

LED ROADWAY LIGHTS - MEDIUM (XRMU)



LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 14091
Watts 135.5
Lumens per Watt (Efficacy) 104

Color Accuracy
Color Rendering Index (CRI) 72

Light Color
Correlated Color Temperature (CCT) 5477 (Daylight)

Warm White 2700K Bright White 3000K Daylight 4500K 6500K

Warranty** Yes

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: KGGN-PRBZBH (3/11/2013)
Model Number: XRMU FT LED 128 SS CW UE
Type: Outdoor area/roadway fixture

LIGHT OUTPUT - XRMU						
		# of LEDs	Lumens (Nominal)			Watts (nominal)
			Type 3	Type FT	Type 5	
Cool White	SS	128	13500	14100	12100	139
	HO	128	16500	17300	14800	176
Neutral White	SS	128	12400	13200	11200	139
	HO	128	15000	15800	12500	176

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 3G requirements.

US patent 7828456, 7952293, 8002428 and CAN 2693131 & 2701653 and US & Int'l. patents pending

SMARTTEC™ THERMAL CONTROL - Sensors in both optical unit and driver enclosure reduce drive current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe operating temperature is reached.

ENERGY SAVING CONTROL OPTIONS - DIM - 0-10 volt dimming enabled with controls by others. BLS - Bi-level switching responds to 120-277V signal from separate controller or sensor (by others). Low light level decreased to 30% maximum drive current.

OCCUPANCY SENSOR (IMS) - Optional internal passive infrared motion sensor activates switching of luminaire light levels. High level light is activated and increased to full bright in 1-2 seconds upon detection of motion. Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~ 2 minutes and ramps down (10-15 sec.) to low level. Sensor is located on the front of optical assembly. Sensor optic has a detection cone of approximately 45°. Examples of detection - occurs 30' out from a 30' mounting height pole.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000°K nominal) or Neutral White (4000°K nominal) color temperature. 70 CRI (nominal).

DISTRIBUTION/PERFORMANCE - Types 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

HOUSING - One-piece, die-formed aluminum, weather-tight housing contains factory prewired driver and field connections. Extruded one-piece EPDM gasketed wiring access door (with safety lanyard) located underneath and utilizes tool-less thumbscrew fastener.

OPTICAL UNIT - Clear tempered flat glass lens sealed to aluminum optics housing creates an IP67 rated, sealed optical unit (includes pressure-stabilizing breather). Optical unit is recessed into housing cavity and sealed to the housing with extruded one-piece EPDM gasket. Optical unit lanyard serves dual purposes of safety and provides positive ground between unit and housing.

MOUNTING - Tapered rear design allows fixtures to be mounted to mast arms from 1-1/4" (1.66" O.D.) to 2" (2.375" O.D.) pipe using internal clamping bracket. Integral leveling device allowing +/- 5° vertical adjustment of the fixture, and leveling bubble accommodate variances in mast arm construction. Molded silicone barrier surrounds mast arm to restrict intrusion of insects and birds. If existing mast arm is larger than 2" (2.375" O.D.) pipe, tenon reducers are available. Consult factory. LSI mast arms can be ordered separately. Fixture can be rotated with an up-tilt to 90° using cast aluminum adjustable bracket. Adjustable brackets available for mounting on 2" (2.375" O.D.) pipe tenon or bolt-on mount with 5" traditional drilling pattern. See Accessory Ordering Information chart.

ELECTRICAL - A terminal block for attachment of incoming primary wiring is supplied. Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input), and 347-480 VAC.

DRIVER - Available in SS (Super Saver) and HO (High Output) drive currents (Drive currents are factory programmed). Components fully encased in potting material for IP65 moisture resistance. Easily accessible driver complies with IEC and FCC standards.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F).

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Group at lighting.apps@lsi-industries.com

SHIPPING WEIGHT (in carton) - 39 lbs. / 17.7 Kg (fixture only). Add mast arm weight for total shipping weight.

LISTING - ETL listed to U.S. and International safety standards. Suitable for wet locations.

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LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XRMU FT LED 128 HO CW UE WHT PCR**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Optional Sensor/Options
XRMU	3 - Type III 5 - Type V FT - Forward Throw	LED	128	SS - Super Saver HO - High Output	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480 - Universal Voltage (347-480V)	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	Virtinet Wireless Network (requires a Ventura controller/Mailbu link) (blank) - None VCM - Standard (revenue grade) VCMB - Basic VCMH - Standard (Host) VCMBH - Basic (Host) DIM - 0-10 volt dimming (required for satellite fixtures) Stand-Alone Control (blank) - None DIM - 0-10V Dimming (from external signal) ¹ BLS - Bi-level Switching (from external 120-277V signal) ¹	Sensor ES - External Sensor ² IMS - Integral Motion Sensor ³ Options PCR - Photoelectric Control Receptacle ⁴

ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Description	Order Number	Description	Order Number
DKF208, 240 Double Fusing (208V, 240V)	DKF208, 240 ⁷		
DKF480 Double Fusing (480V)	DKF480 ⁷		
FK347 Single Fusing (347V)	FK347 ⁷		
ROSB120 - WL Remote Box with 120V Occupancy Sensor	C/F ⁸		
ROSB277 - WL Remote Box with 277V Occupancy Sensor	C/F ⁸		
RPSB120 - Wet Location Remote Box with 120V External Photocell	C/F ⁸		
RPSB208-277 - Wet Location Remote Box with 208-277V External Photocell	C/F ⁸		
PMOS120 - 120V Pole-Mount Occupancy Sensor	518030CLR ⁹		
PMOS208/240 - 208V, 240V Pole-Mount Occupancy Sensor	C/F ⁹		
PMOS277 - 277V Pole-Mount Occupancy Sensor	518029CLR ⁹		

LUMINAIRE EPA CHART - XRMU

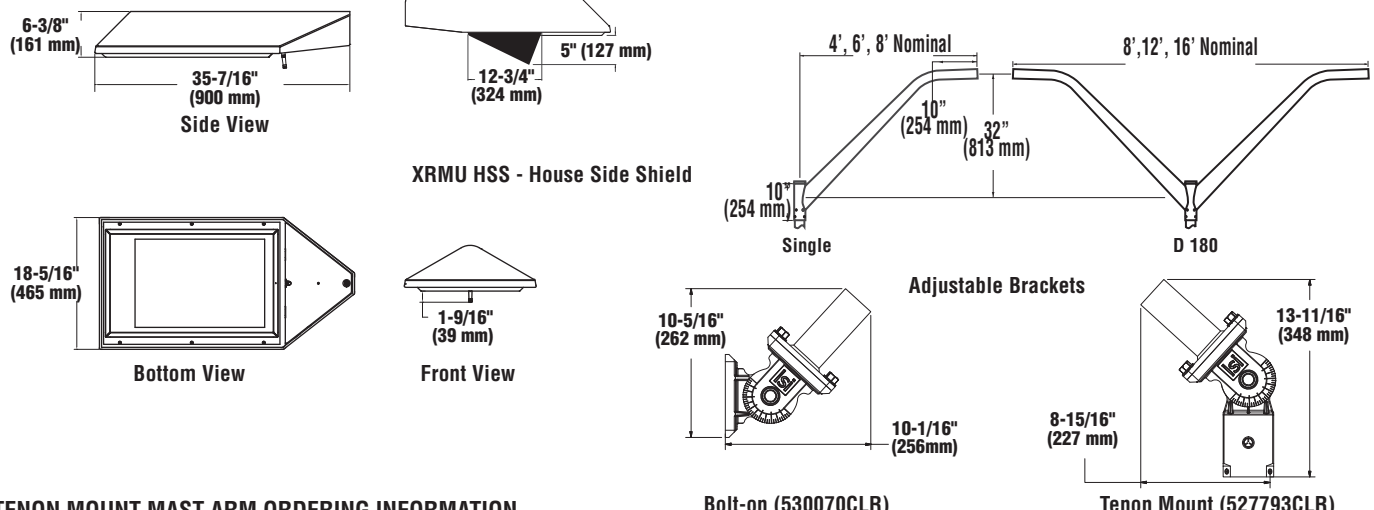
Single	1.4
D180°	2.8

Note: House Side Shield adds to fixture EPA. Consult Factory.

FOOTNOTES:

- 1- IMS, DIM and BLS cannot be ordered together.
- 2- Do not specify for satellite units.
- 3- Not compatible with Virtinet wireless systems, DIM or BLS.
- 4- Photocell must be ordered separately. See Accessories.
- 5- House Side Shield adds to fixture EPA. Consult factory.
- 6- Factory installed PCR option required.
- 7- Fusing must be located in the hand hole of pole.
- 8- Includes VCM. To be used in conjunction with VCM option in fixture. Consult factory.
- 9- To be used in conjunction with any of the VCM control modules and ES sensor option in fixture. Consult factory.

DIMENSIONS (shown with VCM/VMES option)



TENON MOUNT MAST ARM ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **BAK PTB MAST ARM 4 S BLK**

Bracket Designation	Bracket Type	Bracket Length	Bracket Configuration	Bracket Finish	EPAs and Shipping Weights
BAK	PTB MAST ARM	4 - 4 Foot 6 - 6 Foot 8 - 8 Foot	S - Single D180 - Double	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White RAW - Raw Aluminum with Satin Finish	Catalog Number EPA Value Shipping Wt (kg/lbs)
					BAK PTB MAST ARM 4 S 1.9 4.1/9
					BAK PTB MAST ARM 4 D180 3.6 6.8/15
					BAK PTB MAST ARM 6 S 2.3 5.4/12
					BAK PTB MAST ARM 6 D180 4.5 9.5/21
					BAK PTB MAST ARM 8 S 3.2 7.3/16
					BAK PTB MAST ARM 8 D180 6.2 13.2/29

LSI MAST ARM: Available in 4', 6' and 8' nominal arm lengths with single (S) and double arms at 180° (D180) mounting configurations. All arms have a 32" rise. Hub mounts to 2" (2.375" O.D.) pipe size x 4-3/4" tall tenon. For use with Tenon Mount (N) poles (See separate data sheets).