

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## KICK™

## 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



## CONTROL TECHNOLOGY

## LIGHTGRID

## 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

#### LED/OPTICS (CONTINUED)

- 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
- 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.



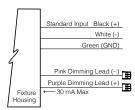
Kick Medium

#### INSTALLATION (CONTINUED)

- 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

#### 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



continued on page 3

KEY DAT	A
Lumen Range	7,744–18,763
Wattage Range	87–173
Efficacy Range (LPW)	79–119
Weight	20 lbs 9.07 kg
EPA	1.4

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## **ORDERING GUIDE**

CATALOG #
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Example: K41-T2-FO-9040-SF-MCPCR-347-PS412-125-BLT

		]					]		
		-		-			-		
Mode	I - 5" Wide Luminaire (Choose One)		Optical Distribution (Choose One)		Opti	cs Finish (Choose One)		Light E	ngine <sup>1</sup>
K51	Single fixture		T2 IES Type II		мо	Optics in Matte Black finish		90AM	Amber LED, 580-590nm, 76 watts
K52	Two fixtures 180° apart		T3 IES Type III		FO	Optics in fixture finish		9030	3000K CCT, CRI 70, 87 watts
K53	Three fixtures 90° apart		T4 IES Type IV		wo	White Optical Surface		9040	4000K CCT, CRI 70, 87 watts
K54	Four fixtures 90° apart							9050	3000K CCT, CRI 70, 87 watts
								12030	3000K CCT, CRI 70, 122 watts
								12040	4000K CCT, CRI 70, 122 watts
								12050	5000K CCT, CRI 70, 122 watts
								18030	3000K CCT, CRI 70, 174 watts
								18040	4000K CCT, CRI 70, 174 watts
								18050	5000K CCT, CRI 70, 174 watts
								5-Step standar	MacAdam Ellipse Binning is d
								Consult Ellipse I	t Factory for 3-Step MacAdam Binning
									Factory regarding availability of owing options
								27K8	2700K, CRI 80
								27K9	2700K, CRI 90
								3К8	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 (Optional) Controls (Op	tional)	Volta	je	М	ounting Method (Choose One)	Fixtu	ire Finish
SF 120, 277, 347 Volt input MCPCR   DF 208, 240, 480 Volt input WIR   WIRSC SCP	Multi-Channel 7-Pin Photocell Receptacle LightGRID+ connectivity LightGRID+ motion sensore Sensor Control Programmable (Motion Sensor + Photocell) <sup>2</sup> Handheld Commissioning	WIRE 347 480		Т	Pole By AAL MK Mounts to the side of a square pole (KM51 Only) A23 Slips over a 2 3/8" / 60mm Ø x 4" / 102mm tall tenon MK K41 only	Stan BLS BLT DBS DBT GTT LGS LGT PSS VGT	dard Color Black Gloss Smooth Black Matte Textured Dark Bronze Gloss Smooth Dark Bronze Matte Textured Graphite Matte Texture Light Grey Gloss Smooth Light Grey Matte Textured Platinum Silver Gloss Smooth Verde Green Matte Textured
NXOFM-1R1E	Tool (Need 1 total, if fixtures have SCP) VINV NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming					WHS	S White Gloss Smooth White Matte Textured or Options Custom Color <sup>2</sup>
			Notes:		nochromatic amber and or custom lum		

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

3 Consult factory for custom color, marine and corrosive finish

## Current

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## **ORDERING GUIDE (CONTINUED)**

#### Example: K51-PS414-125-TS8-GFI-BLS-SBC-ABT

## MATERIAL: K5A-POLE - INTEGRAL POLE - SQUARE STRAIGHT ALUMINUM - 5" DIAMETER, 188" WALL THICKNESS, 10.5" BOLT CIRCLE

		-			-		-			-			-			-	
Pole N	lodel		Fixt	ures (Choose One)		Aluminum Pole By AAL		N	Nounting Style		Pole	e Diameter		Pole	e Length (Choone One)		Pole Shaft Thickness
K5	K5		1	Single Fixture		P Pole By AAL		s	S Square		5	5" O.D.		10	10' Pole Height		188 0.188" Wall
			2	Twin fixtures										12	12' Pole Height		
			3	Triple fixtures										14	14' Pole Height		
			4	Quad fixtures										16	16' Pole Height		
														18	18' Pole Height		
														20	20' Pole Height		

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

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

#### MATERIAL: K5A-POLE-SSS-A - INTEGRAL POLE - SQUARE STRAIGHT STEEL - 5" DIAMETER, .188" WALL THICKNESS, 10.25"-13.25" BOLT CIRCLE

		-			-		-			-			-		-	
Pole N	lodel		Fixtu	ures (Choose One)		Steel Pole		Br	and		Po	le Length		Pole Shaft Diameter		Pole Shaft Thickness (Choose One)
K5	K5		1	Single Fixture		SSS Straight Steel Pole		Α	AAL		10	10' Pole Height		50 5 Inch Square		<b>B</b> 0.188" Wall
			2	Twin fixtures							12	12' Pole Height				C 0.250" Wall
			3	Triple fixtures							14	14' Pole Height				
			4	Quad fixtures							16	16' Pole Height				
											18	18' Pole Height				
											20	20' Pole Height				
											25	25' Pole Height				
											30	30' Pole Height				

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

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

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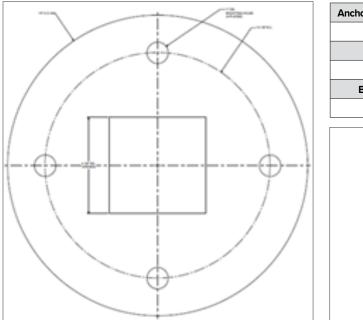
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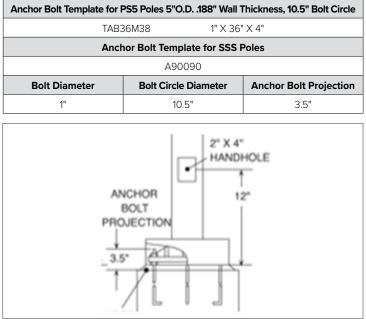


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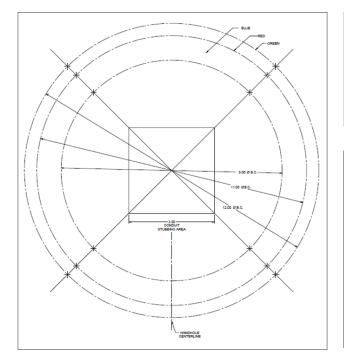
## **ANCHOR BOLTS & TEMPLATES**

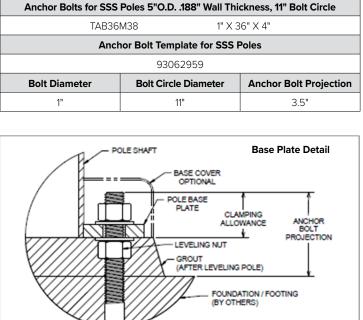
MATERIAL: K5A-POLE - INTEGRAL POLE - SQUARE STRAIGHT ALUMINUM - 5" DIAMETER, .188" WALL THICKNESS, 10.5" BOLT CIRCLE





#### MATERIAL: K5A-POLE-SSS-A - INTEGRAL POLE - SQUARE STRAIGHT STEEL - 5" DIAMETER, 188" WALL THICKNESS, 10.25"-13.25" BOLT CIRCLE







DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## SPECIFICATIONS (CONTINUED)

	HEIGHT		Shaft						Maxim	um allo	wable	epa (mp	oh)		
MODEL	OVERALL	POLE	Section	MatERial	WT	85	90	100	105	110	120	່ 13 <sup>`</sup> 0 ່	<i>.</i> 140	145	150
K5X-PS510-188	10' 9" / 3.28m	10'	5" SQ x .188"	Aluminum	61 lbs	25.0	25.0	23.0	20.5	18.5	5.0	4.0	10.1	9.1	8.3
K5X-PS512-188	12' 9" / 3.89m	12'	5" SQ x .188"	Aluminum	69 lbs	25.0	22.5	17.8	15.7	14.0	11.0	8.7	6.9	6.1	5.4
K5X-PS514-188	14' 9" / 4.50m	14'	5" SQ x .188"	Aluminum	78 lbs	20.6	17.9	13.7	11.9	10.4	7.9	6.0	4.4	3.7	3.1
K5X-PS516-188	16' 9" / 5.10m	16'	5" SQ x .188"	Aluminum	86 lbs	16.5	14.1	10.4	8.9	7.6	5.4	3.7	2.3	1.7	1.1
K5X-PS518-188	18' 9" / 5.71m	18'	5" SQ x .188"	Aluminum	95 lbs	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	-	-
K5X-PS520-188	20' 9" / 6.32m	20'	5" SQ x 188"	Aluminum	103 lbs	9.8	8.1	5.2	4.0	3.0	1.3	-	-	-	-
K5X-PS525-250	25' 9" / 7.85m	25'	5" SQ x .25"	Steel	427 lbs	25.0	25.0	19.4	17.1	15.1	11.7	9.0	6.9	6.0	5.1
K5X-PS530-250	30' 9" / 9.38m	30'	5" SQ x .25"	Steel	507 lbs	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4

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

#### **ELECTRICAL (CONTINUED)**

- 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 gray dimming leads

#### CONTROLS

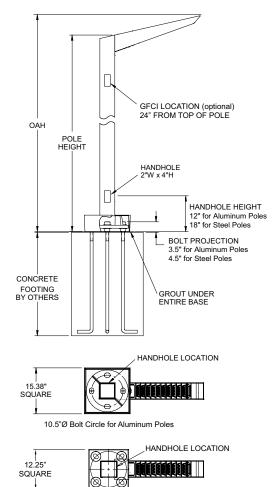
- Wireless enabled fixtures shall support bi-directional radio frequency (RF) communications utilizing IEEE 802.15.4 operating in the 2.4GHZ ISM band.
- Up to 1000' wireless range may be reduced by physical obstructions between lighting fixtures.
- Motion Sensor shall use passive infrared (PIR) sensing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

#### 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



11"Ø Bolt Circle for Steel Poles BOTTOM VIEW

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DATE:	LOCATION:
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## DELIVERED LUMENS

					300	ок 7	70CR	1		400	юк 7	'0CR	I		500	ок 7	70CR	I
System Watts	Optical Finish	Distribution	Ordering Code		Bu	g Rat	ting	Efficancy		Bu	g Rat	ing	Efficancy		Bu	g Rat	ting	Efficancy
				Lumen	В	υ	G	(Lm/W)	Lumen	В	υ	G	(Lm/W)	Lumen	в	U	G	(Lm/W)
		Type 2	T2	9692	2	3	2	111	9895	2	3	2	114	10103	2	3	2	117
	Standard White	Туре З	Т3	9462	2	2	2	109	9715	2	2	2	112	9920	2	2	2	115
	White	Type 4	Τ4	9957	2	3	2	114	10223	2	3	2	117	10437	2	3	2	119
	<b>F</b> <sup>1</sup> <b>1</b>	Type 2	T2-FO	7794	2	3	2	90	8003	2	3	2	92	8171	2	3	2	94
87	Fixture Match	Туре З	T3-FO	7744	2	2	2	89	7951	2	2	2	92	8118	2	2	2	94
	Materi	Type 4	T4-FO	8516	2	3	2	98	8744	2	3	2	100	8927	2	3	2	103
		Type 2	T2-MO	7794	2	0	1	90	8003	2	0	1	92	8171	2	0	1	94
	Matte Black	Туре З	T3-MO	7744	1	0	1	89	7951	1	0	1	92	8118	1	0	1	94
	DIGCK	Type 4	T4-MO	8516	2	0	2	98	8744	2	0	2	101	8927	2	0	2	103
		Type 2	T2	12694	3	3	3	104	13087	3	3	3	107	13369	3	3	3	109
	Standard White	Туре З	Т3	12560	2	3	2	103	12949	2	3	2	106	13228	2	3	2	108
	WINC	Type 4	Τ4	13091	2	3	2	107	13496	2	3	2	110	13787	3	3	2	112
	_	Type 2	T2-FO	10344	3	3	3	85	10664	3	3	3	88	10893	3	3	3	90
122	Fixture Match	Туре З	T3-FO	10275	2	3	2	84	10593	2	3	2	87	10821	2	3	2	89
	Wateri	Type 4	T4-FO	11194	2	3	2	92	11541	2	3	2	95	11789	3	3	2	97
		Type 2	T2-MO	10343	3	0	2	85	10664	3	0	2	88	10893	3	0	2	90
	Matte Black	Type 3	T3-MO	10275	2	0	2	84	10593	2	0	2	87	10821	2	0	2	89
	DIACK	Type 4	T4-MO	11194	2	0	2	92	11541	2	0	2	95	11789	2	0	2	97
		Type 2	T2	17006	3	3	3	98	17532	3	3	3	101	17910	3	3	3	103
	Standard White	Type 3	Т3	16826	3	3	3	97	17347	3	3	3	100	17721	3	3	3	102
	WINLE	Type 4	Τ4	17537	3	3	2	101	18080	3	3	2	104	18763	3	3	2	108
		Type 2	T2-FO	13856	3	3	3	80	14286	3	3	3	82	14593	3	3	3	84
174	Fixture Match	Type 3	T3-FO	13765	2	3	2	79	14191	2	3	2	82	14497	2	3	2	84
	Watch	Type 4	T4-FO	14996	2	3	2	86	15460	2	3	2	89	15794	3	3	2	91
		Type 2	T2-MO	14343	3	0	2	83	14787	3	0	2	85	15315	3	0	2	88
	Matte Black	Type 3	T3-MO	14192	2	0	2	82	14631	2	0	2	84	15153	2	0	2	87
	DIdCK	Type 4	T4-MO	14791	3	0	2	85	15249	3	0	2	88	15794	3	0	2	91

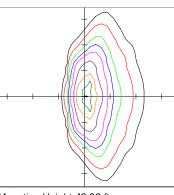


## PHOTOMETRY

#### K5X-T2-9030

LUMINAIRE DATA

Description	4000 K, 80CRI
Delivered Lumens	9637
Watts	<del>82</del>
Efficacy	<del>72.2</del>



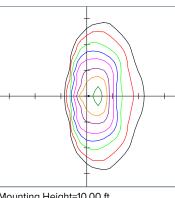
Mounting Height=10.00 ft

ISOFOOT CANDLE PLOT

## K5X-T3-9030 LUMINAIRE DATA

Description	<del>4000 K, 80CRI</del>
Delivered Lumens	9462
Watts	82
Efficacy	<del>72.2</del>

## ISOFOOT CANDLE PLOT



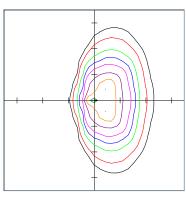
Mounting Height=10.00 ft

K5X-T4-9030

## LUMINAIRE DATA

Description	4000 K, 80CRI
Delivered Lumens	9957
Watts	<del>82</del>
Efficacy	<del>72.2</del>

### ISOFOOT CANDLE PLOT



Mounting Height=10.00 ft



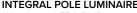
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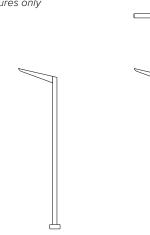


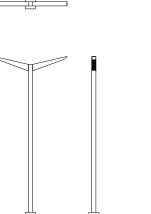
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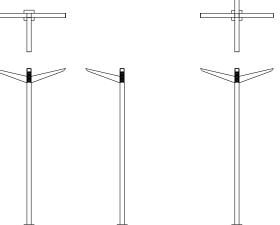
## DIMENSIONS

#### SIDE MOUNTED LUMINAIRE 38.5" - 5.0" Mounts to the side of 5"/127mm square pole. (OPTIONAL 7-PIN RECEPTACLE SHOWN IN DASHED LINE) MODEL K41-...-SMK 8.9 **Overall Height** 15.7" / 399mm 15.7 15.7 ŏ **Overall Length** 38.6" / 980mm 6.8 10.3 **Overall Width** 5" / 127mm Ť. -5 WEIGHT 20 lbs. (OPTIONAL MOTION SENSOR SHOWN IN DASHED LINE) • 7.8" 1.4 EPA (WALL MOUNT SHOWN IN DASHED LINE) INTEGRAL POLE LUMINAIRE Weight and EPA for fixtures only A П









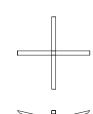
MODEL	K51PS5XX-188	K52PS5XX-188	K53PS5XX-188	K54PS5XX-188
Overall Length	43.5" / 1106mm	15.5" / 390mm	49" / 1238mm	82" / 2083mm
Overall Width	15.5" / 390mm	82" / 2083mm	82" / 2083mm	82" / 2083mm
WEIGHT	20 lbs.	40 lbs.	60 lbs.	80 lbs.
EPA*	1.43	2.7	3.1	3.1

#### TENON MOUNT LUMINAIRE

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







MODEL	K51TA23	K52TA23	K53TA23	K54TA23
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

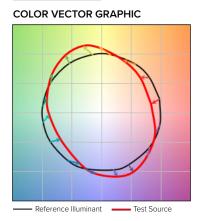
### currentlighting.com/aal

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## TM-30 DATA



TEST SOURCE											
Value	Orc	dering Co	ode								
value	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 XX30 100% \_ \_ \_ \_ XX40 \_ ..... XX50 80% **Reletive Power** 60% 40% 20% 0% 730 430 480 580 630 680 780 380 530

Wavelength (nm)

## **ELECTRICAL CHARACTERISTICS**

				Input							Driver	Source/	Inrush Current Peak										
1	Ordering Code	LED Current (mA)			Wattage		Amp	os AC		Hz	Min. Power	Max THD	Dimming Range (V)	Operating	Sink		(4	4)			T@50	% (µs)	)
			(W)	120	277	347	480	112	Factor (%)	Range	(mA)	120	277	347	480	120	277	347	480				
	90XX	500	87	0.7	0.3	0.5	0.4	50/60	50/60 >0.9														
	120XX	700	122	1.0	0.4	0.4	0.3			>0.9	20	0-10	-40°C-55°C	1	15	32	41	63	5	0	15	55	
	180XX	1000	173	1.4	0.6	0.3	0.2																

## TM-21 LIFETIME CALCULATION (500MA)

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

## SENSOR DETECTION RANGE

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

