

FEATURES

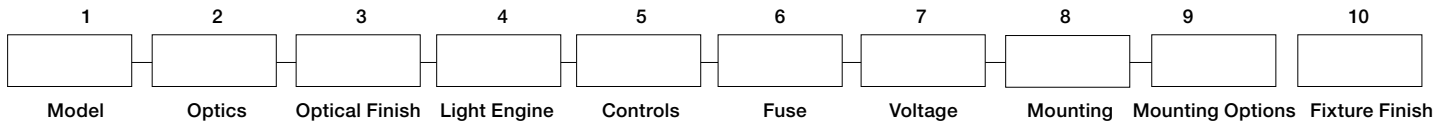
- Integral Motion Sensor
- wiScape enabled
- IDA approved
- 20kV/10kA surge protection
- ANSI C136.41 receptacle
- IES Type II, III and IV distributions
- 3000K, 4000K, 5000K CCT
- Integral thermal protection
- 0-10V dimming ready
- IP66 optical system
- 120-277, 347 and 480VAC input
- ANSI C136.31-2010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



3000K and warmer CCTs only
MO-XX30 configurations only



ORDERING CODE



1. MODEL

5" wide luminaire

KM51	Single fixture
KM52	Two fixtures 180° apart
KM53	Three fixtures 90° apart
KM54	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

7050	5000K CCT, CRI 70, 70watts
7040	4000K CCT, CRI 70, 70 watts
7030	3000K CCT, CRI 70, 70 watts
5050	5000K CCT, CRI 70, 50 watts
5040	4000K CCT, CRI 70, 50 watts
5030	3000K CCT, CRI 70, 50 watts

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

5. CONTROL

Options

MCPCR	7-Position Receptacle
WIR	wiScape connectivity
WIRSC	wiScape + motion sensor
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
480	480VAC input

8. MOUNTING

Integral Pole

Square Straight Aluminum, 10.5"Ø Bolt Circle

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,
KM51 only

Wall Mount

WMK KM51 only

9. MOUNTING OPTIONS

Twin mount at staggered heights

Mounting holes for a fixture at 180°, KM51-...

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, 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

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



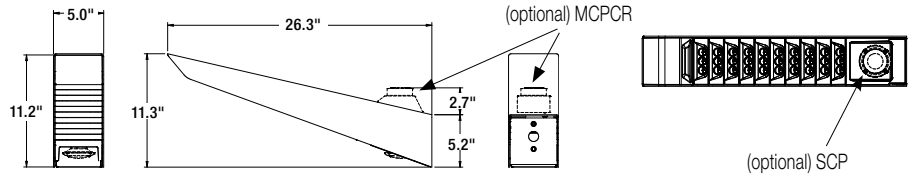
JOB _____
TYPE _____
NOTES _____

Kick™ – KM5 Kick Mini Medium Scale

TYPE

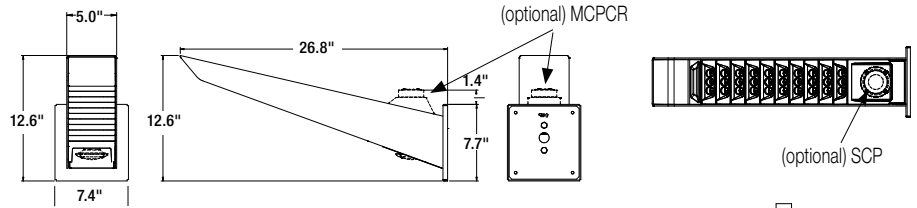
Side Mounted Luminaire(s)

MODEL	KM5X-...-SMK
OVERALL HEIGHT	11.3" / 287mm
OVERALL LENGTH	26.3" / 668mm
OVERALL WIDTH	5" / 127mm
WEIGHT	13.25 lbs.
EPA	0.75



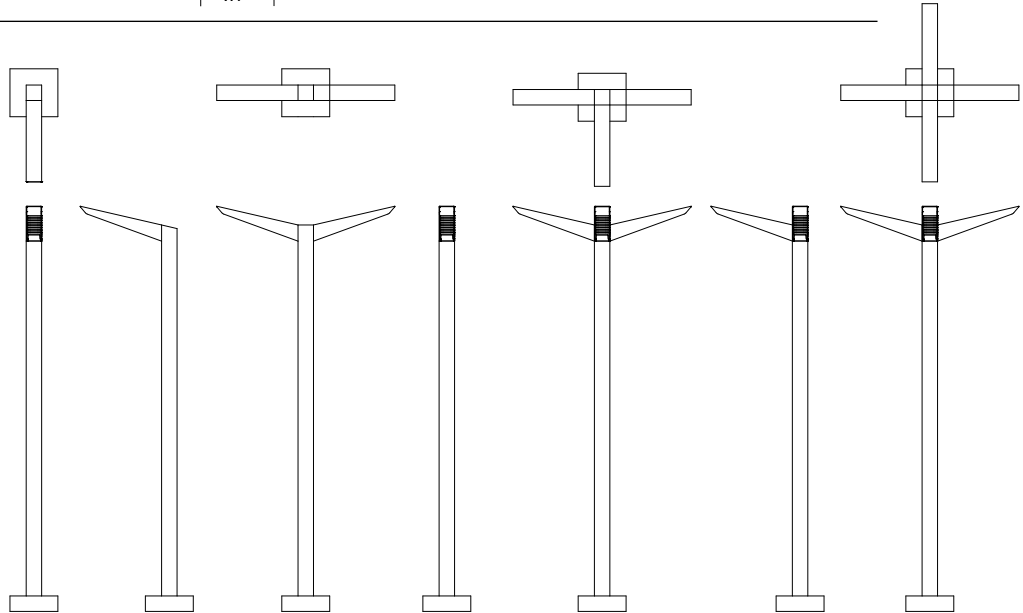
Wall Mounted Luminaire(s)

MODEL	KM51-...-WMK
OVERALL HEIGHT	12.6" / 320mm
OVERALL LENGTH	26.8" / 681mm
OVERALL WIDTH	7.4" / 188mm
WEIGHT	15 lbs.



Integral Pole Luminaire

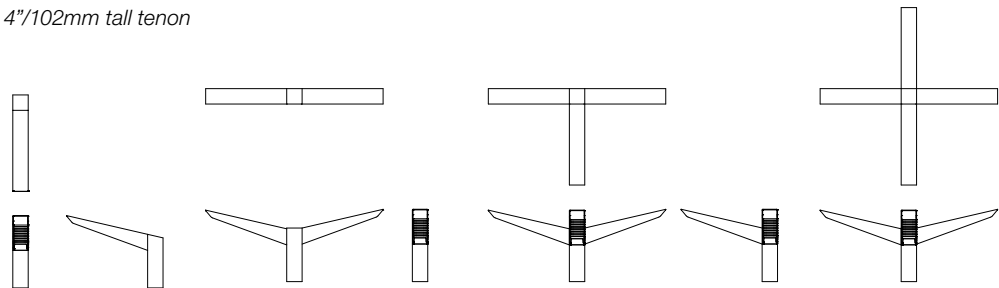
See page 6 for height and mounting detail
* Weight and EPA for fixtures only



MODEL	KM51-...-PS5XX-188	KM52-...-PS5XX-188	KM53-...-PS5XX-188	KM54-...-PS5XX-188
OVERALL LENGTH	31.3" / 795mm	15.5" / 394mm	31.3" / 795mm	57.6" / 1463mm
OVERALL WIDTH	15.5" / 394mm	57.6" / 1463mm	57.6" / 1463mm	57.6" / 1463mm
WEIGHT	13.25 lbs.	13.25 lbs.	13.25 lbs.	13.25 lbs.
EPA*	.75	1.5	2	2

Tenon Mount Luminaire

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



MODEL	KM51-...-TA23	KM52-...-TA23	KM53-...-TA23	KM54-...-TA23
OVERALL HEIGHT	17.4" / 442mm	17.4" / 442mm	17.4" / 442mm	17.4" / 442mm
OVERALL LENGTH	31.3" / 795mm	5" / 127mm	31.3" / 795mm	57.6" / 1463mm
OVERALL WIDTH	5" / 127mm	57.6" / 1463mm	57.6" / 1463mm	57.6" / 1463mm
WEIGHT	13.25 lbs.	13.25 lbs.	13.25 lbs.	13.25 lbs.
EPA	1.14	1.89	2.4	2.4



ARCHITECTURAL AREA LIGHTING
ARCHITECTURAL AREA LIGHTING
17760 Rowland Street | City of Industry | CA 91748
P 626.968.5666 | F 626.369.2695 | www.aal.net
Copyright © 2016 September 18, 2018 12:42 PM

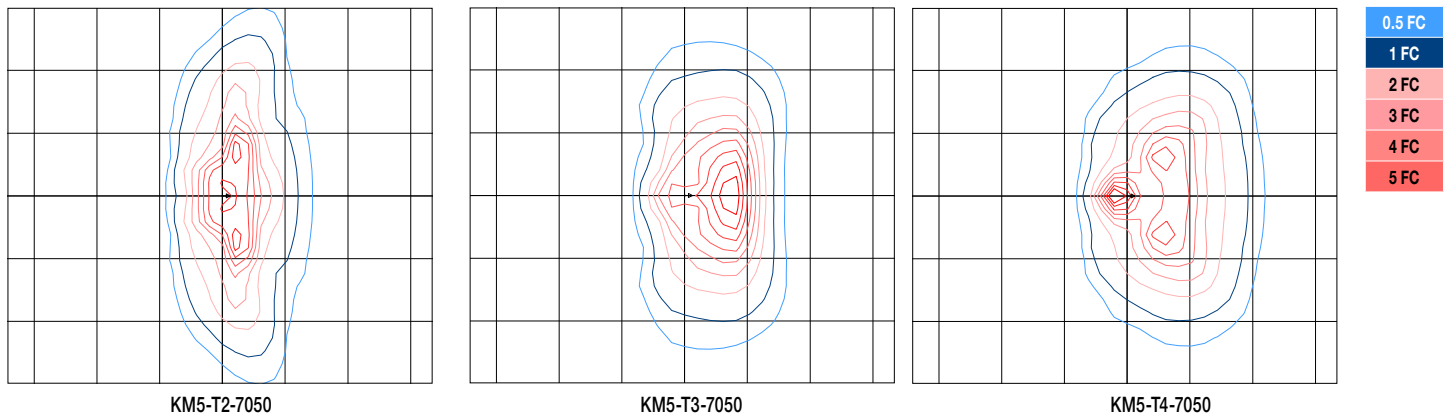
JOB	_____
TYPE	_____
NOTES	_____

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							
				7050						7040						7030							
				B	U	G	B	U	G	B	U	G	B	U	G	B	U	G					
7000 SERIES	Standard	Type II	T2	7365	105	2	2	2	7408	106	2	2	2	6976	100	2	2	2					
		Type III	T3	7620	109	2	2	1	7664	109	2	2	1	7218	103	2	2	1					
		Type IV	T4	7893	113	2	2	2	7939	113	2	2	2	7476	107	2	2	1					
		Type II	T2-FO	5972	85	2	2	2	6007	86	2	2	2	5657	81	2	2	2					
	Fixture Finish	Type III	T3-FO	6038	86	2	2	1	6073	87	2	2	1	5719	82	2	2	1					
		Type IV	T4-FO	6800	97	2	2	2	6840	98	2	2	2	6441	92	2	2	1					
		Type II	T2-MO	5972	85	2	0	1	6007	86	2	0	1	5657	81	2	0	1					
		Type III	T3-MO	6038	86	1	0	1	6073	87	1	0	1	5719	82	1	0	1					
	Matte Optics	Type IV	T4-MO	6800	97	2	0	1	6840	98	2	0	1	6441	92	2	0	1					
						5050						5040						5030					
		5000 SERIES	Standard	Type II	T2	5614	112	2	2	1	5647	113	2	2	1	5317	106	2	2	1			
				Type III	T3	5808	116	1	2	1	5842	117	1	2	1	5502	110	1	2	1			
Type IV	T4			6016	120	1	2	1	6052	121	1	2	1	5699	114	1	2	1					
Type II	T2-FO			4552	91	2	2	1	4579	92	2	2	1	5312	106	2	2	1					
Fixture Finish	Type III	T3-FO	4602	92	1	2	1	4629	93	1	2	1	4359	87	1	2	1						
	Type IV	T4-FO	5183	104	1	2	1	5214	104	1	2	1	4910	98	1	2	1						
	Type II	T2-MO	4552	91	1	0	1	4579	92	1	0	1	4312	86	1	0	1						
	Type III	T3-MO	4602	92	1	0	1	4629	93	1	0	1	4359	87	1	0	1						
Matte Optics	Type IV	T4-MO	5183	104	1	0	1	5214	104	1	0	1	4910	98	1	0	1						

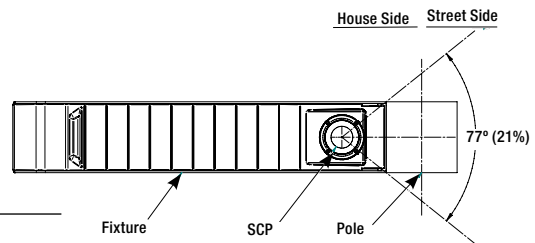
-MO.ies files should be used for -FO configurations in application layouts.

ISOLINE TEMPLATES 16' Mounting Height, 16' Grid Spacing



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



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	
			VAC	HZ	Amps AC							(A)		T@50% (µs)		Dimming Range (V)	Source/Sink Current (mA)
					120	277	347V	480V				120	277	120	277		
70XX	700	70	120-277, 347, 480	50 / 60	0.3	0.1	0.2	0.2	0.9	20	-40°C-55°C	15	32	100	0-10	1	
50XX	500	50	120-277, 347, 480		0.2	0.1	0.1	0.1									



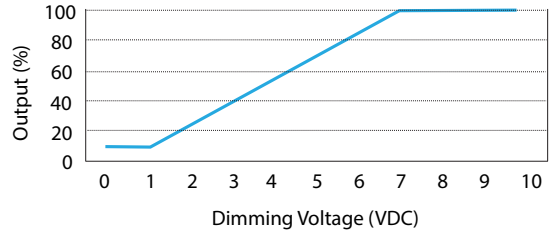
ARCHITECTURAL AREA LIGHTING
 ARCHITECTURAL AREA LIGHTING
 17760 Rowland Street | City of Industry | CA 91748
 P 626.968.5666 | F 626.369.2695 | www.aal.net
 Copyright © 2016 September 18, 2018 12:42 PM

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%	95%	94%	93%	90%	>60Khrs.
40	98%	96%	95%	93%	90%	

DIMMING CURVE



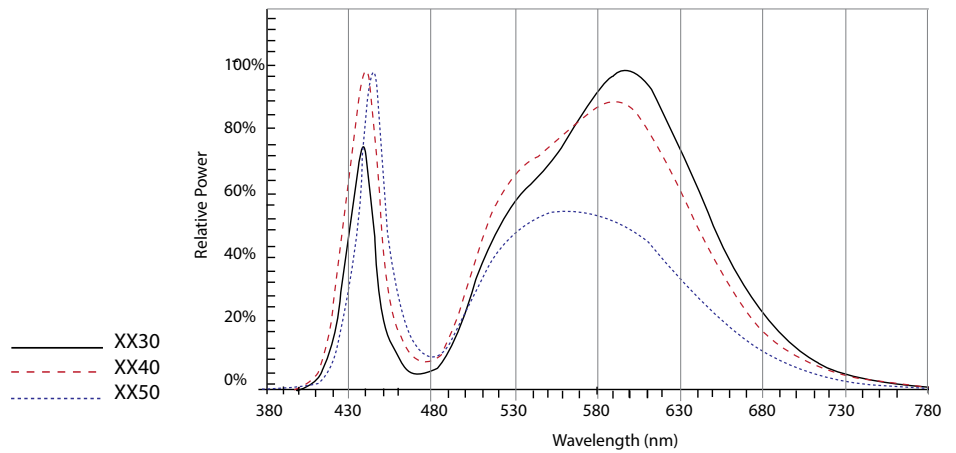
Note: Fixture does not dim to off, fixture dims to 10% minimum output.

COLOR CHARACTERISTICS

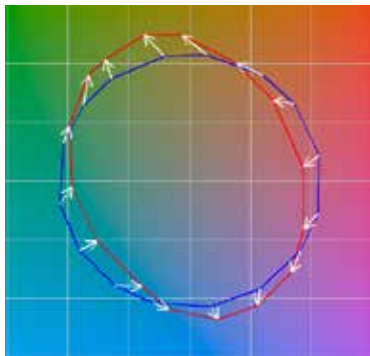
Value	Ordering Code		
	XX30	XX40	XX50
Rf	69	69	71
Rg	99	99	98
CCT(K)	3122	3852	5020
Duv	0.001	0.0004	0.0005
CIE Ra	74	73	74

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

SPECTRAL POWER DISTRIBUTION COMPARISON

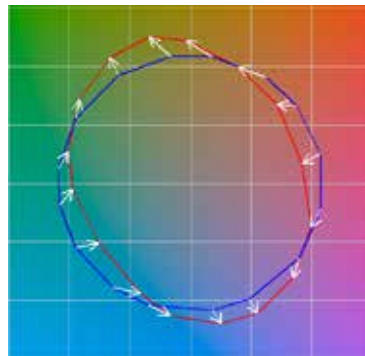


COLOR VECTOR GRAPHIC



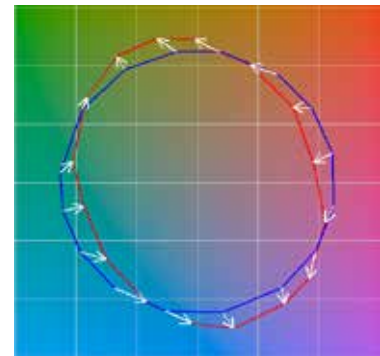
— Reference Illuminant — Test Source — Series1 — Series2
 — Series3 — Series4 — Series5 — Series6
 — Series7 — Series8 — Series9 — Series10

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.
- 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

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



JOB	_____
TYPE	_____
NOTES	_____

SPECIFICATIONS

Integral Pole

MODEL	HEIGHT		SHAFT		MAXIMUM ALLOWABLE EPA (MPH)			
	OVERALL	POLE	SECTION	WT	70	80	90	100
KM5X-PS510-188	10' 9" / 3.28m	10'	5" SQ X .188"	61 lbs	32.2	24.5	18.0	14.5
KM5X-PS512-188	12' 9" / 3.89m	12'	5" SQ X .188"	69 lbs	29.0	21.5	15.7	12.5
KM5X-PS514-188	14' 9" / 4.50m	14'	5" SQ X .188"	78 lbs	25.0	18.5	13.5	10.5
KM5X-PS516-188	16' 9" / 5.10m	16'	5" SQ X .188"	86 lbs	21.7	15.7	11.3	8.5
KM5X-PS518-188	18' 9" / 5.71m	18'	5" SQ X .188"	95 lbs	18.5	12.8	9.0	6.5
KM5X-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.

