

FEATURES

- Integral Motion Sensor
- Staggered twin mounting
- ANSI C136.31-2010 4G Rated
- IES Type II, III and IV distributions
- 3000K , 4000K, 5000K CCT
- Integral thermal protection



3000K and warmer CCTs only

CONTROL TECHNOLOGY

LIGHT GRID⁺

SPECIFICATIONS

CONSTRUCTION

- Housing shroud is made of fabricated 5052-H32 aluminum alloy with a rear mounting interface that is made of fabricated 304 stainless steel
- Housing mounting interface is a stamped silicone gasket
- Luminaire housing is free of any visible heat fins, hardware or fasteners
- Bracketry and hardware is made of stainless steel
- Base is made of cast aluminum #356 alloy and heat treated to a T-6 condition
- Shaft is extruded aluminum 6061 alloy and heat treated to a T-6 condition
- Anchor bolts are hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template are provided. Anchor bolt for poles are 3/4" x 24" x 3"
- Luminaire finish 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 meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

LED/OPTICS

- LEDs are mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- Optical lenses is made of clear injection molded PMMA acrylic
- Each MCPCB and optic are sealed to an extruded 6063-T6 aluminum alloy heat spreader and sealed with a continuous one piece injection molded silicone rubber gasket. IP66

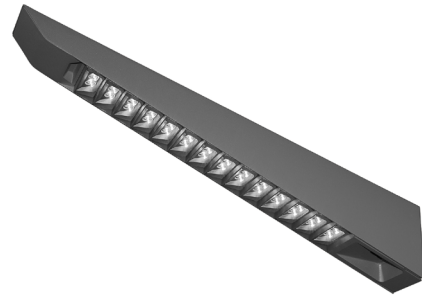
LED/OPTICS (CONTINUED)

- Patent Pending design of optical array is independently shielding each LED optic across the length of the aperture
- Optical surfaces are 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) do not exceed BUG ratings of the standard white finish and will be greater than or equal to the delivered lumens of the optional matte black optical surface finish (MO)

INSTALLATION

- Integral pole mount luminaires require assembly of fixture(s) to the pole, mounting hardware, anchor bolts and anchor bolt template is included. See page 6 for additional considerations specific to the integral pole
- Tenon mount luminaires require assembly of fixture(s) to the tenon adapter, mounting hardware is included. Tenon adapter secures to the tenon with eight 5/16-18 stainless steel set screws
- Side mount luminaires are supplied with hardware compatible with AAL mountings.
- Twin mounted staggered height fixtures are configured separately
- Service access to the optical array and driver assembly is via a tool-less internal latch and have an audible click.
- Optical array has to hang freely in an open service position for inspection of internal wire connections. Once in service position, the optical array is able to be removed for service by lifting the assembly up off the rear hinge and disconnecting the wiring plugs.
- Driver assembly is mounted to a prewired internal tray with quick disconnects for removal

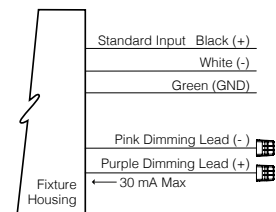
KICK™



Kick Small

ELECTRICAL

- Drivers are in direct contact with the aluminum housing across the entire surface area of the widest face for maximum thermal transfer
- Luminaires have integral surge protection that is 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 is wired in series
- Drivers are U.L. recognized
- Drivers are not 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 are capable of operating at 100% brightness in a 40°C environment. Both driver and optical array 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 are provided with 0-10 purple and pink dimming leads



continued on page 3

KEY DATA	
Lumen Range	3,820–7,691
Wattage Range	46–64
Efficacy Range (LPW)	79–120
Weight	15 lbs 6.8 kg
EPA	1.03

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: K41-T2-FO-5040-SF-MCPCR-347-PS412-125-BLT

CATALOG #	
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Model - 4" Wide Luminaire (Choose One)	Optical Distribution (Choose One)	Optics Finish (Choose One)	Light Engine (Choose One) ¹
K41 Single fixture	T2 IES Type II	MO Optics in Matte Black finish	50AM Amber LED, 580-590nm, 40 watts
K42 Two fixtures 180° apart	T3 IES Type III	FO Optics in fixture finish	5030 3000K CCT, CRI 70, 46 watts
K43 Three fixtures 90° apart	T4 IES Type IV		5040 4000K CCT, CRI 70, 46 watts
K44 Four fixtures 90° apart			5050 3000K CCT, CRI 70, 46 watts
			7030 3000K CCT, CRI 70, 64 watts
			7040 4000K CCT, CRI 70, 64 watts
			7050 5000K CCT, CRI 70, 64 watts
			5-Step MacAdam Ellipse Binning is standard
			Consult Factory for 3-Step MacAdam Ellipse Binning
			Consult Factory regarding availability of the following options
			27K8 2700K, CRI 80
			27K9 2700K, CRI 90
			3K8 3000K, CRI 80
			3K9 3000K, CRI 90
			35K8 3500K, CRI 80
			35K9 3500K, CRI 90
			4K8 4000K, CRI 80
			4K9 4000K, CRI 90
			5K8 5000K, CRI 80
			5K9 5000K, CRI 90

Fuse (May choose one)	Controls (Optional)	Voltage	Mounting Method (Choose One)	Fixture Finish
SF 120, 277, 347 Volt input	MCPCR Multi-Channel 7-Pin Photocell Receptacle	WIRED 120-277 input standard or you may choose one	P Pole By AAL	<u>Standard Color</u>
DF 208, 240, 480 Volt input	WIR LightGRID+ In-Fixture Module	347 347 VAC input	SMK Mounts to the side of a square pole (KM51 Only)	BLS Black Gloss Smooth
	WIRSC LightGRID+ Module and Occupancy Sensor	480 480 VAC input	TA23 Slips over a 2 3/8" / 60mm Ø x 4" / 102mm tall tenon	BLT Black Matte Textured
	SCP Sensor Control Programmable (Motion Sensor + Photocell) ²		WMK K41 only	DBS Dark Bronze Gloss Smooth
	SCPREMOTE Handheld Commissioning Tool (Need 1 total, if fixtures have SCP)			DBT Dark Bronze Matte Textured
	NXOFM-1R1D-UNV NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming			GTT Graphite Matte Texture
				LGS Light Grey Gloss Smooth
				LGT Light Grey Matte Textured
				PSS Platinum Silver Gloss Smooth
				VGT Verde Green Matte Textured
				WHS White Gloss Smooth
				WHT White Matte Textured
				<u>Color Options</u>
				CC Custom Color ²
				CLA Clear Anodized Finish (Clear protective undercoat for added protection in coastal or other harsh environments) ²

Notes:

- 580-590nm monochromatic amber and or custom lumen package available by request
- Handheld commissioning tool is required to separately configure or adjust any number of SCP sensors
- Consult factory for custom color, marine and corrosive finish

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE (CONTINUED)

Example: K41-PS414-125-TS8-GFI-BLS-SBC-ABT

Material: K4A-POLE - Integral Pole - Square Straight Aluminum - 4" Diameter, .125" Wall Thickness, 7" Bolt Circle (May Choose One)

Pole Model	Fixtures (Choose One)	Aluminum Pole By AAL	Mounting Style	Pole Diameter	Pole Length (Choose One)	Pole Shaft Thickness
K4 K4	1 Single Fixture 2 Twin fixtures 3 Triple fixtures 4 Quad fixtures	P Pole By AAL	S Square	4 4" O.D.	10 10" Pole Height 12 12" Pole Height 14 14" Pole Height 16 16" Pole Height 18 18" Pole Height 20 20" Pole Height	125 0.125" Wall

Twin Mount Staggered (Optional)	Receptacle Options (Optional)	Base Cover	Anchor Bolts	Anchor Bolt Template
TS8 8" Luminaire Height TS10 10" Luminaire Height TS12 12" Luminaire Height TS14 14" Luminaire Height TS16 16" Luminaire Height TS18 18" Luminaire Height	GFI GFCI Receptacle 24" from top of the pole (RBC Included) RBC Receptacle Box w/clear cover, wiring device(s) not included	SBC Standard Base Cover	AB Anchor Bolts	T Template

Example: K41-SSS-A-14-40B-PF-GFI-0-03-SBC

Material: K4A-POLE-SSS-A - Integral Pole - Square Straight Steel - 4" Diameter, .188" Wall Thickness, 10.25"-13.25" Bolt Circle

Pole Model	Fixtures (Choose One)	Steel Pole	Brand	Pole Length	Pole Shaft Diameter	Pole Shaft Thickness (Choose One)
K4 K4	1 Single Fixture 2 Twin fixtures 3 Triple fixtures 4 Quad fixtures	SSS Straight Steel Pole	A AAL	10 10" Pole Height 12 12" Pole Height 14 14" Pole Height 16 16" Pole Height 18 18" Pole Height 20 20" Pole Height 25 25" Pole Height 30 30" Pole Height	40 4 Inch Square	B 0.125" Wall C 0.188" Wall

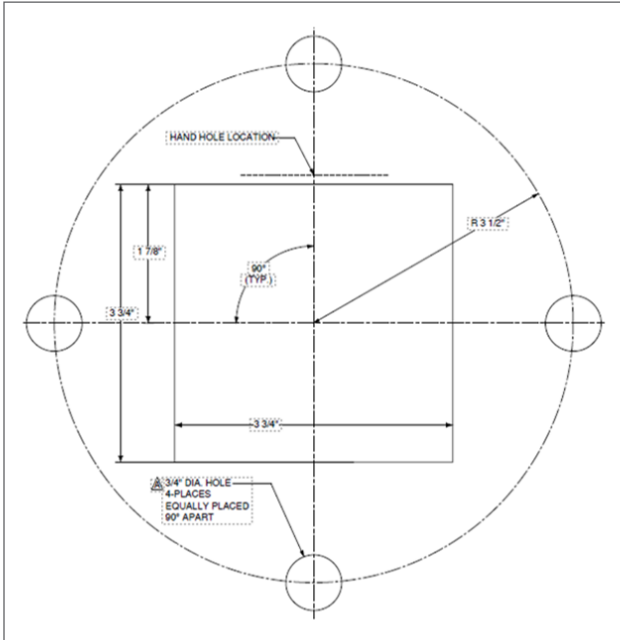
Mounting Method (Choose One)	Receptacle Options (Choose One)	Receptacle Orientation	Receptacle Height From Base	Extra Handhole (Optional)
TA Tenon 2" (2.375" O.D.) TB Tenon 2.5" (2.875" O.D.) TC Tenon 3" (3.5" O.D.) TR Removeable Tenon OT Open Top	GFI GFCI Receptacle (RBC Included) Receptacle Box w/clear cover, wiring device(s) not included	0 0 Degrees from center 90 90 Degrees from center 180 180 Degrees from center 270 270 Degrees from center	03 3 Feet from base 04 4 Feet from base 05 5 Feet from base 06 6 Feet from base 07 7 Feet from base 08 8 Feet from base 09 9 Feet from base 10 10 Feet from base 11 11 Feet from base	EHH Extra Handhole

Extra Handhole Location	Extra Handhole Height From Base	Coupling Options (Optional)	Vibration Dampener (Optional)	Base Cover
0 0 Degrees from center 90 90 Degrees from center 180 180 Degrees from center 270 270 Degrees from center	03 3 Feet from base 04 4 Feet from base 05 5 Feet from base 06 6 Feet from base 07 7 Feet from base	08 8 Feet from base 09 9 Feet from base 10 10 Feet from base 11 11 Feet from base	C05 1/2" Coupling C07 3/4" Coupling C20 2" Coupling	VM1 First Mode VM2 Second Mode VM3 Third Mode

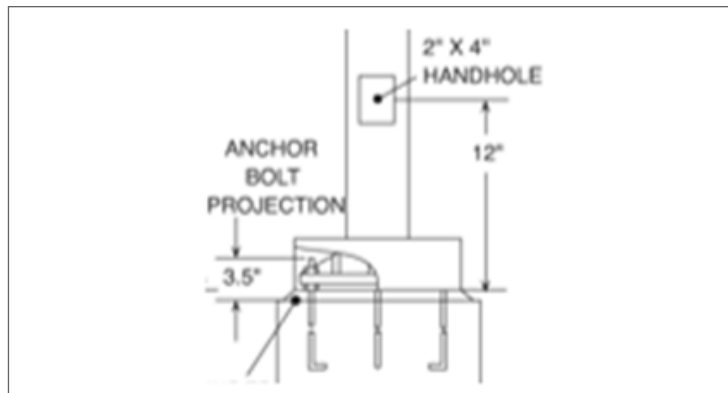
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ANCHOR BOLTS & TEMPLATES

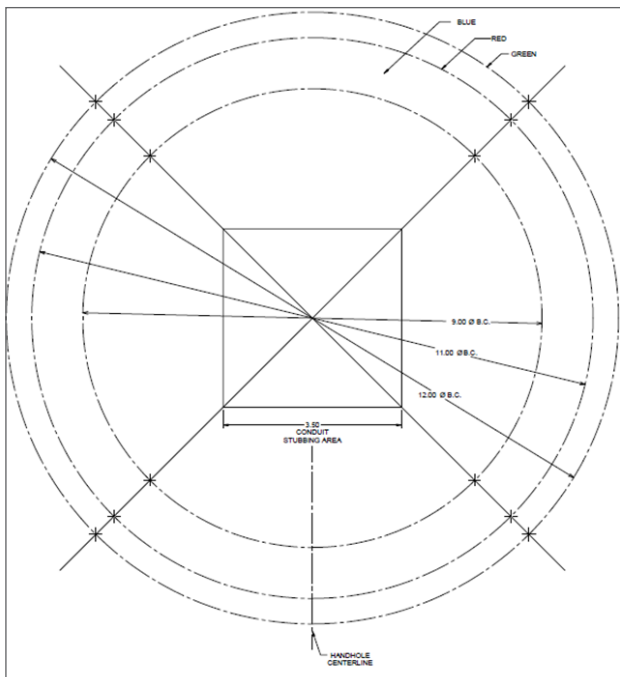
MATERIAL: K4A-POLE - INTEGRAL POLE - SQUARE STRAIGHT ALUMINUM - 4" DIAMETER, .125" WALL THICKNESS, 7" BOLT CIRCLE



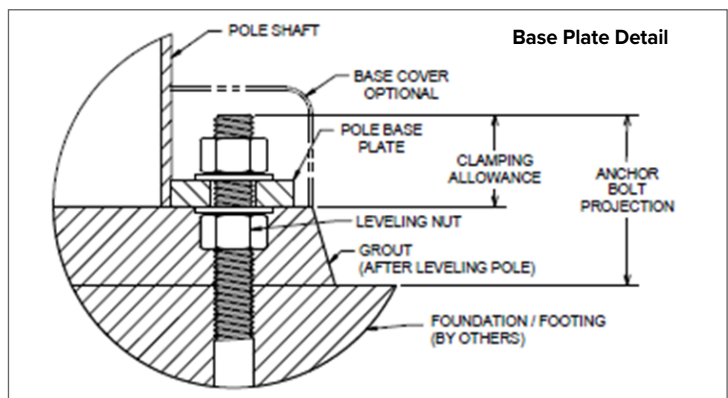
Anchor Bolt Template for PS4 Poles 4"O.D. .125" Wall Thickness, 7" Bolt Circle		
TAB30M38		3/4" X 30" X 3"
Anchor Bolt Template for SSS Poles		
A90065		
Bolt Diameter	Bolt Circle Diameter	Anchor Bolt Projection
.75"	7"	3.5"



MATERIAL: K4A-POLE-SSS-A - INTEGRAL POLE - SQUARE STRAIGHT STEEL - 4" DIAMETER, .188" WALL THICKNESS, 10.25"-13.25" BOLT CIRCLE



Anchor Bolts for SSS Poles 4"O.D. .188" Wall Thickness, 11" Bolt Circle		
TAB30M38		3/4" X 30" X 3"
Anchor Bolt Template for SSS Poles		
93062959		
Bolt Diameter	Bolt Circle Diameter	Anchor Bolt Projection
1"	11"	3.5"



SPECIFICATIONS (CONTINUED)

MODEL	HEIGHT OVERALL	POLE	Shaft Section	WT	Maximum allowable epa (mph)							
					85	90	100	110	120	130	140	150
K4X-PS410-125	10' 7.5" / 3.24m	10'	4" SQ x .125"	28 lbs	15.4	13.5	10.4	8.1	6.4	5.0	4.0	3.1
K4X-PS412-125	12' 7.5" / 3.85m	12'	4" SQ x .125"45	32 lbs	11.8	10.2	7.6	5.7	4.3	3.2	2.3	1.6
K4X-PS414-125	14' 7.5" / 4.46m	14'	4" SQ x .125"	37 lbs	9.1	7.7	5.5	3.9	2.6	1.7	0.95	0.33
K4X-PS416-125	16' 7.5" / 5.07m	16'	4" SQ x .125"	42 lbs	6.9	5.7	3.8	2.3	1.3	0.46	-	-
K4X-PS418-125	18' 7.5" / 5.68m	18'	4" SQ x .125"	48 lbs	4.9	3.9	2.2	0.95	0.01	-	-	-
K4X-PS420-125	20' 7.5" / 6.29m	20'	4" SQ x .125"	53 lbs	3.2	2.2	0.75	-	-	-	-	-

* - Consult factory for thicker shaft profiles and or custom heights not shown above.

CONTROLS

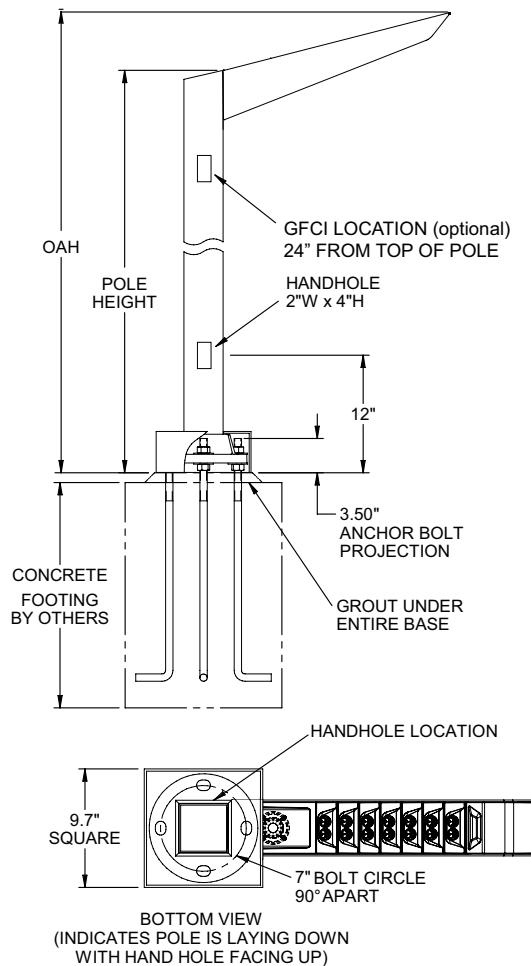
- Wireless enabled fixtures shall support bi-directional radio frequency (RF) communications utilizing IEEE 802.15.4 operating in the 2.4GHZ ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.
- Motion Sensor shall use passive infrared (PIR) sensing 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

CERTIFICATIONS

- Luminaire is 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
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020.

WARRANTY

- 5 year warranty



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS

System Watts	Optical Finish	Distribution	Ordering Code	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
					B	U	G			B	U	G			B	U	G	
46	Standard White	Type 2	T2	4999	1	2	1	108	5234	2	2	1	114	5239	1	2	1	113
		Type 3	T3	4895	1	2	1	106	5125	1	2	1	112	5130	1	2	1	111
		Type 4	T4	5207	1	2	1	113	5451	1	2	1	118	5456	1	2	1	118
	Fixture Match	Type 2	T2-FO	3820	1	2	1	83	4010	2	2	1	87	4003	1	2	1	87
		Type 3	T3-FO	3863	1	2	1	84	4044	1	2	1	88	4048	1	2	1	88
		Type 4	T4-FO	4297	1	2	1	93	4524	1	2	1	98	4503	1	2	1	98
	Matte Black	Type 2	T2-MO	3820	1	0	1	83	4000	1	0	1	87	4003	1	0	1	87
		Type 3	T3-MO	3863	1	0	1	84	4045	1	0	1	88	4048	1	0	1	88
		Type 4	T4-MO	4297	1	0	1	93	4499	1	0	1	98	4503	1	0	1	98
64	Standard White	Type 2	T2	6536	2	2	2	102	6775	2	2	2	106	6932	2	2	2	108
		Type 3	T3	6554	1	2	1	102	6795	1	2	1	106	6952	1	2	1	108
		Type 4	T4	7250	2	2	1	113	7516	2	2	2	117	7691	2	2	2	120
	Fixture Match	Type 2	T2-FO	5292	2	2	2	83	5486	2	2	2	85	5614	2	2	2	87
		Type 3	T3-FO	5456	1	2	1	79	5646	1	2	1	82	5788	1	2	1	84
		Type 4	T4-FO	5780	2	2	1	90	5992	2	2	2	94	6131	2	2	2	96
	Matte Black	Type 2	T2-MO	5281	1	0	1	83	5475	2	0	1	86	5602	2	0	1	88
		Type 3	T3-MO	5442	1	0	1	85	5656	1	0	1	88	5773	1	0	1	90
		Type 4	T4-MO	5767	2	0	1	90	5979	2	0	1	93	6117	2	0	1	96

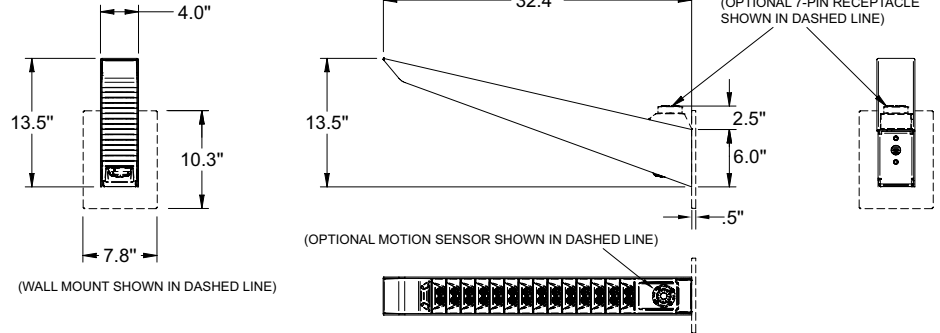
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DIMENSIONS

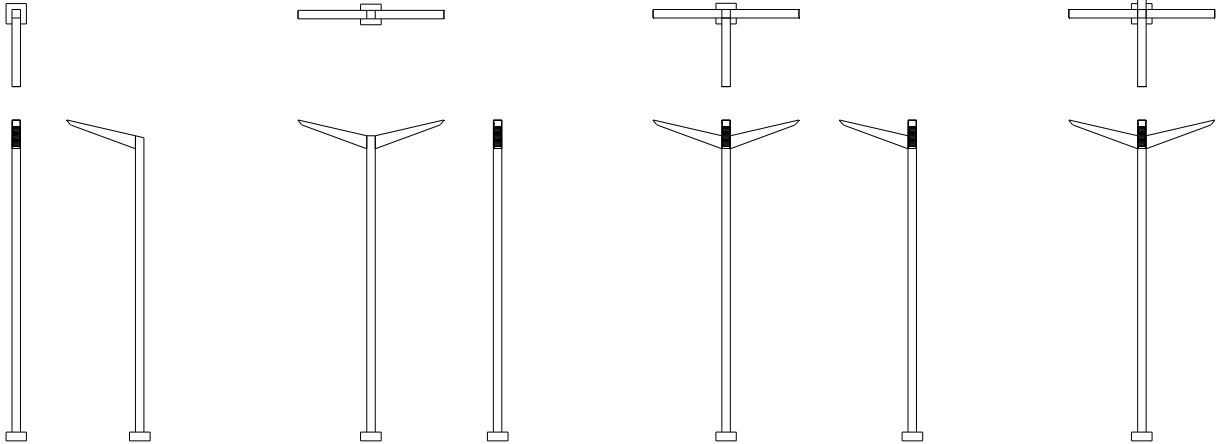
SIDE MOUNTED LUMINAIRE

Mounts to the side of 4"/102mm square pole.

MODEL	K41-...-SMK
Overall Height	13.5" / 343mm
Overall Length	32.4" / 823mm
Overall Width	4" / 102mm
WEIGHT	15 lbs.
EPA	1.03



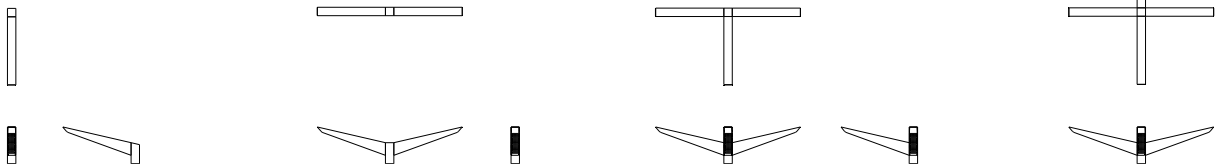
INTEGRAL POLE LUMINAIRE



MODEL	K41-...-PS4XX-125	K42-...-PS4XX-125	K43-...-PS4XX-125	K44-...-PS4XX-125
Overall Length	36.4" / 925mm	10" / 254mm	36.4" / 925mm	68.9" / 1750mm
Overall Width	10" / 254mm	68.9" / 1750mm	68.9" / 1750mm	68.9" / 1750mm
WEIGHT	15 lbs.	30 lbs.	45 lbs.	60 lbs.
EPA*	1.03	2.06	2.61	2.61

TENON MOUNT LUMINAIRE

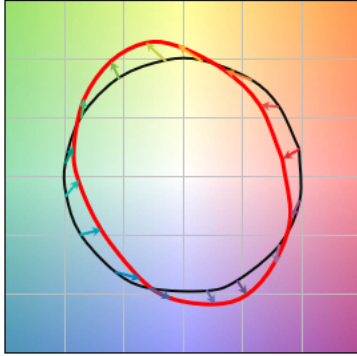
Slips over a 2 3/8"/60mm diameter by 4"/102mm tall tenon



MODEL	K41-...-TA23	K42-...-TA23	K43-...-TA23	K44-...-TA23
Overall Height	17.5" / 445mm	17.5" / 445mm	17.5" / 445mm	17.5" / 445mm
Overall Length	36.4" / 925mm	10" / 254mm	36.4" / 925mm	68.9" / 1750mm
Overall Width	4" / 102mm	68.9" / 1750mm	68.9" / 1750mm	68.9" / 1750mm
WEIGHT	18.5 lbs.	33.5 lbs.	48.5 lbs.	63.5 lbs.
EPA*	1.33	2.42	2.61	2.61

TM-30 DATA

COLOR VECTOR GRAPHIC

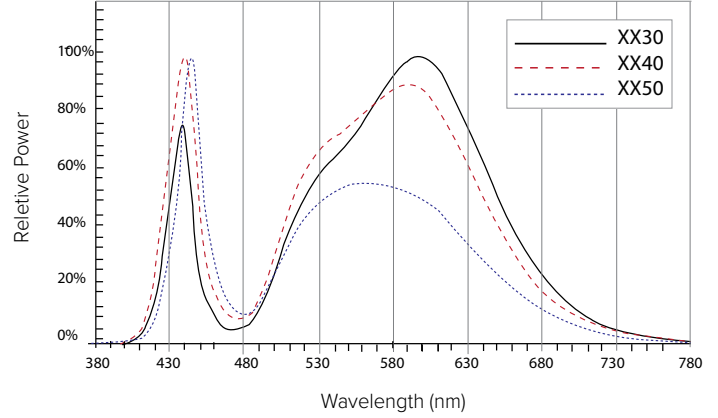


— Reference Illuminant — Test Source

TEST SOURCE

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

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL CHARACTERISTICS

Ordering Code	LED Current (mA)	System Wattage (W)	Line INPUT VAC HZ		Input Amps AC 120 277 347 480				Min. Power Factor	Max THD (%)	Operating Driver Temp Range	Inrush Current Peak								Dimming	
												(A)				T@50% (μs)				Dimming Range (V)	Source/ SlnK Current (mA)
												120	277	347	480	120	277	347	480		
50XX	500	46	120-277	50/60	0.4	0.17	0.1	0.10	>0.9	20	-40°C-55°C	15	32	41	63	50	155			0-10	1
70XX	700	64	120-277		0.5	0.23	0.2	0.13													

TM-21 LIFETIME CALCULATION (500MA)

Lumen Package	Ambient Environment °C	Projected Lumen Maintenance (Khrs)					Reported L70
		25	50	60 (TM-21)	75	100	
2,500	25	98%	95%	94%	92%	90%	>60Khrs.
	40	98%	96%	95%	93%	91%	

SENSOR DETECTION RANGE

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

