

## 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



3000K and warmer CCTs only



Kick Small

### 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)

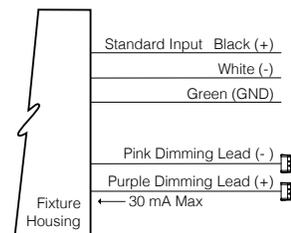
- Patent Pending design of optical array is independently shielding each LED optic across the length of the aperture
- Optical surfaces are painted white unless the optional fixture finish (FO) or matte black finish (MO) is selected
- Optional matte black finish optics (MO) are required to meet UO classification 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

#### 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
- 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



continued on page 3

KEY DATA	
LUMEN RANGE	4,312–7,939
WATTAGE RANGE	24–33
EFFICACY RANGE (LPW)	50–70
WEIGHT	15 lbs 6.80 kg
EPA	0.75

## ORDERING GUIDE

Example: KM51-T2-FO-5040-MCPCR-SF-347-PS412-125-BLT

CATALOG #

Model (5" wide luminaire)	Optics (Distribution)	Optics Finish	Light Engine <sup>1</sup>	Fuse (may choose one)
<b>KM51</b> Single fixture	<b>T2</b> IES Type II	<b>MO</b> Optics in Matte Black finish	580-590nm monochromatic amber and or custom lumen package available by request.	<b>SF</b> 120, 277, 347 Volt
<b>KM52</b> Two fixtures 180° apart	<b>T3</b> IES Type III	<b>FO</b> Optics in fixture finish	<b>5030</b> 3000K CCT, CRI 70, 50 watts	<b>DF</b> 208, 240, 480 Volt
<b>KM53</b> Three fixtures 90° apart	<b>T4</b> IES Type IV		<b>5040</b> 4000K CCT, CRI 70, 50 watts	
<b>KM54</b> Four fixtures 90° apart			<b>5050</b> 3000K CCT, CRI 70, 50 watts	
			<b>7030</b> 3000K CCT, CRI 70, 70 watts	
			<b>7040</b> 4000K CCT, CRI 70, 70 watts	
			<b>7050</b> 5000K CCT, CRI 70, 70 watts	
			5-Step MacAdam Ellipse Binning is standard. Consult Factory for 3-Step MacAdam Ellipse Binning.	
			Consult Factory regarding availability of the following options.	
			<b>27K8</b> 2700K CRI 80	
			<b>27K9</b> 2700K CRI 90	
			<b>3K8</b> 3000K CRI 80	
			<b>3K9</b> 3000K CRI 90	
			<b>35K8</b> 3500K CRI 80	
			<b>35K9</b> 3500K CRI 90	
			<b>4K8</b> 4000K CRI 80	
			<b>4K9</b> 4000K CRI 90	
			<b>5K8</b> 5000K CRI 80	
			<b>5K9</b> 5000K CRI 90	

Control (Optional)	Voltage	Mounting Method	Fixture Finish
<b>MCPCR</b> Multi-Channel 7-Pin Photocell Receptacle	<b>WIRED</b> 120-277 input standard or you may choose one	<b>P</b> Pole By AAL	<b>Standard Color</b>
<b>SCP</b> Sensor Control Programmable	<b>347</b> 347 VAC input	<b>SMK</b> Mounts to the side of a square pole (KM51 Only)	<b>BLS</b> Black Gloss Smooth
<b>SCPREMOTE</b> Handheld Commissioning Tool (Need 1 total, if fixtures have SCP)	<b>480</b> 480 VAC input	<b>TA23</b> Tenon - 2.375" (60mm) X 4" (102mm)	<b>BLT</b> Black Matte Textured
<b>NXOFM-1R1D-UNV</b> NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming		<b>WMK</b> Wall Mount	<b>DBS</b> Dark Bronze Gloss Smooth
			<b>DBT</b> Dark Bronze Matte Textured
			<b>GTT</b> Graphite Matte Texture
			<b>LGS</b> Light Grey Gloss Smooth
			<b>LGT</b> Light Grey Matte Textured
			<b>PSS</b> Platinum Silver Gloss Smooth
			<b>VGT</b> Verde Green Matte Textured
			<b>WHS</b> White Gloss Smooth
			<b>WHT</b> White Matte Textured
			<b>Color Options</b>
			<b>CC</b> Custom Color <sup>2</sup>
			<b>CLA</b> Clear Anodized Finish (Clear protective undercoat for added protection in coastal or other harsh environments.) <sup>2</sup>

Notes:

- 1 580-590nm monochromatic amber and or custom lumen package available by request
- 2 Consult factory for custom color, marine and corrosive finish

## ORDERING GUIDE (CONTINUED)

**Example:** KM51-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 Model	Fixtures (Choose One)	Aluminum Pole By AAL	Mounting Style	Pole Diameter	Pole Length	Pole Shaft Thickness
KM5 KM5	1 Single Fixture	P Pole By AAL	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 Mount Staggered (May Choose One)	Receptacle Options (Choose One)	Base Cover	Anchor Bolts	Anchor Bolt Template
TS8 8" Luminaire Height	<b>GFI</b> GFCI Receptacle 24" from top of the pole (RBC Included) <b>RBC</b> Receptacle Box w/clear cover, wiring device(s) not included	SBC Standard Base Cover	AB Anchor Bolts	T Template
TS10 10" Luminaire Height				
TS12 12" Luminaire Height				
TS14 14" Luminaire Height				
TS16 16" Luminaire Height				
TS20 18" Luminaire Height				

**Example:** KM51-SSS-A-14-50B-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 Model	Fixtures (Choose One)	Steel Pole	Brand	Pole Length	Pole Shaft Diameter	Pole Shaft Thickness (Choose One)
KM5 KM5	1 Single Fixture	SSS Straight Steel Pole	A AAL	10 10" Pole Height	50 5 Inch Square	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)	Receptacle Orientation	Receptacle Height From Base	Extra Handhole (Optional)
TA Tenon 2" (2.375" O.D.)	<b>GFI</b> GFCI Receptacle 24" from top of the pole (RBC Included) Receptacle Box w/clear cover, wiring device(s) not included	0 0 Degrees from center	03 3 Feet from base	EHH Extra Handhole
TB Tenon 2.5" (2.875" O.D.)		90 90 Degrees from center	04 4 Feet from base	
TC Tenon 3" (3.5" O.D.)		180 180 Degrees from center	05 5 Feet from base	
TR Removeable Tenon		270 270 Degrees from center	06 6 Feet from baser	
OT Open Top			07 7 Feet from base	
			08 8 Feet from base	
			09 9 Feet from base	
			10 10 Feet from baser	
			11 11 Feet from baser	

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

## SPECIFICATIONS (CONTINUED)

MODEL	HEIGHT OVERALL	POLE	SHAFT SECTION	WT	70	MAXIMUM ALLOWABLE EPA (MPH)		
						80	90	100
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

\* - 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

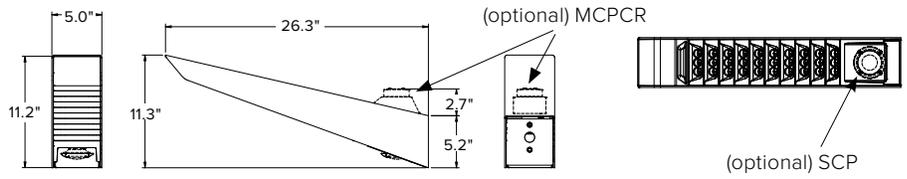
## DELIVERED LUMENS

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	
50	Standard White	Type 2	T2	5317	2	2	1	106	5647	2	2	1	113	5614	2	2	1	112
		Type 3	T3	5502	1	2	1	110	5842	1	2	1	117	5808	1	2	1	116
		Type 4	T4	5699	1	2	1	114	6052	1	2	1	121	6016	1	2	1	120
	Fixture Match	Type 2	T2-FO	5312	2	2	1	106	4579	2	2	1	92	4552	2	2	1	91
		Type 3	T3-FO	4359	1	2	1	87	4629	1	2	1	93	4602	1	2	1	92
		Type 4	T4-FO	4910	1	2	1	98	5214	1	2	1	104	5183	1	2	1	104
	Matte Black	Type 2	T2-MO	4312	1	0	1	86	4579	1	0	1	92	4552	1	0	1	91
		Type 3	T3-MO	4359	1	0	1	87	4629	1	0	1	93	4602	1	0	1	92
		Type 4	T4-MO	4910	1	0	1	98	5214	1	0	1	104	5183	1	0	1	104
70	Standard White	Type 2	T2	6976	2	2	2	100	7408	2	2	2	106	7365	2	2	2	105
		Type 3	T3	7218	2	2	1	103	7664	2	2	1	109	7620	2	2	1	109
		Type 4	T4	7476	2	2	1	107	7939	2	2	2	113	7893	2	2	2	113
	Fixture Match	Type 2	T2-FO	5657	2	2	2	81	6007	2	2	2	86	5972	2	2	2	85
		Type 3	T3-FO	5719	2	2	1	82	6073	2	2	1	87	6038	2	2	1	86
		Type 4	T4-FO	6441	2	2	1	92	6840	2	2	2	98	6800	2	2	2	97
	Matte Black	Type 2	T2-MO	5657	2	0	1	81	6007	2	0	1	86	5972	2	0	1	85
		Type 3	T3-MO	5719	1	0	1	82	6073	1	0	1	87	6038	1	0	1	86
		Type 4	T4-MO	6441	2	0	1	92	6840	2	0	1	98	6800	2	0	1	97

## DIMENSIONS

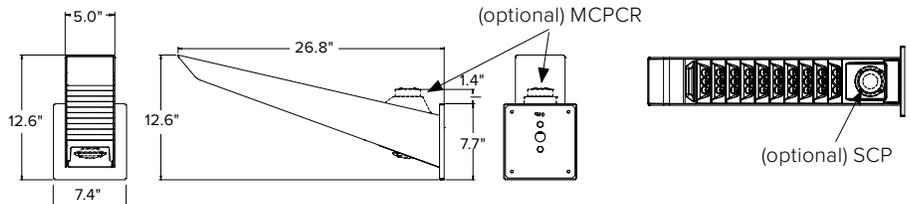
### SIDE MOUNTED LUMINAIRE (S)

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



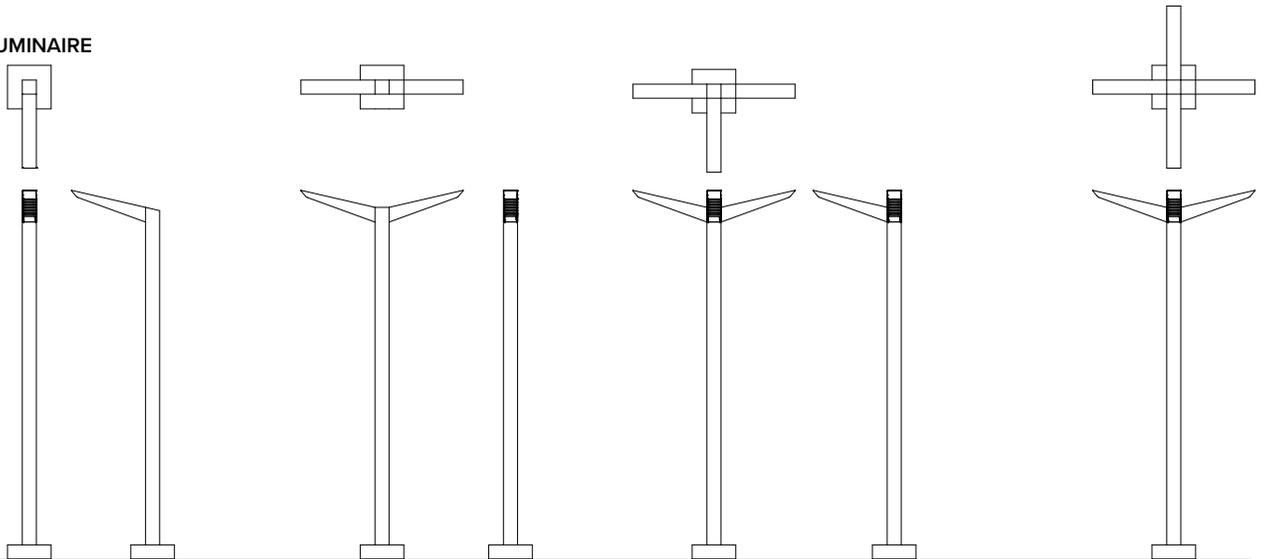
### WALL MOUNTED LUMINAIRE (S)

MODEL	KM51-...-WMK
OVERALL HEIGHT	12.6" / 320mm
OVERALL LENGTH	26.8" / 681mm
OVERALL WIDTH	7.4" / 88mm
WEIGHT	15 lbs.



### INTEGRAL POLE LUMINAIRE

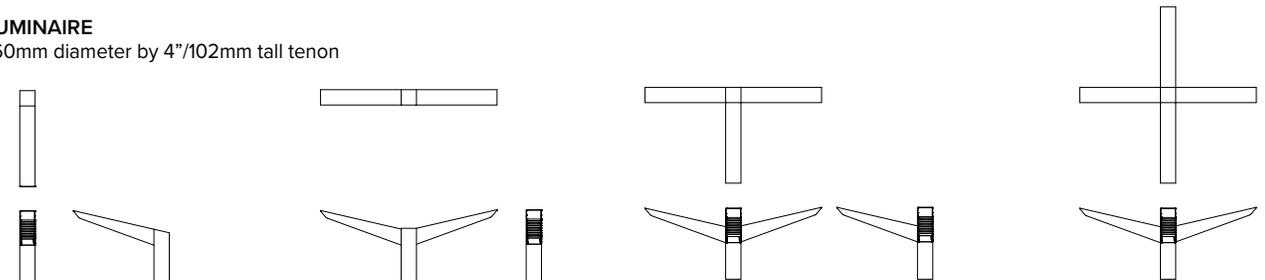
\* Weight and EPA for fixtures only



MODEL	KM51-...-PS5XX-188	KM52-...-PS5XX-188	KM53-...-PS5XX-188	KM54-...-PS5XX-188
OVERALL LENGTH	31.3" / 655MM	15.5" / 394MM	31.3" / 795MM	57.6" / 463MM
OVERALL WIDTH	15.5" / 394MM	57.6" / 463MM	57.6" / 1463MM	57.6" / 1463MM
WEIGHT	13.25 LBS.	13.25 LBS.	13.25 LBS.	13.25 LBS.
EPA*	0.75	1.5	2.0	2.0

### TENON MOUNT LUMINAIRE

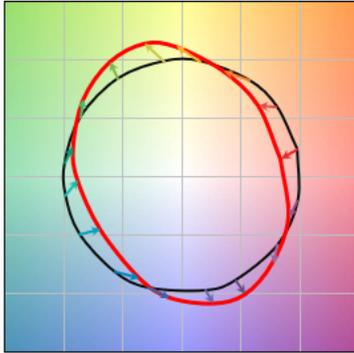
Slips over a 2 3/8"/60mm diameter by 4"/102mm tall tenon



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" / 1206MM
OVERALL WIDTH	5" / 127MM	57.6" / 1463MM	57.6" / 1463MM	57.6" / 1206MM
WEIGHT	13.25 LBS.	13.25 LBS.	13.25 LBS.	13.25 LBS.
EPA*	1.14	1.89	2.4	2.4

## TM-30 DATA

### COLOR VECTOR GRAPHIC

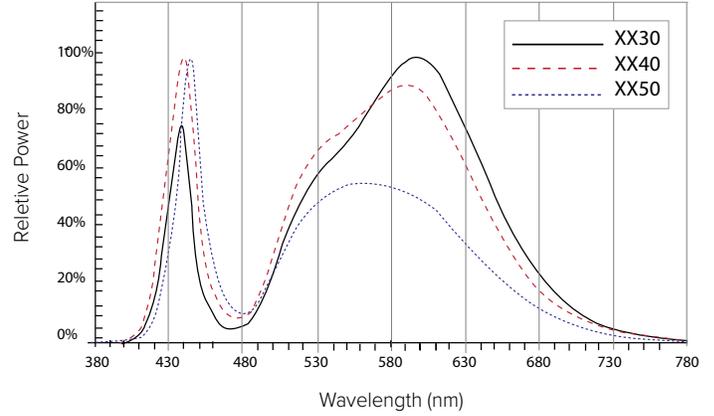


— Reference Illuminant — Test Source

### 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		INPUT		MIN. POWER FACTOR	MAX THD (%)	MIN. POWER	INRUSH CURRENT PEAK				DIMMING	
			VAC	HZ	AMPS AC					(A)		T@50% (MS)	DIMMING RANGE (V)	SOURCE/SINK CURRENT (MA)	
					120	277				120	277				
20XX	500	24	120-277	50/60	0.2	0.1	>0.9	20		65	100	0-10	1		
30XX	700	33	120-277		0.3	0.1									

### TM-21 LIFETIME CALCULATION (500MA)

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%	

### 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	WRSC	16'	20'	24'	28'	32'	36'	40'	1:2

