate with a height adjustable stem.

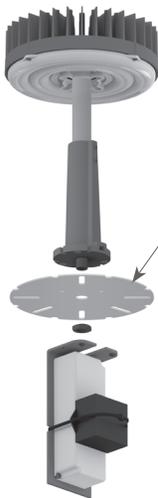


Ø5.62" bolt circle
Designed for use with 1/4" screws.



AVI2-U and AVI2-U-T Mounting Options

Mounting plate is not provided unless specified.

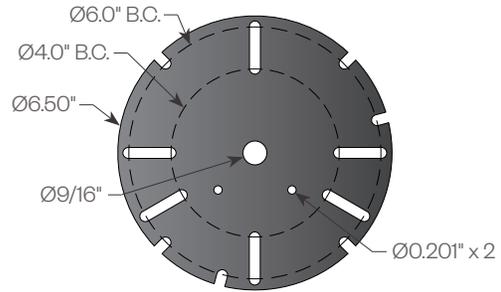


Optional
Mounting Plate

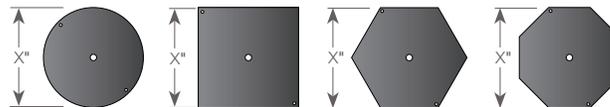


MFP (Optional plate)

Allows for various screw patterns and configurations.



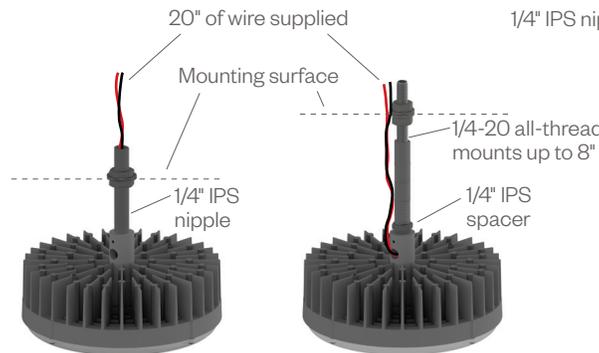
Custom Mounting Plates (consult factory)



AVI2-P Assembly

Designed for pendant application.

Driver Assembly



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:

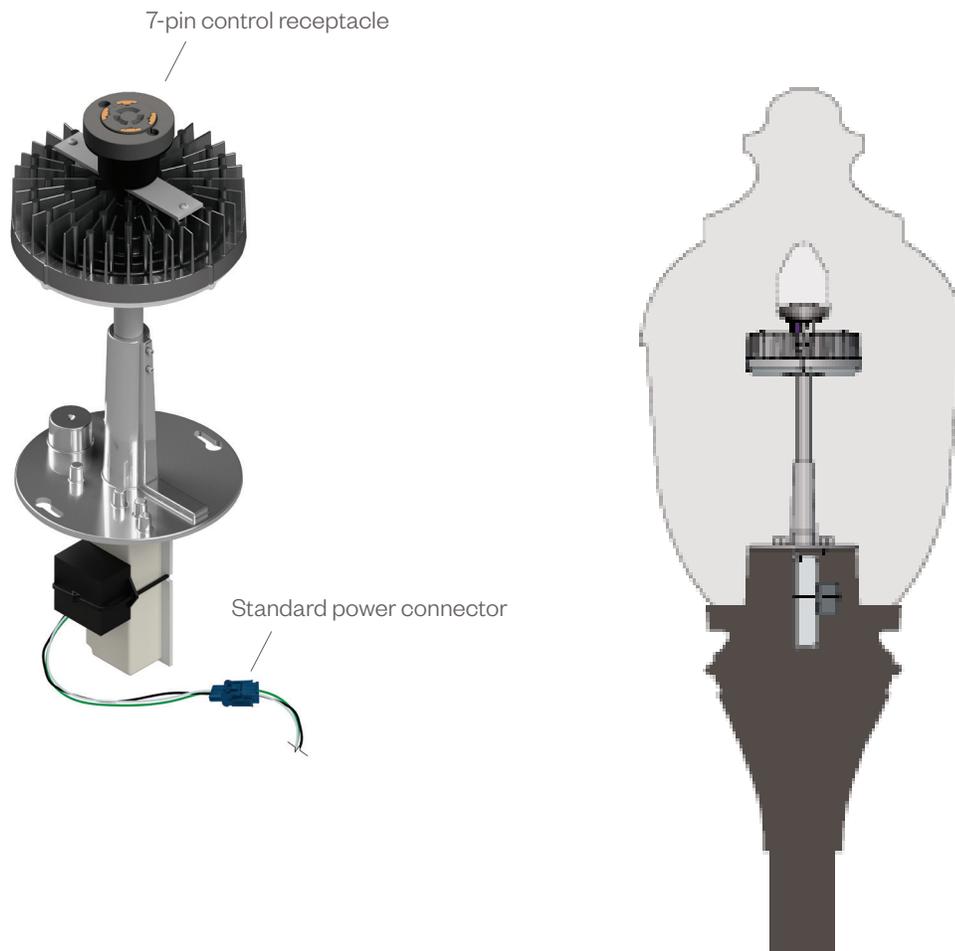
TYPE:

7-Pin Control-ready Option (7IR)

A 7-Pin Control ready option for Avista enables wireless control technology. An integral 7-Pin NEMA receptacle is combined with our patented LED post-top retrofit designed for operation in a wireless 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:

- 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. Reflectors of light inside the globe could turn the luminaire off.
- Designed for use with wireless node rated $\geq 70^{\circ}\text{C}$.



PROJECT:

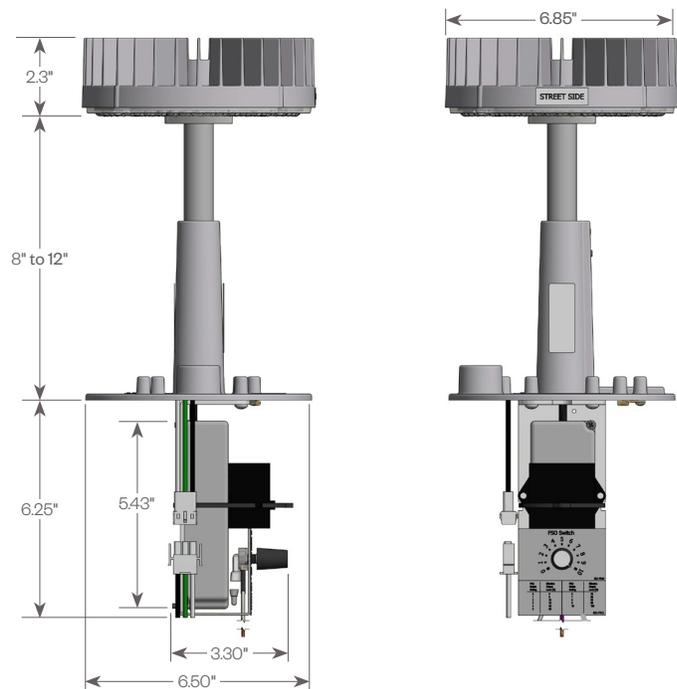
TYPE:

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 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.

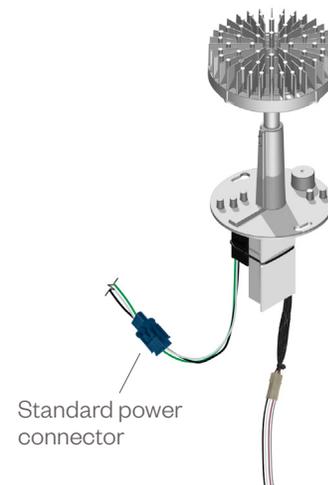
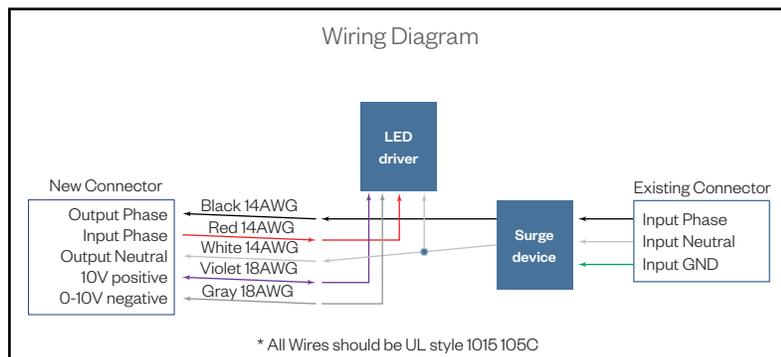
The FSO is NOT compatible with the SSINT-1, 7IR or CCH options.



Controls-Capable Wiring Harness (CCH)

A Controls-capable Wiring Harness option for Avista is enabled for future wireless control technology. A separate control wiring harness is included and can be used for installation of a future control system.

- Ready for future intelligent control node, providing dimming, power metering, and outage notification.
- Includes wiring harness for flexible convenient installation of future control systems.



Standard power connector