

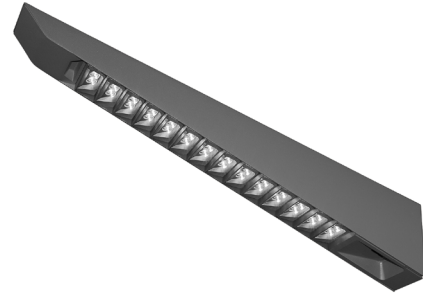
FEATURES

- 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™



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)

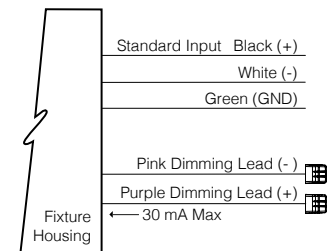
- Patent Pending design of optical array is independently shielding each LED optic across the length of the aperture
- Optical surfaces are painted white unless the optional fixture finish (FO) or matte black finish (MO) is selected
- Optional matte black finish optics (MO) are required to meet UO classification 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	1,9090–3,576
WATTAGE RANGE	24–33
EFFICACY RANGE (LPW)	77–115
WEIGHT	8.95 lbs 4.05 kg
EPA	0.56

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: KM41-T2-FO-5040-MCPCR-SF-347-PS412-125-BLT

CATALOG #

Model (4" wide luminaire)	Optics (Distribution)	Optics Finish	Light Engine ¹	Fuse (may choose one)
KM41 Single fixture	T2 IES Type II	MO Optics in Matte Black finish	20AM Amber 580-590nm, 21 watts	SF 120, 277, 347 Volt input
KM42 Two fixtures 180° apart	T3 IES Type III	FO Optics in fixture finish	2030 3000K CCT, CRI 70, 24 watts	DF 208, 240, 480 Volt input
KM43 Three fixtures 90° apart	T4 IES Type IV		2040 4000K CCT, CRI 70, 24 watts	
KM44 Four fixtures 90° apart			2050 3000K CCT, CRI 70, 24 watts	
			3030 3000K CCT, CRI 70, 33 watts	
			3040 4000K CCT, CRI 70, 33 watts	
			3050 5000K CCT, CRI 70, 33 watts	
			5-Step MacAdam Ellipse Binning is standard	
			Consult Factory for 3-Step MacAdam Ellipse Binning is standard	
			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	

Control (Optional)	Voltage (Choose One)	Mounting Method (Choose One)	Fixture Finish
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>
SCP Sensor Control Programmable	347 347 VAC input	SMK Mounts to the side of a square pole (KM41 Only)	BLS Black Gloss Smooth
SCPREMOTE Handheld Commissioning Tool (Need 1 total, if fixtures have SCP)	480 480 VAC input	TA23 Tenon - 2.375"(60mm) X 4"(102mm)	BLT Black Matte Textured
NXOFM-1RD1-UNV NX 7-Pin On-Fixture Module, 1-Relay, 1-Dimmer, 120V-480V		WMK Wall Mount	DBS Dark Bronze Gloss Smooth
			DBT Dark Bronze Matte Textured
			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
- Consult factory for custom color, marine and corrosive finish

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE (CONTINUED)

Example: KM41-PS414-125-TS8-GFI-BLS-SBC-ABT

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

	-		-		-		-	
Pole Model	Fixtures (Choose One)	Aluminum Pole By AAL	Mounting Style	Pole Diameter	Pole Length	Pole Shaft Thickness		
KM4 KM4	1 Single Fixture	P Pole By AAL	S Square	4 4" O.D.	10 10" Pole Height	125 0.125" 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	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				
TS10 10" Luminaire Height								
TS12 12" Luminaire Height								
TS14 14" Luminaire Height								
TS16 16" Luminaire Height								
TS18 18" Luminaire Height								

Example: KM41-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)		
KM4 KM4	1 Single Fixture	SSS Straight Steel Pole	A AAL	10 10" Pole Height	40 4 Inch Square	B 0.125" Wall		
	2 Twin fixtures			12 12" Pole Height		C 0.188" 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.)	GFI GFCI Receptacle (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 Location	Extra Handhole Height From Base	Coupling 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							

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

SPECIFICATIONS (CONTINUED)

MODEL	HEIGHT OVERALL	POLE	SHAFT SECTION	WT	MAXIMUM ALLOWABLE EPA (MPH)							
					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"45	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.

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 #:	

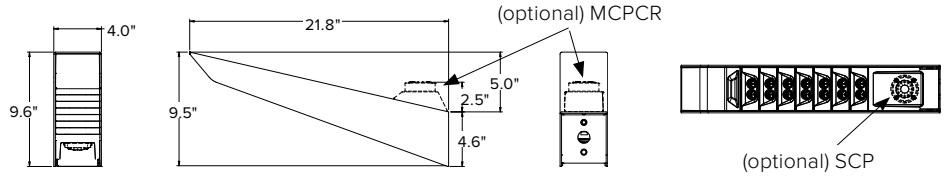
DELIVERED LUMENS

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	
24	Standard White	Type 2	T2	2507	1	2	1	106	2613	1	2	1	111	2647	1	2	1	112
		Type 3	T3	2447	1	1	1	104	2555	1	1	1	108	2589	1	1	1	110
		Type 4	T4	2561	1	1	1	109	2670	1	1	1	113	2704	1	1	1	115
	Fixture Match	Type 2	T2-FO	1909	1	2	1	81	2058	1	2	1	87	2015	1	2	1	85
		Type 3	T3-FO	1930	1	1	1	82	2061	1	1	1	87	2038	1	1	1	86
		Type 4	T4-FO	2174	1	1	1	92	2343	1	1	1	99	2295	1	1	1	97
	Matte Black	Type 2	T2-MO	1909	1	0	0	81	2058	1	0	0	87	2015	1	0	0	85
		Type 3	T3-MO	1930	1	0	0	82	2081	1	0	0	88	2038	1	0	0	86
		Type 4	T4-MO	2174	1	0	0	92	2343	1	0	0	99	2295	1	0	0	97
33	Standard White	Type 2	T2	3315	1	2	1	101	3455	1	2	1	105	3500	1	2	1	106
		Type 3	T3	3242	1	2	1	99	3379	1	2	1	103	3423	1	2	1	104
		Type 4	T4	3387	1	1	1	103	3530	1	1	1	107	3576	1	1	1	109
	Fixture Match	Type 2	T2-FO	2535	1	2	1	77	2716	1	2	1	83	2676	1	2	1	81
		Type 3	T3-FO	2563	1	2	1	78	2746	1	2	1	83	2706	1	2	1	82
		Type 4	T4-FO	2886	1	1	1	88	3093	1	1	1	94	3047	1	1	1	93
	Matte Black	Type 2	T2-MO	2535	1	0	1	77	2716	1	0	1	83	2676	1	0	1	81
		Type 3	T3-MO	2563	1	0	0	78	2746	1	0	0	83	2706	1	0	0	82
		Type 4	T4-MO	2886	1	0	1	88	3093	1	0	1	94	3047	1	0	1	93

DIMENSIONS

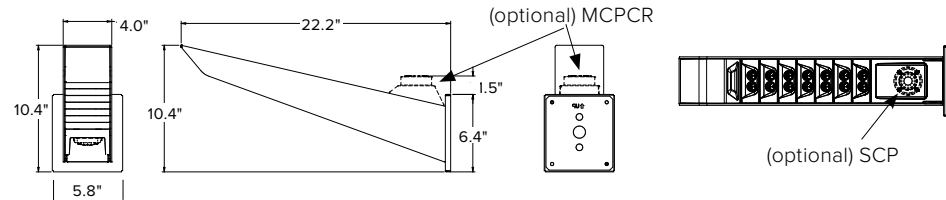
SIDE MOUNTED LUMINAIRE (S)

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

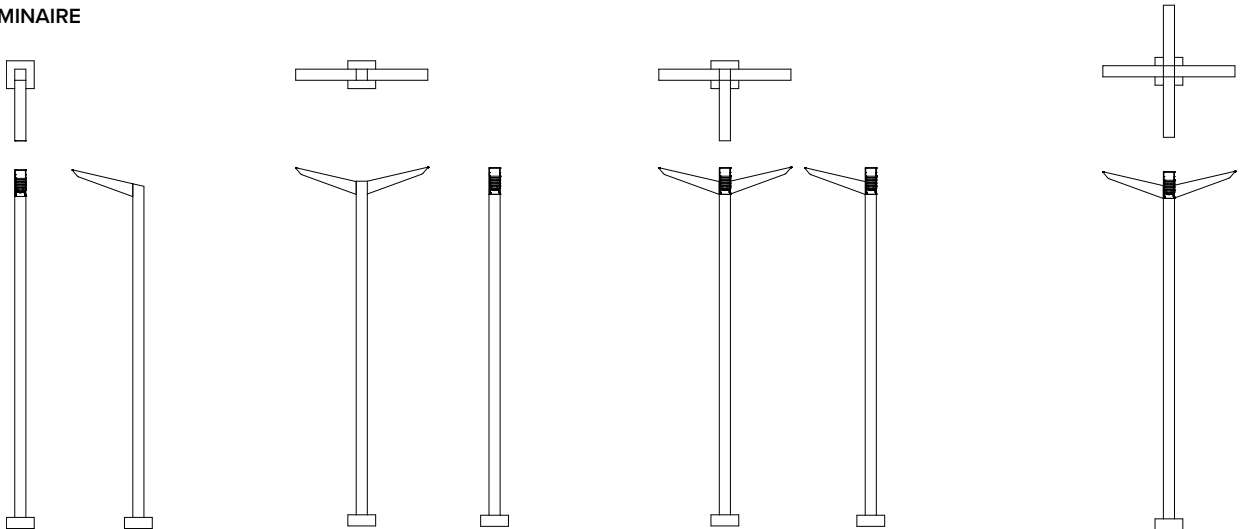


WALL MOUNTED LUMINAIRE (S)

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



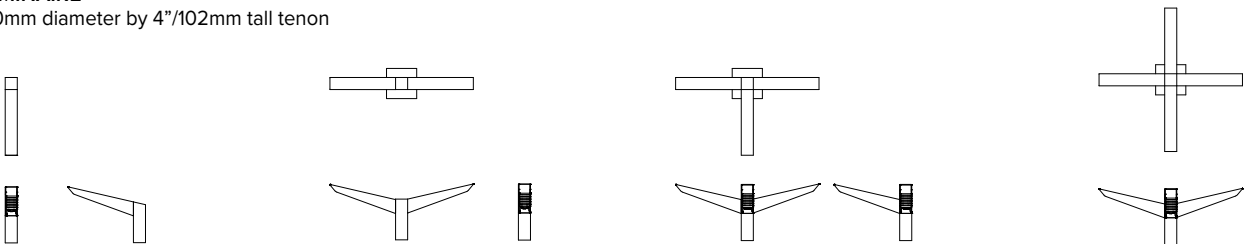
INTEGRAL POLE LUMINAIRE



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

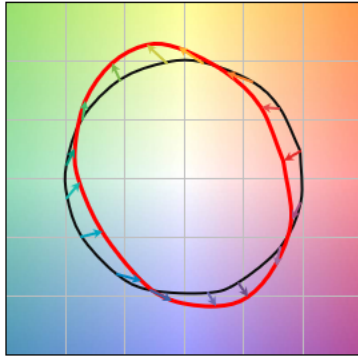
Slips over a 2 3/8"/60mm diameter by 4"/102mm tall tenon



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

TM-30 DATA

COLOR VECTOR GRAPHIC

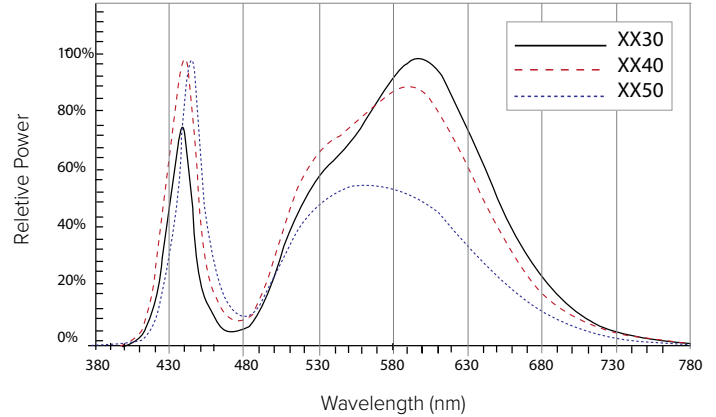


— Reference Illuminant — Test Source

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 (%)	DRIVER OPERATING TEMP. RANGE	INRUSH CURRENT PEAK				DIMMING	
					AMPS AC					(A)		T@50% (MS)		DIMMING RANGE (V)	SOURCE/ SINK CURRENT (MA)
			VAC	HZ	120	277				120	277	120	277		
					20XX	500				24	120-277	50/60	0.2		
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

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

