




Benefits

- Sustainable Design:
 - Custom arrayed optics to reduce the use of plastics.
 - No tertiary optical losses.
 - Use of recycled and recyclable corrosion resistant materials.
 - Full cutoff optics meet Dark Sky requirements
- Holistic Thermal Design:
 - Underdriving LEDs to improve efficiency and system life.
 - Use of premium grade alloys for enhanced thermal conduction.
 - Electronics are isolated and sealed from the optical chamber.
- Fits standard 1 1/4" to 2" mast arm.
- Typical Applications Include:
 - Roadways
 - City Streets
 - Campuses
 - Residential Streets
 - Parking Lots

US LSR 6_23_11

Specifications are typical values and may change without notification.

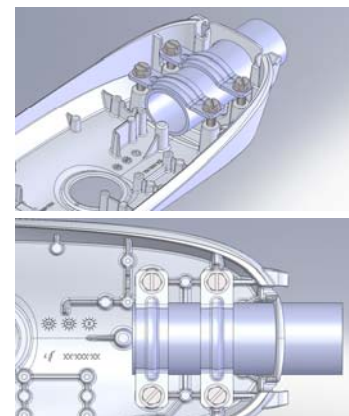
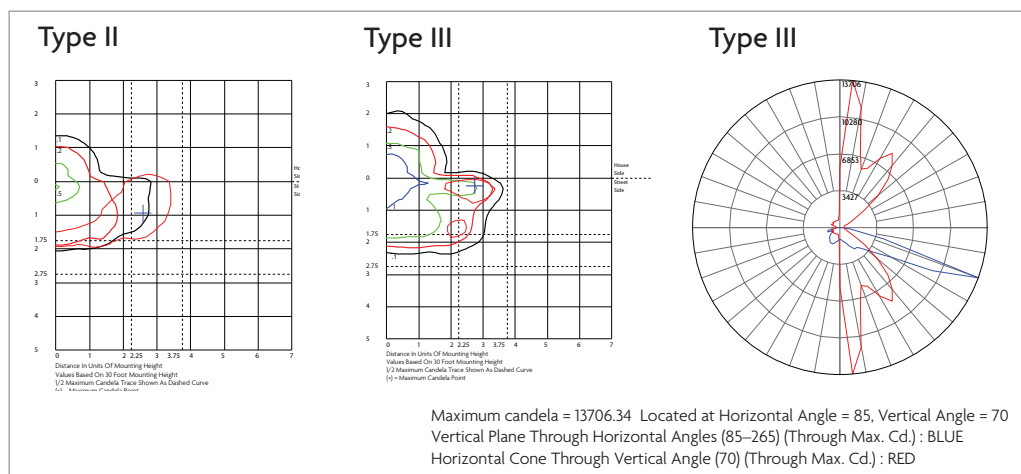
PROLIFIC™ RoadWay

Features ¹		LSR1	LSR2	LSR3	LSR4
Lumen Output (at operating temperature)		4354	5890	9365	11716
Input Power (Watts)		50	75	100	150
Efficacy (lm/w)		87	79	92	81
Color Temperature (CCT)		4000K, 5000K			
Color Rendering Index (CRI)		65			
Rated Life L70		60,000 Hours			
Housing		Die Cast and Extruded Aluminum			
Finish		Gray, Black, Bronze			
Optical Distribution		Type II, Type III, Type II Streetside Optimized, Type III Streetside Optimized Type IV, Type V			
Mounting Options		Fits Standard 1 1/4" to 2" Mast Arm, 4-Bolt Internal			
EPA	LSR1, LSR2	.77			
	LSR3, LSR4	1.0			
Dimensions	LSR1, LSR2	28.10" x 8.0" x 4.3"			
		714mm x 203mm x 109mm			
	LSR3, LSR4	37.10" x 8.0" x 4.3"			
		942mm x 203mm x 109mm			
Operating Temperature		-40°C to +40°C (-40°F to +104°F)			
Voltage		120-277 VAC @ 50-60 Hz, DCV ²			
Weight		LSR1, LSR2: 22lbs LSR3, LSR4: 25lbs			
Warranty		5 Year Limited			
Certification		  3G Vibration Rating ³			
Environment		IP67 optics 			

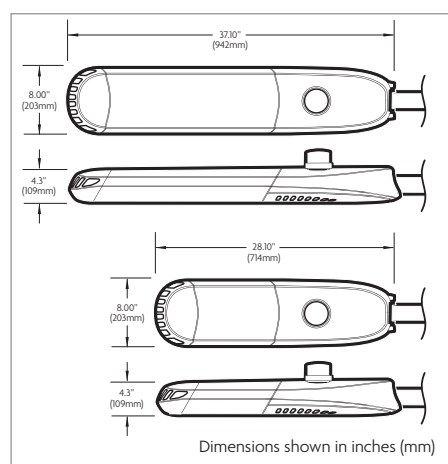
¹ All values are nominal. Values based on 5000CCT at 25°C unless noted. Consult website for complete IES & LM-79 data.

² DCV available with LSR1 & LSR2 only

³ 4-Bolt mounting required for 3G vibration rating



LSR4 4 Bolt Dimensions



Zonal Lumen Summary

Zone	Lumens	%Luminaire
FL 0–30	634	5.9
FM 30–60	3,100	28.7
FH 60–80	3,585	33.1
FVH 80–90	110	1.0
BL 0–30	655	6.1
BM 30–60	1,771	16.4
BH 60–80	844	7.8
BVH 80–90	115	1.0
UL 90–100	0	0
UH 100–180	0	0

Ordering Information

Example: LSR1 CW R2 2B PCR PC HS BK

Product	Color Temperature	Optical Distribution	Voltage	Mounting	Receptacle
LSR1 Lighting Science Roadway 1 (50W)	CW White 5000K	R2 Type II	MVOLT	2B 2-Bolt Internal (standard)	PCR Photocontrol Receptacle (standard)
LSR2 Lighting Science Roadway 2 (75W)	NW White 4000K	R3 Type III		4B 4-Bolt Internal ¹	NR No Photocontrol Receptacle
LSR3 Lighting Science Roadway 3 (100W)		R2SS Type II Streetside Optimized			
LSR4 Lighting Science Roadway 4 (150W)		R3SS Type III Streetside Optimized			
		R4 Type IV			
		R5 Type V			

Options	Accessories	Finish
PC Twist-lock Photocontrol	HS House Side Shield	GR Gray (Standard)
SH Shorting Cap		BK Black
		BZ Bronze

¹ Required for 3G Vibration Rating
All mounting hardware included with each unit.