

PROJECT:

TYPE:

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
Lumen Output: up to 10,943 lm; up to 143 lm/W
Color Temp: 2700K, 3000K, 4000K
1900K (*Nightscape*)
Dimming: 0-10V dimming
Manual onboard dimming option available

Certifications



Not all configurations are
DLC listed, see pg 4 for options.

Fixture Summary

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:

-40°C to +45°C 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
- Polycarbonate lens

Distribution:

- Symmetric
- Asymmetric
- Street Optic

CCT, CRI:

- 2700K, 80CRI
- 3000K, 70CRI
- 4000K, 70CRI
- 1900K, 52CRI (*Nightscape*, see pg 6)

Power Level:

(see performance chart for output)

- 30W
- 44W
- 60W
- 86W

L70:

72,000+ hrs.

Accessories:

- Multi-fit plate
- 7 Pin integrated receptacle
- Controls Capable Harness
- Optional onboard field selectable output switch for dimming
- Wireless control option



Delta Intelligent Building Technologies

PROJECT:

TYPE:

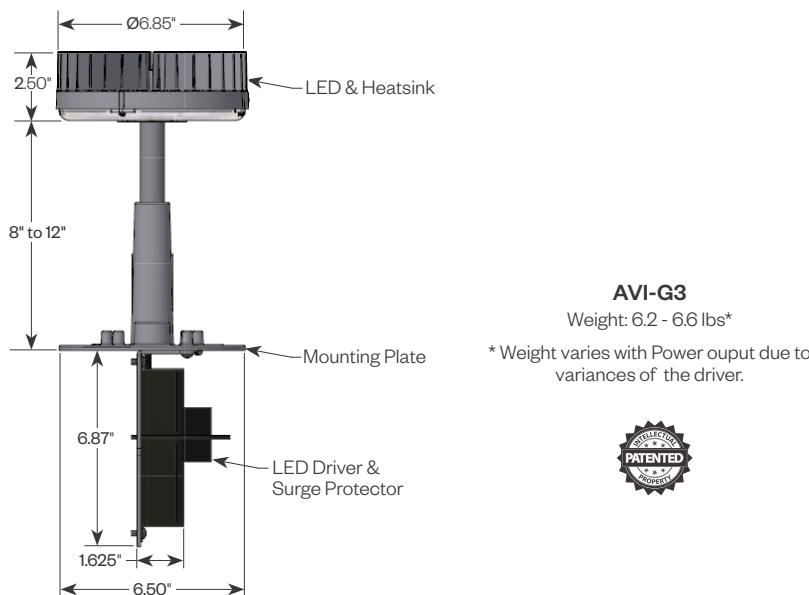
Ordering Information

1 2 3 4 5

| 1 | Model | 2 | Light Distribution | 3 | CCT |
|---|---|---|--------------------|----|----------------------------|
| | AVI-G3 [†] standard model | | SY symmetrical | 27 | 2700K (80CRI) |
| | AVI-G3-T [†] standard tall model | | AS asymmetrical | 30 | 3000K (70CRI) |
| | AVI-G3-U ^{††} multi-fit model | | SO street optic | 40 | 4000K (70CRI) |
| | AVI-G3-U-T ^{††} multi-fit tall model | | | NS | 1900K (52CRI - Nightscape) |
| | AVI-G3-P pendant mount model | | | | |
| | AVI-G3-K/V for (nominal) 6" cylindrical openings | | | | |
| | AVI-G3-K/V-T tall model for (nominal) 6" cylindrical openings | | | | |
| <small>[†] For most Amerlux luminaires</small> | | | | | |
| <small>^{††} For most other mfg. luminaires</small> | | | | | |

| 4 | Power Level | 5 | Options/Accessories |
|---|---|---|---|
| | P1 30W | | MFP multi-fit plate (for use with AVI-G3-U/AVI-G3-U-T/AVI-G3-P models only) |
| | P2 44W | | 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, limited to power levels P1-P3, not available for use with CCH or FSO) |
| | P3 60W | | CCH controls capable harness (not available for use with 7IR or FSO) |
| | P4 86W | | FSO field selectable output option to allow manual dimming (not available for use with 7IR or CCH) |
| | 120V-277V auto-sensing driver is standard. Consult factory for 347V/480V option. | | 323PLT adaptor plate for D323 fixture (use AVI-G3-U model) |
| | | | 623PLT adaptor plate for D623 fixture (use AVI-G3-U model) |
| | | | 480PLT adaptor plate for D480 fixture (use AVI-G3-U model) |

Product Details



AVI-G3

Weight: 6.2 - 6.6 lbs*

* Weight varies with Power output due to variances of the driver.

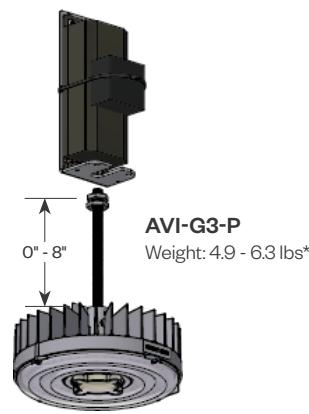


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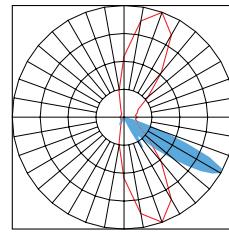
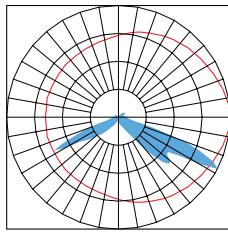
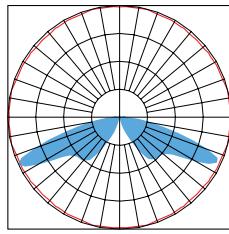
TYPE:

Standard Models



* Weight varies with Power output due to variances of the driver.

Light Distribution Types



SY Type V

AS Type IV

SO Type III



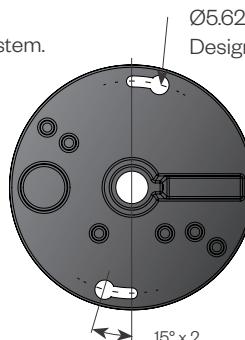
PROJECT:

TYPE:

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

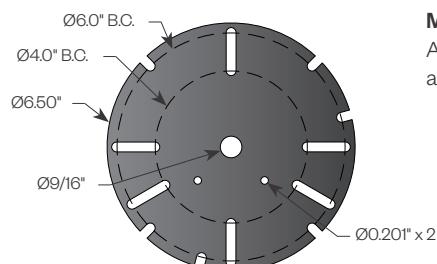
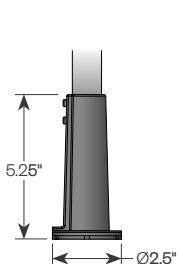


Includes one piece cast aluminum mounting plate with a height adjustable stem.

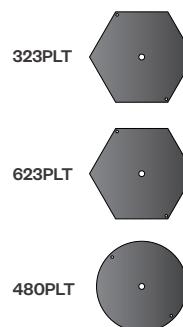


Ø5.62" bolt circle
Designed for use with 1/4" screws.

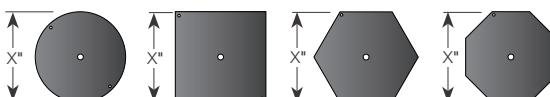
AVI-G3-U and AVI-G3-U-T Optional Mounting Plates (Not provided unless specified)



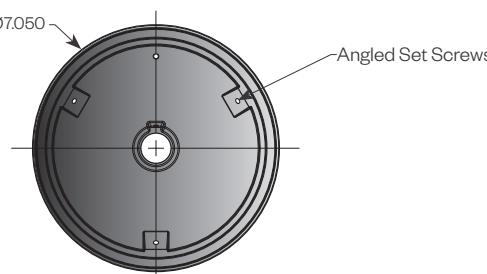
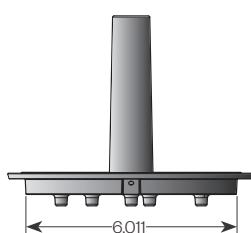
MFP (Optional plate)
Allows for various screw patterns and configurations.



Custom Mounting Plates (consult factory)

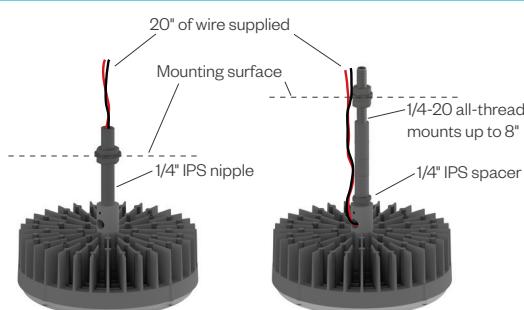
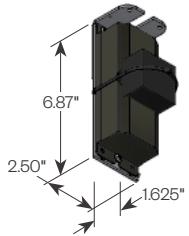


AVI-G3-K/V Mounting Plate



AVI-G3-P Assembly (Designed for pendant application)

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



Delta Intelligent Building Technologies

PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3000K IES file on website)

| CCT: | 1900K (NS) | 2700K | 3000K | 4000K |
|---------|------------|-------|-------|-------|
| Factor: | 0.85 | 0.91 | 1.0 | 1.05 |

| Model | Distribution | CCT | Power Level | System Watts | LED Engine Lumens | LED Envigne LPW | Lumens w/DLC Acorn | LPW DLC* Acorn | BUG Rating |
|--------|--------------|-----|-------------|--------------|-------------------|-----------------|--------------------|----------------|------------|
| AVI-G3 | 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 |
| | | NS | | | 3445 | 116.0 | 3156 | 106.3 | 2-3-2 |
| | AS | 27 | | 30 | 3505 | 118.0 | 3197 | 107.6 | 1-3-2 |
| | | 30 | | | 3872 | 130.4 | 3531 | 118.9 | 1-3-2 |
| | | 40 | | | 4076 | 137.2 | 3717 | 125.2 | 1-3-2 |
| | | NS | | | 2859 | 96.0 | 2607 | 88.0 | 1-3-2 |
| | SO | 27 | | 30 | 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 |
| | | NS | | | 3056 | 102.9 | 2760 | 92.9 | 1-3-1 |
| | SY | 27 | | P2 | 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 |
| | | NS | | | 4948 | 113.0 | 4533 | 104.0 | 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 |
| | | NS | | | 4107 | 94.0 | 3745 | 86.0 | 2-3-2 |
| | SO | 27 | | | 4654 | 105.8 | 4203 | 95.5 | 1-3-2 |
| | | 30 | | | 5141 | 116.8 | 4642 | 105.5 | 1-3-2 |
| | | 40 | | | 5412 | 123.0 | 4887 | 111.1 | 1-3-2 |
| | | NS | | | 4390 | 100.5 | 3965 | 90.8 | 1-3-2 |
| | SY | 27 | | | 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 |
| | | NS | | | 6628 | 110.0 | 6072 | 100.0 | 3-3-3 |
| | AS | 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 |
| | | NS | | | 5502 | 91.0 | 5017 | 83.0 | 2-3-2 |
| | SO | 27 | | | 6235 | 103.1 | 5630 | 93.1 | 2-3-3 |
| | | 30 | | | 6887 | 113.8 | 6219 | 102.8 | 2-3-3 |
| | | 40 | | | 7249 | 119.8 | 6546 | 108.2 | 2-3-3 |
| | | NS | | | 5881 | 97.2 | 5311 | 87.8 | 2-3-3 |
| | SY | 27 | | | 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 |
| | | NS | | | 8878 | 104.0 | 8133 | 95.0 | 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 |
| | | NS | | | 7369 | 86.0 | 6720 | 79.0 | 2-3-2 |
| | SO | 27 | | | 8595 | 99.9 | 7761 | 90.2 | 2-3-3 |
| | | 30 | | | 9494 | 110.4 | 8573 | 99.7 | 2-3-3 |
| | | 40 | | | 9994 | 116.2 | 9024 | 104.9 | 2-3-3 |
| | | NS | | | 8108 | 94.8 | 7108 | 83.1 | 2-3-3 |

***BOLD** numbers indicate that the configuration meets DLC standards.

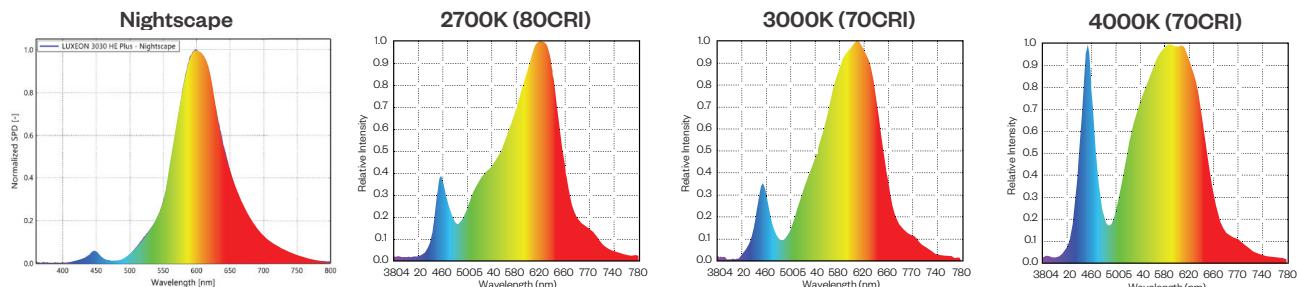


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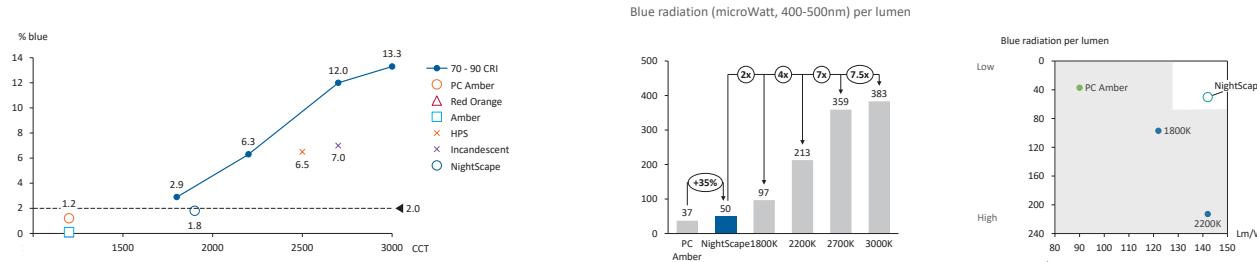
TYPE:

Spectral Power Distribution



Nightscape (NS) Technology

- Unique spectral distribution that delivers highest flux while emitting <2% light of blue.
- The Nightscape (low blue) Avista is powered by Luxeon 3030 HE Plus which delivers high efficacy and superior life span.

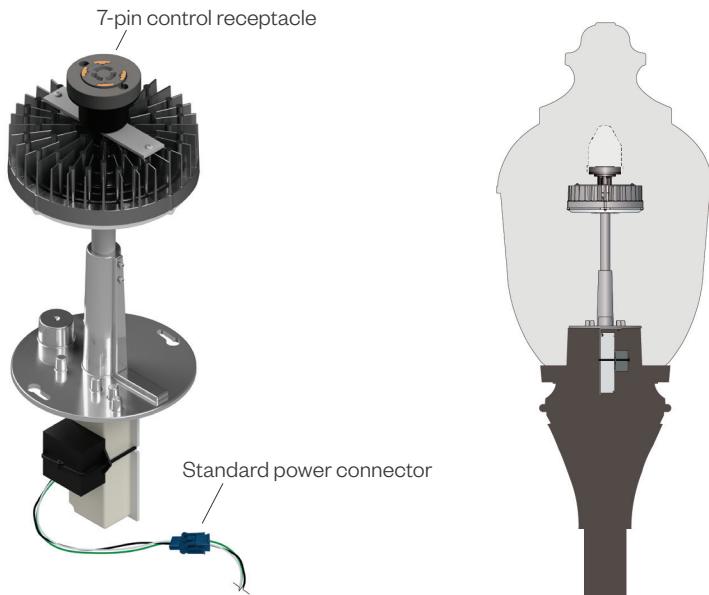


7-Pin Control-Ready Option (7IR)

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:

- 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 $\geq 70^\circ\text{C}$.



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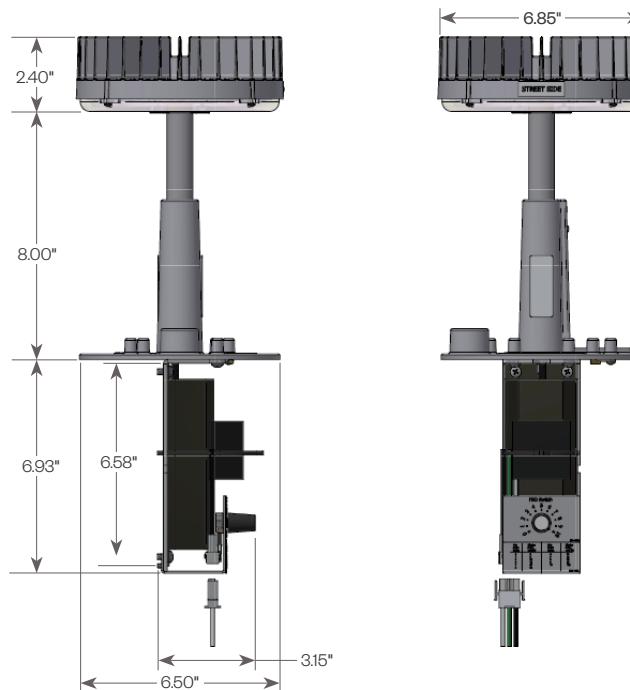
TYPE:

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.

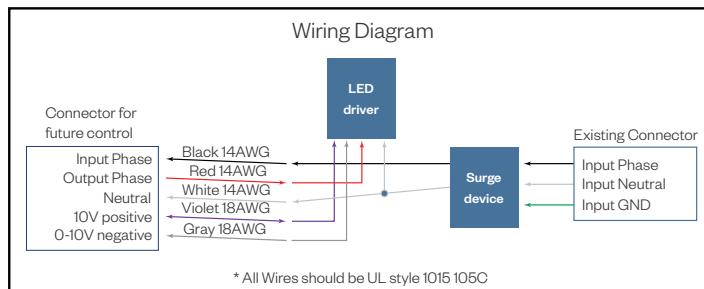
The FSO is NOT compatible with the SSINT-1, 7IR or CCH options.



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 Limitations

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 -40°C to +45°C 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.



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