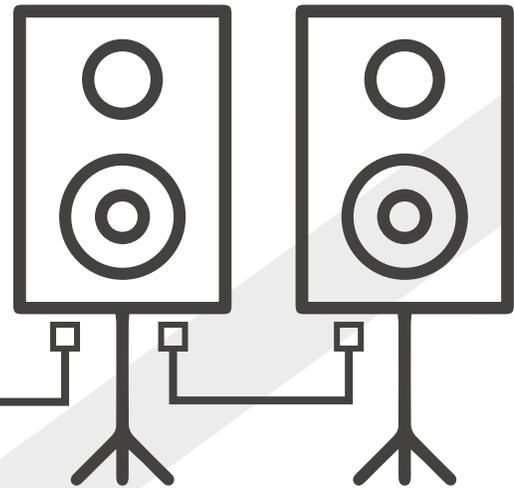


Stadium Sound Mixer



Stadium Sound System



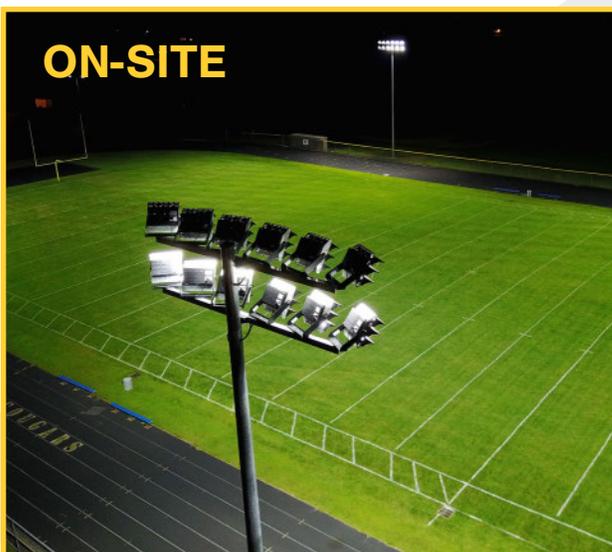
- **Unlock your entertainment venue with audio light shows**
- **All in one system (Lighting Control, Music + Lighting Entertainment)**
- **Factory Commissioned + Supported**
- **Retrofit existing systems with minimal disruption**



- System status + control from anywhere
- Compatible with any connected device with a browser
- Secure login access
- Great feature for coaches, facility managers + league directors

\*Subscription required

## REMOTE LIGHTING CONTROL



OR





- Simple power and controls distribution to LED fixtures
- Reliable and flexible antenna for wireless controls communication
- Simplified flying-lead power connections

- Lockable weatherproof enclosure
- New installation OR retrofit ready
- Compatible with existing DMX512 systems



- Timed lighting control for public use facilities
- Flexible set timer with a 2-minute dim warning
- Single button for intuitive use
- Outdoor + weatherproof enclosure
- Pole or wall mounting options

- Remote tech support directly from the factory engineering team
- Troubleshooting & system status
- Lighting control programming updates
- Assistance with system expansion
- After-hours support



## Ordering Your WILLsport® Lighting Controls System

Ready to enhance your LED lighting system with the addition of wireless controls? Follow these simple steps to kick start your project:

### To Place Your Order

Contact your WILL sales rep, and determine your factory-commissioned controls functions. Our recommended functions include:



Preset Lighting Configurations

On/Off - 0%-100% Dimmer (Main Field)

Preset Entertainment Light Shows

On/Off - 0%-100% Dimmer (Side Field)

Controls can be customized to meet the specific needs of your project.

### After Placing Your Order

After the order is placed and your light fixtures are in production, our expert team will schedule a controls configuration call to discuss and confirm the finer details of your controls system.

#### During this call, you will:

- Review your controls program with the expert team at WILL.
- Discuss the recommended configuration for your site (provided in advance by WILL)
- Learn more about the easy-to-operate user interface.
- Talk through all special requirements for your project.
- Get answers to any questions you may have!

The approved controls configuration will then be factory-commissioned into the production of your lighting system prior to shipment. Your system will be plug-and-play ready upon arrival.



**Easy Installation.  
Expert Support.**

WILL's USA-based production, engineering, and tech support teams have created a simplified, plug-and-play installation process. If any questions or issues do arise, rest assured that the WILL team has you covered with factory-direct technical support.

## WillSport® PRODUCT FAMILY

Proudly engineered and manufactured in Wisconsin, USA – our WillSport® family of LED sports lighting systems combines 50 years of manufacturing expertise, premium components, top-notch midwestern workmanship, and cutting-edge lighting and controls technology. From hometown ball fields to professional sports complexes to infrastructure and transportation applications, WillSport® series products are precision-engineered to deliver premium lighting, power management, and entertainment – all while backed by WILL's unmatched design, engineering, and project support capabilities.

■ Output options up to 115,000 lumens

■ Proprietary heat sink design with thermally isolated LED modules resulting in calculated L70 LED life over 200,000 hours

■ Wireless control options including entertainment, RGB, dimming, zones, and schedules

■ Premium high-efficiency Chip-on-Board (COB) LEDs and silicone optics that will not crack, fade, or discolor with age

■ Rugged aluminum chassis construction with integrated GlareKiller system

■ Easy driver and controller access

■ Pre-aimed adjustable mount according to factory lighting design

■ Power cord options for AC and DC configurations

■ Remote power-control industrial cabinet upgrades

■ Labeled drivers and terminal blocks for easy install and service

## WillSport® KBX + RPCX

# INDOOR / OUTDOOR SPORTS LED LIGHTING



# WILL

WISCONSIN LIGHTING LAB®

# WiLLsport® KBX LED LIGHTING W/ OPTIONAL RPCX REMOTE PWR-CTL SYSTEM

Catalog # \_\_\_\_\_

Project \_\_\_\_\_

Comments \_\_\_\_\_



**KB8**  
(Standard Black)

**KB6**  
(Custom Color Upgrade)

**KB4**  
(Custom Color Upgrade)

## Highlights

- Designed, engineered, and manufactured in Wisconsin, USA from premium domestic and imported components
- IES files, photometric reports, and lighting simulations available from factory design team
- Output options up to 115,000 lumens
- Easy driver and LED module access for technology upgrades and maintenance
- Remote power-control industrial cabinet options from factory
- Wireless control options including entertainment, RGB, dimming, zones, and schedules
- Pre-aimed adjustable mount according to factory lighting design
- Rugged aluminum chassis construction with integrated GlareKiller system

## Applications

- Outdoor sports and entertainment facilities
- Indoor sports arenas and venues
- Retrofit and new installs
- Hometown ball fields
- Professional sports complexes
- General high-output flood and area lighting
- Airports, military, and infrastructure projects

## Construction & Finish (Light Fixture)

- Rugged aluminum chassis with excellent heat/impact resistance and hinged electrical access
- Proprietary anodized heat sink design with thermally isolated LED modules resulting in calculated L70 LED life over 200,000 hours
- Standard powder coat facilities are UL1332 (DTV2) certified for application of organic finish coatings for outdoor enclosures
- Anodized light engine plate and heat sinks meet MIL-A-8625 Type II (Class 1 & 2) standards and are RoHS, REACH, ELV, and WEEE compliant
- High-grade stainless steel hardware for superior strength and corrosion resistance
- Driver components are fully encased in potting material for moisture and vibration resistance

## Construction & Finish (Optional Remote PWR-CTL)

- Bottom cabinet(s): Aluminum industrial power-control cabinet with NEMA 3R rating
- Top distribution hub(s): Polycarbonate enclosure with NEMA 1, 2, 4, 4X, and IP66 rating
- Small, medium, large, and custom cabinet configurations available
- Standard powder coat facilities are UL1332 (DTV2) certified for application of organic finish coatings for outdoor enclosures
- High-grade stainless steel hardware for superior strength and corrosion resistance
- See drawings below for additional component and wiring details

## Compliance & Warranty

- ETL Certification for UL STD 1598 & CSA STD C22.2 # 250.0 for dry/damp/wet locations
- Remote power-control: pending
- Meets Buy American Act requirements
- Standard 5-year limited warranty with extended factory warranties available

## Light Engine & Electrical

- Premium high-efficiency Chip-on-Board (COB) LEDs wired and bonded directly to circuit board to deliver compact lumen density and added reliability
- Self-sealing optical assembly constructed of optical-grade silicone with 93% typical lighting transmittance
- -40°C to +50°C ambient operating temperature options
- Standard AC input voltage of 120-277V 50/60 Hz; up to 480V available
- Isolated 0-10V dim-to-off with standby power  $\leq 1.5W$  (standard) and PWM/3-timer-modes dimmable (optional)
- Power factor of 0.90 min
- Total harmonic distortion of 20% max
- Drivers include integral input Surge Protection of Differential Mode 6kV, Common Mode 10kV per EN 61000-4-5
- KB4&6: Thermally protected secondary 20kA surge suppression (optional)
- KB8: Thermally protected secondary 10kA surge suppression (optional)
- Always-on auxiliary power: 12VDC, 200mA
- Local specifying engineer recommended for product selection and local compliance
- Licensed electrician required for installation

## Power & Control Options

- RGB color mixing and DMX integrations
- Dynamic scene entertainment packages
- Synapse® wireless system for large-scale control of zones, dimming, schedules, and sensors
- Wired and wireless configurations available
- Turnkey factory commissioning with on site support options

## Light Poles & Arms

- WiLL offers one of the most comprehensive light pole, bracket, and arm catalogs in the industry
- Aluminum, steel, fiberglass, and concrete materials
- Custom fabrication, finishing, and accessories available
- Dedicated light pole application support team

**EPA Chart**

| Base Model | 0° Tilt | 10° Down Tilt | 20° Down Tilt | 25° Down Tilt | 15° Up Tilt | 25° Up Tilt |
|------------|---------|---------------|---------------|---------------|-------------|-------------|
| WS-KB4     | 1.39    | 1.39          | 1.39          | 1.39          | 1.39        | 1.46        |
| WS-KB6     | 1.43    | 1.39          | 1.39          | 1.57          | 1.7         | 2.1         |
| WS-KB8     | 1.85    | 1.54          | 1.69          | 2.06          | 2.26        | 2.75        |

**Specifications & Typical Lumen Output**

**Full White**

| Base Model | Fixture Weight (Onboard Drivers) (lb) | Fixture Weight (Remote Drivers) (lb) | System Watts (W) | Engine Qty | Drive Current (A) | Lumens  | lm/W |
|------------|---------------------------------------|--------------------------------------|------------------|------------|-------------------|---------|------|
| WS-KB4-470 | 38                                    | 32                                   | 442              | 4          | 2.0               | 57,700  | 131  |
| WS-KB6-630 | 49                                    | 41                                   | 628              | 6          | 1.9               | 85,000  | 135  |
| WS-KB8-940 | 63                                    | 51                                   | 884              | 8          | 2.0               | 115,000 | 130  |

**Full RGB Tuning**

| Base Model | Fixture Weight (Onboard Drivers) (lb) | Fixture Weight (Remote Drivers) (lb) | System Watts (W) | Engine Qty | Drive Current (A) | Max RED Estimate (629nm typ.) |      | Max GREEN Estimate (530nm typ.) |      | Max BLUE Estimate (475nm typ.) |      |
|------------|---------------------------------------|--------------------------------------|------------------|------------|-------------------|-------------------------------|------|---------------------------------|------|--------------------------------|------|
|            |                                       |                                      |                  |            |                   | Lumens                        | lm/W | Lumens                          | lm/W | Lumens                         | lm/W |
| WS-KB4-250 | 38                                    | 32                                   | 246              | 4          | 0.5               | 5,768                         | 64   | 8,060                           | 106  | 3,392                          | 42   |
| WS-KB6-370 | 49                                    | 41                                   | 370              | 6          | 0.5               | 8,652                         | 64   | 12,090                          | 106  | 5,088                          | 42   |
| WS-KB8-500 | 63                                    | 51                                   | 493              | 8          | 0.5               | 11,536                        | 64   | 16,120                          | 106  | 6,784                          | 42   |

**White + RGB Combo Tuning**

| Base Model | Fixture Weight (Onboard Drivers) (lb) | Fixture Weight (Remote Drivers) (lb) | System Watts (W) | Engine Qty (WHITE) | Engine Qty (RGB) | Max RED Estimate (629nm typ.) |      | Max GREEN Estimate (530nm typ.) |      | Max BLUE Estimate (475nm typ.) |      | Max WHITE Estimate |      |
|------------|---------------------------------------|--------------------------------------|------------------|--------------------|------------------|-------------------------------|------|---------------------------------|------|--------------------------------|------|--------------------|------|
|            |                                       |                                      |                  |                    |                  | Lumens                        | lm/W | Lumens                          | lm/W | Lumens                         | lm/W | Lumens             | lm/W |
| WS-KB4-360 | 38                                    | 32                                   | 358              | 2                  | 2                | 2,884                         | 64   | 4,030                           | 106  | 1,696                          | 42   | 28,850             | 131  |
| WS-KB6-520 | 49                                    | 41                                   | 519              | 3                  | 3                | 4,326                         | 64   | 6,045                           | 106  | 2,544                          | 42   | 42,500             | 135  |
| WS-KB8-715 | 63                                    | 51                                   | 716              | 4                  | 4                | 5,768                         | 64   | 8,060                           | 106  | 3,392                          | 42   | 57,500             | 130  |

Note: Typical lumen values are based on lab and simulated photometric tests. Actual performance may differ resulting from optical configuration, color temp and CRI, glare management, owner environment, and application.  
 Note: Data based on 25°C ambient operating temperature.

**Lumen Multiplier & Maintenance (Full WHITE)**

| Ambient Temperature | Lumen Multiplier | TM-21 Lumen Maintenance (50,000 Hours) | Calculated L90 (hrs) | Calculated L70 (hrs) |
|---------------------|------------------|--|----------------------|----------------------|
| 0°C / 32°F          | 1.04             | 91.71                                  | 60,000               | 206,000              |
| 10°C / 50°F         | 1.02             | 91.71                                  | 60,000               | 206,000              |
| 25° C / 77°F        | 1.00             | 91.71                                  | 60,000               | 206,000              |
| 30°C / 86°F         | 0.99             | 91.71                                  | 60,000               | 206,000              |
| 35°C / 95°F         | 0.99             | 90.95                                  | 55,000               | 188,000              |
| 40° C / 104°F       | 0.98             | 90.12                                  | 50,000               | 171,000              |
| 45° C / 113°F       | 0.96             | 89.26                                  | 46,000               | 157,000              |
| 50°C / 122°F        | 0.96             | 88.35                                  | 42,000               | 144,000              |

Note: Values calculated according to IESNA TM-21-11 methodology.

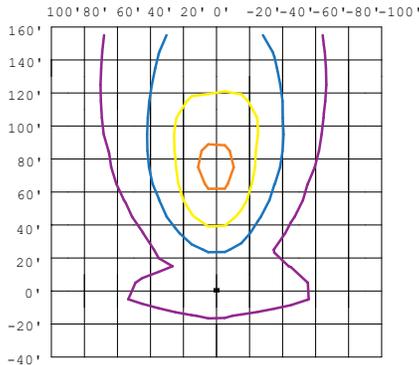
| Voltage                  | Current (A) |      |      |
|--------------------------|-------------|------|------|
|                          | 442W        | 628W | 884W |
| Input Current @ 120V (A) | 3.68        | 5.23 | 7.37 |
| Input Current @ 208V (A) | 2.13        | 3.02 | 4.25 |
| Input Current @ 240V (A) | 1.84        | 2.62 | 3.68 |
| Input Current @ 277V (A) | 1.60        | 2.27 | 3.19 |
| Input Current @ 347V (A) | 1.27        | 1.81 | 2.55 |
| Input Current @ 480V (A) | 0.92        | 1.31 | 1.84 |

**Photometric Diagrams**

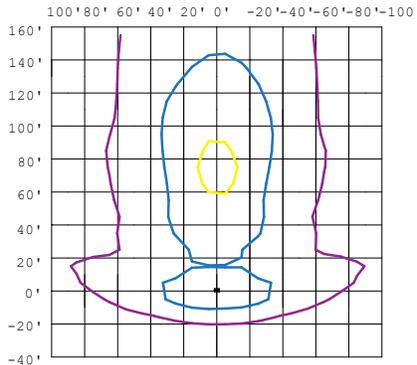
**LEGEND**

0.5 fc 2.0 fc 5.0 fc 10 fc 25 fc

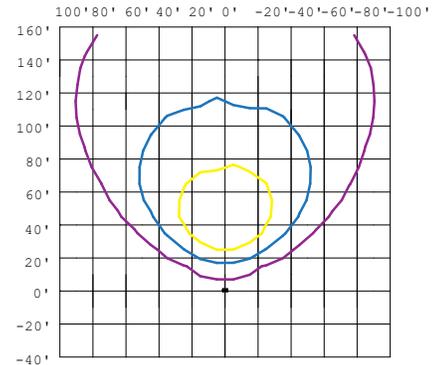
Simulated per IESNA LM-63-1995



630W KB6  
(5N) 25° Narrow Sport  
50' Height @ 0° Up Tilt

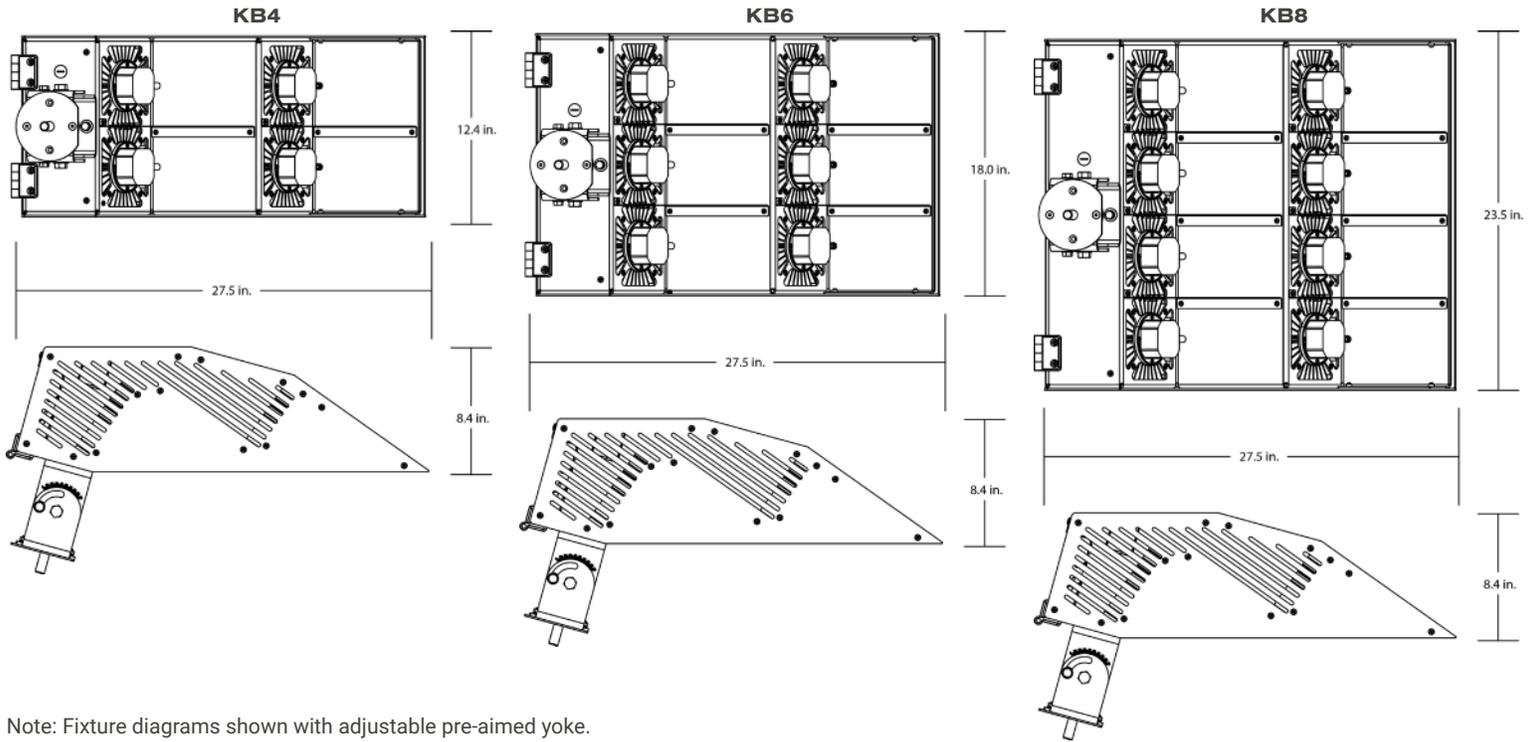


630W KB6  
(45) 45° Narrow Sport  
50' Height @ 0° Up Tilt

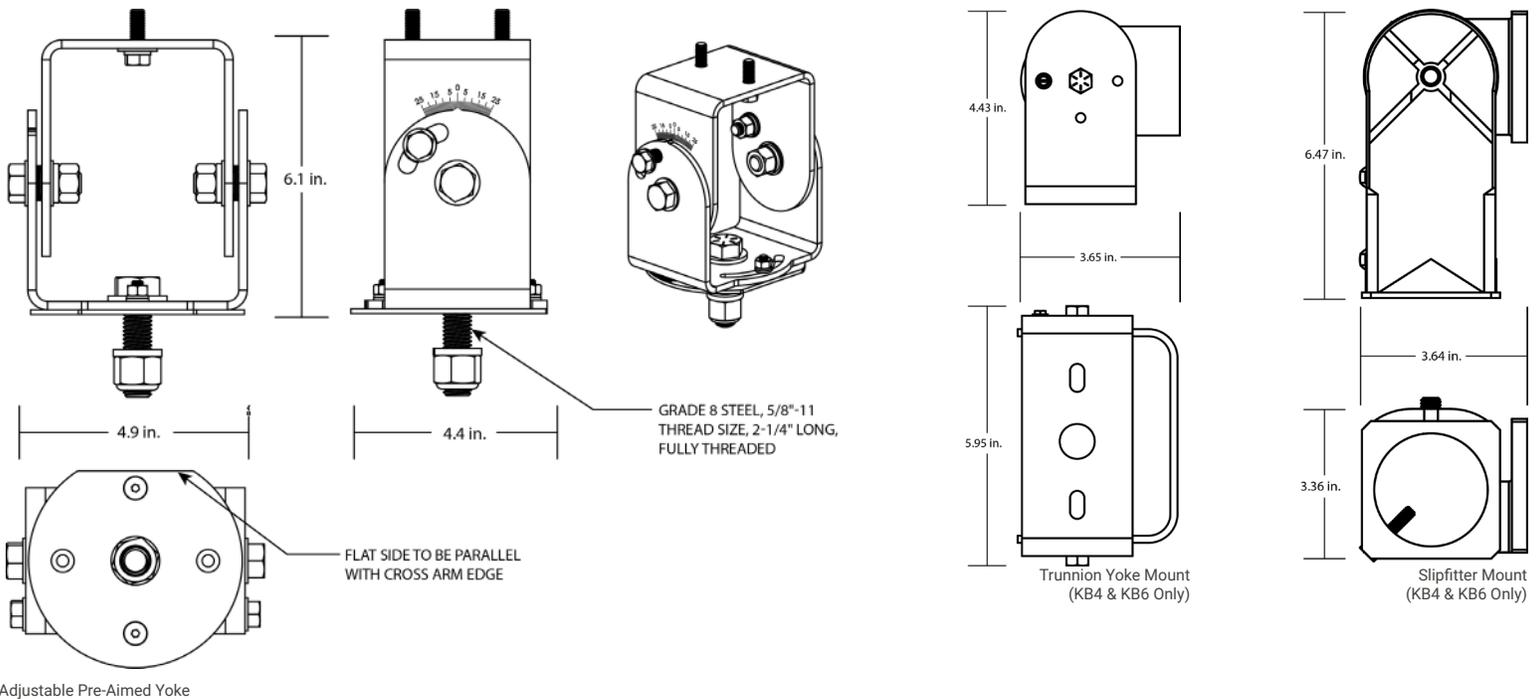


630W KB6  
(70) 70° Medium Sport  
50' Height @ 0° Up Tilt

■ Dimensional Diagrams (Light Fixture)



Note: Fixture diagrams shown with adjustable pre-aimed yoke.



Adjustable Pre-Aimed Yoke

**Ordering Information (Light Fixture)**

Ex: WS-KB6-630-57-RP-5N-BC-APYH-WHP15NP-SS

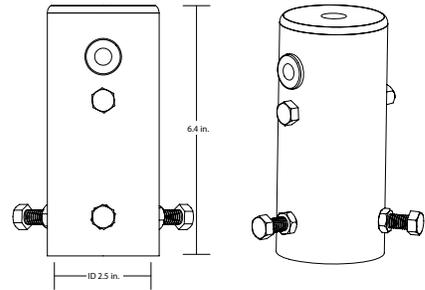
| Product Family  | Design                                    | Performance (Watts = Typical Lumens) | Color Temp          | Voltage                   | Distribution           | Finish Color                                 |
|-----------------|---|--------------------------------------|---------------------|---------------------------|------------------------|--|
| WS = WILLsport® | KB4 = 4 Engine Chassis (Outdoor Wet)      | 470 = 60,000                         | 57 = 5700K, 70 CRI  | RP = Remote Power/Drivers | 5N = 25° Narrow Sport  | BK = Black Anodized (Standard)               |
|                 | KB6 = 6 Engine Chassis (Outdoor Wet)      | 630 = 85,000                         | 578 = 5700K, 80 CRI | MV = 120-277V             | 5N70 = 25°/70°Combo    | SV = Silver Anodized (Custom)                |
|                 | KB8 = 8 Engine Chassis (Outdoor Wet)      | 940 = 115,000                        | 50 = 5000K, 70 CRI  | HV = 277-480V             | 45 = 45° Medium Sport  | BC = 2-Color Combo Branding Upgrade (Custom) |
|                 | KB4A = 4 Engine Chassis (Indoor Dry/Damp) | 360 = x2 WHITE + x2 RGB              | 40 = 4000K, 70 CRI  | CV = Custom               | 70 = 70° Medium Sport  | RAL = Custom RAL Match (Custom)              |
|                 | KB6A = 6 Engine Chassis (Indoor Dry/Damp) | 520 = x3 WHITE + x3 RGB              | RGB = All RGB       |                           | 5N45 = 25°/45°Combo    |  |
|                 | KB8A = 8 Engine Chassis (Indoor Dry/Damp) | 715 = x4 WHITE + x4 RGB              | CT = Custom         |                           | 5M = 100° Medium Sport |  |
|                 |   | 250 = x4 RGB                         |                     |                           | CD = Custom            |  |
|                 |   | 370 = x6 RGB                         |                     |                           |                        |  |
|                 |   | 500 = x8 RGB                         |                     |                           |                        |  |
|                 |   | CW = Custom                          |                     |                           |                        |  |

| Options & Accessories (Add as Suffix)                           |  |   |   |
|---|--|---|---|
| Mounting  | Option   | Option  | Accessories   |
| APY = Adjustable PreAimed Yoke                                  | WHP3NP = 2' Cord w/o Plug, Stripped Pigtail  | SRG27720 = 20kA Surge Suppressor (Field Replaceable), 120-277V [Onboard KB4&6 Only] | PTT = 2.38" OD Tenon Adapter  |
| APYH = Adjustable PreAimed Yoke (Hanging Config Below Crossarm) | WHP7NP = 6' Cord w/o Plug, Stripped Pigtail  | SRG48020 = 20kA Surge Suppressor (Field Replaceable), 347-480V [Onboard KB4&6 Only] | EXT = Extension Plate For APY (Common For Back-To-Back Crossarm Apps)                 |
| SF = 2.38" OD Slipfitter (KB4 & KB6 Only)                       | WHP11NP = 10' Cord w/o Plug, Stripped Pigtail  | SRG27710 = 10kA Surge Suppressor (Field Replaceable), 120-277V [Onboard KB8 Only]   | STUDL = 5/8-11x6", Grade 8, Zinc Yellow-Chromate Plated, Nut, Washer, and Lock Washer |
| TR = Trunnion Yoke (KB4 & KB6 Only)                             | WHP15NP = 14' Cord w/o Plug, Stripped Pigtail  | SRG48010 = 10kA Surge Suppressor (Field Replaceable), 347-480V [Onboard KB8 Only]   | PDH = Pole Top Power Distribution Hub   |
| CM = Custom   | NAT = Natatorium Application (Wet Rated, 316 Stainless Hardware, Anti-Galvanic Corrosion Paste, IP67 Silicone LED Module, Anodized Aluminum Chassis) |   | WGKB-4/6/8 = KB4 Wireguard (Common For Uplights, Wattage Specific)                    |
|   |  |   | SS-4/6/8 = Spill Sponge Louvers, Added Glare Management (Wattage Specific)            |
|   |  |   | GC-4/6/8 = Glare Cup Beam Control (Wattage Specific)                                  |
|   |  |   | CH = Safety Chain (Common for Arenas)   |
|   |  |   | GFX = Wireless DMX Lighting Control System (Consult Factory)                          |
|   |  |   | GFM = Wireless Mesh Lighting Control System (Consult Factory)                         |

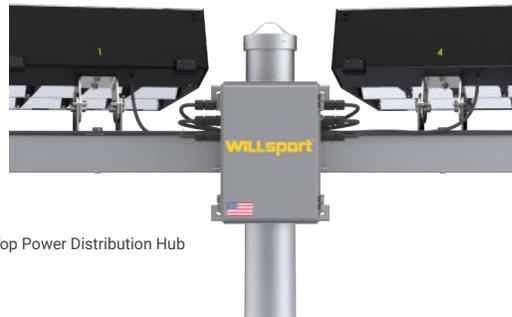
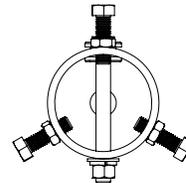
Note: Custom products, configurations, options, and accessories available from factory.



Tenon Adapter



WHITE/RGB Shown



Pole Top Power Distribution Hub

**Ordering Information (Optional Remote PWR-CTL)**

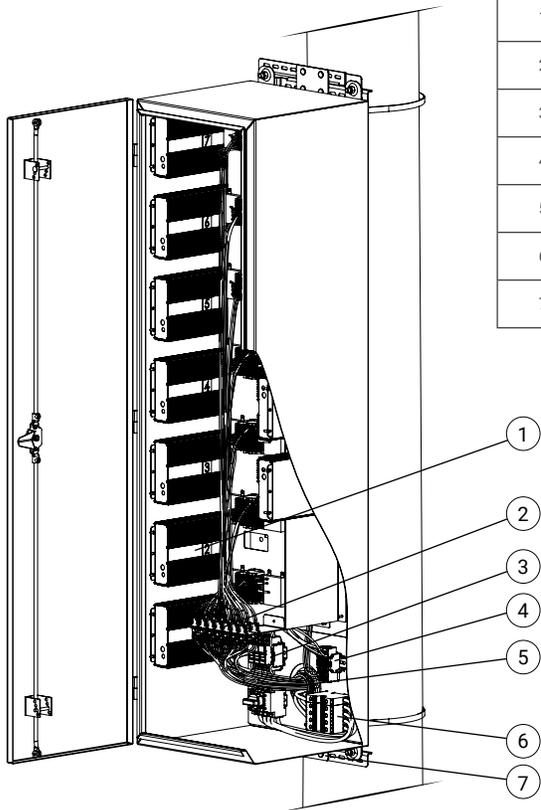
Ex: WS-RPCN-6W-8-MV-LG-PBS-GFX

| Product Family  | Design   | Fixture Model | Fixture Count (Per Pole) |    | Voltage       | Finish Color                                 |
|-----------------|--|---------------|--------------------------|----|---------------|--|
| WS = WillSport® | RPCN = Remote Power-Control System (New Pole Install)      | 4W = KB4-470  | 1                        | 2  | MV = 120-277V | LG = Light Gray (Standard)                   |
|                 | RPCE = Remote Power-Control System (Existing Pole Install) | 6W = KB6-630  | 3                        | 4  | HV = 277-480V | BC = 2-Color Combo Branding Upgrade (Custom) |
|                 |  | 8W = KB8-940  | 5                        | 6  | CV = Custom   | RAL = Custom RAL Match (Custom)              |
|                 |  | CW = Custom   | 7                        | 8  |               |  |
|                 |  |               | 9                        | 10 |               |  |
|                 |  |               | 11                       | 12 |               |  |
|                 |  |               | 13                       | 14 |               |  |
|                 |  |               | 15                       | 16 |               |  |
|                 |  |               | 17                       | 18 |               |  |
|                 |  |               | 19                       | 20 |               |  |
|                 |  |               | CN = Custom              |    |               |  |

| Options & Accessories (Add as Suffix) |   |
|---------------------------------------|---|
| Mounting                              | Option  |
| PBS = Pole Banding Straps             | GFX = Wireless DMX Lighting Control System (Consult Factory)  |
| CM = Custom                           | GFM = Wireless Mesh Lighting Control System (Consult Factory) |

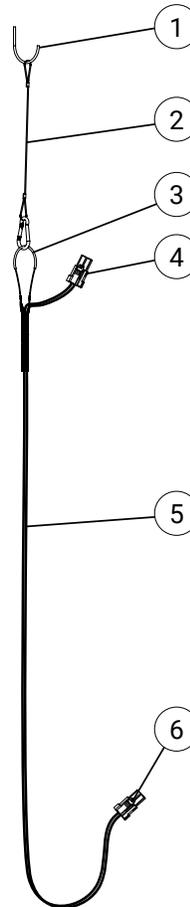
Note: Custom products, configurations, options, and accessories available from factory.

Example Remote Power-Control Cabinet (Exact Specifications Will Vary)



| ITEM NO. | COMPONENT                  |
|----------|----------------------------|
| 1        | LED DRIVER                 |
| 2        | WIRING HARNESS CONNECTIONS |
| 3        | IN-LINE FUSES              |
| 4        | TYPE 2 SPD (NOT PICTURED)  |
| 5        | COUPLING (WIRE ENTRANCE)   |
| 6        | TERMINAL BLOCKS            |
| 7        | BAND-WRAP BRACKET          |

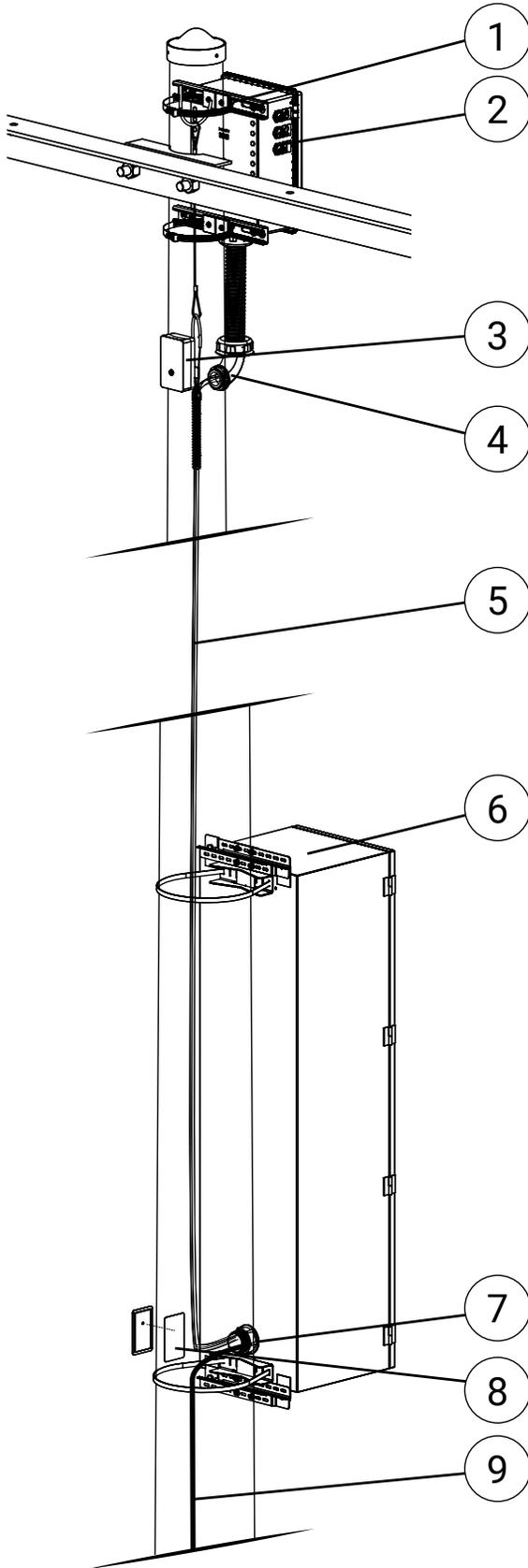
Standard Wiring Harness (Exact Specifications Will Vary)



| ITEM NO. | COMPONENT                    |
|----------|------------------------------|
| 1        | STRAIN-RELIEF HOOK (ON POLE) |
| 2        | STRAIN-RELIEF CABLE          |
| 3        | STRAIN-RELIEF CONNECTOR      |
| 4        | QUICK-CONNECT PLUG (UPPER)   |
| 5        | WIRING HARNESS               |
| 6        | QUICK-CONNECT PLUG (LOWER)   |

**Remote PWR-CTL Detail (Optional)**

Example Assembly  
(Exact Specifications May Vary)



**Upper Power Hub & Lower Power-Control Cabinets**

- Top hub: polycarbonate enclosure w/ NEMA 1, 2, 4, 4X, and IP66 rating
- Labeled connections for fixtures on cross arm(s)
- Lower aluminum industrial power-control cabinet with NEMA 3R rating
- Small, medium, large, and custom cabinet configurations available

| ITEM NO. | COMPONENT                 |
|----------|---------------------------|
| 1        | BAND-WRAP BRACKET         |
| 2        | UPPER CONNECTION PANEL    |
| 3        | ADDITIONAL HANDHOLE       |
| 4        | UPPER COUPLING            |
| 5        | WIRING HARNESS            |
| 6        | LOWER REMOTE DRIVER PANEL |
| 7        | LOWER COUPLING            |
| 8        | ADDITIONAL HANDHOLE       |
| 9        | INCOMING CONDUCTORS       |