

FEATURES

- Integral Motion Sensor
- 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	2	3	4	5	6	7	8	9	10
Model	Optics	Optical Finish	Light Engine	Controls	Fuse	Voltage	Mounting	Mounting Options	Fixture Finish

1. MODEL

4" wide luminaire

KM41	Single fixture
KM42	Two fixtures 180° apart
KM43	Three fixtures 90° apart
KM44	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
FO	Optics in fixture finish

4. LIGHT ENGINE

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

3050	5000K CCT, CRI 70, 33 watts
3040	4000K CCT, CRI 70, 33 watts
3030	3000K CCT, CRI 70, 33 watts
2050	5000K CCT, CRI 70, 24 watts
2040	4000K CCT, CRI 70, 24 watts
2030	3000K CCT, CRI 70, 24 watts

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

5. CONTROL

Options

MCPCR	7-Position Receptacle
SCP	Motion Sensor + Photocell ⁴

Accessories:

SCPREMOTE	Handheld commissioning tool ⁴
SW7PR	SiteSync 7-Pin Module
NXOFM-1R1D-UNV	NX 7-pin Module

6. FUSE

(may choose one)

SF	120, 277, 347 Volt input
DF	208, 240, 480 Volt input

7. VOLTAGE

120-277VAC input standard or may choose one

347	347VAC input ²
480	480VAC input ²

8. MOUNTING

Integral Pole

Square Straight Aluminum, 10.5"Ø Bolt Circle

PS410-125	10' luminaire height.
PS412-125	12' luminaire height.
PS414-125	14' luminaire height.
PS416-125	16' luminaire height.
PS418-125	18' luminaire height.
PS420-125	20' luminaire height.

Tenon Mount

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

SMK	Mounts to the side of a square pole, KM41 only
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Wall Mount

WMK	KM41 only
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9. MOUNTING OPTIONS

Twin mount at staggered heights

Mounting holes for a fixture at 180°, KM41-...PS4... 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, 24" from top of pole
RBC	Duplex receptacle box with clear cover, wiring device(s) not included.

10. FIXTURE FINISH

Standard Color

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

Premium Color

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

¹ Contact factory

² Not compatible with SCP

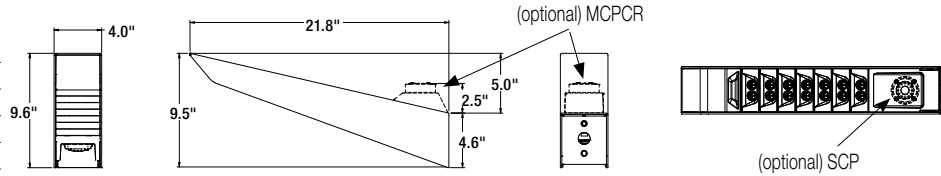
⁴ Handheld commissioning tool is required to separately configure or adjust any number of SCP sensors

Kick™ – KM4 Kick Mini Small Scale

TYPE

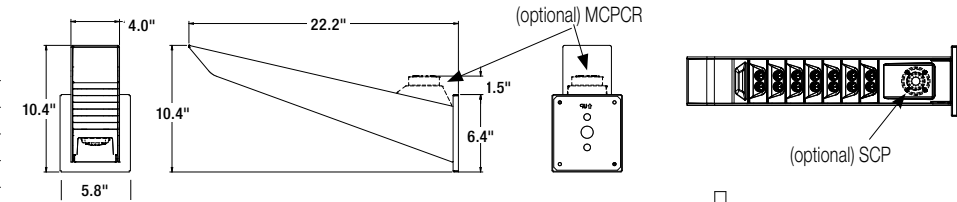
Side Mounted Luminaire(s)

MODEL	KM4X-...-SMK
OVERALL HEIGHT	9.6" / 244mm
OVERALL LENGTH	21.8" / 554mm
OVERALL WIDTH	4" / 102mm
WEIGHT	8.95 lbs.
EPA	0.56



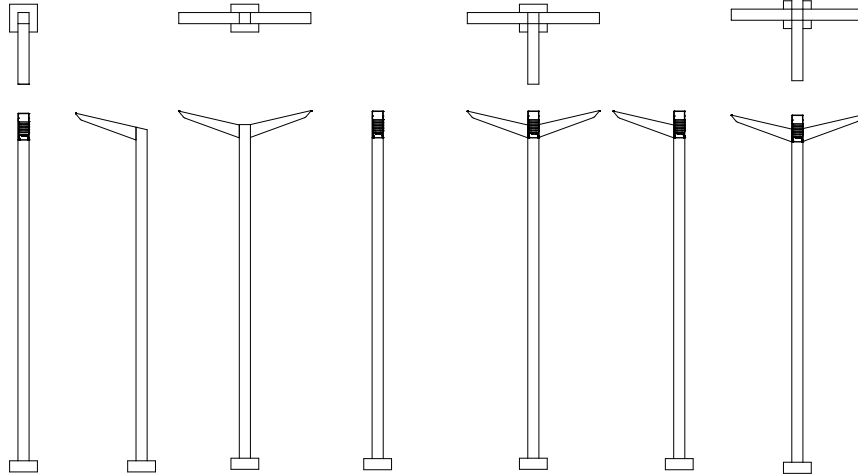
Wall Mounted Luminaire(s)

MODEL	KM41-...-WMK
OVERALL HEIGHT	10.4" / 264mm
OVERALL LENGTH	22.2" / 564mm
OVERALL WIDTH	5.8" / 147mm
WEIGHT	10 lbs.



Integral Pole Luminaire

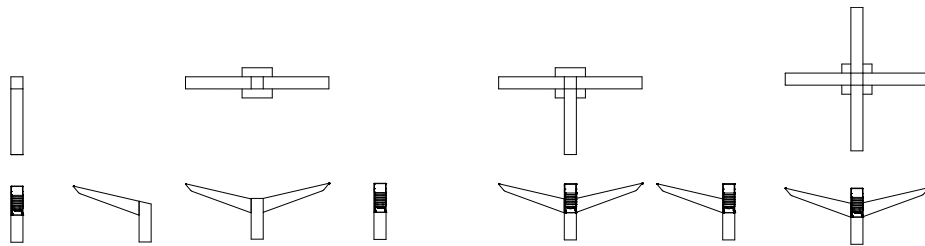
See page 6
for height and
mounting detail
* Weight and
EPA for fixtures
only



MODEL	KM41-...-PS4XX-125	KM42-...-PS4XX-125	KM43-...-PS4XX-125	KM44-...-PS4XX-125
OVERALL LENGTH	25.8" / 655mm	10" / 254mm	25.8" / 655mm	47.5" / 1206mm
OVERALL WIDTH	10" / 254mm	47.5" / 1206mm	47.5" / 1206mm	47.5" / 1206mm
WEIGHT	8.95 lbs.	8.95 lbs.	8.95 lbs.	8.95 lbs.
EPA*	0.56	1.12	1.44	1.44

Tenon Mount Luminaire

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



MODEL	KM41-...-TA23	KM42-...-TA23	KM43-...-TA23	KM44-...-TA23
OVERALL HEIGHT	13.5" / 343mm	13.5" / 343mm	13.5" / 343mm	13.5" / 343mm
OVERALL LENGTH	25.8" / 655mm	10" / 254mm	25.8" / 655mm	47.5" / 1206mm
OVERALL WIDTH	4" / 102mm	47.5" / 1206mm	47.5" / 1206mm	47.5" / 1206mm
WEIGHT	8.95 lbs.	8.95 lbs.	8.95 lbs.	8.95 lbs.
EPA*	0.87	1.44	1.62	1.62



ARCHITECTURAL AREA LIGHTING
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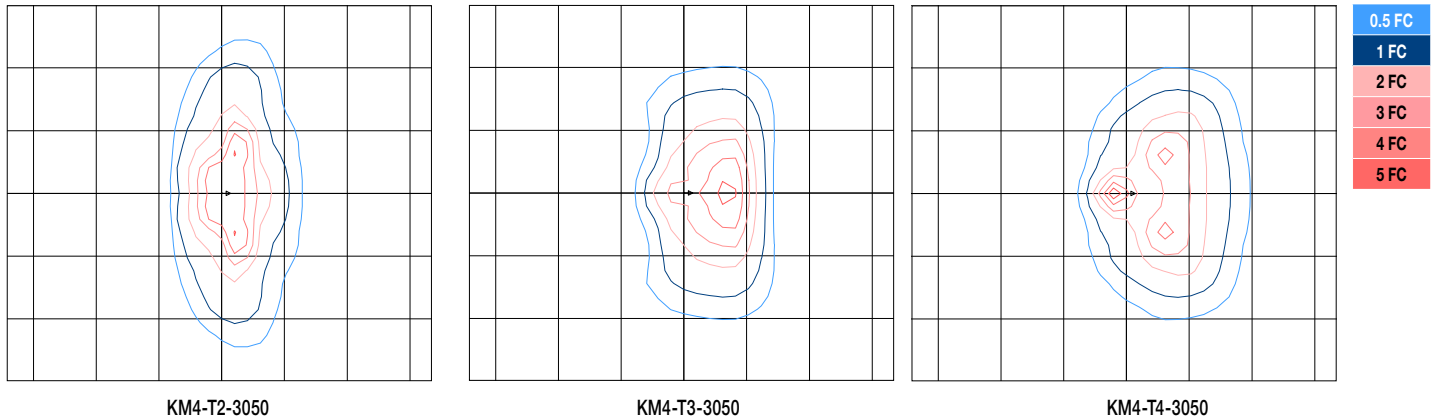
JOB _____
TYPE _____
NOTES _____

LUMINAIRE PERFORMANCE

Configuration				Ordering Code														
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		
						B	U	G			B	U	G			B	U	G
3000 SERIES	Standard	Type II	T2	3500	106	1	2	1	3455	105	1	2	1	3315	101	1	2	1
		Type III	T3	3423	104	1	2	1	3379	103	1	2	1	3242	99	1	2	1
		Type IV	T4	3576	109	1	1	1	3530	107	1	1	1	3387	103	1	1	1
	Fixture Finish	Type II	T2-FO	2676	81	1	2	1	2716	83	1	2	1	2535	77	1	2	1
		Type III	T3-FO	2706	82	1	2	1	2746	83	1	2	1	2563	78	1	2	1
		Type IV	T4-FO	3047	93	1	1	1	3093	94	1	1	1	2886	88	1	1	1
	Matte Optics	Type II	T2-MO	2676	81	1	0	1	2716	83	1	0	1	2535	77	1	0	1
		Type III	T3-MO	2706	82	1	0	0	2746	83	1	0	0	2563	78	1	0	0
		Type IV	T4-MO	3047	93	1	0	1	3093	94	1	0	1	2886	88	1	0	1
2000 SERIES	Standard	Type II	T2	2647	112	1	2	1	2613	111	1	2	1	2507	106	1	2	1
		Type III	T3	2589	110	1	1	1	2555	108	1	1	1	2447	104	1	1	1
		Type IV	T4	2704	115	1	1	1	2670	113	1	1	1	2561	109	1	1	1
	Fixture Finish	Type II	T2-FO	2015	85	1	2	1	2058	87	1	2	1	1909	81	1	2	1
		Type III	T3-FO	2038	86	1	1	1	2061	87	1	1	1	1930	82	1	1	1
		Type IV	T4-FO	2295	97	1	1	1	2343	99	1	1	1	2174	92	1	1	1
	Matte Optics	Type II	T2-MO	2015	85	1	0	0	2058	87	1	0	0	1909	81	1	0	0
		Type III	T3-MO	2038	86	1	0	0	2081	88	1	0	0	1930	82	1	0	0
		Type IV	T4-MO	2295	97	1	0	0	2343	99	1	0	0	2174	92	1	0	0

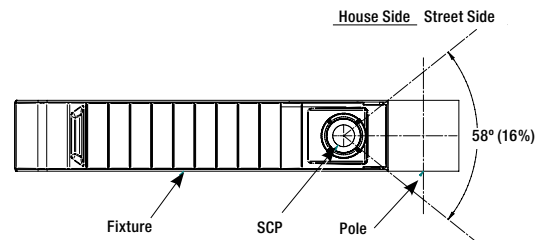
-MO.ies files should be used for -FO configurations in application layouts.

ISOLINE TEMPLATES 14' Mounting Height



SENSOR DETECTION RANGE

		SENSOR MOUNTING HEIGHT											RATIO
		8'	10'	12'	14'	16'	18'	20'	25'	30'	35'	40'	
COVERAGE DIAMETER	SCP	20'	25'	30'	35'	40'	45'	50'	62.5'	75'	87.5'	100'	1:2.5



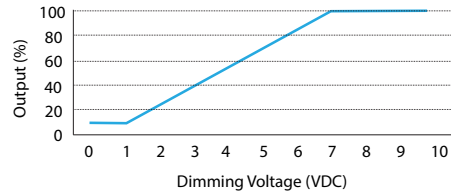
ELECTRICAL CHARACTERISTICS

Ordering Code	LED Current (mA)	System Wattage (W)	Line Input		Input		Min. Power Factor	Max THD (%)	Driver Operating Temp. Range	Inrush Current Peak				Dimming	
					Amps AC					(A)		T@50% (μs)		Dimming Range (V)	Source/ Sink Current (mA)
			VAC	HZ	120	277				120	277	120	277		
					30XX	700				33	120-277	50/60	0.3		
20XX	500	24	120-277	0.2	0.1										

TM-21 LIFETIME CALCULATION

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

DIMMING CURVE



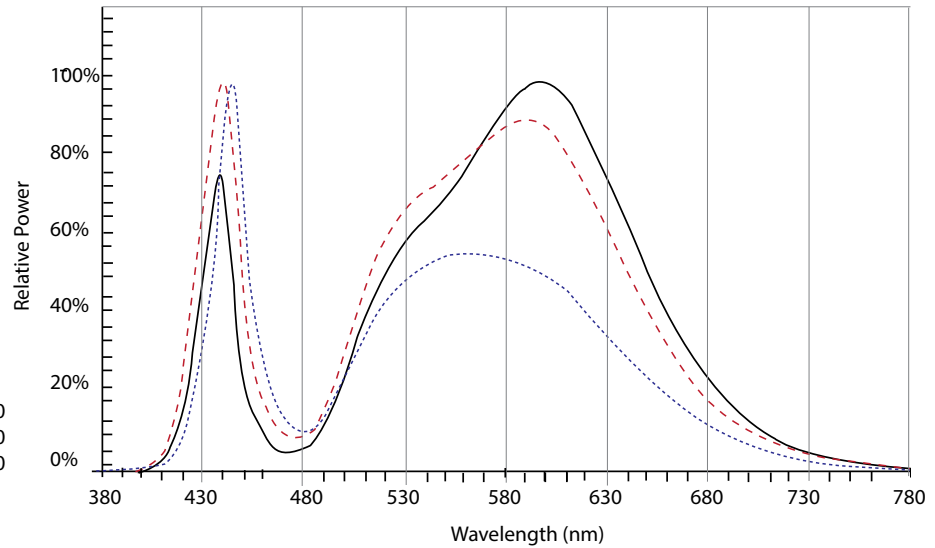
Note: Fixture does not dim to off, fixture dims to 10% minimum output.

COLOR CHARACTERISTICS

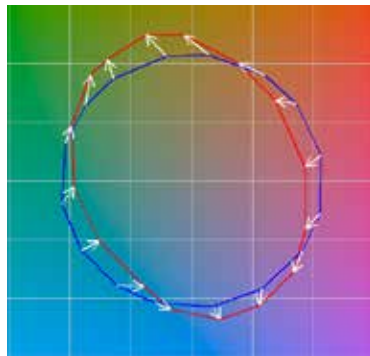
Value	Ordering Code		
	XX30	XX40	XX50
Rf	69	69	71
Rg	99	99	98
CCT(K)	3122	3852	5020
Duv	0.001	0.0004	0.0005
CIE Ra	74	73	74

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

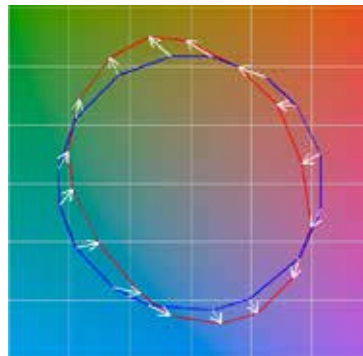
SPECTRAL POWER DISTRIBUTION COMPARISON



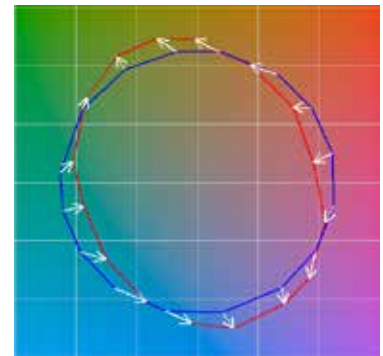
COLOR VECTOR GRAPHIC



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



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



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

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

- 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.

- Wall mount luminaires shall require assembly of fixture to mounting plate.

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

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

SPECIFICATIONS

Integral Pole

MODEL	HEIGHT		SHAFT		MAXIMUM ALLOWABLE EPA (MPH)							
	OVERALL	POLE	SECTION	WT	85	90	100	110	120	130	140	150
KM4X-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
KM4X-PS412-125	12' 7.5" / 3.85m	12'	4" SQ X .125"	32 lbs	11.8	10.2	7.6	5.7	4.3	3.2	2.3	1.6
KM4X-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
KM4X-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	-	-
KM4X-PS418-125	18' 7.5" / 5.68m	18'	4" SQ X .125"	48 lbs	4.9	3.9	2.2	0.95	0.01	-	-	-
KM4X-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.

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 3/4" x 24" x 3".

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.

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