architectural arealighting

KM5A-LED

ARCHITECTURAL AREA LIGHTING

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

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)

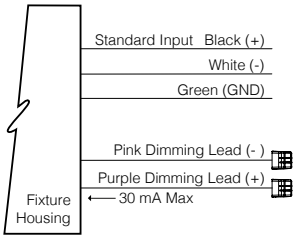
- Patent Pending design of optical array is independently shielding each LED optic across the length of the aperture
- Optical surfaces are painted white unless the optional fixture finish (FO) or matte black finish (MO) is selected
- Optional matte black finish optics (MO) are required to meet UO classification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

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

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

CATALOG # _____

Model (5" wide luminaire)		Optics (Distribution)		Optics Finish		Light Engine [1]		Fuse (may choose one)	
KM51	Single fixture	**T2**	IES Type II	**MO**	Optics in Matte Black finish	580-590nm monochromatic amber and or custom lumen package available by request.		**SF**	120, 277, 347 Volt
KM52	Two fixtures 180° apart	**T3**	IES Type III	**FO**	Optics in fixture finish	**5030**	3000K CCT, CRI 70, 50 watts	**DF**	208, 240, 480 Volt
KM53	Three fixtures 90° apart	**T4**	IES Type IV			**5040**	4000K CCT, CRI 70, 50 watts		
KM54	Four fixtures 90° apart					**5050**	3000K CCT, CRI 70, 50 watts		
						7030	3000K CCT, CRI 70, 70 watts		
						7040	4000K CCT, CRI 70, 70 watts		
						7050	5000K CCT, CRI 70, 70 watts		
						5-Step MacAdam Ellipse Binning is stardard.			
						Consult Factory for 3-Step MacAdam Ellipse Binning.			
						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		Mounting Method		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 (KM51 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
NXOFM2-1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming			**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:

1 580-590nm monochromatic amber and or custom lumen package available by request

2 Consult factory for custom color, marine and corrosive finish

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KM5A-LED

ARCHITECTURAL AREA LIGHTING

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 **2** Twin fixtures **3** Triple fixtures **4** Quad fixtures	**P** Pole By AAL	**S** Square	**5** 5" O.D.	**10** 10" Pole Height **12** 12" Pole Height **14** 14" Pole Height **16** 16" Pole Height **18** 18" Pole Height **20** 20" Pole Height	**188** 0.188" Wall

Twin Mount Staggered (May Choose One)	Receptacle Options (Choose One)	Base Cover	Anchor Bolts	Anchor Bolt Template
TS8 8" Luminaire Height **TS10** 10" Luminaire Height **TS12** 12" Luminaire Height **TS14** 14" Luminaire Height **TS16** 16" Luminaire Height **TS20** 18" 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

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 **2** Twin fixtures **3** Triple fixtures **4** Quad fixtures	**SSS** Straight Steel Pole	**A** AAL	**10** 10" Pole Height **12** 12" Pole Height **14** 14" Pole Height **16** 16" Pole Height **18** 18" Pole Height **20** 20" Pole Height **25** 25" Pole Height **30** 30" Pole Height	**50** 5 Inch Square	**B** 0.188" Wall **C** 0.250" Wall

Mounting Method (Choose One)	Receptacle Options (Choose One)	Receptacle Orientation	Receptacle Height From Base	Extra Handhole (Optional)
TA Tenon 2" (2.375" O.D.) **TB** Tenon 2.5" (2.875" O.D.) **TC** Tenon 3" (3.5" O.D.) **TR** Removeable Tenon **OT** Open Top	**GFI** 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 **90** 90 Degrees from center **180** 180 Degrees from center **270** 270 Degrees from center	**03** 3 Feet from base **04** 4 Feet from base **05** 5 Feet from base **06** 6 Feet from baser **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	**EHH** Extra Handhole

Extra Handhole Height From Base		Coupling Options (Optional)	Vibration Dampener (Optional)	Base Cover
03 3 Feet from base **04** 4 Feet from base **05** 5 Feet from base **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	**C05** 1/2" Coupling **C07** 3/4" Coupling **C20** 2" Coupling	**VM1** First Mode **VM2** Second Mode **VM3** Third Mode	**SBC** Standard Base Cover

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SPECIFICATIONS (CONTINUED)

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

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DELIVERED LUMENS

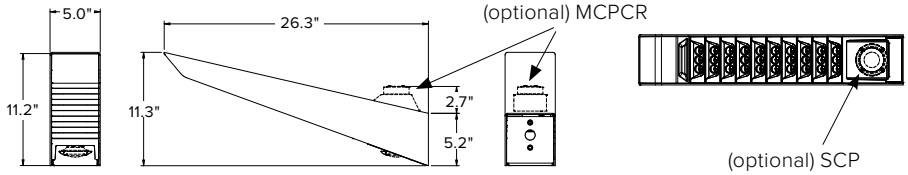
System Watts	Optical Finish	Distribution	Ordering Code	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
					B	U	G			B	U	G			B	U	G	
50	Standard White	Type 2	T2	5317	2	2	1	106	5647	2	2	1	113	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

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DIMENSIONS

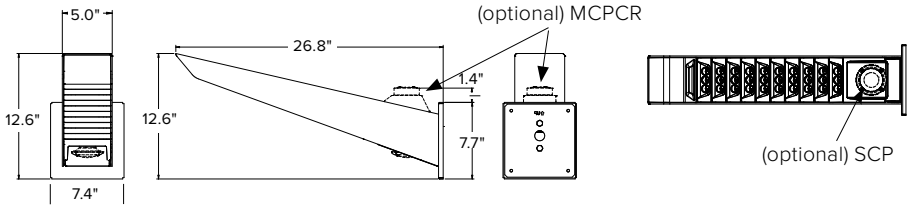
SIDE MOUNTED LUMINAIRE (S)

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



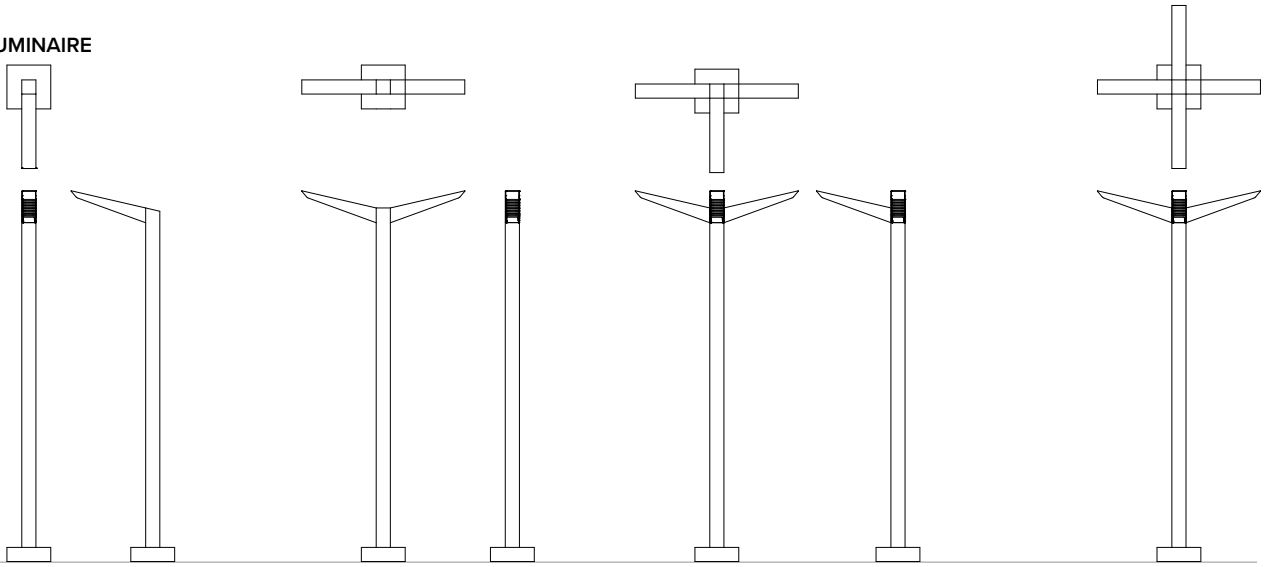
WALL MOUNTED LUMINAIRE (S)

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



INTEGRAL POLE LUMINAIRE

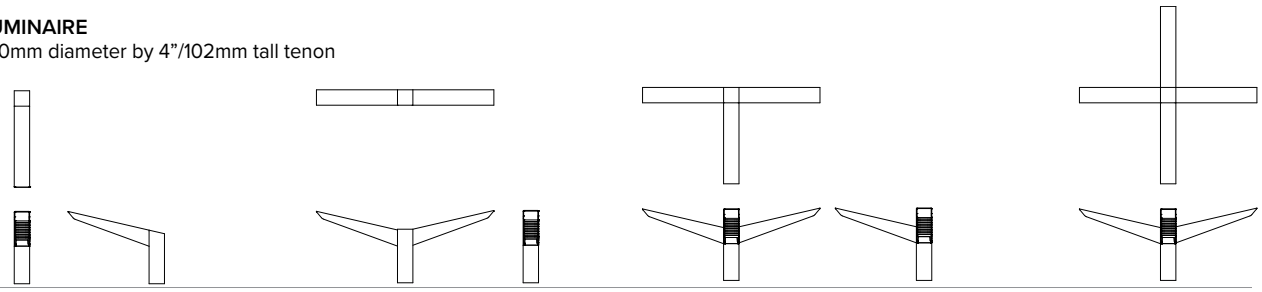
* Weight and EPA for fixtures only



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

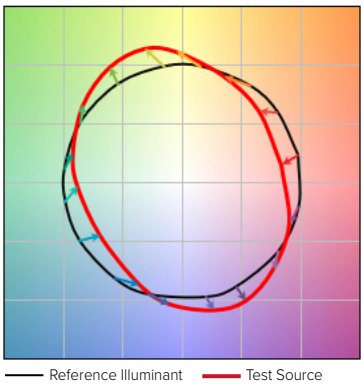
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KM5A-LED

ARCHITECTURAL AREA LIGHTING

TM-30 DATA

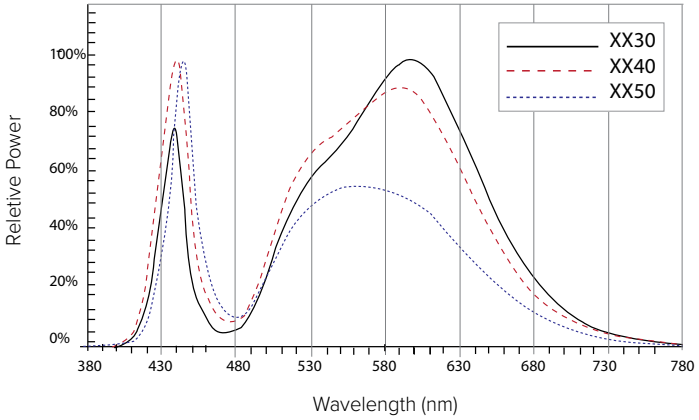
COLOR VECTOR GRAPHIC



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

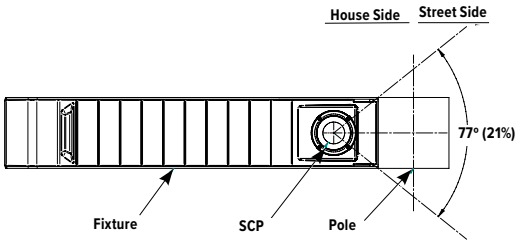
ORDERING CODE	LED CURRENT (MA)	SYSTEM WATTAGE (W)	LINE INPUT		INPUT		MIN. POWER FACTOR	MAX THD (%)	MIN. POWER	INRUSH CURRENT PEAK				DIMMING	
					AMPS AC					(A)		T@50% (MS)		DIMMING RANGE (V)	SOURCE/ SINK CURRENT (MA)
			VAC	HZ	120	277				120	277	120	277		
20XX	500	24	120-277	50/60	0.2	0.1	>0.9	20		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 DIAMETER	SCP	20'	25'	30'	35'	40'	45'	50'	1:2.5
	WRSC	16'	20'	24'	28'	32'	36'	40'	1:2



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