

Benefits

- Sustainable Design:
 - Custom arrayed optics for optimum uniformity
 - No tertiary optical losses.
 - Use of recycled and recyclable corrosion resistant materials.
 - Full cutoff optics meet Dark Sky requirements.
- Holistic Thermal Design:
 - Ventilated precision airflow.
 - 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.
- Standard mast arm 38-61 mm.
- Vibration and impact resistant.
- Typical Applications Include:
 - Roadways
 - City Streets
 - Campuses
 - Residential Streets
 - Parking Areas

PROLIFIC™ SERIES: RoadWay


The Prolific Series RoadWay Luminaire provides one-for-one replacement for existing HID roadway installations.

Lighting Science Group brings into balance the need to responsibly illuminate the roadway while reducing energy consumption, producing better uniformity and lowering operating costs over the lifespan of the fixture.

For ease of installation, the Prolific Series RoadWay Luminaire uses traditional cobrahead features such as standard 38-61mm mast arm with +/- 5° level adjustment.

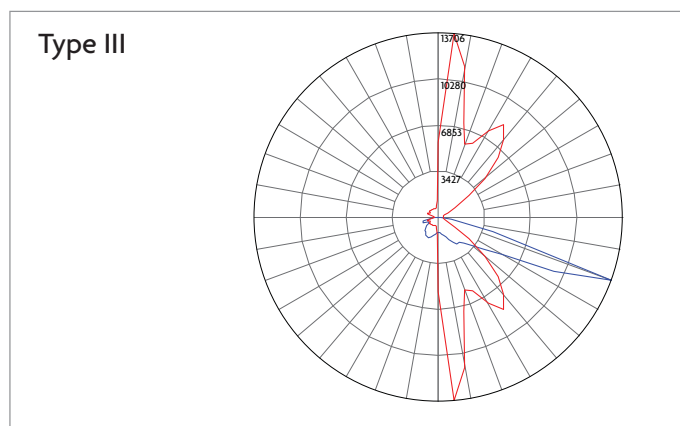
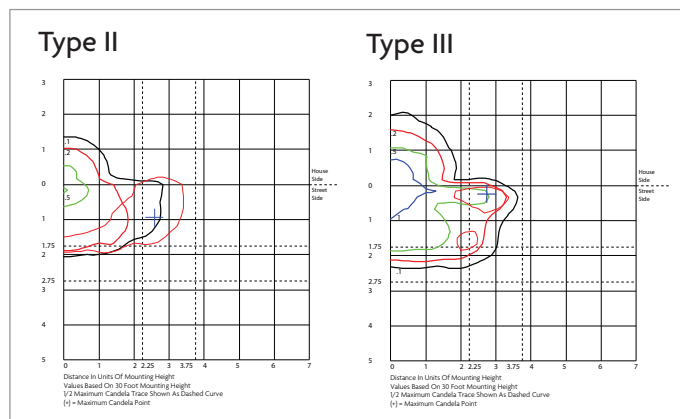
Utilizes a terminal block for power input.

Features

Lumen Output (lm) (at operating temperature)	LSR1	LSR2	LSR3	LSR4
	4354	5890	9365	11716
Input Power (W)	50	74	101	146
Efficacy (lm/W)	87	79	92	81
Colour Temperature (CCT)	5000K			
Colour Rendering Index (CRI)	70			
Rated Life	60.000 Hours @			
L70	70% Lumen Maintenance			
Housing	Die Cast and Extruded Aluminium			
Finish	Powder Coated (colour on demand)			
Optical Distribution	Type II, Type III, IES Full Cutoff			
Mounting Options	38-61mm Mast Arm			
Dimensions				
LSR1, LSR2	714mm x203mm x109mm			
LSR3, LSR4	942mm x203mm x109mm			
Operating Temperature	-40°C to +40°C			
Voltage	120-277 VAC @ 50-60 Hz			
Weight				
LSR1, LSR2	10 kg			
LSR3, LSR4	11 kg			
Rated Input Current	LSR1	LSR2	LSR3	LSR4
120V	0.45A	0.7A	0.9A	1.3A
277V	0.2A	0.3A	0.4A	0.6A
Rated Power Factor	>0.9			
Off State Power	Zero			
Certification				
Environment	IP67 (optical chamber only) optional electrical comp. IP65/66			

Prolific™ Series

RoadWay



Maximum candela = 13706.34 Located at Horizontal Angle = 85, Vertical Angle = 70
 Vertical Plane Through Horizontal Angles (85–265) (Through Max. Cd.) : BLUE
 Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.) : RED

Ordering Information

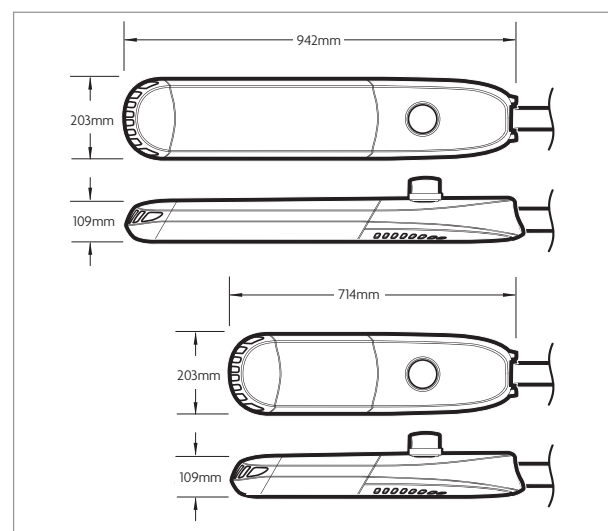
Example: LSR1 CW R2 2B GR PCR PC

Product	Color Temperature	Optical Distribution	Mounting	Color	Receptacle	Options
LSR1 Lighting Science Roadway 1 (50W)	CW Cool White	R2 Type II	2B 2-Bolt Internal (standard)	GR Grey (standard)	PCR Photocontrol Receptacle (standard)	PC Twist-lock Photocontrol
LSR2 Lighting Science Roadway 2 (75W)		R3 Type III		BLK Black	NR No Photocontrol Receptacle	SH Shorting Cap
LSR3 Lighting Science Roadway 3 (100W)						
LSR4 Lighting Science Roadway 4 (150W)						

All mounting hardware included with each unit.

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



Dimensions shown in mm



Toolless swing down access door.