

Kick™ – K5 Medium Scale

TYPE



FEATURES

- Integral Motion Sensor
- wiScape enabled
- IDA approved
- 20kV/10kA surge protection
- ANSI C136.41 receptacle
- IES Type II, III and IV distributions
- 3000K, 4000K, 5000K CCT
- Integral thermal protection
- 0-10V dimming ready
- IP66 optical system
- 120-277, 347 and 480VAC input
- Staggered twin mounting
- ANSI C136.31-2010 4G Rated

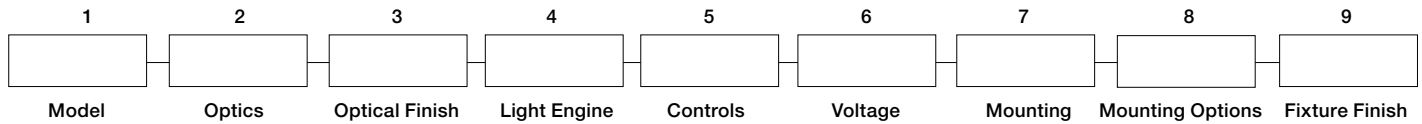


IK10



3000K and warmer CCTs only
MO-XX30 configurations only

ORDERING CODE



1. MODEL

5" wide luminaire

| | |
|-----|--------------------------|
| K51 | Single fixture |
| K52 | Two fixtures 180° apart |
| K53 | Three fixtures 90° apart |
| K54 | Four fixtures 90° apart |

2. OPTICS

Distribution Type, see "Luminaire Performance" on page 3

| | |
|----|--------------|
| T2 | IES Type II |
| T3 | IES Type III |
| T4 | IES Type IV |

3. OPTICAL FINISH

Standard white or may choose one. See "Luminaire Performance" on page 3 for detail.

| | |
|----|--|
| MO | Optics in Matte Black finish ^{DS} |
| FO | Optics in fixture finish |

4. LIGHT ENGINE

Lumen package, see "Luminaire Performance" on page 3 for detail

| | |
|-------|------------------------------|
| 12050 | 5000K CCT, CRI 70, 122 watts |
| 12040 | 4000K CCT, CRI 70, 122 watts |
| 12030 | 3000K CCT, CRI 70, 122 watts |
| 9050 | 5000K CCT, CRI 70, 87 watts |
| 9040 | 4000K CCT, CRI 70, 87 watts |
| 9030 | 3000K CCT, CRI 70, 87 watts |

560nm monochromatic amber and or custom lumen package available by request.¹

5. CONTROL

May choose one

| | |
|-------|--|
| MCPCR | 7-Position Receptacle |
| WIR | wiScape connectivity |
| WIRSC | wiScape + motion sensor |
| SCP | Motion sensor + Photocell ⁴ |

SCPREMOTE Handheld commissioning tool⁴

6. VOLTAGE

120-277VAC input standard or may choose one

| | |
|-----|--------------|
| 347 | 347VAC input |
| 480 | 480VAC input |

7. MOUNTING

Integral Pole

| | |
|-----------|-----------------------|
| PS510-188 | 10' luminaire height. |
| PS512-188 | 12' luminaire height. |
| PS514-188 | 14' luminaire height. |
| PS516-188 | 16' luminaire height. |
| PS518-188 | 18' luminaire height. |
| PS520-188 | 20' luminaire height. |

Tenon Mount

TA23 Slips over a 2 3/8" / 60mm
Ø x 4" / 102mm tall tenon

Side Mount

SMK Mounts to the side of a square pole,
K51 only

8. MOUNTING OPTIONS

Twin mount at staggered heights

Mounting holes for a fixture at 180°, K51-...PS5... only, may choose one

| | |
|------|-----------------|
| TS8 | 8' from bottom |
| TS10 | 10' from bottom |
| TS12 | 12' from bottom |
| TS14 | 14' from bottom |
| TS16 | 16' from bottom |
| TS18 | 18' from bottom |

Pole Accessories

May choose one

| | |
|-----|---------------------|
| GFI | GFCI Receptacle |
| RBC | Integral Receptacle |
| DRB | Duplex Receptacle |

9. FIXTURE FINISH

Standard Color

| | |
|-----|------------------|
| WH | Arctic White |
| BL | Black |
| BLT | Matte Black |
| DB | Dark Bronze |
| DGN | Dark Green |
| TT | Titanium |
| WDB | Weathered Bronze |
| MDB | Bronze Metallic |
| VBU | Verde Blue |
| CRT | Corten |
| MAL | Matte Aluminum |
| MG | Medium Grey |
| AGN | Antique Green |
| LG | Light Grey |

Premium Color

| | |
|--------|-------------------|
| SHK | Shamrock |
| SPP | Salt and Pepper |
| SFM | Seafoam |
| WCP | Weathered Copper |
| RAL | RAL 4 digit Color |
| CUSTOM | Custom Color |

¹ Contact factory

⁴ Handheld commissioning tool is required to separately configure or adjust any number of SCP sensors



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| | |
|-------|-------|
| JOB | _____ |
| TYPE | _____ |
| NOTES | _____ |

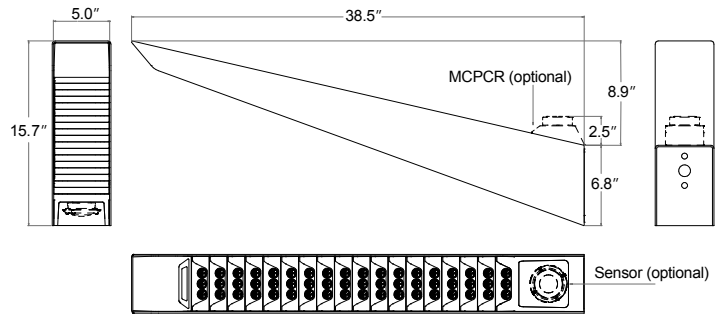
Kick™ – K5 Medium Scale

TYPE

Side Mounted Luminaire

Mounts to the side of 5"/127mm square pole.

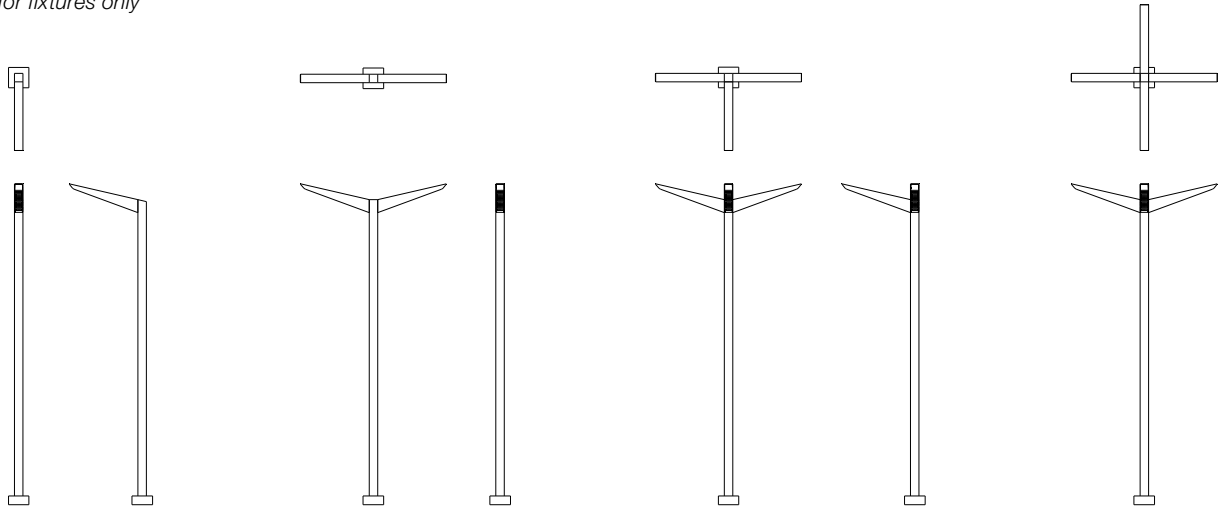
| | |
|-----------------------|--------------------|
| MODEL | K51-...-SMK |
| OVERALL HEIGHT | 15.7" / 399mm |
| OVERALL LENGTH | 38.6" / 980mm |
| OVERALL WIDTH | 5" / 127mm |
| WEIGHT | 20 lbs. |
| EPA | 1.4 |



Integral Pole Luminaire

See page 6 for height and mounting detail

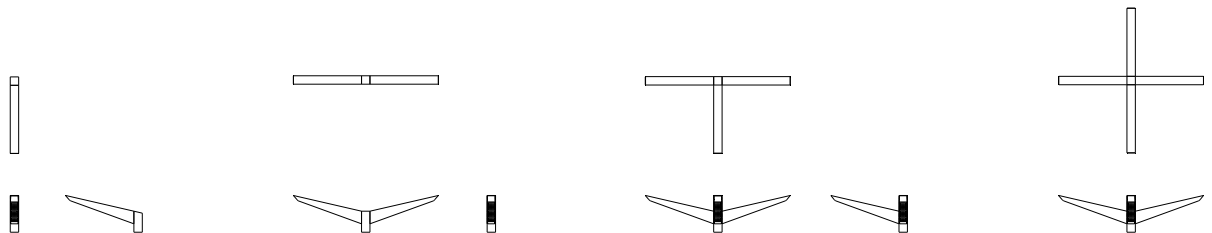
* Weight and EPA for fixtures only



| MODEL | K51-...-PS5XX-188 | K52-...-PS5XX-188 | K53-...-PS5XX-188 | K54-...-PS5XX-188 |
|-----------------------|-------------------|-------------------|-------------------|-------------------|
| OVERALL LENGTH | 43.5" / 1106mm | 15.5" / 390mm | 49" / 1238mm | 82" / 2083mm |
| OVERALL WIDTH | 15.5" / 390mm | 82" / 2083mm | 82" / 2083mm | 82" / 2083mm |
| WEIGHT | 20 lbs. | 40 lbs. | 60 lbs. | 80 lbs. |
| EPA* | 1.4 | 2.7 | 3.1 | 3.1 |

Tenon Mount Luminaire

Slips over a 2 3/8"/60mm diameter by 4"/102mm tall tenon



| MODEL | K51-...-TA23 | K52-...-TA23 | K53-...-TA23 | K54-...-TA23 |
|-----------------------|----------------|--------------|----------------|--------------|
| OVERALL HEIGHT | 19" / 483mm | 19" / 483mm | 19" / 483mm | 19" / 483mm |
| OVERALL LENGTH | 43.5" / 1106mm | 5" / 127mm | 43.5" / 1106mm | 82" / 2083mm |
| OVERALL WIDTH | 5" / 127mm | 82" / 2083mm | 82" / 2083mm | 82" / 2083mm |
| WEIGHT | 25 lbs. | 40 lbs. | 55 lbs. | 70 lbs. |
| EPA | 1.8 | 3.2 | 3.5 | 3.5 |



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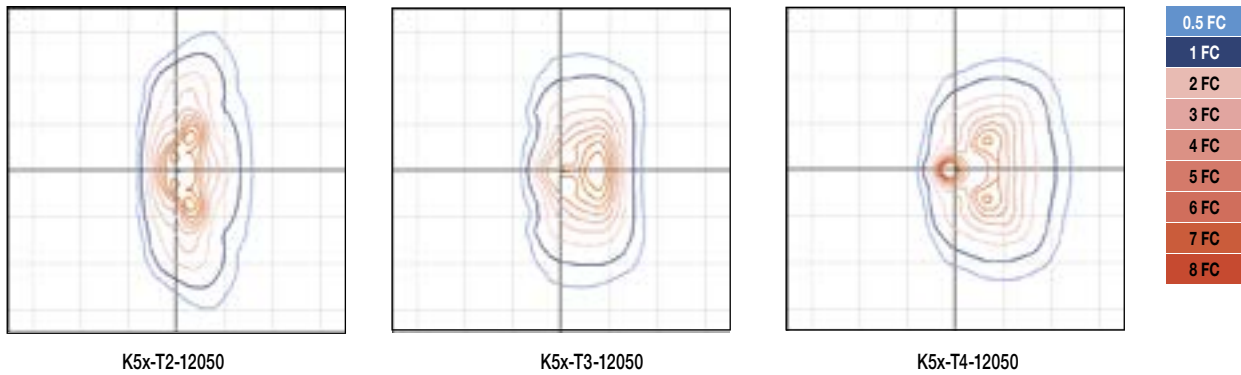
| | |
|-------|-------|
| JOB | _____ |
| TYPE | _____ |
| NOTES | _____ |

LUMINAIRE PERFORMANCE

| Configuration | | | | Ordering Code | | | | | | | | | | | | Average System Watts | | | |
|-----------------|-----------------|----------------|---------------|----------------------|-----------------|------------|-----------------------|-----------------|------------|--------------------|-----------------|------------|---|-------|------|----------------------|---|---|-----|
| Light Engine | Optical Finish | Distribution | Ordering Code | Bright White (5000K) | | | Neutral White (4000K) | | | Warm White (3000K) | | | | | | | | | |
| | | | | Delivered Lumens | Efficacy (Lm/W) | BUG Rating | Delivered Lumens | Efficacy (Lm/W) | BUG Rating | Delivered Lumens | Efficacy (Lm/W) | BUG Rating | | | | | | | |
| | | | | 12050 | | | 12040 | | | 12030 | | | | | | | | | |
| 12000 series | Standard White | Type 2 | T2 | 13369 | 109 | 3 | 3 | 3 | 13087 | 107 | 3 | 3 | 3 | 12694 | 104 | 3 | 3 | 3 | 122 |
| | | Type 3 | T3 | 13228 | 108 | 2 | 3 | 2 | 12949 | 106 | 2 | 3 | 2 | 12560 | 103 | 2 | 3 | 2 | |
| | | Type 4 | T4 | 13787 | 112 | 3 | 3 | 2 | 13496 | 110 | 2 | 3 | 2 | 13091 | 106 | 2 | 3 | 2 | |
| | Fixture Matched | Type 2 | T2-FO | 10893 | 90 | 3 | 3 | 3 | 10664 | 88 | 3 | 3 | 3 | 10344 | 84 | 3 | 3 | 3 | |
| | | Type 3 | T3-FO | 10821 | 89 | 2 | 3 | 2 | 10593 | 87 | 2 | 3 | 2 | 10275 | 84 | 2 | 3 | 2 | |
| | | Type 4 | T4-FO | 11789 | 97 | 3 | 3 | 2 | 11541 | 95 | 2 | 3 | 2 | 11194 | 91 | 2 | 3 | 2 | |
| | Matte Black | Type 2 | T2-MO | 10893 | 90 | 3 | 0 | 2 | 10664 | 88 | 3 | 0 | 2 | 10343 | 84 | 3 | 0 | 2 | |
| | | Type 3 | T3-MO | 10821 | 89 | 2 | 0 | 2 | 10593 | 87 | 2 | 0 | 2 | 10275 | 84 | 2 | 0 | 2 | |
| | | Type 4 | T4-MO | 11789 | 97 | 2 | 0 | 2 | 11541 | 95 | 2 | 0 | 2 | 11194 | 91 | 2 | 0 | 2 | |
| | 9000 series | Standard White | Type 2 | T2 | 10103 | 117 | 2 | 3 | 2 | 9895 | 114 | 2 | 3 | 2 | 9637 | 110 | 2 | 3 | |
| Type 3 | | | T3 | 9920 | 115 | 2 | 2 | 2 | 9715 | 112 | 2 | 2 | 2 | 9462 | 109 | 2 | 2 | 2 | |
| Type 4 | | | T4 | 10437 | 119 | 2 | 3 | 2 | 10223 | 117 | 2 | 3 | 2 | 9957 | 114 | 2 | 3 | 2 | |
| Fixture Matched | | Type 2 | T2-FO | 8171 | 94 | 2 | 3 | 2 | 8003 | 92 | 2 | 3 | 2 | 7794 | 90 | 2 | 3 | 2 | |
| | | Type 3 | T3-FO | 8118 | 94 | 2 | 2 | 2 | 7951 | 92 | 2 | 2 | 2 | 7744 | 89 | 2 | 2 | 2 | |
| | | Type 4 | T4-FO | 8927 | 103 | 2 | 3 | 2 | 8744 | 100 | 2 | 3 | 2 | 8516 | 98 | 2 | 3 | 2 | |
| Matte Black | | Type 2 | T2-MO | 8171 | 94 | 2 | 0 | 1 | 8003 | 92 | 2 | 0 | 1 | 7794 | 90 | 2 | 0 | 1 | |
| | | Type 3 | T3-MO | 8118 | 94 | 1 | 0 | 1 | 7951 | 92 | 1 | 0 | 1 | 7744 | 89 | 1 | 0 | 1 | |
| | | Type 4 | T4-MO | 8927 | 103 | 2 | 0 | 2 | 8744 | 101 | 2 | 0 | 2 | 8516 | 98 | 2 | 0 | 2 | |

-MO.ies files should be used for -FO configurations in application layouts.

ISOLINE TEMPLATES 14' Mounting Height

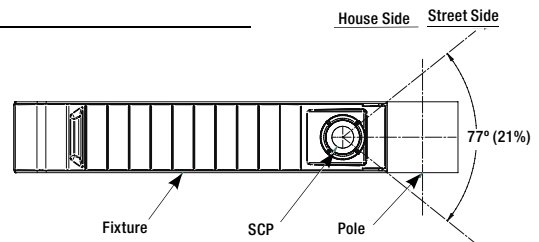


ELECTRICAL CHARACTERISTICS

| Ordering Code | LED Current (mA) | System Wattage (W) | Input | | | | Min. Power Factor | Max THD (%) | Dimming Range (V) | Source/ Sink Current (mA) | Inrush Current Peak | | | | | | | | |
|---------------|------------------|--------------------|---------|-----|-----|-----|-------------------|-------------|-------------------|---------------------------|---------------------|-----|-----|-----|-----|------------|-----|-----|-----|
| | | | Amps AC | | | | | | | | HZ | (A) | | | | T@50% (µs) | | | |
| | | | 120 | 277 | 347 | 480 | | | | | | 120 | 277 | 347 | 480 | 120 | 277 | 347 | 480 |
| 120XX | 700 | 122 | 1.0 | 0.4 | 0.4 | 0.3 | 50/60 | >0.9 | 20 | 0-10 | 1 | 44 | 131 | 48 | 127 | 190 | 400 | 140 | |
| 90XX | 500 | 87 | 0.7 | 0.3 | 0.3 | 0.2 | 50/60 | >0.9 | 20 | 0-10 | 1 | 44 | 131 | 48 | 127 | 190 | 400 | 140 | |

SENSOR DETECTION RANGE

| | | SENSOR MOUNTING HEIGHT | | | | | | | RATIO |
|----------|-------|------------------------|-----|-----|-----|-----|-----|-----|-------|
| | | 8' | 10' | 12' | 14' | 16' | 18' | 20' | |
| COVERAGE | SCP | 20' | 25' | 30' | 35' | 40' | 45' | 50' | 1:2.5 |
| DIAMETER | WIRSC | 16' | 20' | 24' | 28' | 32' | 36' | 40' | 1:2 |



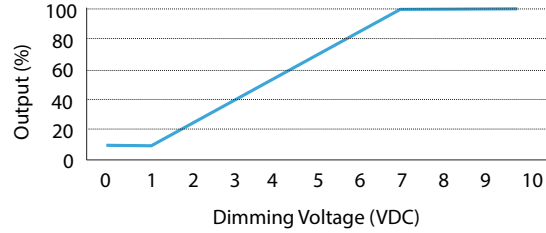
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JOB _____
TYPE _____
NOTES _____

TM-21 LIFETIME CALCULATION

| Ambient Environment °C | Projected Lumen Maintenance (Khrs) | | | | | Reported L70 |
|------------------------|------------------------------------|-----|------------|-----|-----|--------------|
| | 25 | 50 | 60 (TM-21) | 75 | 100 | |
| 25 | 98% | 97% | 96% | 95% | 94% | >60Khrs. |
| 40 | 97% | 96% | 95% | 94% | 93% | |

DIMMING CURVE



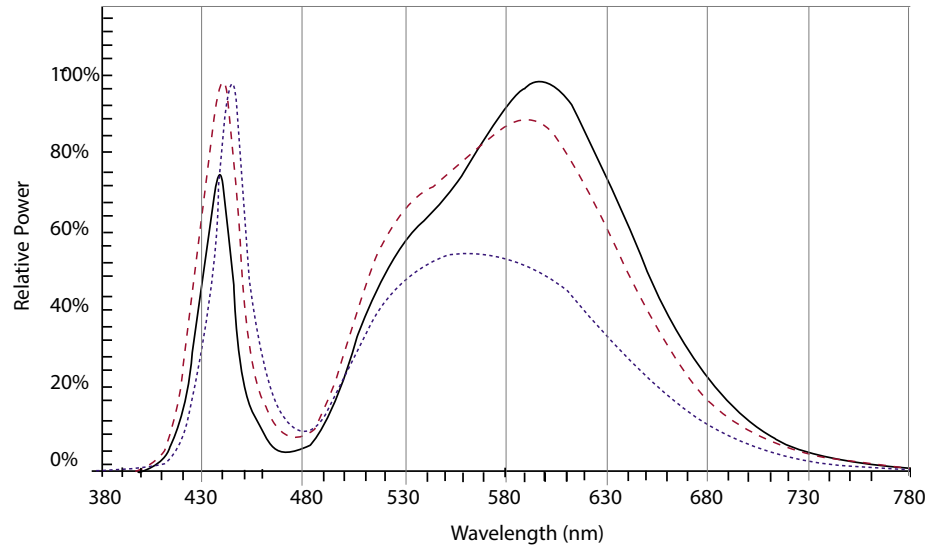
Note: Fixture does not dim to off, fixture dims to 10% minimum output.

COLOR CHARACTERISTICS

| Value | Ordering Code | | |
|--------|---------------|--------|--------|
| | XX30 | XX40 | XX50 |
| Rf | 69 | 69 | 71 |
| Rg | 99 | 99 | 98 |
| CCT(K) | 3122 | 3852 | 5020 |
| Duv | 0.001 | 0.0004 | 0.0005 |
| CIE Ra | 74 | 73 | 74 |

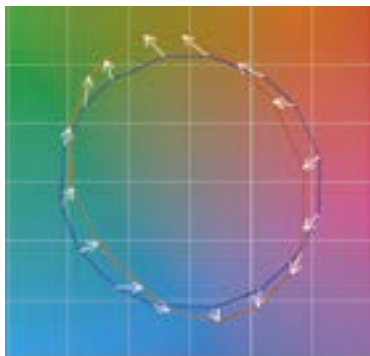
Note: TM-30 reported at the discrete LED level, not fixture level.

SPECTRAL POWER DISTRIBUTION COMPARISON



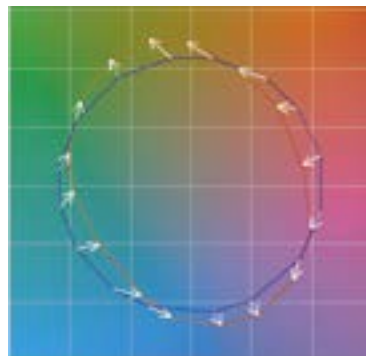
— XX30
 - - - XX40
 . . . XX50

COLOR VECTOR GRAPHIC



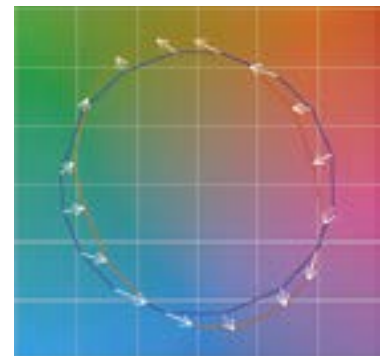
— Reference Illuminant
 — Test Source
 — Series1
 — Series2
 — Series3
 — Series4
 — Series5
 — Series6
 — Series7
 — Series8
 — Series9
 — Series10

XX30



— Reference Illuminant
 — Test Source
 — Series1
 — Series2
 — Series3
 — Series4
 — Series5
 — Series6
 — Series7
 — Series8
 — Series9
 — Series10

XX40



— Reference Illuminant
 — Test Source
 — Series1
 — Series2
 — Series3
 — Series4
 — Series5
 — Series6
 — Series7
 — Series8
 — Series9
 — Series10

XX50

SPECIFICATIONS

HOUSING

- Housing shroud shall be of fabricated 5052-H32 aluminum alloy with a rear mounting interface that shall be of fabricated 304 stainless steel.
- Housing mounting interface shall have a stamped silicone gasket.
- Luminaire housing shall be free of any visible heat fins, hardware or fasteners.
- Bracketry and hardware shall be stainless steel.

OPTICAL ARRAY

- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features.
- Optical lenses shall be clear injection molded PMMA acrylic.
- Each MCPCB and optic shall be sealed to an extruded 6063-T6 aluminum alloy heat spreader and sealed with a continuous one piece injection molded silicone rubber gasket. IP66.
- Patent Pending design of optical array shall independently shield each LED optic across the length of the aperture.
- Optical surfaces shall be painted white unless the optional fixture finish (FO) or matte black finish (MO) is selected.
- Optional matte black finish optics (MO) are required to meet UO classification with zero percent uplight.
- Optional fixture finish optical surfaces (FO) shall not exceed BUG ratings of the standard white finish and shall be greater than or equal to the delivered lumens of the optional matte black optical surface finish (MO).

ELECTRICAL

- Drivers shall be in direct contact with the aluminum housing across the entire surface area of the widest face for maximum thermal transfer.
- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series.
- Drivers shall be U.L. recognized.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV.
- Luminaire shall be capable of operating at

100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.

- Luminaires not configured with a control system or ANSI C136 receptacle option shall be provided with 0-10 purple and gray dimming leads.



CONTROLS

- Wireless enabled fixtures shall support bi-directional radio frequency (RF) communications utilizing IEEE 802.15.4 operating in the 2.4GHz ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.
- Motion Sensor shall use passive infrared (PIR) sensing technology that reacts to changes in infrared energy (moving body heat) within the coverage area. Careful consideration must be given to obstructions that may block the sensor's line of sight.
- Factory default settings for SCP option shall be:
 - High mode: 10V
 - Low mode: 1V
 - Ramp-up rate: disabled
 - Fade-down rate: disabled
 - Photocell: Off
 - Sensitivity: Full
 - Time Delay: Fade to low: 5 minutes
 - Time Delay: Fade to off: 1 hour

MOUNTING AND INSTALLATION

- Integral pole mount luminaires shall require assembly of fixture(s) to the pole, mounting hardware, anchor bolts and anchor bolt template shall be included. *See page 6 for additional considerations specific to the integral pole.*
- Tenon mount luminaires shall require assembly of fixture(s) to the tenon adapter, mounting hardware shall be included. Tenon adapter shall be secured to the tenon with eight 5/16-18 stainless steel set screws.
- Side mount luminaires shall be supplied

with hardware compatible with AAL mountings.

- Twin mounted staggered height fixtures shall be configured separately.

SERVICING

- Service access to the optical array and driver assembly shall be via a tool-less internal latch and have an audible click.
- Optical array shall be able to hang freely in an open service position for inspection of internal wire connections. Once in service position, the optical array shall be able to be removed for service by lifting the assembly up off the rear hinge and disconnecting the wiring plugs.
- Driver assembly shall be mounted to a prewired internal tray with quick disconnects for removal.

FINISH

- Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

- Luminaire shall be listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.
- ANSI C136.31-2010 4G Vibration tested and compliant.
- IEC 66262 Mechanical Impact Code IK10
- IDA approved, 3000K and warmer CCTs only.

WARRANTY / TERMS AND CONDITIONS OF SALE

Download: <http://www.hubbellighting.com/resources/warranty/>



| | |
|-------|-------|
| JOB | _____ |
| TYPE | _____ |
| NOTES | _____ |

SPECIFICATIONS

Integral Pole

| MODEL | HEIGHT | | SHAFT SECTION | MAXIMUM ALLOWABLE EPA (MPH) | MAXIMUM ALLOWABLE EPA (MPH) | | | |
|---------------|----------------|------|---------------|-----------------------------|-----------------------------|------|------|------|
| | OVERALL | POLE | | | WT | 70 | 80 | 90 |
| K5X-PS510-188 | 10' 9" / 3.28m | 10' | 5" SQ X .188" | 61 lbs | 32.2 | 24.5 | 18.0 | 14.5 |
| K5X-PS512-188 | 12' 9" / 3.89m | 12' | 5" SQ X .188" | 69 lbs | 29.0 | 21.5 | 15.7 | 12.5 |
| K5X-PS514-188 | 14' 9" / 4.50m | 14' | 5" SQ X .188" | 78 lbs | 25.0 | 18.5 | 13.5 | 10.5 |
| K5X-PS516-188 | 16' 9" / 5.10m | 16' | 5" SQ X .188" | 86 lbs | 21.7 | 15.7 | 11.3 | 8.5 |
| K5X-PS518-188 | 18' 9" / 5.71m | 18' | 5" SQ X .188" | 95 lbs | 18.5 | 12.8 | 9.0 | 6.5 |
| K5X-PS520-188 | 20' 9" / 6.32m | 20' | 5" SQ X .188" | 103 lbs | 15.0 | 9.7 | 6.5 | 4.2 |

CONSTRUCTION

- Base shall be cast aluminum #356 alloy and be heat treated to a T-6 condition.
- Shaft shall be extruded aluminum 6061 alloy and heat treated to a T-6 condition.
- Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 1" x 36" x 4".

WARNINGS

- Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.
- AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.
- The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage may be attached to an AAL pole unless approved by AAL.
- If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising there from.

CAUTION

- Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire.

