

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS
SOUTHSIDE AND FT. WHITE RECREATION COMPLEX LIGHTING
BID NO. 2017-A
ADDENDUM 1**

Please review and use the corrected Bid Form attached.

Additional Specifications Attached.

Bid Form
Columbia Board of County Commissioners
Southside and Fort White Recreation Complex Sidewalk Lighting
Bid No. 2017-A

Bids must be received in the Office of the Board of County Commissioners, Columbia County, 135 NE Hernando Avenue, P.O. Box 1529, Lake City, FL, 32056-1529. No later than 11:00 A. M., on January 24, 2017, in a sealed envelope, plainly marked: "Sealed Bid For: Sidewalk Lighting Project" and the name of the firm submitting bid.

Bids will be opened in the Office of the Board of County Commissioners at 11:00 A. M., on January 24, 2017 or as soon thereafter as practical.

Columbia County reserves the right to reject any and/or all bids and to accept the bid in the county's best interest, bid F.O.B., Columbia County, Florida.

BID PRICES

Southside Recreation Complex	\$ _____
Fort White Recreation Complex	\$ _____
Total Lump Sum	\$ _____

Company Name

Signature and Title

ADDRESS: _____

PHONE/FAX: _____

FEATURES & SPECIFICATIONS

INTENDED USE — Use for parking lots, streets and surrounding areas.

CONSTRUCTION — Heavy gauge die-formed aluminum housing is fabricated using robotic continuous seam-weld process for weather-tight integrity. Integral structural support plate for mounting arm and electrical components ensures rigidity and strength. Hinged aluminum door frame incorporates stainless steel hardware. Continuous silicone gasketing surrounds lens for weather-tight seal. Optional tool-less hardware is available to maximize installation and maintenance ease.

Lens: Thermal shock resistant tempered glass lens. Choice of contoured drop lens or flat lens is available in standard product.

Standard finish is dark bronze corrosion resistant electrostatically applied powder paint. Optional linear embossed accent reveals are available.

OPTICS — Most flat lens configurations meet full-cutoff criteria. See www.lithonia.com for details. Vertical-lamp reflectors are 1 piece spun and formed anodized aluminum. Specialized distributions available for either drop lens or flat lens. Reflectors are independently designed to optimize light output for the lens type. Horizontal-lamp reflectors also available.

ELECTRICAL — All electrical components are mounted to a heavy-gauge plate to maximize heat dissipation and ensure structural integrity for optimal component life. Ballast: Constant wattage autotransformer. Metal Halide: Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for 175-400W (SCWA option) for US shipments only. CSA, NOM or IHL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320V, 350W, 450W, 750W, 775W or 875W. Ballast is 100% factory-tested.

Socket: Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Vertically-oriented for types SYM, ASY, and VFA distributions. Horizontal position oriented for types R2, R3 and R4. UL listed 1500W-600V, 4kV pulse rated. Reflectors are rotatable and interchangeable.

INSTALLATION — Extruded aluminum arm with integral splice compartment. Standard arm is 9" in length. Aluminum fitter for 4" to 6" OD poles.

LISTINGS — UL listed to US and Canadian safety standards (see Options). NOM Certified (see options). UL listed for 25°C ambient and wet locations. Optical chamber IP65 rated.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.lithonia.com/CustomerResources/terms_and_conditions.asp.

Actual performance may differ as a result of end user environment and application.

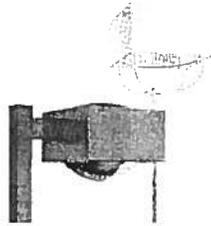
Note: Specifications subject to change without notice.

Catalog Number
Notes
Type

Square Area Lighting

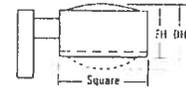
KVF2

METAL HALIDE: 175-1000W
HIGH PRESSURE SODIUM: 250-1000W
20' to 40' Mounting



Specifications

Square: 21-1/2 (54.6)	Post top
Flat lens height: 14 (35.5)	FPA: 2.8 ft (0.25 m)
Drop lens height: 17 (43.2)	Weight: +2 lbs to *
Arm mount	Overall Height: 22-3/4 (57.8)
EPA: 2.8 ft (0.25 m), incl. arm	
*Weight: 53 lbs (24 kg)	
*Weight as configured in example below	
Dimensions in inches (centimeters) unless otherwise specified.	



Mounting Pole	Drilling Template
SPax, RPax	5
WBax	6
WWax	7

ORDERING INFORMATION For shortest lead times, configure products using bolded options

Example: KVF2 400M SYMDL TB SCWA SP09 LPI

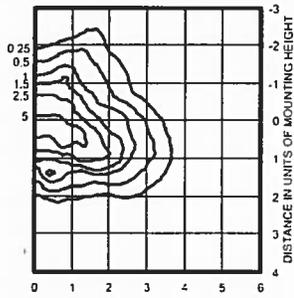
Series	Wattage		Distribution		Voltage	Ballast	Mounting	
	Metal halide	High pressure sodium	Vertical lamp*	High-performance horizontal lamp*			Type	Size ¹⁶
KVF2	400M ^{1,2}	750M ^{1,2}	SYM Symmetric square	SR2FL Type II roadway	120	(blank) Magnetic ballast	SP Square pole	06 6" arm
	175M ^{1,2}	750M ^{1,2}	ASY Asymmetric	SR3FL Type III asymmetric	208 ⁹	CWL Constant wattage isolated	RP Round pole	09 9" arm
	200M ^{1,2}	775M ^{1,2}	VFA Vertical forward throw automotive	SR45FL Type IV forward throw, sharp cutoff	240 ⁹	Pulse Start SCWA Super CWA ballast	WB Wall bracket	12 12" arm
	250M ^{1,2}	875M ^{1,2}	Horizontal lamp*	SR4WFL Type IV forward throw, wide	277	Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	WW Wood pole or wall bracket	
	320M ^{1,2}	1000M ^{1,2}	R2 Type II		347		PT Post top, open top pole	4 4" OD
	350M ^{1,2}	1000M ^{1,2}	R3 Type III		460 ⁹			45 4.5" OD
					18"			5 5" OD
				23050HZ ⁷				6 6" OD

Options			Finish ¹⁸			Lamp (required)
Shipped installed in fixture	EHS External houseside shield (matches fixture finish) ^{15, 16}	Shipped separately	(blank) Dark bronze	DBLKD Black	LPI Lamp included	
SF Single fuse 120, 277, 347V ¹¹	EHSB External houseside shield black (painted black to maximize light control) ^{15, 16}	VG Vanflap guard ^{12, 13}	DBL Black	DHAXD Natural aluminum	L/LP Less lamp	
DF Double fuse 208, 240, 480V ¹¹	CSA Listed and labeled to comply with Canadian Standards	PE1 NEMA twist-lock PE (120, 208, 240V)	DGC Charcoal gray	DWHXD White		
KW1 KiloWatch ¹⁷ 120V control relay ^{18, 19}	NOIA NOM certified ¹⁷	PE3 NEMA twist-lock PE (347V)	DMB Medium bronze	DDBTXD Textured dark bronze		
KW4 KiloWatch ¹⁷ 277V control relay ^{18, 19}	IHL Available for 175M probe start shipping outside the US	PE4 NEMA twist-lock PE (480V)	DNA Natural aluminum	DBLBDX Textured black		
PER NEMA twist-lock receptacle only (photocontrol not included)	REGC1 California Title 20 effective 1/1/2010	PE7 NEMA twist-lock PE (277V)	DWH White	DHATXD Textured natural aluminum		
QRS Quartz restrick system ¹⁴		SC Shorting cap	Super Durable Finishes	DWHGXD Textured white		
QRSTD QRS time delay ^{14, 16}			DDBXD Dark bronze			
EA Embossed accent						

- Notes
- These wattages do not comply with California Title 20 regulations.
 - Must be ordered with SCWA. 750M not available with 347V or 480V.
 - These wattages require the RLEC1 option to be chosen for shipments into California for Title 20 compliance. 750M RLEC1 is not available in 347 or 480V.
 - Must specify voltage (120, 208, 240, 277, 347 or 480). Not available in TB, 208, 240, and 480V not available in Canada. Use reduced jacketed lamp.
 - Available with ASY or SYM only.
 - Not available with SCWA. 750M - must specify voltage (120, 208, 240, 277, 347 or 480), available with SYM, ASY or VFA only.
 - Standard 1025 lamp with drop lens.
 - For drop lens, specify DL. For flat lens, specify FL. Example: SYMDL or R2F.
 - Not available with 750M, 775M, 875M, 1000W or post top.
 - Must specify CWL for use in Canada.
 - Optional multi-tap ballast (120, 208, 240, 277V, 120, 277, 347V in Canada).
 - Consult factory for available wattages.
 - 12" arm required when two or more luminaires are oriented on a 90° drilling pattern.
 - Not available with TB. Must specify voltage.
 - Available in vertical lamp orientation only for 700-400M SCWA. Any orientation on 250S or 402S only.
 - Maximum allowable wattage lamp included.
 - May be ordered as an accessory.
 - Specify finish when ordered as an accessory.
 - Prefix with KVF2 when ordering as an accessory. Order as KVF2H5FLU for high-performance reflectors.
 - See www.lithonia.com/tech_specs for additional color options.

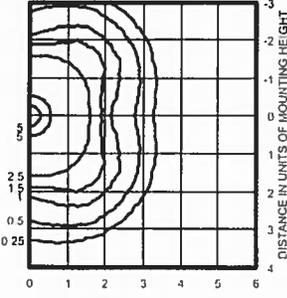
KVF2 Arm-Mounted Area Lighting

KVF2 250M SR2FL TEST NO: LTL11250P
ISOILLUMINANCE PLOT (Footcandle)



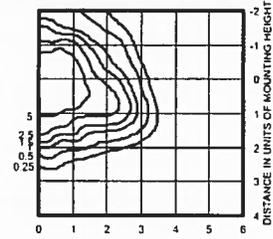
250W pulse start metal halide lamp rated 22500 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Short, Full Cutoff

KVF2 400M SYMFL TEST NO: LTL9432P
ISOILLUMINANCE PLOT (Footcandle)



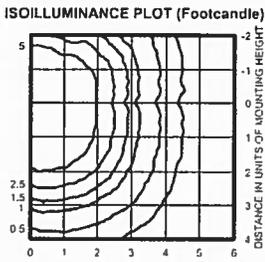
400W pulse start metal halide lamp rated 42000 lumens. Footcandle values based on 20' mounting height.
Classification: Type IV, Short, Full Cutoff

KVF2 400S R3FL TEST NO: LTL11324
ISOILLUMINANCE PLOT (Footcandle)



400W lamp, rated 50000 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Medium, Full Cutoff

KVF2 1000M ASYDL TEST NO: LTL11381
ISOILLUMINANCE PLOT (Footcandle)



1000W lamp, rated 110000 lumens. Footcandle values based on 20' mounting height.
Classification: Type IV, Short, Cutoff

Notes

- 1 Photometric data for other distributors can be accessed from the Lithonia Lighting Web site (www.lithonia.com)
- 2 For electrical characteristics, consult outdoor technical data specifications sheets on www.lithonia.com
- 3 Tested to meet IES and IESNA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change.

Mounting Height Correction Factor

Multiply the fc level by the correction factor

7.5 ft = 0.64

10 ft = 0.45

40 ft = 0.25

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction Factor}$$

Accessories: Tenon Mounting Slipfitter*							
Order as separate catalog number.							
Tenon O.D.	One	Two @ 180°	Two @ 90°	Three @ 120°	Three @ 90°	Four @ 90°	
2 3/8 (6.0)	120-193	120-283	120-290	120-370	120-390	120-490	
2-7/8 (7.3)	125-190	125-282	125-290	125-370	125-390	125-490	
4 (10.2)	135-190	135-282	135-290	135-320	135-390	135-490	

* Arm mount only.



KVF2-M S