



## enConnect

A faster, safer way to install lights  
in difficult environments



# enConnect - Customisable Lighting System



**IMPROVE SITE SAFETY USING A FLEXIBLE  
AND MOVABLE LIGHTING SOLUTION FOR  
EGRESS ROUTES AND WORK AREAS**



Lighting requirements on a construction site are ever-changing. enLighten's enConnect System is a robust plug-and-play solution for emergency and non-emergency luminaires.

Designed for construction sites, tunnels or utility rooms where long lengths of lights need to be strung together. Especially to access dirty or uneven areas where installation access is difficult/dangerous

enConnect is a fast fit system that allows for both vertical and/or horizontal luminaire connection. Our lights have been designed to perform in harsh environments with an IP65 and high IK rating.

Using enLighten's enConnect Lighting System means you save on installation time, labour and material costs whilst improving site safety.

Perfect for temporary lighting systems or where long runs of lighting & emergency lighting are required

## PLUG-AND-PLAY CONNECTIONS

Quicker installation, save on labour and material costs

## SAFER INSTALLATION

One way plug-and-play connections eliminates electrical faults

## SUSTAINABLE

Re-usable leads and luminaires

# enConnect - Customisable Lighting System



Every site is unique, and being able to customise the solution to meet the specific requirements is the key to enConnect's success.

Whether it's an emergency lighting requirement on a walkway at the edge of the tunnel or general lighting over a large area, enConnect has the solution.

## Custom Cables

Cables need to be selected and sized to meet the environment they will be installed in. We consider mechanical and environmental stress to determine the type of cable selected and the length of run and load to determine the size of conductors.

Our standard cable has a heavy duty rubber sheath that is suitable for industrial applications with medium mechanical stress. The conductor size determining factor is often voltage drop, especially where the circuit length exceeds 80 m.

Cables are supplied at the length specified in the lighting design with connectors attached to ensure installation is straightforward and as quick as possible.



## Connector Options

We have 2 connector options; being screwed and autolock. Depending on the use case we will discuss with the client to determine the best option for them. There are also several three-way connectors available to give greater flexibility to the enConnect circuit where branching off is required.



**Screwed  
Connector**



**Auto-Lock  
Connector**



**T-connector**



**Y-connector**

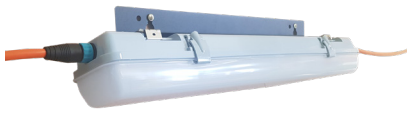
# enConnect - Customisable Lighting System



## Mounting Options

Customising brackets to enable the lights to be mounted easily is where enConnect is different from all other lighting solutions. These brackets are often designed by our industrial designer to suit the particular applications. These brackets save an a huge amount of time during installation and also enable the lights to be relocated easily at a later date.

Whether they are mounted on Unistrut, scaffolding, a wall or a cable tray, the best design will be offered as part of the enConnect solution.



Wall-mounted bracket



Unistrut bracket



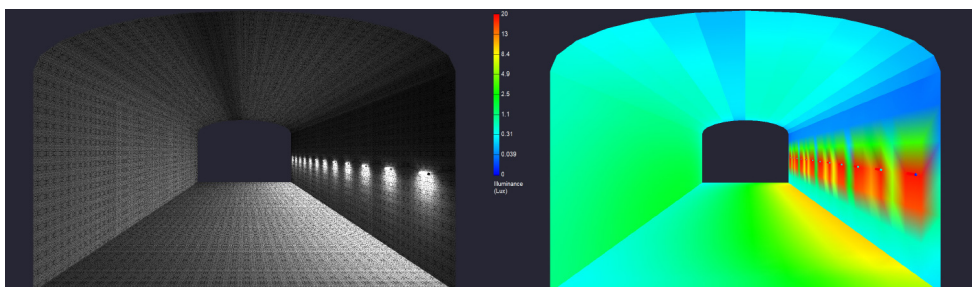
Scaffolding bracket

## Lighting Design

The key to a successful project is a lighting designer that understands the particular requirements of the site. Whether it be specific client requirements or those detailed in lighting Standards.

The space needs to provide sufficient illumination to meet both the general and emergency lighting needs of the workers. Many of the projects we have delivered have lighting requirements as specified in AS3012 - Electrical installations – Construction and demolition sites. This standard requires a higher level of emergency lighting to be provided compared to buildings generally and specific expertise is required to deliver this solution, often with non-standard emergency luminaires.

Our lighting team has significant experience in designing lighting solutions in a range of construction tunnels, scaffolds and construction sites generally, to meet these requirements.



Thanks to our in-house lighting designer, we are able to provide a variety of designs and visuals allowing you to see the enConnect system in action before installation while ensuring your project's compliance.



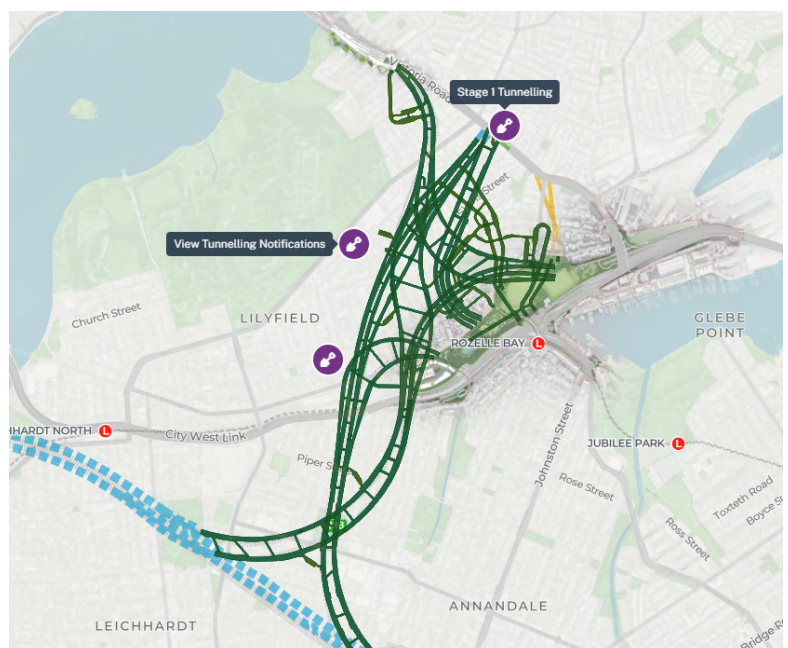
# Case Study - Rozelle Interchange



Understanding this complex environment was the key to our success on this project. Our custom-designed connected system, complete with innovative brackets, enabled these 11,500 emergency lights to be installed as the tunnels were being excavated. The omnidirectional connection system created a flexible connection to luminaires while integrating yellow, red & blue LEDs into the emergency fixtures. This enabled the construction team to clearly identify evacuation, first aid and eye wash areas.

*"enLighten's engineering team demonstrated an exceptional level of technical expertise, providing us with a customised lighting solution that not only met our stringent specifications but surpassed our performance expectations. The support we received during and after implementation was first class, with their team always available to assist with conformance verification of the project."*

**- Nick Mott,  
Plant Superintendent, Western  
Harbour Tunnel – Southern Tunnel  
Works**



# HIGH BAY enl-HB101



A robust, reliable, and high efficacy LED high bay light suitable for a variety of environments. Available with a wide angle asymmetrical beam angle, this light is ideal for tunnel lighting projects.

It is available with a 2 metre flex and plug or it can be connected to our enConnect system to streamline installation.

## PRODUCT RANGE

Model #	Rated Power (W)	Luminous Flux (lm)	Dimensions (mm)	Weight (kg)
enl-HB101-55-750-yy-zz	55	9300	481x102x100	2.2
enl-HB101-100-750-yy-zz	100	17000		
enl-HB101-150-750-yy-zz	150	25500	712x102x100	2.9
enl-HB101-200-750-yy-zz	200	34000	943x102x100	3.5

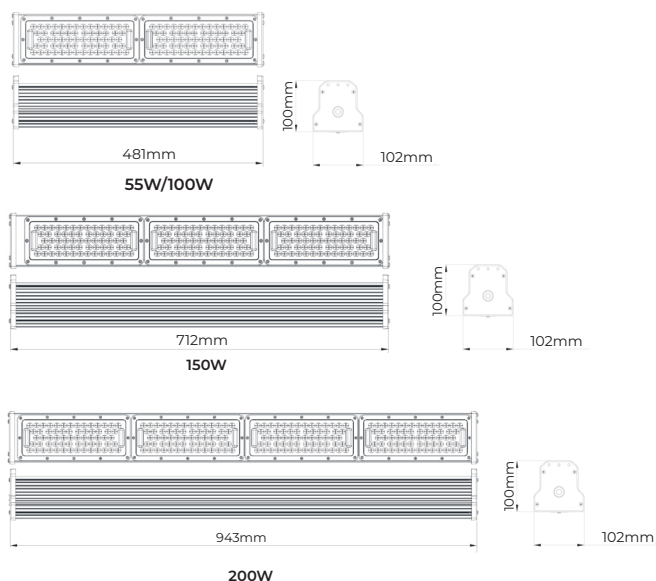
yy stands for required connector system, Use:

- SC for screwed connector and 2.5mm<sup>2</sup> through wiring
- ALC for auto lock connector and 2.5mm<sup>2</sup> through wiring
- leave blank for flex and plug.

zz stands for beam angle, Use:

- S2 for 120°
- AR1 for 50x90°

## DIMENSIONS



## COMPLIANCE



The enl-HB101 meets all relevant standards and regulatory requirements.

## TECHNICAL INFORMATION

### Optical

Light source	LED
CRI	Ra>70, Ra>80
CCT	5000K, 6000K
Beam Angle	AR1, S2

### Electrical

Power consumption	55W - 200W
Operating voltage & frequency	120-240 VAC , 50/60 Hz
Power factor	>0.93

### Environmental

IP rating	IP65
IK rating	IK08
Ambient temperature range	-30°C to + 50°C
Material Composition (body)	Aluminium alloy
Fixture Colour	Black (RAL9017)

### LED Lifespan

>130,000hrs @L70
>81,000hrs @L80

### Warranty\*

5 years

Data subject to change without notice

\* Refer to warranty policy

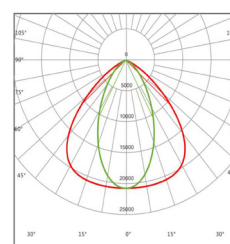
## MOUNTING OPTIONS



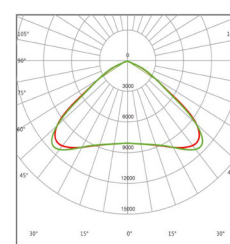
**Rotatable Mounting Bracket**  
Code : enl-HB101-RMB

**Ceiling Mounting Bracket**  
Code : enl-HB101-CMB

## PHOTOMETRICS



AR1



S2



# BATTEN LIGHT Vico-HP



A robust, waterproof batten light with high lumen output in both normal and emergency mode. Designed for high risk areas requiring higher than normal light levels such as tunnels during construction, building sites and critical maintenance areas.

Terminal strips are conveniently located at each end to facilitate throughwiring, or it can be connected to our enConnect system to streamline installation.

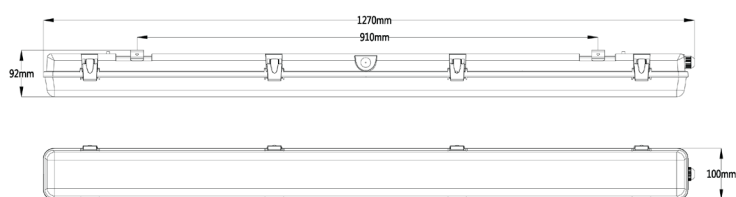
## PRODUCT RANGE

Model #	Description	Rated Power (W)	Lumens(lm)	
			Full	EM
BL12-HP-yy	1200mm high powered non emergency batten	50	6500	N/A
BL12E-HP-yy	1200mm high powered emergency batten	50	6500	2800

yy specifies connector system, Use :

- SC stands for Screwed Connector and 2.5mm<sup>2</sup> through wiring
- ALC for auto lock connector and 2.5mm<sup>2</sup> through wiring
- TS stands for Terminal Strips and 2.5mm<sup>2</sup> through wiring

## DIMENSIONS



## COMPLIANCE



The Vico-HP meets all relevant standards and regulatory requirements.



enLighten



[www.enlighten.com.au](http://www.enlighten.com.au) | 1800 365 444

## TECHNICAL INFORMATION

### Optical

Light source	LED
CRI	Ra>70, Ra>80
CCT	5000K, 6000K

### Electrical

Power consumption	50W
Operating voltage & frequency	220-240 VAC , 50/60 Hz
Power factor	>0.93

### Emergency light

Battery rating	6.4V 9.9Ah LiFePO4
Discharge time	90 minutes

### Environmental

IP rating	IP66
IK rating	IK10
Weight	3.3kg (emergency)
Ambient temperature range	0°C to + 40°C
Material Composition	Polycarbonate, UV stabilised

Warranty*	5 years
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Data subject to change without notice

\* Refer to warranty policy

enLighten Australia Pty Ltd

3/12 Frederick St, St Leonards, NSW 2065