Pulse Start 5K Lighting with the Brilliant Color of Sunlight

SEE THINGS IN A WHOLE NEW LIGHT!

12802 Commodity PL • Tampa, FL 33626 • 813-855-9416
Visit us at www.qssi.com!
Now you can experience the natural beauty of sunlight at night with the Diamond White line of pulse start and metal halide 5200K lamps from QSSI. Our 5K lamps will make colors appear crisper, objects sharper, and everything brighter like natural daylight.

**Brighter Light**

The color temperature of a lamp is the indication of the whiteness of the light source, from a warm 2700K (yellow) such as an incandescent lamp, to 5000K (white) or the color of sunlight, to 6500K (blue) which is the average outdoor sky color. During periods of high light levels our eyes detect light using the cones. This response is referred to as photopic, and is the traditional measurement of a lamp’s lumen output. At night or during low light levels, the rods in our eyes are more active and respond to higher color temperatures. The measurement of this output is referred to as scotopic lumens. In low light levels (scotopic visual conditions), our eyes’ response to blue lightwaves increases dramatically, while the response to red and yellow lightwaves is decreased. When the color temperature of the light source is higher, we perceive the light as brighter. Standard metal halide lamps have a CCT of 4000K and so do not look as bright to us as the 5000K lamps.

**Crisper Colors**

The Color Rendering Index (CRI) is a numerical indication of the ability of the lamp to render colors accurately. It is a comparison of the lamp’s spectral distribution of the various wavelengths to those in light produced by the daytime sky at the same color temperature. Typical metal halide lamps have a CRI of 65-75, while high pressure sodium has a CRI of 25. Our Diamond White Pulse Start Lamps have a CRI of 85 or better, which helps render colors more accurately at night, so that red car on the dealer’s lot really looks red, not brown as it would under a lower CRI light source. CRI plays a vital role in illumination of all types of merchandise, from cars on a dealer’s lot to meat and produce in a grocery store.

**Sharper Vision**

The scotopic component of lumen output helps us see better at night due to our eyes’ reaction to blue lightwaves. This results in objects appearing clearer and easier to see.
WHY USE DIAMOND WHITE 5K LAMPS?

- Outdoor areas and indoor workspaces look brighter and more pleasing. This creates an environment that feels more inviting and secure.
- Brighter, high quality white light increases security and can help reduce the risk of crime and vandalism.
- Vision is improved resulting in easier viewing of surroundings, merchandise and workspaces.
- Brighter, crisper colors make shopping experiences and outdoor spaces more pleasurable.

APPLICATIONS

Diamond White Pulse Start Lamps can be used in any application or lighting fixture where standard metal halide or pulse start metal halide is used. The lamps are available in the same wattages and lamp sizes, and work on magnetic ballasts and electronic drivers.

- **Car Dealerships:** Enhanced color rendering and bright light invite customers onto the lot and provide a pleasurable shopping experience.
- **Retail Lighting and Grocery Stores:** Crisper colors and sharper vision make merchandise and produce more visually appealing.
- **Parking Garages:** Brighter light aids drivers and helps reduce vandalism.
- **Roadway and Parking Lot Lighting:** Brighter light and improved vision for safer maneuvering and enhanced security.
- **Indoor Open Spaces:** Use in mall common areas and big box retail stores for improved visual comfort and sharper, more appealing displays.
- **Warehouses:** Brighter light provides increased visibility and aids in product identification and bar code scanning.
- **Sports Lighting:** Brighter light and sharper vision makes it easier to play and watch the game, and aids television broadcasts.
### Pulse Start Metal Halide

<table>
<thead>
<tr>
<th>Model #</th>
<th>Wattage (W)</th>
<th>Lumens (lm)</th>
<th>Correlated Color Temperature (CCT)</th>
<th>Color Rendering Index (CRI)</th>
<th>Base Type</th>
<th>Bulb Designation</th>
<th>Bulb Finish</th>
<th>Maximum Overall Length (MOL)</th>
<th>Light Center Length (LCL)</th>
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<tr>
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<td>70</td>
<td>5,600</td>
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### Probe Start Metal Halide

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<th>Model #</th>
<th>Wattage (W)</th>
<th>Lumens (lm)</th>
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<th>Color Rendering Index (CRI)</th>
<th>Base Type</th>
<th>Bulb Designation</th>
<th>Bulb Finish</th>
<th>Maximum Overall Length (MOL)</th>
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<th>Max. Lamp Temperature (°C)</th>
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<th>Typical Restrike Time (Minutes)</th>
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<td>430°C</td>
<td>5</td>
<td>10</td>
<td>26,000</td>
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**WARNING:** This lamp can cause skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. **DO NOT OPERATE LAMP** if the outer bulb is cracked or broken. If this occurs, switch the supply off immediately and when the lamp has cooled sufficiently, using suitable protective clothing, remove the lamp from the fixture.
Where To Use Diamond White Lamps?

Diamond White lamps can be used in any application and lighting fixture that accepts either standard metal halide or pulse start lamps. Because they are designed to enhance visibility and create inviting environments they are ideal for retail and workplace applications and anywhere people gather. Following are some suggested fixtures and applications for Diamond White lamps.

**WALL PACK**

**Small Accord Semi-Cutoff Wall Pack (WPA15)**

**Applications:** Public Buildings, Restaurants, Convenience Stores, Fast Food Establishments, Building Mounted Walkway Lighting, General Security Lighting, Egress and Ingress Lighting

The Small Accord Semi-Cutoff Wall Pack is both architecturally pleasing and a rugged, dependable wall mounted fixture. Featuring a shock-resistant borosilicate glass lens and a powdercoat finish, the Accord offers superior performance and a modern feel.

Suggested Diamond White lamp wattages: 70, 100, or 150 watts.

**Large Accord Semi-Cutoff Wall Pack (WPA25)**

**Applications:** Public Buildings, Restaurants, Convenience Stores, Fast Food Establishments, Building Mounted Walkway Lighting, General Security Lighting, Egress and Ingress Lighting

The Large Accord is the big brother and has all the features of the Small Accord. In addition, it includes an Easy-Hang “Two Hands Free” wall mounting plate with built-in level. The Large Accord is contractor-friendly, and the level assures the fixture will be installed level the first time, every time.

Suggested Diamond White lamp wattages: 150, 250, 320 or 400 watts.

**Energy Saving Options:** Both models are photocell adaptable for automatic dawn to dusk control with no timers to worry about or reset. Depending on the application, a 320 watt WPA25 can often be substituted for an existing 400 watt metal halide fixture, resulting in an automatic 20% decrease in energy use.

**AREA LIGHTING**

**Large Adjusta Area/Wall Light with Cutoff Reflector (AD40)**

**Applications:** Auto Dealerships, Parking Lots, Retail Malls, Walkways, Parkways, Shopping Centers, Plazas, Loading Docks

The Large Adjusta Area/Wall Light features a cutoff reflector and an easily-adjustable lamp housing that swivels from 0° to 30°. Mounted in the zero-degree position it functions as a full cutoff luminaire, and when tilted allows focusing the light where it’s needed most. In addition to pole mounting, the Adjusta includes an Easy-Hang wall bracket that allows it to be mounted by one person.

Suggested Diamond White lamp wattages: 150, 250, 320 or 400 watts.

**Large Kitty Hawk (KH40)**

**Applications:** Auto Dealerships, Parking Lots, Retail Malls, Street Lighting, Walkways, Parkways, Shopping Centers, Plazas

Arched and graceful, the Kitty Hawk offers a low-profile modern design for street and area lighting. An integral mounting arm means fewer pieces to assemble on the job site. It mounts easily to square poles, and available adapters provide round pole and wall mount versatility. The adjustable reflector provides IES Type II, III and IV distributions. Easily photocell adaptable for automatic dusk to dawn operation.

Suggested Diamond White lamp wattage: 250 watts.

**Bostonian Series Decorative Poles (PB1 & PB2)**

**Applications:** Residential and City Street Lighting, Parks, Plazas, Open Air Malls, Parking Lots, Multi-family Complexes

Timeless design is embodied in the Bostonian series of post top lighting. With decorative choices from simple to ornate, it creates beautiful surroundings when paired with the Diamond White lamps. Includes LexaLite Lindy Prismatic Type III or Type V optics, and decorative fluted poles and bases are available to complete the scene.

Suggested Diamond White lamp wattages: PB1 series in 70, 100 or 150 watts, and the PB2 series in 150 or 250 watts.

Complete specifications are available on our website, www.qssi.com
**Dome Top Bollard with IES Type III Glass (BOG3)**

**Applications:** Walkways, Parks, Schools and Colleges, Commercial Buildings

The dome top bollard with a prismatic glass lens is a perfect choice for lighting pathways and sidewalks in commercial and residential areas. Available with choice of Type III for areas where you want to decrease the brightness on the building side, or Type V for general lighting. The glass lens is protected by a clear polycarbonate outer lens for vandal resistance.

Suggested Diamond White lamp wattages: 70 or 100 watts.

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**Flood Lighting**

**Round Back Flood (FL61)**

**Applications:** Landscape Lighting, Building Façade Lighting, General Security Lighting, Sign and Flagpole Lighting

The Round Back Flood is a perfect size to use for general lighting of entrance signs, flag poles, landscape and building features or anywhere a smaller size flood is needed. The adjustable knuckle allows it to be aimed precisely where the light is desired. The Diamond White lamps are ideal for these applications as they accentuate the features of the illuminated objects.

Suggested Diamond White lamp wattages: 70, 100 or 150 watts.

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**Large Flood (FL65)**

**Applications:** Landscape and Building Façade Lighting, General Security Lighting, Sign and Flagpole Lighting, Outdoor Displays

Our Large Flood is used for applications requiring a higher wattage while still providing a compact design. Multiple mounting options allow mounting on poles, posts, and horizontal or vertical surfaces.

Suggested Diamond White lamp wattages: 250, 320 or 400 watts.

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**16” Flood and Area Light**

**Applications:** Parking Areas, Multi-Family Complexes, Convenience Stores, General Security Lighting, Loading Docks, Perimeter Lighting where Cutoff is needed

The 16” Flood functions equally well as a traditional flood or a pole mounted area light. Available with choice of reflectors: Standard Flood (model FL70), Wide Flood (FL70W), Cutoff (AL70C), Forward Throw (FL70F), and Type V (FL70V), this fixture satisfies most applications. Mounting options include adjustable brackets, yokes and extruded mounting arms.

Suggested Diamond White lamp wattages: 250, 320 or 400 watts.

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**23” Flood and Area Light**

**Applications:** Auto Dealerships, Parking Areas, Malls and Shopping Centers, Commercial and Industrial Complexes, General Security Lighting, Perimeter Lighting where Cutoff is needed

Use the 23” Flood as a traditional flood or a pole mounted area light. It will work in most applications with the choice of available reflectors: Wide Flood (FL90W), Cutoff (AL90C) and Type V (FL90V). Mounting options include adjustable brackets, yokes and extruded mounting arms.

Suggested Diamond White lamp wattages: 400, 575, 750, or 1000 watts.

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**Energy Saving Options:** Add a photocell for automatic dawn to dusk control with no timers to worry about or reset. Depending on the application, a 320 watt Diamond White lamp can often be substituted for an existing 400 watt metal halide fixture, or a 750 watt for a traditional 1000 watt, yielding an immediate decrease in energy costs of up to 25%.

Complete specifications are available on our website, www.qssi.com

Meets ARRA Buy American requirements. Made in USA with American and imported parts.
GARAGE & CANOPY LIGHTING

LARGE VANDAL RESISTANT FIXTURE (VN42)
Applications: Parking Garages, Rest Areas, Gas Stations, Car Washes, Apartment Complexes, Public Restrooms, Covered Walkways, Entryway Lighting

This vandal-resistant fixture features a polycarbonate prismatic lens with UV inhibitors and a rugged die-cast aluminum housing for long-lasting dependability. Ideal for ceiling mounted lighting requirements in industrial, commercial, and multi-family environments. Photocell adaptable for automatic dawn to dusk operation.

Suggested Diamond White lamp wattages: 70, 100, 150 or 200 watts.

VANDAL RESISTANT GARAGE LIGHTER (VNGL40)
Applications: Parking Garages, Rest Areas, Gas Stations, Car Washes, Covered Walkways, Tunnels

Our Garage Lighter features a vandal-resistant polycarbonate prismatic drop lens with UV inhibitors and a rugged die-cast aluminum housing for long-lasting dependability. Ideal for ceiling mounted lighting requirements in garages, car washes, and gas station applications. Photocell adaptable for automatic dawn to dusk operation.

Suggested Diamond White lamp wattages: 70, 100 or 150 watts.

DELUXE GARAGE LIGHTER (VNGL30)
Applications: Parking Garages, Rest Areas, Gas Stations, Car Washes, Public Restrooms, Covered Walkways, Entryway Lighting

The Deluxe Garage Lighter is vandal-resistant with a polycarbonate prismatic lens with UV inhibitors and a rugged die-cast aluminum housing. The upper reflector segment can be removed to provide a pleasing uplight which eliminates the "cave effect" in parking garages and enclosed spaces. Features an Easy-Hang bracket that allows one-person installation.

Suggested Diamond White lamp wattages: 70, 100 or 150 watts.

HIGH & LOW BAY LIGHTING

THERMALUX HIGH BAY WITH 22” ACRYLIC REFRACTOR (HB41)
Applications: High Ceiling Applications, 30’ and above, Retail and Wholesale In-Store General Lighting, Warehouse and Factory Lighting, Gymnasiums and Auditoriums

The Thermalux High Bay has been engineered with external heat sinks for thermal management of electronic ballasts to provide optimum operating temperatures. The 22” acrylic refractor allows maximum light output while washing the ceiling with light to make the space below more inviting.

Suggested Diamond White lamp wattages: 250, 320 or 400 watts.

THERMALUX LOW BAY WITH 16” ALUMINUM REFLECTOR (LB40)
Applications: Low Ceiling Applications, 15 to 30’, Retail and Wholesale In-Store General Lighting, Maintenance Areas

Our Thermalux High Bay can be used in Low Bay applications too. Featuring a 16” aluminum reflector with clear glass lens, it also provides the same thermal management of electronic ballasts. The aluminum reflector directs the maximum light output towards the ground and work and display surfaces.

Suggested Diamond White lamp wattages: 250, 320 or 400 watts.

HIGH BAY WITH 22” ACRYLIC REFRACCTOR
Applications: High Ceiling Applications, 30’ and above, Retail and Wholesale In-Store General Lighting, Warehouse and Factory Lighting, Gymnasiums and Auditoriums

The acrylic refractor allows maximum light output while washing the ceiling with light for a more inviting space. Choice of models for most applications.

Suggested Diamond White lamp wattages:
HB11: 250, 320 or 400 watts
HB51: 575, 750 or 1000 watts

Complete specifications are available on our website, www.qssi.com

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