



Company Overview and Product Application Guide



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Our Services



COMPANY OVERVIEW

SITELIGHTRENTALS



About Site Light Rentals

Site Light Rentals is an Australian owned and operated specialist mobile lighting company delivering temporary lighting solutions to the construction and resource industries nationwide.

We provide a diverse range of advanced mobile lighting systems designed to improve safety, efficiency and compliance across night shift and low-light operations. Our innovative lighting technology includes environmentally responsible and zero-emission solutions that reduce fuel consumption, lower carbon output and minimise environmental impact on site.

Our systems not only enhance site performance but also significantly reduce the operational costs traditionally associated with mobile lighting. We proudly support a broad client base, including international mining companies, Tier 1 and Tier 2 civil contractors, and contractors across the construction, resource and events sectors.

Privately owned and operated, Site Light Rentals brings over 20 years of experience in equipment hire, rental and sales to the resource, construction and agricultural industries across Australia.

Our Difference

Site Light Rentals has a proven history of working alongside clients to solve lighting, compliance and efficiency challenges while driving down overall project costs.

We are not a standard hire company. Supported by an experienced team of Civil, Mechanical and Lighting Engineers, we design and manufacture specialised lighting solutions built for demanding Australian site conditions and compliant with relevant Australian standards including but not limited to: Temporary street, pedestrian and intersection lighting. HCPP, ROM Pad and Pit mining operations, and temporary lighting for construction, building and demolition works.

Our focus is simple:

- Improve site safety
- Reduce environmental impact
- Deliver reliable, zero-emission and low-emission alternatives
- Lower operating costs without compromising performance



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SEE MORE, ACHIEVE MORE WITH SITE LIGHT RENTALS.

Vision. Highest value provider of specialised, compliant, low-impact, temporary lighting solutions.

Mission. Minimise the complexity and cost of temporary lighting compliance.

Purpose. Identify a need, imagine, innovate, design and create a range of specialised products that enable our clients to see more and achieve more.

COMPANY VALUES

Site Light Rentals is committed to assisting our customers to thrive whilst at the same time ensuring our own success –

See More, Achieve More With innovative applications and low impact energy, we enhance workplace environments for safety, compliance and efficiency.

Integrity and Professionalism. We provide quality, reliable, energy-efficient mobile lighting products and services, and support them with a dedicated, credible and committed team.

Partnering and Collaboration. We seek mutual benefit with our partners through an exchange of knowledge, skills, opportunities and resources.

Innovation & Specialisation. We focus on designing and engineering quality, sustainable energy products that are safe, simple, efficient and reliable to use.

Rewarding Value. We are rewarded by creating value for our people, clients, suppliers, community and environment.

Health & Family. We work to live and to ensure our people, clients, suppliers and community can enjoy a safe and healthy life.

Environmental and Wildlife Friendly

Wildlife

Our wild life friendly lighting is engineered to a low-colour temperature (Warm yellow/ amber) to significantly reduce blue-spectrum light pollution. Many nocturnal species and local ecosystems are highly sensitive to blue light, which can disrupt natural behaviours and habitats. By utilizing long-wavelength technology (amber, red, and orange tones), we minimize ecological impact while ensuring a safe, well-lit environment for pedestrians.

A selection of our products also features integrated smart technology to maximize energy efficiency and minimize ecological impact. This system ensures the lighting automatically dims to a 20% standby output during periods of inactivity, significantly reducing energy consumption and light pollution. When movement is detected, the system gradually ramps up to 100% illumination, providing a safe and responsive environment for pedestrians only when it is truly needed.



Warm Amber
Kangaroo & Wallaby

Deep Red
Tasmanian Devil / Quoll

Low-Intensity White
Powerful Owl / Tawny
Frogmouth

UV-Filtered
Bogong Moth / Native Bees



Environmental and Wildlife Friendly

Environmental

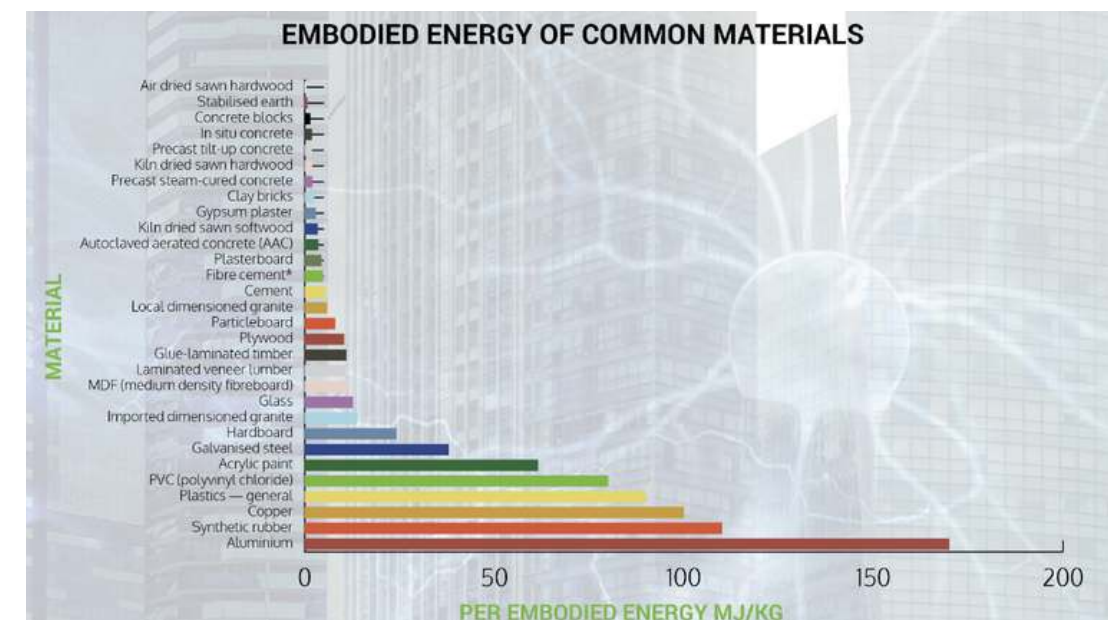
We are committed to a high standard of environmental responsibility across our operation. From re-conditioning components, recycling waste including – steel, copper, cardboard, batteries right down to the filtering and recycling of water we use at our depot

Circular Economy SLR Reducing Embodied Energy.

High quality products through globally recognised brands we aim for a long life cycle for components. At the end of their usable life, where possible luminaires are renewed with a new wiring harness, control gear, and LED boards. They are then tested and put back into service. This process significantly reduces manufacturing's embodied energy.



Updating old hardware with new technology.



Overview

Chapter 03

TELESCOPIC & TRAILER MOUNTED UNITS



Feature Highlight:

Rapid deployment made easy: these units are quick to set up, often by a single person, with no specialized machinery required.

Handy Tip:

Need flexibility? These units feature a lockable mast, allowing you to set the light height to your exact requirements at any stage.

Application Standards & Equipment Selection Guide

TELESCOPIC & TRAILER

Key Benefits

- Wind rated upto 100km/hr
- Quick to deploy easily transportable
- Low labour input
- Convenience, Speed and Minimal Labour or Machinery
- Lock mast at any desired height
- Quick to set up (often by a single, person)
- Extra Low Voltage
- Minimal machinery - either manitou/ forklift/ crane truck or site crane.

Mobility: Easy to reposition as work progresses across a site

Flexibility: Ideal for short-term or medium-term needs for projects varying from 1 – 6 months

Application Guide

Small – Medium Telescopic Models Great for short-medium term application, quick to deploy and easy to move on site, best suited in the following applications –

- P-Category,
- Small Intersections
- Pedestrian and Pedestrian Crossing (Ped-X)
- Pathways,
- Small Carparks

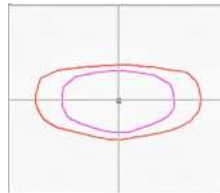
Medium – Large Telescopic Models Great for short-medium term application, quick to deploy and easy to move on site best suited in the following applications –

- V- Category
- Large Intersections
- Pedestrian Crossing (Ped-X)
- Roundabouts
- Large Carparks

Small-Medium Block Mounted Telescopic

MODEL	JSS-4H-20	JSS-6T	JSS-8T
Mounting Height (m)	4m	4m to 6m	4m – 8m
Luminaire Outreach (m)	0.5m	0.5m	0.5m
Luminaire Optic	Type 2	Type 2	Type 2
Solar Input (W)	200w	390w	390w
Battery Chemistry	Lead A or Lithium	Lead A or Lithium	Lead A or Lithium
Autonomy @ 100%	13 hrs	4 – 8 Days	4 – 8 Days
Pole Spacing (m)	20m – 35m	25m – 35m	30m – 60m
Concrete Block Weight (T)	750kg	1.1T – 2.5T	2.5T
Transport Height	1.68m	2.7m – 3.2m	2.9m
Rated Wind Design	100 km/hr	100 km/hr	100 km/hr
Luminaire Output (w)	20w	15-60w	15 – 60w
Luminaire Output (Lm)			

Type 2 - Road Optic, Merges, Street Optic Intersection



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P-Category Lighting – Civil Subdivision to AS/NZ 1158



Illuminating End treatment on the Bruce Highway to AS/NZ 1158

Medium-Large Block Mounted Telescopic

MODEL	JSS-8T-100	Barracuda	Hammer Head
Mounting Height (m)	4m – 8m	6m to 9m	6m – 12m
Luminaire Outreach (m)	0.5m	2.5m	3.0m
Solar Input (W)	800w	800w	830w
Battery Chemistry	Lead A or Lithium	Lead A or Lithium	Lithium
Autonomy @ 100%	4 – 8 Days	4 – 8 Days	4 – 8 Days
Pole Spacing	30m – 60m	36m – 60m	64m – 70m
Overall Weight (T)	3.0T	3.0T	3.0T
Transport Height	2.9m	2.95m	2.95m
Rated Wind Design	100 km/hr	100 km/hr	100 km/hr
Luminaire Output (w)	50 – 100w	60w – 150w	60w – 150w
Luminaire Output (Lm)			

Luminaire Optics *

Type 2 - Road Optic, Merges, Intersection

Street Optic



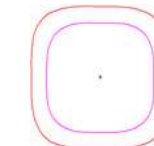
Type 4 - Forward Optic, Intersection, Carpark, Large Roadway

Forward Throw



Type 5 - Round Optic, Roundabout, Carpark, Intersection

Carpark / Roundabout



*Type 2, Type 4, Type 5



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Illuminating End treatment and V3 Category Roadway on the Smith St Motorway to AS/NZ 1158



Arrives fully assembled ready to commission



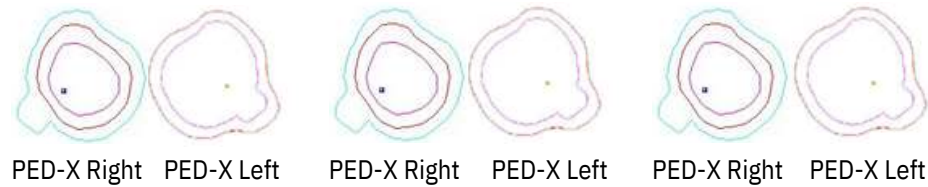
Crane truck delivered option

Block Mounted Telescopic Units

Pedestrian Crossing

	MODEL	JSS-6T-PEDX	Barracuda – PEDX	Hammer Head -PEDX
Mounting Height (m)		6m	6m to 9m	6m – 12m
Luminaire Outreach (m)		0.5m	2.5m	3.0m
Solar Input (W)		200w	800w	830w
Battery Chemistry Autonomy @ 100%		Lead A or Lithium 4-8 Days	Lead A or Lithium 4 – 8 Days	Lithium 4 – 8 Days
Crossing Width + Length (m)		20m – 30m	25m – 35m	30m – 45m
Overall Weight (T)		800kg	3.0T	3.0T
Transport Height		2.7m – 3.2m	2.95m	2.95m
Rated Wind Design		100 km/hr	100 km/hr	100 km/hr
Luminaire Output (w)		20w – 60w	60w – 150w	60w – 150w
Luminaire Output (Lm)				

Luminaire Optic



Block Mounted Flood Lights

	MODEL	JSF-8T-150	JSF-8T-300	JSF-10- 600
Mounting Height (m) Luminaire		8m N/A	6m to 9m	6m – 12m
Outreach (m) Solar Input (W)		800w	800w	830w
Battery Chemistry Autonomy @ 100%		Lead A 4 Nights or Lithium upto 8 Nights	Lithium 4 – 8 Days	Lithium 4 – 8 Days
Overall Weight (T)		800kg	3.0T	3.0T
Transport Height Rated Wind		2.7m – 3.2m	2.95m	2.95m
Design		100 km/hr	100 km/hr	100 km/hr
Luminaire Output (w) Dimable		150w	300w	600w



Trailer Mounted

Telescopic and Trailer Mounted Units

MODEL	JS-300	JS-400
Mounting Height (m)	8m	8m
Luminaire Outreach (m)	0.5m	0.5m
Solar Input (W)	900w	900w
Battery Chemistry	Lead A or Lithium	Lead A or Lithium
Autonomy @ 100%	4 – 8 Days	4 – 8 Days
Weight	1,300kg	1,300kg
Transport Height	2.95m	2.95m
Rated Wind Design	100 km/hr	100 km/hr
Luminaire Output (w)	60w – 100w	60w – 100w
Luminaire Output (Lm)		
Luminaire Optics *		
Type 2 - Road Optic, Merges, Intersection	Street Optic	
Type 4 - Forward Optic, Intersection, Carpark, Large Roadway	Forward Throw	
Type 5 - Round Optic, Roundabout, Carpark, Intersection	Carpark / Roundabout	

Client Success Stories

Testimonials

“I have used Site Light Rentals since the very early days around 6-7 years ago. We trialed their first major road lighting system. We had 5 solar block lights and they operated through 2 wet seasons on the Sunshine Coast without any outages or even dips in battery voltage. They have been reliable and very easy to move around during construction through more than 5 major infrastructure projects since then. I am impressed to see the evolution of their offering and absolutely recommend Site Light Rentals for any temporary lighting requirements, short or long term.”

Daniel Morris – GNB Energy Senior Project Manager – ITS&E Major Road Upgrades

“This is the best light for our application, nothing else compares to the performance, the light output, the manoeuvrability. A significant benefit is the height, being able to position the light well above the operators eyes. The wireless remote system eliminates the expensive Dozer, Grader or wheel loader to move it around unlike other skid-type design units. Nothing compares to a Jonker Light”

CHPP Superintendent, Bowen Basin.



Overview

Chapter 04 FIXED POLE



Feature Highlight:

Designed for safety and simplicity, our 24v extra low voltage system eliminates the need for 240v power, cable theft risks, and expensive electricians.

Handy Tip:

Save on labor costs—our modular design allows for efficient assembly at ground level, completely avoiding the need for EWP or working at heights.

Application Standards & Equipment Selection Guide

Fixed Pole

Key Benefits

- Convenience, Speed with Minimal Labour or Machinery
- 24v Extra Low Voltage - designed for safe, simple, Plug and Play. Eliminating 240v power, Cable theft, expensive electricians to assemble and maintain
- No EWP or Working at Heights
- Modular Efficient site assembly process at ground level
- Integrated block-mounted power supply, minimise theft, increase efficiency

Quick to deploy, low maintenance costs, easy to set up

Mobility: Easy to reposition as work progresses across a site

Flexibility: Ideal for short-term or medium-term needs for projects varying from 3 + months

Application Guide

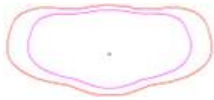
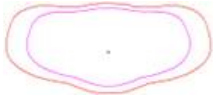
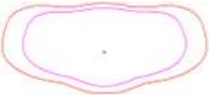
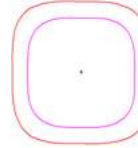
Single Outreach Models are great for Medium- Long term application, quick to deploy and easy to move on site. From 9.5m -14.5m mounting height best suited in the following applications –

- Minor and Major Roadways,
- V1, V3 and V5 Roadways
- Multi-lane highways
- Intersections
- Pedestrian Crossing (Ped-X)
- P Category
- Carparks
- Roundabouts

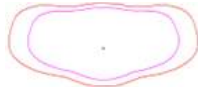
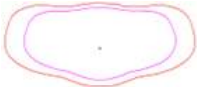
Dual Outreach Models are great for medium-long term application, quick to deploy and easy to move on site. From 10.5m – 12,5m mounting height, best suited in the following applications –

- Minor and Major Roadways including multi-lane highways
- V1, V3 and V5 Roadways
- Intersections
- Pathways
- P Category
- Carparks
- Roundabouts

Block Mounted Fixed Pole Solar Street Lights - Single Outreach

MODEL	JSS-10	JSS-12	JSS-14
Mounting Height (m)	10.5m – 11.0m	12.5m – 13m	14.5m
Luminaire Outreach (m)	4.0m – 4.5m	4.0m – 4.5m	4.0m
Luminaire Output (w)	60w – 150w	100w – 150w	150w – 266w
Solar Input (W)	800w	800w	1,600w
Battery Chemistry	Lead A or Lithium	Lithium	Lithium
Autonomy @ 100%	4 – 8 Days	4 – 8 Days	5 -7 Days
Pole Spacing	55m - 64m	56m - 70m	70m - 84m
Pole Weight	285kg – 450kg	285kg – 450kg	285kg – 450kg
Concrete Block Weight (T)	5.5T – 5.7T	5.5T – 5.7T	6.0T
Concrete Block Tpt Height			
Rated Wind Design	Region C T2 (Cyclonic)	Region C T2 (Cyclonic)	Region B T2 (Non-Cyclonic)
Luminaire Output (Lm)			
Luminaire Optics *			
Type 2 - Road Optic, Merges, Intersection			
Type 4 - Forward Optic, Intersection, Carpark, Large Roadway			
Type 5 – Round Optic, Roundabout, Carpark, Intersection			

Block Mounted Fixed Pole Solar Street Lights - Dual Outreach

MODEL	JSS-10 (Dual Outreach)	JSS-12 (Dual Outreach)
Mounting Height (m)	10.5m	12.5m
Luminaire Outreach (m)	4.0m	4.0m
Luminaire Output (w)	60w – 150w	100w – 150w
Solar Input (W)	800w	800w
Battery Chemistry	Lead A or Lithium	Lithium
Autonomy @ 100%	4 – 8 Days	4 – 8 Days
Pole Spacing	55m-63m	56m-70m
Pole Weight	285kg – 450kg	285kg – 450kg
Concrete Block Weight (T)	5.5T – 5.7T	5.5T – 5.7T
Concrete Block Tpt Height		
Rated Wind Design	Region B T2 (Non-Cyclonic)	Region B T2 (Non-Cyclonic)
Luminaire Output (Lm)		
Luminaire Optics *		
Type 2 - Road Optic, Merges, Intersection	Street Optic 	
Type 4 - Forward Optic, Intersection, Carpark, Large Roadway	Forward Throw 	
Type 5 – Round Optic, Roundabout, Carpark, Intersection	Carpark / Roundabout 	



Overview

Chapter 05 JONKER LIGHT



Overview

Ideal for massive-scale projects requiring extreme height and power. Engineered for heavy mining environments where total site illumination is required.

Feature Highlight:

Engineered for heavy-duty mining, the Jonker Light provides ultra-class illumination with 18m–24m mounting heights.

Handy Tip:

Use our 100% wireless remote control to easily reposition the light tower as your work progresses across the site, saving time and labor.

Application Standards & Equipment Selection Guide

Jonker Light/ Mobile Stadium Light

Key Benefits

- Ultra-Class lighting – Worlds Largest Mobile Light Towers – 18m – 24m High.
- Quick to deploy, low operational costs, low maintenance costs, easy to set up
- Mobility: Drive with 100% Wireless Remote Control
- Extreme light output from a high mounting point
- Compliant lighting for roadways - Large intersections/ roundabouts/ motorways
- 48v Extra Low Voltage
- Low impact diesel genset with a fuel burn rate of 1.8lt- 2.3 Litres Per Hour
- Illuminating large work areas or
- Illuminating events/ constructions sites where specific high level lighting levels must be met

Mobility: Wireless Remote Control makes it easy to reposition as work progresses across a site

Application Guide

Jonker Lights are great for Medium- Long term application, quick to deploy and easy to move on site. Floodlight output of 4,000w – 5,600w (600,000 lm – 896,000lm) using a combination of optics to specifically maximise results. Or

Best suited applications –

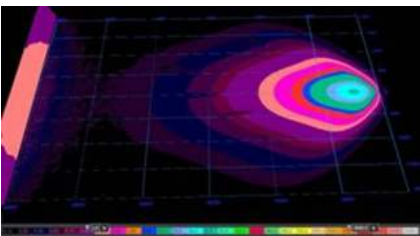
- Open Pit Mining
- ROM Pads
- CHPP (Coal Handling Prep Plants)
- Coal Stock Piles
- Sporting Events

With a specific street lighting package of 900w (139,000lm) using a combination of Type 2 and Type 4 optics

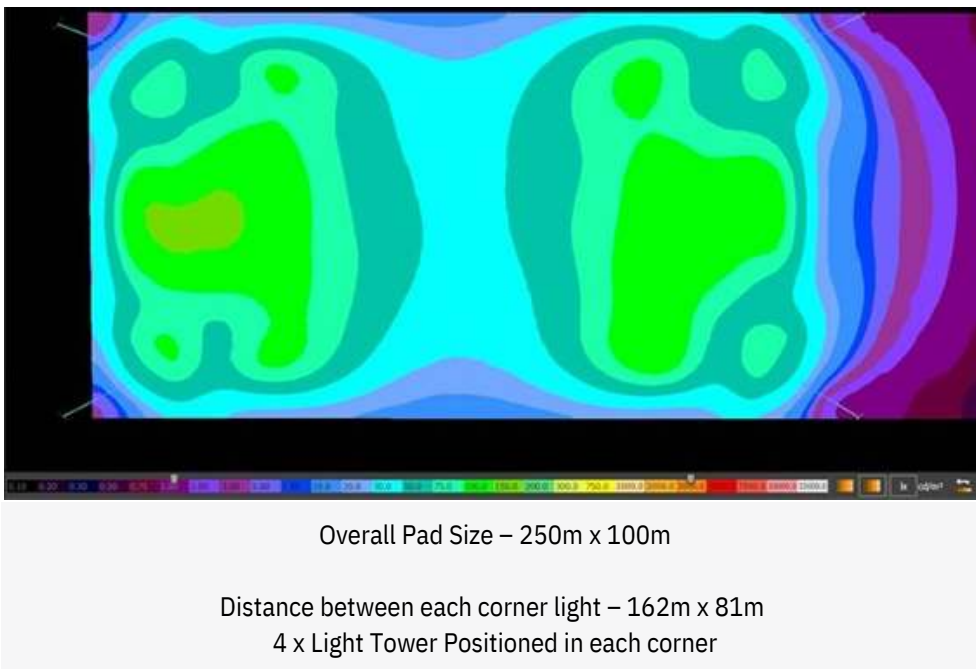
- Major Roadways
- Multi-lane highways
- Intersections
- Roundabouts

Jonker Light

Wireless Remote Mobile Stadium Light



- Flood Light - Performance
- Uniformly Distributed Light over work area = NO Hotspots
(Major compliance requirement for Australian road lighting standards)
we aim to carry through to other product designs)
 - 2 Lux on Vertical Wall Surface at 600 Metres
(note - boxes within grid pattern)
 - 7.5 Lux on Vertical Box Surface at 320 Metres
 - 0.75 Lux on GROUND Surface at 425 Metres
 - Max 50 LUX on the GROUND Surface under Light Tower



Overall Pad Size – 250m x 100m

Distance between each corner light – 162m x 81m
4 x Light Tower Positioned in each corner

- Tower Quantities -
- 4 x JLED-4200 Lights
(18m High, 4,200w LED)
- Description -
- 48 x 350W LED Flood Lights
25 Degree Lenses (Pencil Beam)

Jonker Light/ Mobile Stadium Light

MODEL	JLED-18-4200	JLED-18-4200T	JLED24-5600
Mounting Height (m)	18m	18m	24m
Drive Type	Hydrostatic 4 x 4	Track Mounted	Hydrostatic 4 x 4
Autonomy @ 100%	300 hours	300 hours	300 hours
Weight	13,000kg	15,000kg	18,000kg
Transport Height	3.0m	3.0m	3.0m
Transport Length	11m	11m	12m
Rated Wind Design	44km/hr	44km/hr	44km/hr
Luminaire Output (w)	4,200w	4,200w	5,600w
Luminaire Output (Lm)	693,000Lm	693,000Lm	924,000Lm
Luminaire Optics *	Combination of 25 and 40 Degree Beam Angle	Combination of 25 and 40 Degree Beam Angle	Combination of 25 and 40 Degree Beam Angle
Generator Set			
Electrical System	48V DC	48v DC	48v DC
Alternator	AVR and PMG	AVR and PMG	AVR and PMG
Fuel Consumption	1.8L/hr	1.8L/hr	2.3L/hr



Track Type Jonker Light operating on large civil infrastructure project



Jonker Light – ROM Pad and Coal Stock Pile Operations



Jonker Light Operating in Large Open Cut Mining

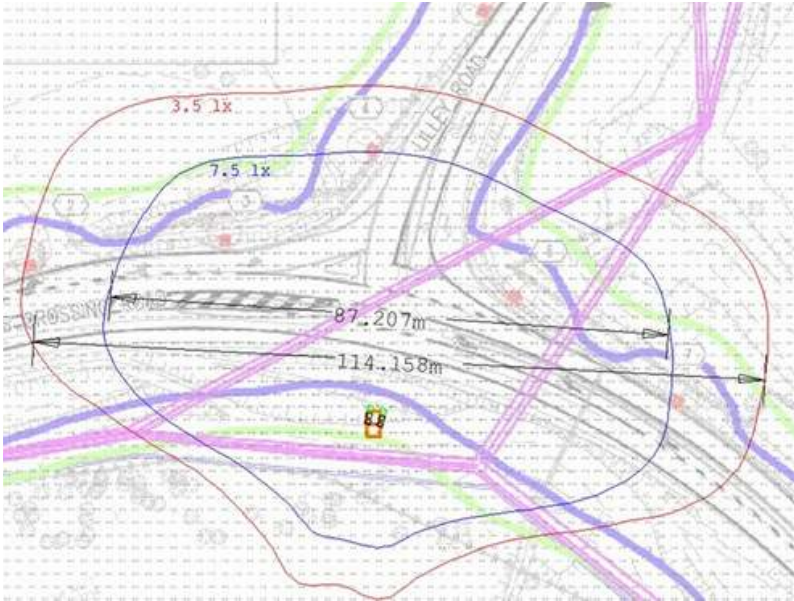


Jonker Light - High Mast Street Light



Description -

Intersection Design using 4 x Jonker Lights, 139,000 Lumens Per Light Tower at 18m mounting height



Description -

Intersection Design using 1 x Jonker Lights, 139,000Lumens at 18m mounting height



Description -

- Total of 6 x Luminaires = 139,000 Lumens
- 4 x Type 2 Optics – 150w Luminaires
- 2 x Type 4 Optics – 150w Luminaire

Jonker Light – High Mast Street Light

MODEL	JLED-18-4200	JLED-18-4200T	JLED24-5600
Mounting Height (m)	18m	18m	24m
Drive Type	Hydrostatic 4 x 4	Track Mounted	Hydrostatic 4 x 4
Autonomy @ 100%	300 hours	300 hours	300 hours
Weight	13,000kg	15,000kg	18,000kg
Transport Height	3.0m	3.0m	3.0m
Transport Length	11m	11m	12m
Rated Wind Design	44km/hr	44km/hr	44km/hr
Luminaire Output (w)	900w	900w	900w
Luminaire Output (Lm)	139,000Lm	139,000Lm	139,000Lm
Luminaire Optics *	Combination of T2 and T4	Combination of T2 and T4	Combination of T2 and T4
Generator Set			
Electrical System	48V DC	48v DC	48v DC
Alternator	AVR and PMG	AVR and PMG	AVR and PMG
Fuel Consumption	1.8L/hr	1.8L/hr	2.3L/hr



Overview

Miscellaneous Product

Chapter 06

MISCELLANEOUS PRODUCT



Feature Highlight:

Beyond lighting, our block-mounted systems provide a modular foundation for total site intelligence, including radar and CCTV.

Handy Tip:

Deploy safety monitoring instantly: our systems require no bolting or permanent damage to pavement, making them perfect for temporary intersections.

Overview

Beyond illumination, our versatile block-mounted systems serve as a modular foundation for total site intelligence. By integrating advanced signaling, data collection, and surveillance technology, we provide a rapid-deployment solution that enhances safety and security without the need for fixed infrastructure or grid power.

Application Guide			
Unit Type	Best Suited Application	Key Features	Benefits
Signal Block	Intersection Traffic signals 2 Options – Overhead power feed or base of pole	Wind rated to 100km/hr	Rapid Deployment, no bolting or damage to pavement/ roadway
Radar System	Data-Driven Safety Monitoring	Integrated real-time speed analytics and traffic density data. (supplied by others)	Traffic monitoring, integration with Signalised intersections.
CCTV	24/7 Site Visibility	100% solar autonomy – 7 Day battery redundancy with high-definition remote viewing, (supplied by others)	Remote Asset & Equipment Surveillance, 24/7 Site Security, Project Milestone Time-Lapse, and Remote Safety Compliance Monitoring.

Signals Blocks/ Radar/ Camera CCTV

Solar Assy with Radar System

TMR and QR Compliant Camera System
1, 2 and 3 camera – 7 Day battery autonomy



Signals Blocks
(also available for overhead cable)



Radar for Traffic Signals



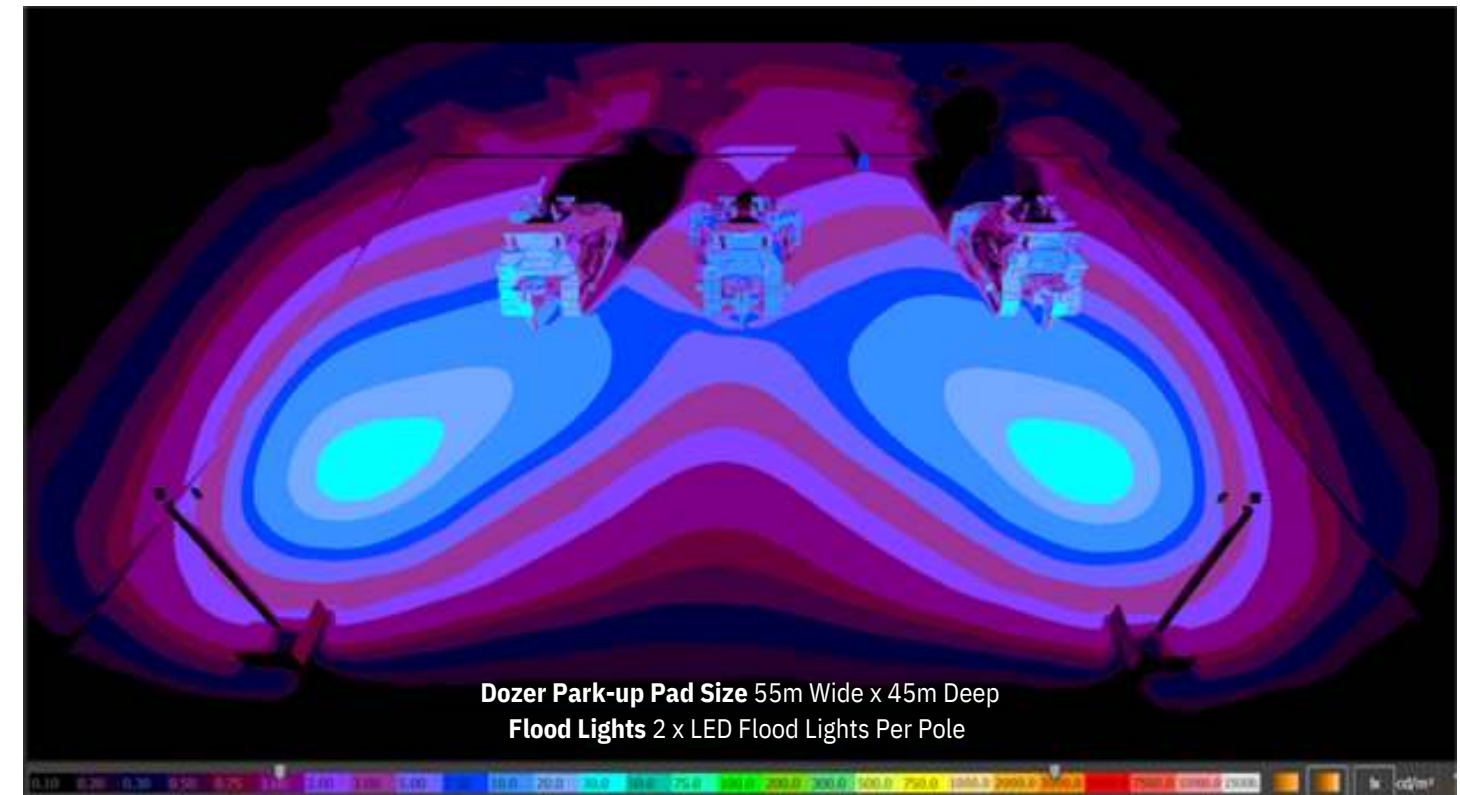
CCTV - 24hr 7 Day Battery Redundancy
(1-3 camera systems)

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Block Mounted Flood Lights

Description

8M High Telescopic Mast with 2 x 75W LED Flood Lights mounted on 0.5M high concrete block
Block Mounted Solar System



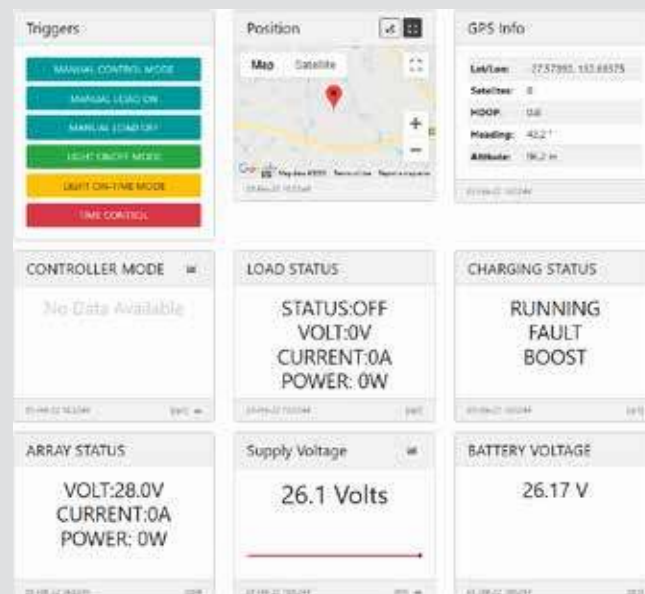
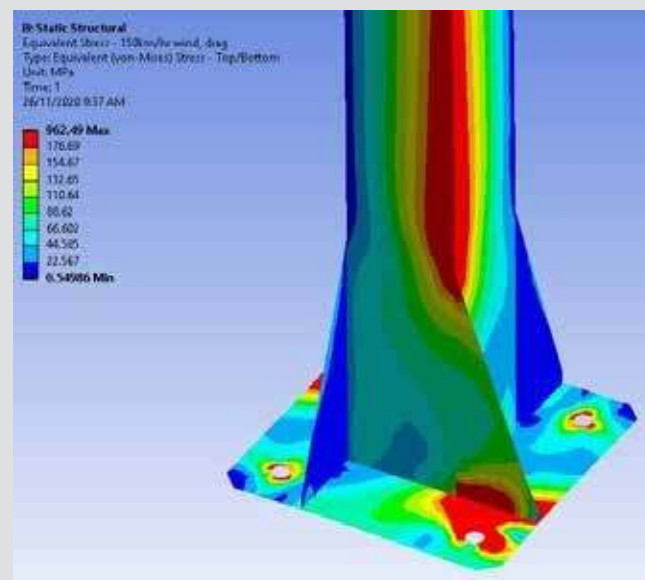
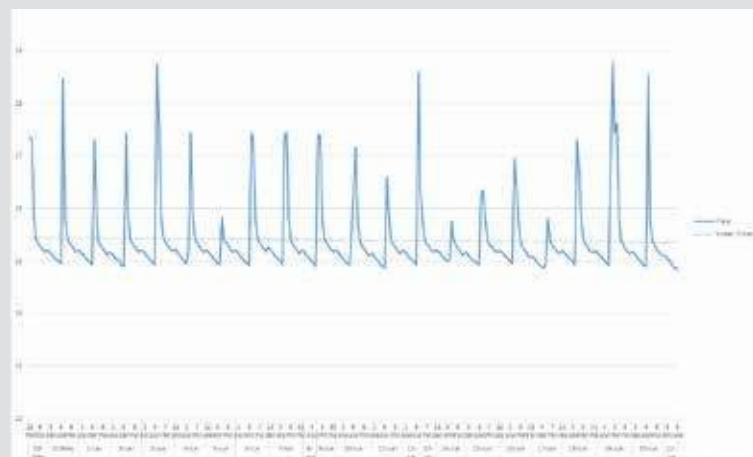
Dozer Park-up Pad Size 55m Wide x 45m Deep
Flood Lights 2 x LED Flood Lights Per Pole



Telescopic and Mid Hinge Available

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Our Company Values drive our commitment to continuous innovation and quality solutions -

- See More Achieve More Integrity and Professionalism Partnering and Collaboration
- Innovation and Specialisation Rewarding Value
- Health and Family

Our commitment to developing high-quality products and services that deliver improved safety, production efficiencies and reduced costs for our clients, has driven our product evolutions since 2014.

Through collaboration and partnership with a select group of technical experts and our ongoing drive to understand client challenges across a diverse range of situations, Site Light Rentals has gained a unique understanding of industry requirements which enable us to tailor unique solutions to an ever-evolving landscape of demand.

Our mission to minimize the complexity and cost of temporary lighting compliance, has necessitated our on-going engagement in research, development and in partnering with a diverse range of industry experts in the rapidly evolving fields of lighting, electronics, renewable energy generation and storage, and materials engineering.

SOME OF THE MORE NOTABLE PRODUCTS OF THOSE ENGAGEMENTS INCLUDE :

- The world largest remote control mobile light tower – 24m high and 5,600w LED Light Output
- Diesel Powered Hybrid Light Tower – DC-DC (48v DC Generator to 48v DC Lithium Battery Bank)
- First Hire Company in Australia to remotely manage 24v Solar Street Lighting Systems
- Australia's first fixed pole mounted Temporary Solar Street Light Compliant to "V3" and "V1" road light compliance
- Australia's Highest Output Temporary Solar Street Light (100% Solar) – upto 14.5m Mounting Height achieving "V3" road light compliance
- Australia Highest Output Temporary Solar Street Light (100% Solar) – 12.5m mounting height and upto 300W LED
- Light Output compliant to road lighting standards. AS/NZ 1158.



Overview

Application Standards & Equipment Selection Guide

Chapter 08

TECHNICAL APPLICATION GUIDE

OVERVIEW & APPLICATION GUIDE

FEATURED APPLICATION EXAMPLES



Feature Highlight:

Designed to deliver compliant temporary lighting across pedestrian crossings, roadways, intersections, carparks, and roundabouts in line with AS/NZ 1158. Optimised mounting heights, application-specific optics, and controlled glare ensure maximum visibility, safety, and compliance for all users.

Handy Tip:

Choosing the correct optic, mounting height, and outreach can reduce the number of units required while maintaining compliance—saving installation time, minimising site disruption, and lowering overall project costs.



Overview

Delivering on our Vision – “To be the highest value provider of specialised, compliant, low-impact, temporary lighting solutions.” we have significantly invested into the research development and procurement of specific types of Optics and sourced from high quality Luminaire manufacturers. At any one time we will have in-excess of 100 x spare luminaires on the shelf. This gives us the capacity and confidence to supply our products to a variety of projects and applications.

Application Guide

The following pages demonstrate our large variety of compliant lighting products for a number of different applications -

- Roadway and Pedestrian foot paths
- Intersections
- Pedestrian Crossings
- Carparks
- Roundabouts

Lighting Categories in this Section.

- Pedestrian Crossings: Ped-X / P-Category (AS/NZ 1158.4:2024).
- Roadways: V-Category (e.g., V3 examples shown).
- Carparks & Pathways: P-Category (examples and notes provided).
- Intersections & Roundabouts: V-Category layouts with optimised mounting heights/optics.
- Flag Lighting (visibility enhancement): Indication lighting where full V/P compliance may not be warranted, per RPDM ref.

FLAG LIGHTING

APPLICATION OVERVIEW

Overview

Flag Lighting provides a smart, efficient way to highlight isolated intersections, turn offs, and conflict zones where full AS/NZS 1158 Category V or P lighting is not warranted, yet improved visibility is still required.

This solution reinforces driver awareness by using 1–2 strategically placed luminaires to make key areas instantly recognizable at night—supporting safer navigation in rural, industrial, and low ambient light environments.

Applications

- Rural and regional road networks
- Fog-prone corridors
- Rail level crossings (with luminaires placed ~20 m each side to highlight conflict zone)
- Mine-site or project access points
- Temporary construction intersections
- Channelized intersections without raised islands

These parameters ensure the lighting remains highly visible, while preventing excessive glare or over-illumination.

Performance & Compliance

Specification	Requirement
Mounting Height	10.5 m
Max Luminaire Wattage	150 W
Luminaire Type	Dished Prismatic Bowl
Typical Quantity	1–2 Units
Purpose	Indication / Visibility Enhancement
Standard Reference	DM Roads RPDM Chapter 17

FLAG LIGHTING

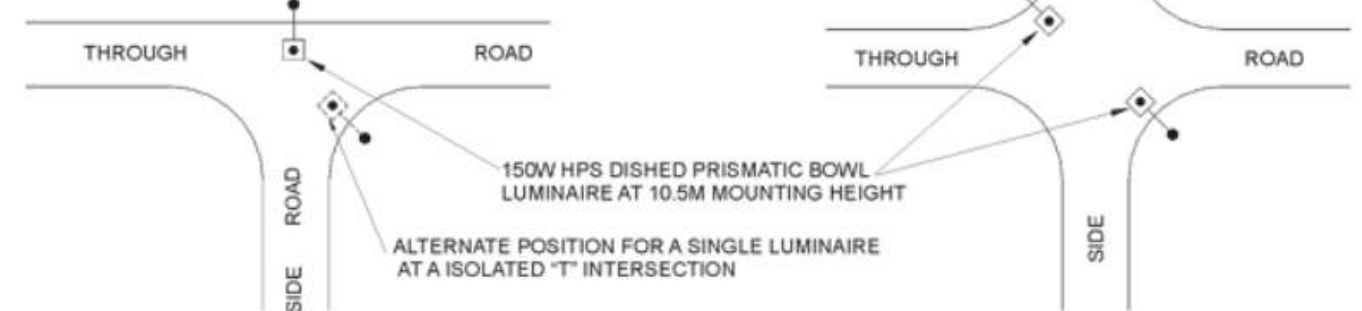
APPLICATION OVERVIEW

Key Benefits

- Highly effective for improving driver awareness at isolated intersections
- Requires minimal infrastructure compared to full street lighting
- Cost-efficient in both initial setup and ongoing maintenance
- Fast to deploy, ideal for temporary or remote locations
- Improves visibility of approaching intersections
- Provides compliant, low-glare illumination for both permanent and temporary conflict points
- Low-glare, semi-cutoff distribution to reduce disability glare for motorists.



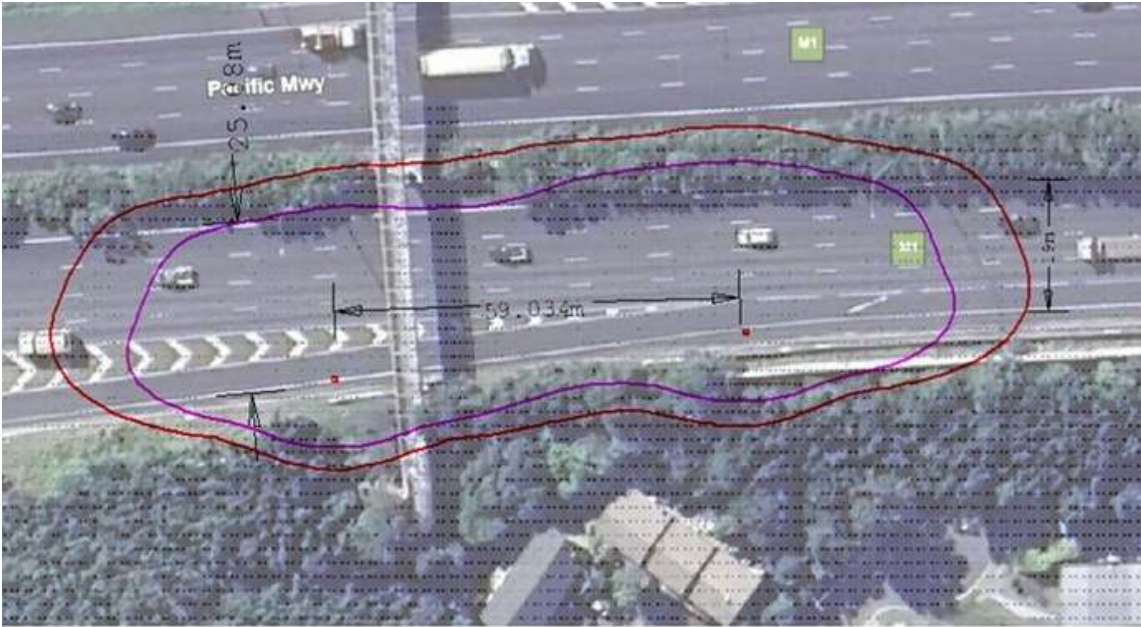
*NOTICE –Sample luminaire photo only.



Road Lighting

Technical Application Guide

Example of a lighting design for Major Highway achieving compliance accross whole carriage way

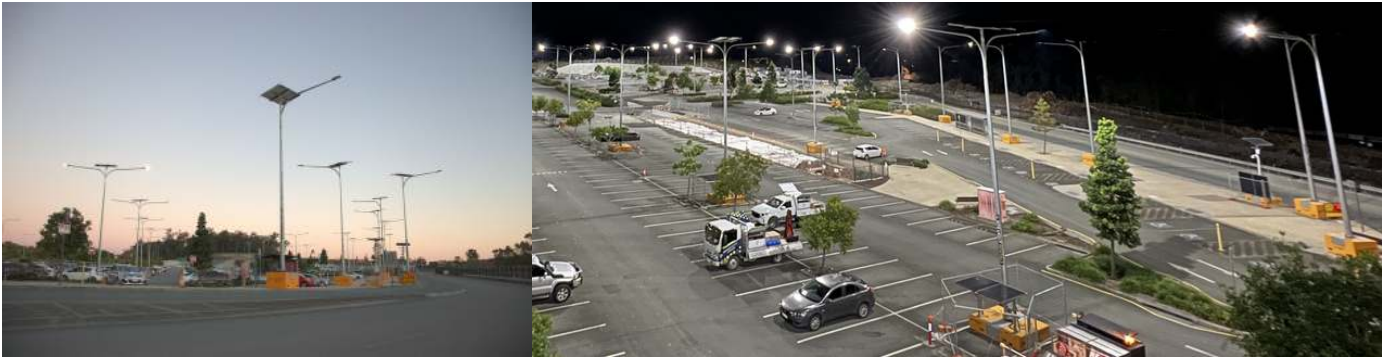


Typical roadway Category V3									
SITE LIGHT RENTAL PRODUCT	Mounting Height	Lumen Output	Upcast	Outreach	Carriageway width	Traffic Flow	Max Spacing	Traffic Flow	Max Spacing
JSS-4-266w	14.5 Meters	43,507lm	5°	4m	17m	Two ways	69m	One way	85m+
JSS-4-266w	14.5 Meters	43,507lm	10°	4m	20m	Two ways	63m	One way	85m+

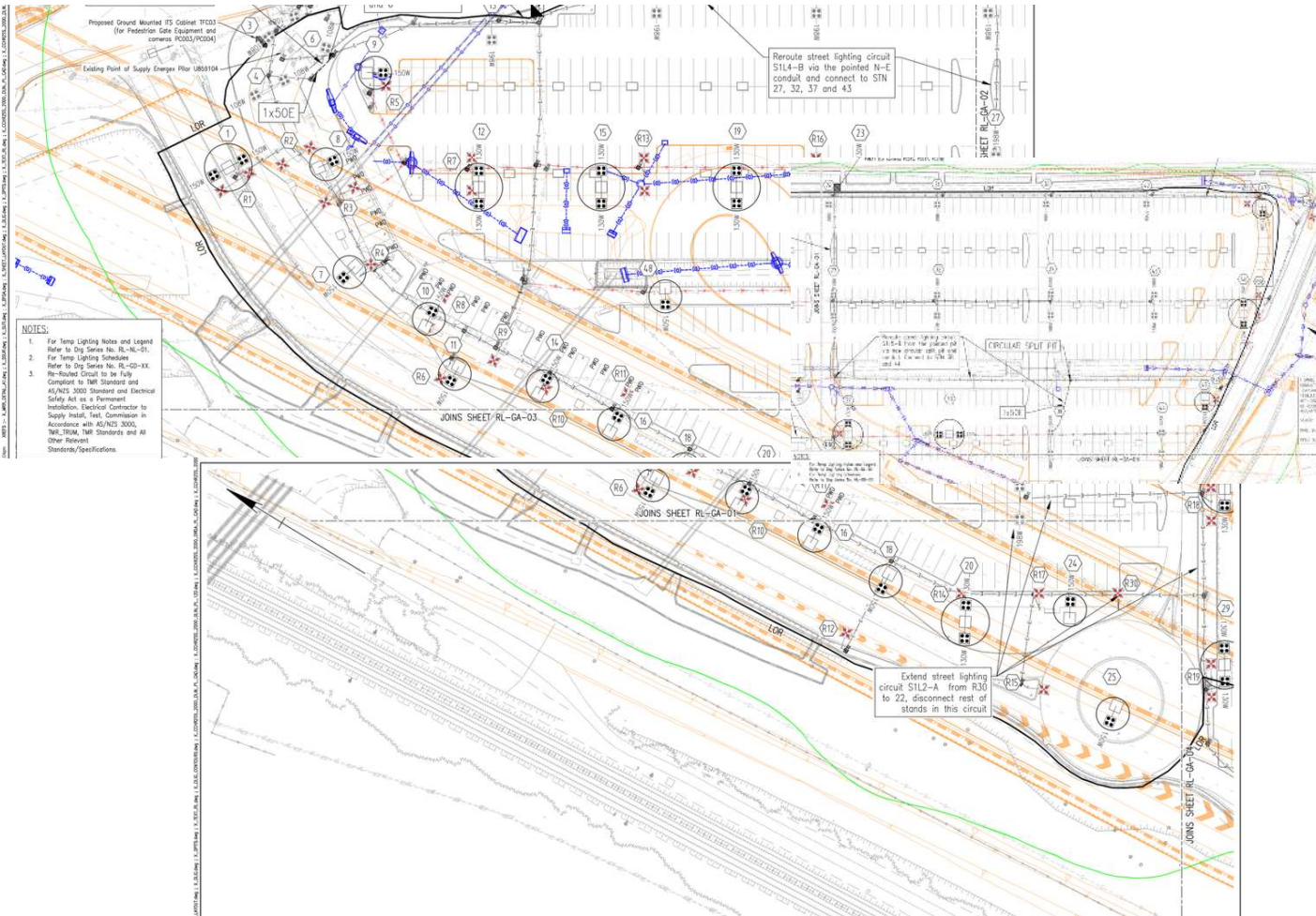


Carpark

Technical Application Guide



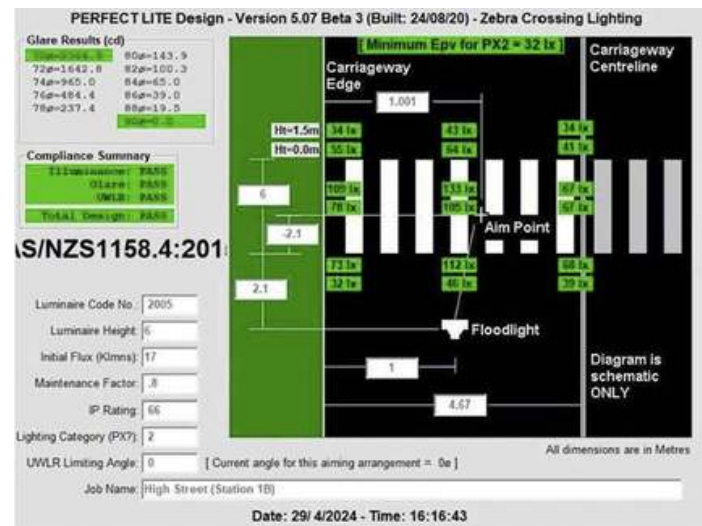
Having access to a variety of Optics, Solar Poles with a variety of mounting heights and the right combination of optics we can provide a solution for compliant carpark lighting. One of the largest carpark projects recently completed had a total area of 20,285m2 which was successfully illuminated as per the RPEQ and MIES Design to ASNZ1158.2005



Pedestrian Crossing

Technical Application Guide

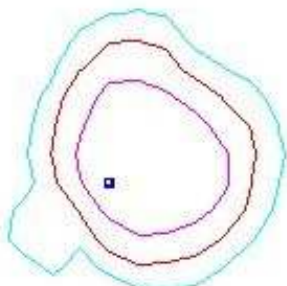
We can provide various products to comply with small and very large pedestrian crossings



PX2- 6M height

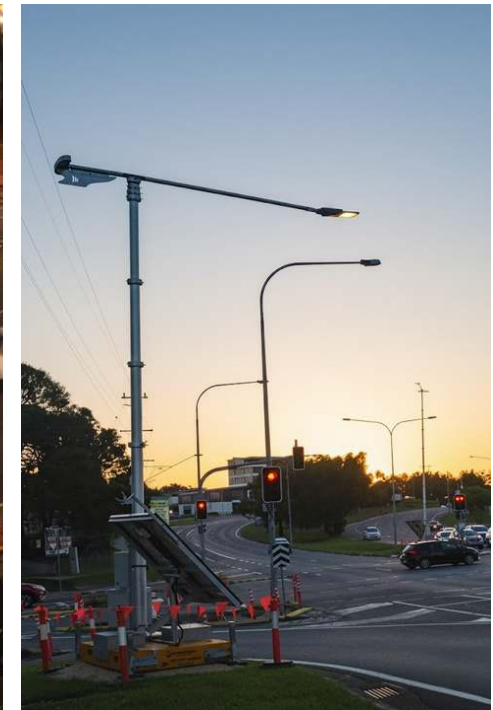
SLT - Eclipse - PEDX - 100w
On 9m/6m Barracuda

Ped-x Right Optic



Intersection

Technical Application Guide



Large Intersection achieved compliant lighting using on 4 x Hammer Head units with 12m Mounting Height and Type 4 Optics

V-Category Lighting - Optimised mounting height, outreach and forward throw (T4) optics to Minimising Pole Quantities

(Intersection to AS/NZ 1158)

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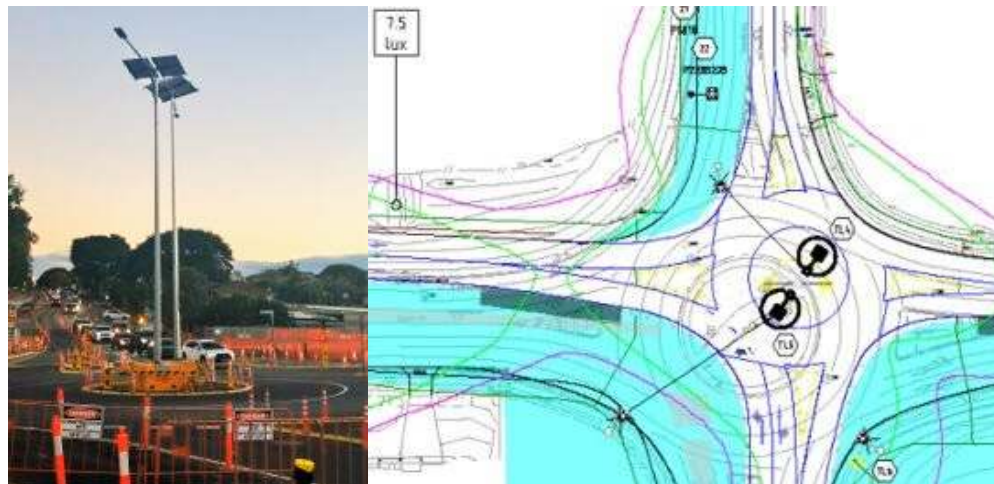
Roundabout

Technical Application Guide

Utilising a combination of optics, mounting heights and outreach assemblies we have been able to achieve compliant lighting on several different size roundabouts, small to very large by either positioning in the centre of the roundabout or around the outsides



Compliant Lighting Achieved from 1 Inside 2 x Outside Location



Compliant Lighting Achieved from 2 Inside Locations



Compliant Lighting Achieved from 3 Outside Locations

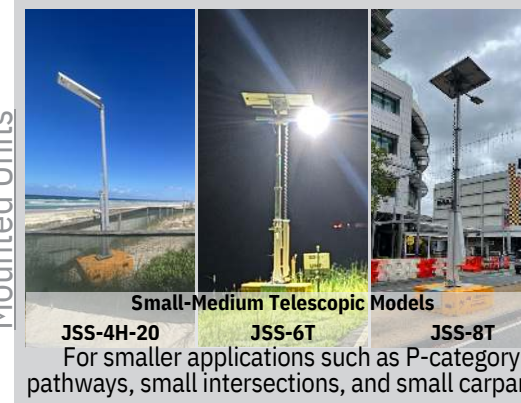
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Solar Lighting Solutions: Product Range & Applications

A comprehensive guide to selecting the right unit for your project requirements.

Telescopic & Trailer Mounted Units



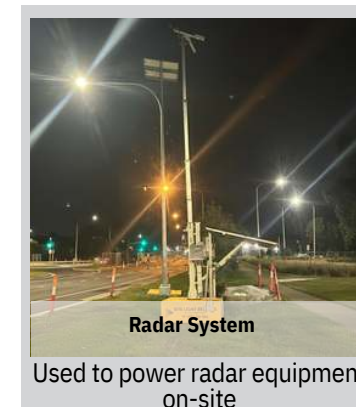
Fixed Pole Solar Street Lights



Jonker Light (Mobile Stadium Lights)



Miscellaneous Products



Technical Information Example Spacing Tables

Technical Information Example Spacing Tables

Technical Spacing Tables: Precision Engineering for Site Safety

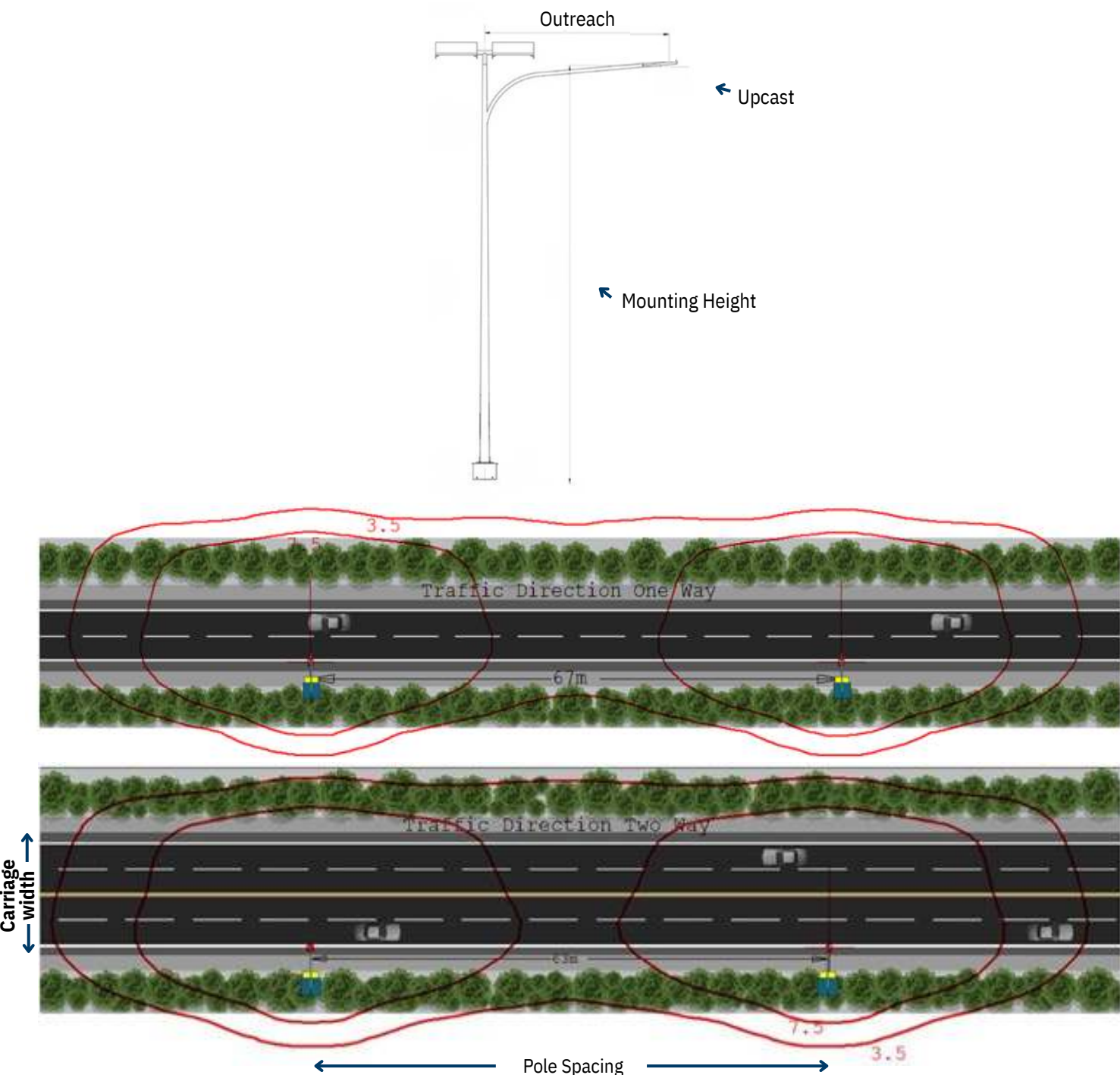
Spacing Tables provide the data-driven foundation for lighting design, assisting your project in meeting **AS/NZS 1158** compliance specifically for straight roadways. These tables reduce guesswork by providing placement estimates tailored to your specific site geometry.

- Compliance Ready: Engineered to align with both V-Category (Vehicle) and P-Category (Pedestrian) standards.
- Optimized Coverage: Identifies ideal distances between units to help eliminate "black spots" and improve uniform visibility.
- Site-Specific Guidance: Cross-references Carriageway Width and Mounting Height to provide spacing across our fleet.
- Visual Representation: Supported by Isolux Diagrams mapping light distribution, outreach, and upcast for site oversight.

Note: Dimensions and illuminance charts are for illustrative purposes. For final engineering and precise technical details, please contact us directly. Products depicted in one scanio only, and may perform better than illustrative results shown

SAMPLE SAASTAN TABLE REPORT

Luminaire	Site Light Rentals Road Flair
Luminaire Source	LED
Upcast	TBA Degree
Mounting Height	Various
Road Surface	CIE R3
Maintenance Factor	0.8
Traffic Direction	Two Direction
Lighting Category	P, V5, V3, V1



Technical Information Example Spacing Tables

JSS-10 Series 	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	16 m
	10.5m Mounting Height Overhang 2m												
	AS/NZ 1158 series 2005	61 m	60 m	61 m	61 m	61 m	61 m	60 m	60 m	61 m	61 m	62 m	62 m
	AS/NZ 1158 series 2020	61 m	60 m	61 m	61 m	60 m	56 m						
	11m Mounting Height Overhang 2m												
	AS/NZ 1158 series 2005	64 m	63 m	64 m	64 m	64 m	63 m	63 m	63 m	63 m	64 m	64 m	65 m
	AS/NZ 1158 series 2020	64 m	63 m	64 m	64 m	64 m	63 m	59 m	55 m	55 m			

JSS-12 Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m	19 m
	12.5m Mounting Height Overhang 2m															
	AS/NZ 1158 series 2005	72 m	72 m	72 m	73 m	73 m	72 m	72 m	72 m	72 m	70 m	72 m	64 m	67 m	59 m	
	AS/NZ 1158 series 2020	72 m	72 m	72 m	73 m	73 m	72 m	72 m	72 m	72 m	72 m	67 m	69 m	61 m	60 m	
	13m Mounting Height Overhang 2.5m															
	AS/NZ 1158 series 2005	75 m	75 m	75 m	75 m	75 m	76 m	75 m	75 m	75 m	73 m	71 m	68 m	66 m	64 m	62 m
	AS/NZ 1158 series 2020	75 m	75 m	75 m	75 m	75 m	76 m	75 m	75 m	75 m	73 m	71 m	68 m	66 m	64 m	62 m

JSS-14 Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m	19 m
	14.5m Mounting Height Overhang 2m															
	AS/NZ 1158 series 2005	80 m	80 m	80 m	80 m	81 m	81 m	80 m	80 m	80 m	80 m	80 m	80 m	81 m	81 m	70 m
	AS/NZ 1158 series 2020	80 m	80 m	80 m	80 m	81 m	81 m	80 m	80 m	80 m	80 m	80 m	77 m	73 m		

*NOTICE – Dimensions, Graphics and illuminance chart are for guidance and illustrative purposes only and are not for engineering purposes, actual product may differ. Please contact Manufacturer to confirm technical details.

Technical Information Example Spacing Tables

SAASTAN TABLE REPORT																
Luminaire		Site Light Rentals Road Flair														
Luminaire Source		LED														
Upcast		5 Degree														
Mounting Height		Various														
Road Surface		CIE R3														
Maintenance Factor		0.8														
Traffic Direction		Two Direction														
Lighting Category		V3														

JSS-10 Dual Outreach Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	16 m
	10.5m Mounting Height Overhang 2.5m												
	AS/NZ 1158 series 2005	65 m	62 m	62 m	62 m	63 m	64 m	65 m	64 m	63 m	61 m	59 m	50 m
	AS/NZ 1158 series 2020	64 m	62 m	62 m	62 m	63 m	63 m	63 m	64 m	63 m	61 m	59 m	50 m

JSS-12- Dual Outreach Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m
	12.5m Mounting Height Overhang 2.5m														
	AS/NZ 1158 series 2005	76 m	74 m	73 m	74 m	74 m	75 m	76 m	77 m	75 m	70 m	69 m	68 m	63 m	57 m
	AS/NZ 1158 series 2020	76 m	74 m	73 m	74 m	74 m	75 m	76 m	77 m	75 m	70 m	69 m	68 m	63 m	57 m

Hammer Head Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m
	12.5m Mounting Height Overhang 2m														
	AS/NZ 1158 series 2005	72 m	72 m	72 m	73 m	73 m	72 m	72 m	72 m	72 m	70 m	72 m	64 m	67 m	59 m
	AS/NZ 1158 series 2020	72 m	72 m	72 m	73 m	73 m	72 m	72 m	72 m	72 m	72 m	67 m	69 m	61 m	60 m

*NOTICE – Dimensions, Graphics and illuminance chart are for guidance and illustrative purposes only and are not for engineering purposes, actual product may differ. Please contact Manufacturer to confirm technical details.

Technical Information Example Spacing Tables

SAASTAN TABLE REPORT

Luminaire	Site Light Rentals Road Flair
Luminaire Source	LED
Upcast	5 Degree
Mounting Height	Various
Road Surface	CIE R3
Maintenance Factor	0.8
Traffic Direction	Two Direction
Lighting Category	V5

* Sample spacing table only, our fixed poles - Barracuda and Hammer Head Series single outreach and dual outreach can also be used in the V5 Category

JSS-8T-100 Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m
	8m Mounting Height Overhang 0m						
	AS/NZ 1158 series 2005	40 m	40 m	40 m	40 m	40 m	40 m
	AS/NZ 1158 series 2020	40 m	40 m	40 m	40 m	39 m	38 m

Barracuda Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m
	9m Mounting Height Overhang 0m								
	AS/NZ 1158 series 2005	44 m	45 m	45 m	45 m	45 m	45 m	45 m	46 m
	AS/NZ 1158 series 2020	44 m	45 m	45 m	45 m	45 m	45 m	45 m	45 m

JS400 - Series	Carriagway Width	3 m	6 m	7 m	8 m	9 m	10 m
	8m Mounting Height Overhang 1m						
	AS/NZ 1158 series 2005	40 m	40 m	40 m	40 m	40 m	40 m
	AS/NZ 1158 series 2020	40 m	40 m	40 m	40 m	39 m	38 m

*NOTICE – Dimensions, Graphics and illuminance chart are for guidance and illustrative purposes only and are not for engineering purposes, actual product may differ. Please contact Manufacturer to confirm technical details.

Technical Information Example Spacing Tables

SAASTAN TABLE REPORT

Luminaire	Site Light Rentals Road Flair
Luminaire Source	LED
Upcast	5 Degree
Mounting Height	Various
Road Surface	CIE R3
Maintenance Factor	0.8
Traffic Direction	Two Direction
Lighting Category	P

* Sample spacing table only, our fixed poles, JSS-6T-60 and Jss-8T-60 can also be used in the P Category

JSS-6T Series	Carriagway Width	6 m	8 m	10 m	12 m	14 m	16 m	18 m
	6m Mounting Height Overhang 0m							
	AS/NZ 1158 series 2005		32m Traffic in one direction					
	AS/NZ 1158 series 2020	59.6 m	59.6 m	59.6 m	59.6 m	59.6 m	45.0 m	11.4 m

JSS-8T Series	Carriagway Width	6 m	8 m	10 m	12 m	14 m	16 m	18 m	20 m	22 m	24 m
	8m Mounting Height Overhang 0m										
	AS/NZ 1158 series 2005	44 m	0	0	0						
	AS/NZ 1158 series 2020	64.6 m	64.6 m	64.6 m	64.6 m	64.6 m	64.6 m	64.6 m	49.6 m	28.3 m	15.7 m

P Category Spacing Table Coming Soon!

*NOTICE – Dimensions, Graphics and illuminance chart are for guidance and illustrative purposes only and are not for engineering purposes, actual product may differ. Please contact Manufacturer to confirm technical details.

Technical Information Example Spacing Tables



The not So Dumb Questions!

Q – What is the cost of compliant lighting?

A - *Nothing! Compared to the risks and liabilities of non-compliant*

Q – What is the upside of using temporary solar street lighting?

A – *Modularity – Ease of transport, assembly and relocation
Extra Low Voltage - 24v DC, assembly/ disassembly by skilled labour only*

100% stand alone Solar + Battery = Zero Copper theft

No 240v. No Electricians. No Test and Tag

Minimal on-site maintenance, set & forget

Q – Do your products meet Pedestrian (P Category) and Vehicular (V Category) design requirements?

A – *Yes, we have single category and multi-category compliant lighting*

Q - Why do you have such a large variety of Solar Street Lights?

A – *So that we can minimise the cost of project temporary lighting,*

Q – How do we minimise the cost of project temporary lighting?

A – *By minimising units required by maximising “pole spacing” and optimising light output*

Q – Which is the best product for “P” Category Or “V” Category Lighting?

A – *The lower mounting with lower Luminaire output is generally best suited for “P” Category.*

Q - What wind rating are your products engineered for?

A – *Cyclonic - Single outreach 10m and 12m JSS-Series fixed poles*

Region - JSS-14 Series and the JSS-Dual Series

100km/hr - Telescopic units

Q - How many days do your lights run for without Sun?

A - *Earlier Solar Lights more than 4 Nights
Newer models more than 5 Nights*

Q - Do i need a qualified electrician to assemble your Solar Street Lights?

A – *No licensed electrician required, skilled labour only*

Q - What Maintenance is required on your solar lights?

A – *Our lights are designed to minimise user maintenance and cost, (Unless parked under a bridge/ building/ tree),*

Q – How long does it take to assemble and disassemble or extend and retract your solar street lights?

A - *Fixed Poles,
Single outreach sub-2 hours assemble, 1 hour to disassemble*

Dual Outreach, Sub-2.5hrs assemble, 1.5 hour to disassemble

Telescopic Units 10 minutes - 25 minutes

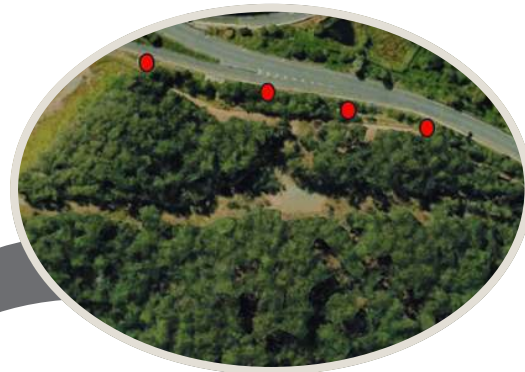
Q - Do your products need any EWP or Working at Heights requirements?

A - *No, unlike other products, ours have been designed to maximise safety and minimise cost.*

Q – Do we need to have compliant lighting?

A - *AS1158*

Setup Guide



- 1 Site/ Ground Assessment**
Ensure solid level compact ground, clear sky with no shadows and no overhead services



- 2 Transport to Site**
Secure mast/panels and check overhead clearances.



- 3 Unloading**
Crane/Hiab operation.



- 4 Base Positioning**
Pad setup.

Setup Guide



- 5 Leveling for Stability**
Adjust base with outriggers or solid secure timber chocks



- 6 Pole Assembly**
Assemble pole on the ground, and orientation of solar panel



- 7 Install and level pole**
Adjust pole level if necessary



- 8 Lighting Setup**
Hardware installation and luminosity testing.

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