



SENSITIVE LIGHTING STRATEGY

CONSTRUCTION OF AN INDUSTRIAL BUILDING (USE CLASS B2)

AMMAN VALLEY WELDERS , PARK HOWARD ROAD, CWMGORS, SA18 1PA

JUNE 2025
(Amended July 2025)

LOCAL AUTHORITY REF: 2022/0926

OUR REF: 22/884

69 Walter Road, Swansea. SA1 4QA
Tel: 01792 648380 - email: sgwplanning@aol.com

1.0 INTRODUCTION

1.1 Background

This Sensitive Lighting Strategy document (SLS) has been prepared for the proposed development of a new light industrial building within the Amman Valley Welders existing site and compound located on Park Howard Road, Cwmgors, SA18 1PA. The development was granted planning approval under planning approvals reference: P2022/0926 on 29th August 2023 for the:

‘Construction of an Industrial Building (Use Class B2)’

A ‘light mitigation strategy’ Condition was added to the planning approval at Condition 5, which indicated:

5 Prior to the erection of any lighting, a light mitigation strategy, including measures to reduce light spillage shall be submitted to and approved in writing by the Local Planning Authority. The light mitigation strategy shall be implemented and retained in accordance with the approved details.

Reason:

To ensure that animal and plant species and habitats listed under the Conservation of Habitats and Species Regulations 2010 are adequately protected; and to ensure compliance with Policies SP15 and EN6 of the Neath Port Talbot Local Development Plan.

1.2 Site Location

The application site is located within the existing and established light industrial area of Park Howard Road, known as the 'Cwmgors Industrial Estate'.

The site is accessed directly off Park Howard Road, which links the site with the main feeder road of Heol-y-Goes (A474), which runs between Lower Brynamman and Brynamman in the east to Cwmgors in the west.

Park Howard Road is an established access road with existing dwellings located just off its junction with Heol-y-Gors leading to a number of existing and established business/industrial units within the Industrial Estate, including the subject site.

Park Howard Road continues on to the west, past the site, serving a number of rural dwellings and farmsteads in the countryside beyond.

Pedestrian access to the site can be achieved via Park Howard Road with pedestrian links from the site to the main road of Heol-y-Gors and the public transport/local distributor highway network.

The area is generally characterised as being light industrial in nature surrounded to the west and north by open countryside.

Copies of the approved site Location Plans and site layout plans are attached at Appendix A and B.

1.3 Lighting Zone

The site is assessed as being in between two lighting zones; Zone E2 (Rural – Low District Brightness) and E3 (Medium District Brightness) as indicated by the ‘Environmental Zones’ published by the Institute of Lighting Professionals (ILP), 2012 as it lies behind the main village thoroughfare of Cwmgors on the edge of a rural area.

Several streetlights are present nearby within Park Howard which generate extensive artificial lighting to the associated highway areas somewhat decreasing the quality of foraging and commuting bat habitat.

The site will therefore be assessed as being within the most ‘rigorous zone’ of the two zones as advised by the ILP

1.4 Scope of this Report

The scope of this report is to provide an SLS that will reduce the impacts of artificial light spill resulting from the proposed development and subsequently limit impacts of artificial light spill on local bat populations.

This report aims to provide specific light installation prescriptions in accordance with current guidance issued by the Bat Conservation Trust and Institute of Lighting Professionals: *Guidance Note 08/18: Bats and Artificial lighting in the UK* (BCT & ILP 2018) and ILP Guidance Note 01/21 – The Reduction of Obtrusive Light.

Given this, this report aims to provide sufficient information to support of the discharge of planning condition 5.

2.0 Lighting for Bats

The lighting design for the site will be of a 'bat-friendly' specification, comply with the Institute for Lighting Professional's and Bat Conservation Trust's guidance (2018) and kept to the minimum level which meets the needs of security and health and safety. The unnecessary lighting of habitats which could potentially be used by foraging bats such as nearby trees, hedgerows etc. will be avoided.

External lighting will be minimised and installed at low-level only (i.e. no higher than eaves level and lower than 2.4m) and directed downward (i.e. below the horizontal plane with no upward tilt). Fully shielded lights with front and side hoods/shields or cowls will be installed to prevent upwards and horizontal light spill. The lighting source will not be visible.

Lighting will not be located in the vicinity of, or shine towards, potential bat access points or possible/actual commuting routes and flight lines, thus maintaining a 'dark corridor' and avoiding/minimising disturbance to roosting bats.

Any security lights used will operate off a passive infrared (PIR) motion sensor sensitive to large objects only, to avoid constant triggers by bat passes and with timers set on a short duration (i.e. a maximum 'on' time of one minute) to reduce the amount of 'lit time'. The lights will either have an integrated LED light source, or use LED bulbs. They will be low intensity and have a warm white colour temperature of 3000K or less (ideally 2700K if commercially available). White, blue and green lighting sources including mercury or metal halide, CPO and CDO (ceramic discharge metal-halide) bulbs which have a significant effect on bats will be avoided.

An example of a suitable light for the elevations is provided at Appendix C.

2.1 Relevant Wildlife Legislation

All British bat species and any place used for shelter or protection, or a breeding site or resting place (their roosts), are fully protected under the amended Wildlife and Countryside Act 1981 through inclusion in Schedule 5. The roosts are protected irrespective of whether bats are present at the time. All bats are fully protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species (Amendment) (EU Exit) ['CHSAEU'] Regulations 2019. These pieces of legislation make it illegal to deliberately or recklessly:

- kill, injure or capture bats;
- disturb bats;
- damage, destroy, or obstruct access to bat roosts (including sites that are currently unoccupied);
- possess or transport a bat or any part of a bat unless acquired legally; or
- sell, barter or exchange bats or parts of bats.

Disturbance is defined as that which is likely to impair bats ability:

- to survive, to breed or reproduce, or to rear or nurture their young;
- to hibernate or migrate; or
- to affect significantly the local distribution or abundance of the species to which they belong.

Relevant Legislation which applies to the development in respect of protected species includes:

- Wildlife and Countryside Act 1981 (as amended)
- Conservation of Habitats and Species Regulations 2017 (as amended)
- The Conservation of Habitats and Species (Amendment) (EU Exit) ['CHSAEU'] Regulations 2019.

- Institute for Lighting Professional's and Bat Conservation Trust's guidance (2018)

3.0 Lighting Design Principals

With regards to the site lighting, the following design principals will be adopted to incorporate sensitive lighting on site and on retained boundary habitats to minimise the effect on light sensitive species such as bats:

- Minimise the amount of lighting,
- Do not illuminate areas where birds are nesting,
- Avoid light ecologically sensitive areas,
- Avoid the use of reflective materials under lights,
- Minimise light spread,
- Minimise the height of any lighting,
- Avoid lighting when possible,
- Use barriers to shield ecologically sensitive areas,
- Limit the period of illumination.

3.1 Appropriate luminaire specifications

Luminaires come in a myriad of different styles, applications and specifications which a lighting professional can help to select.

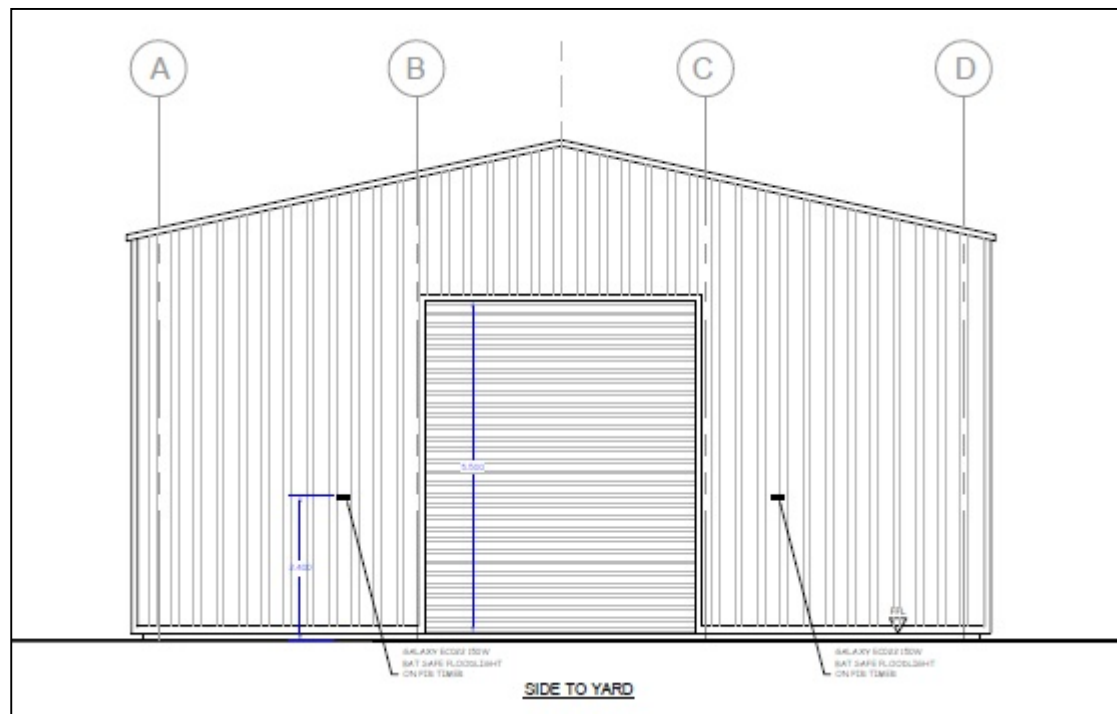
The following should be considered when choosing luminaires and an example of a suitable light for the elevations is provided at Appendix C.:

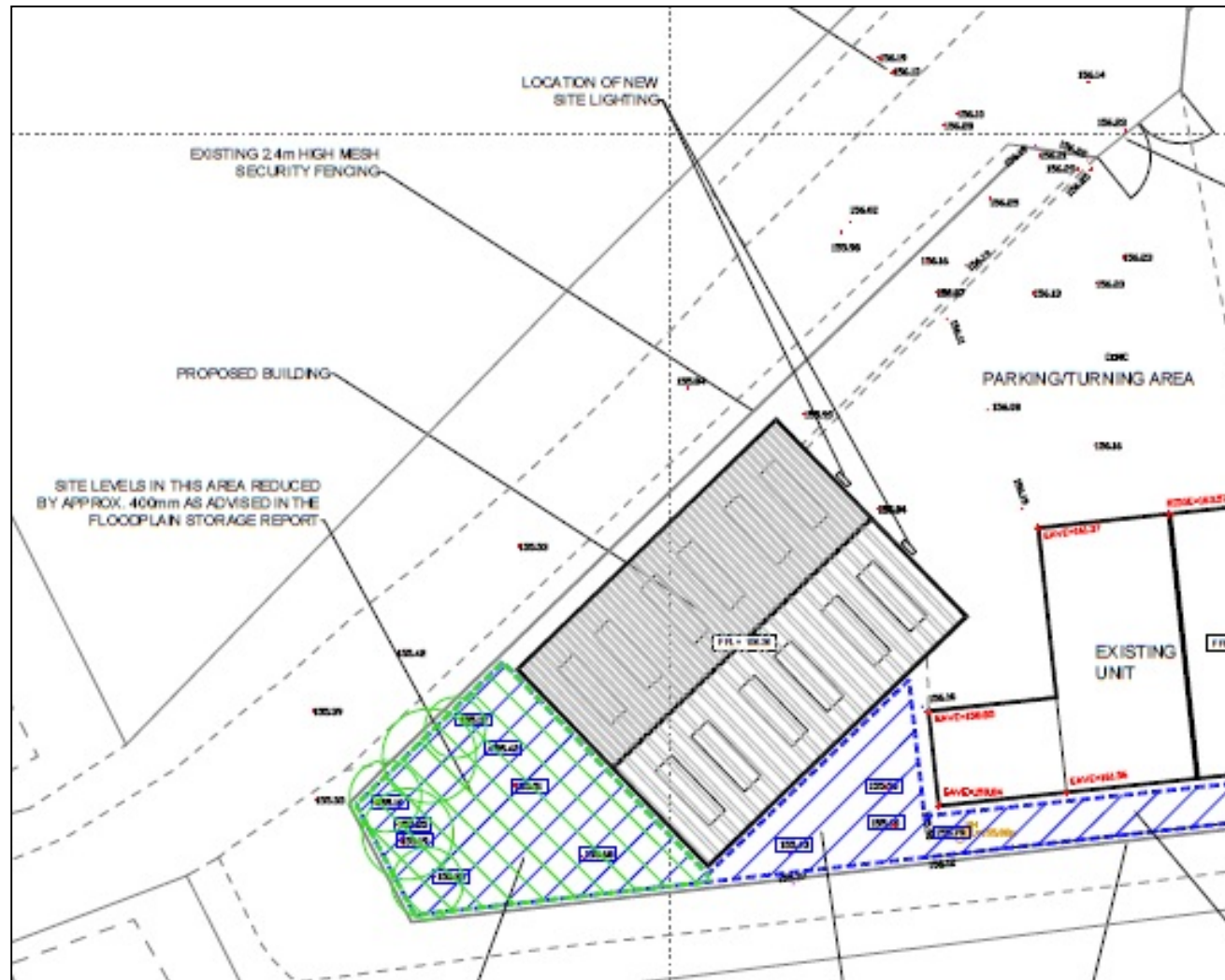
- All luminaires should lack UV elements when manufactured,

- LED luminaires should be used where possible due to their sharp cut-off, lower intensity, good colour rendition and dimming capability,
- A warm white spectrum should be adopted to reduce blue light component,
- Luminaires should feature peak wavelengths higher than 550nm to avoid the component of light most disturbing to bats,
- Any external security lighting should be set on motion-sensors and short (1min) timers.
- External lighting spread restricted to less than 5m.

3.1 Location of External Lighting

External lighting is only proposed on the entrance 'side' (north-eastern elevation) of the building, to illuminate the entrance doorway area and front apron to the building. The location and position of this lighting is shown on submitted drawings 22/884/03D & 22/884/06A, extracts indicated below.





There is no other reason to light the perimeter of the building as access is not required to any area other than the main entrance to the building.

As a result, the installation of lighting in line with current guidance (BCT & ILP 2018) on these building aspects is not assessed to significantly increase artificial light levels currently present. Proposed locations for external lighting installation are shown on plan number 23/927/12 'Proposed Lighting Plan'.

The external lighting will be installed in accordance with current guidance issued by the Bat Conservation Trust and Institute of Lighting Professionals: Guidance Note 08/18: Bats and Artificial lighting in the UK (BCT & ILP 2018). The below strategy utilises light prescriptions detailed within this guidance to limit impacts of artificial lighting on bats.

4.0 Conclusion

The site has been assessed as Environmental Zone E3, with the lighting strategy outlining a scheme and parameters that will comply with the limiting criteria for that zone, in order to limit obtrusive light and light pollution to an acceptable level. The intention is to fully comply with the recommendations for an E3 zone, particularly in relation to removing any upward light spill to further reduce the ecological impacts from the scheme.

The external lighting proposed for the development will be designed in accordance with industry standards, guidance and recommendations in order to provide an adequate level of illuminance for security, safety and amenity throughout the site, whilst limiting obtrusive light, over-lighting, energy consumption and impacts on the environment and ecological receptors.

The proposed lighting scheme is intended to be as minimalistic and sensitive as possible whilst achieving these aims, and to be in keeping with the proposed residential use, whilst mitigating ecological impacts from lighting as far as possible.

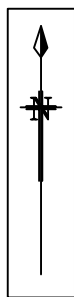
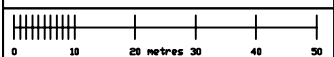
Luminaries utilised throughout the scheme will be downward directional with LED light sources, with warm white colour temperatures to minimise the impacts on general ecology, bats and ecological receptors.

Post installation monitoring and checks to verify that the light levels and parameters are in accordance with the Lighting Strategy outlined, are also anticipated.

5.0 Appendices

5.1 Appendix A – Site Location Plan

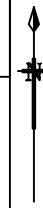
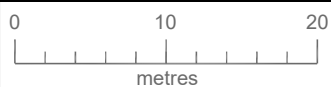
NEAREST POSTCODE: SA18 1PA
 SITE GRID REFERENCE: SN703111
 EASTING: 270300 / NORTHING: 211173



Rev.	Description	Date	Initial
DIMENSIONS SHOULD BE READ AND NOT SCALED DIMENSIONS SHOULD BE CONFIRMED ON SITE			
Project			
PARK HOWARD ROAD, CWMGORS, GWAEN CAE GURWEN			
Title			
LOCATION PLAN			
Drawn	MIS	Date	MAR. 2022
Scale(s) 1:1250			
Drawing No. 22/884/01		Revision	
Disk Ref. Park_Howard_Rd_OS.dwg			
			
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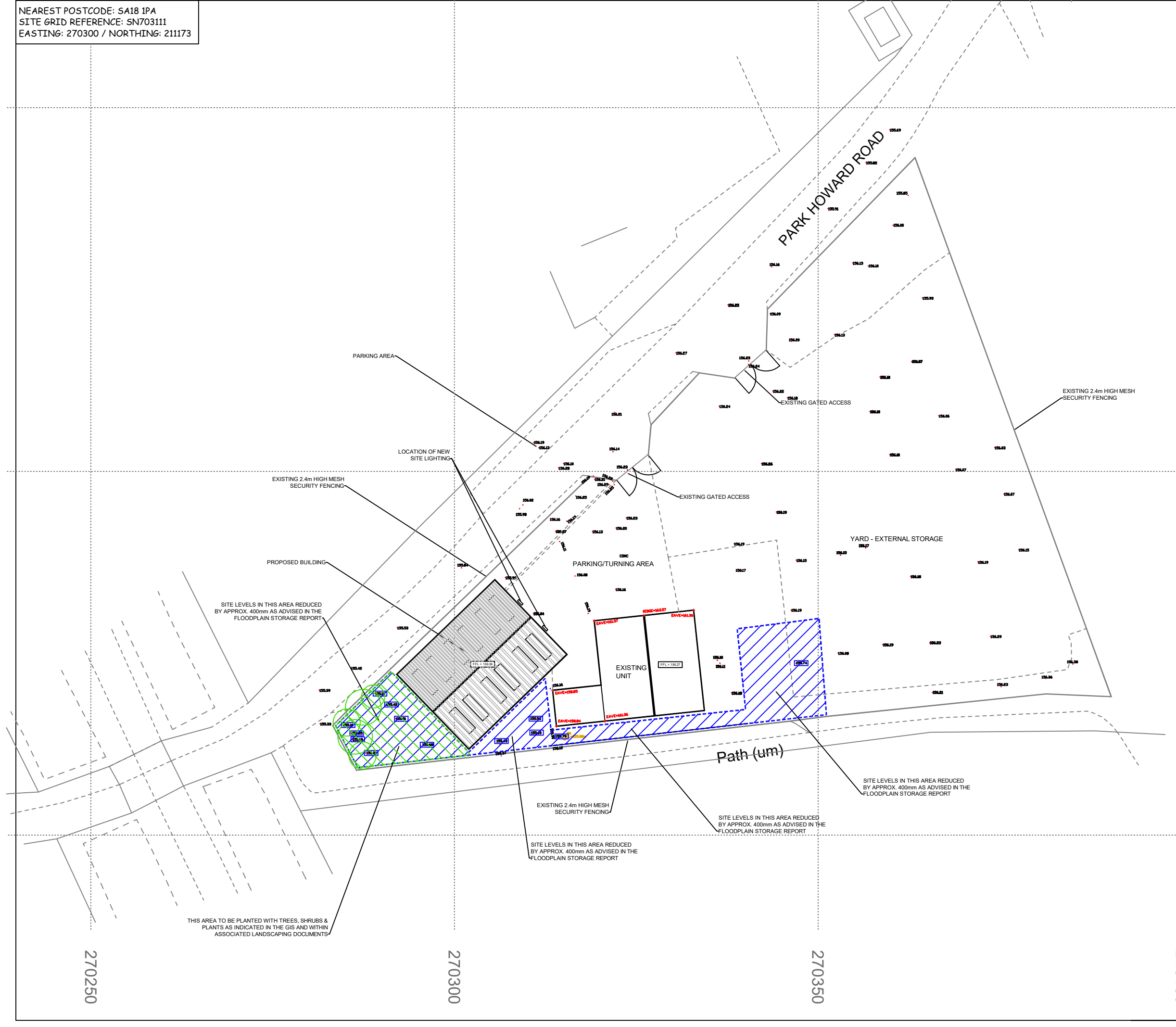
5.2 Appendix B – Approved Site Layout Plan

NEAREST POSTCODE: SA18 1PA
SITE GRID REFERENCE: SN703111
EASTING: 270300 / NORTHING: 211173



211250

211200



D	Lighting details added	07/25	MIS
C	Additional details added	08/25	MIS
B	Recommendations of Flood report added	03/23	MIS
A	As surveyed site levels added	10/22	MIS

Rev	Description	Date	Initial
Project: PROPOSED LIGHT INDUSTRIAL UNIT AT PARK HOWARD ROAD, CWMGORS, GWAEN-CAE-GURWEN			
Title: PROPOSED SITE LAYOUT			
Date:	APRIL 2022	Drawn:	MIS
Scales(s):	1:500 @ A3	Issue:	
Dwg No:	22/884/03	Revision:	D

Disk: Park_Howard_Rd_SITE.dwg



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A3

C

5.3 Appendix C – External Wall Lights

Galaxy EC022 100-320W Bat Safe Floodlights

Product Datasheet



Datasheet

Overview

Technical Data

Imagery

Contact us

The Galaxy EC022 lights are a range of warm orange colour temperature LED floodlights specifically designed for bat sensitive locations. Available with a choice of unique beam optics for precise light control and low glare. High quality components combined with excellent thermal management, make the Galaxy range a class leading product in this sector

Features:

- 2200K
- IP66
- Philips LEDs
- Unique choice of beam angles
- High Specification components
- Corrosion Proof Coating (marine grade option available)

5 year warranty

The Galaxy EC022 Floodlight is the latest generation LED floodlight, designed for a world where humans commit to live in harmony with nature.



100w & 150w

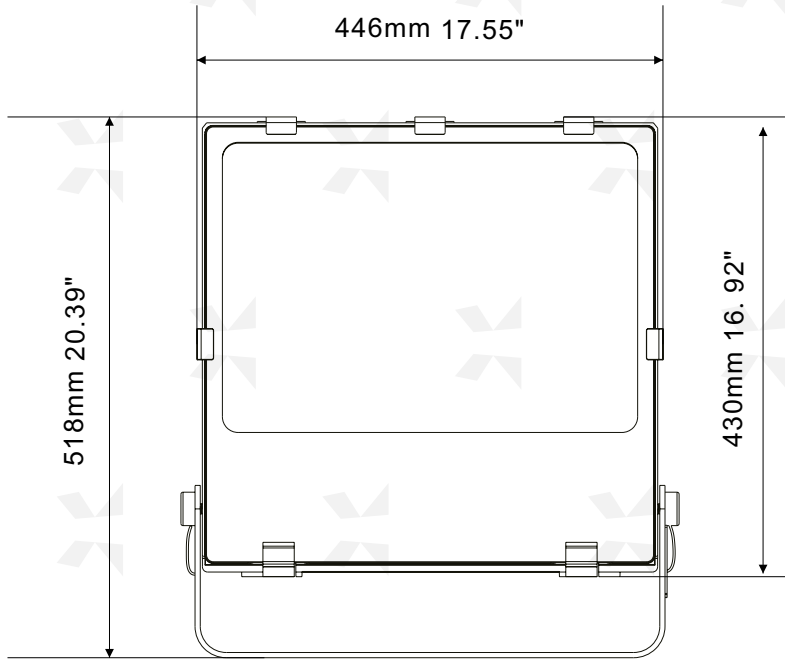
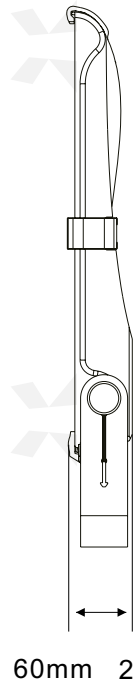
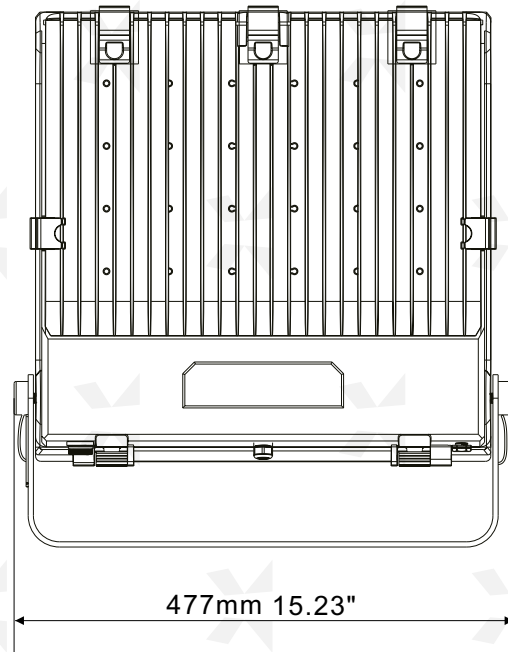
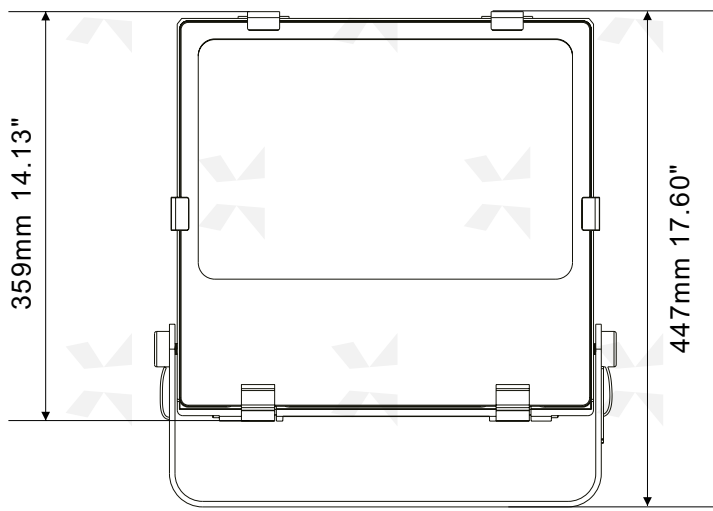
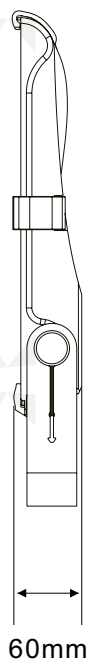
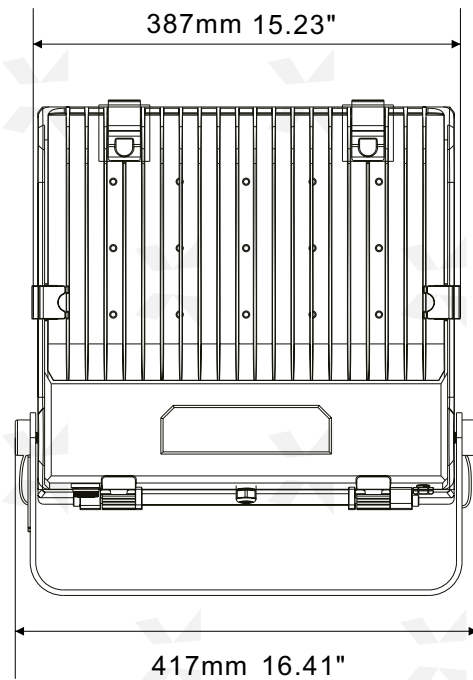
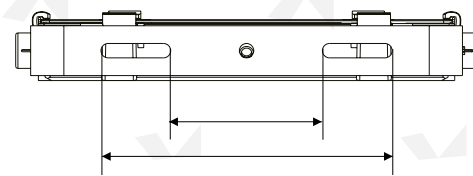
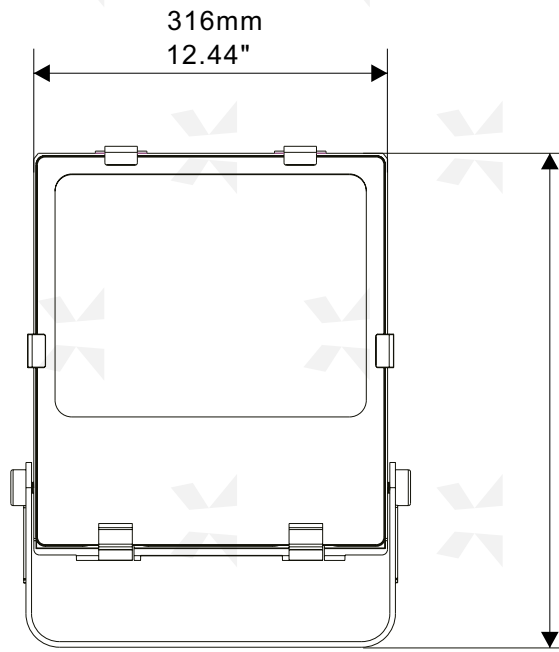
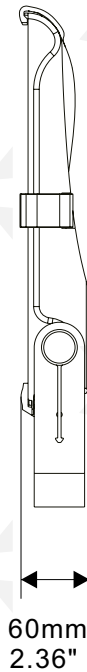
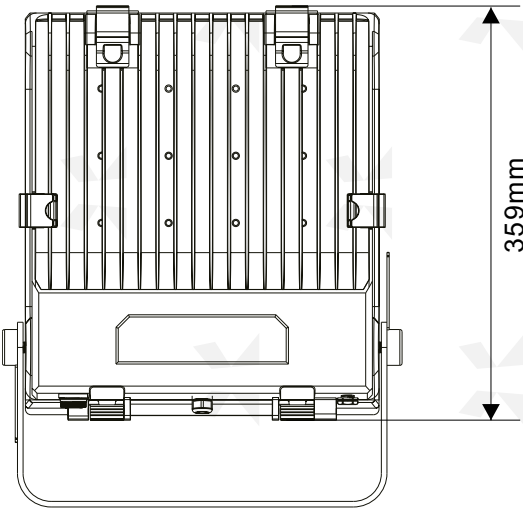
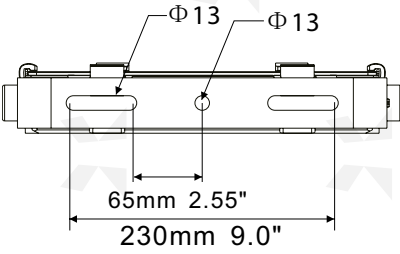


200w & 240w



320w





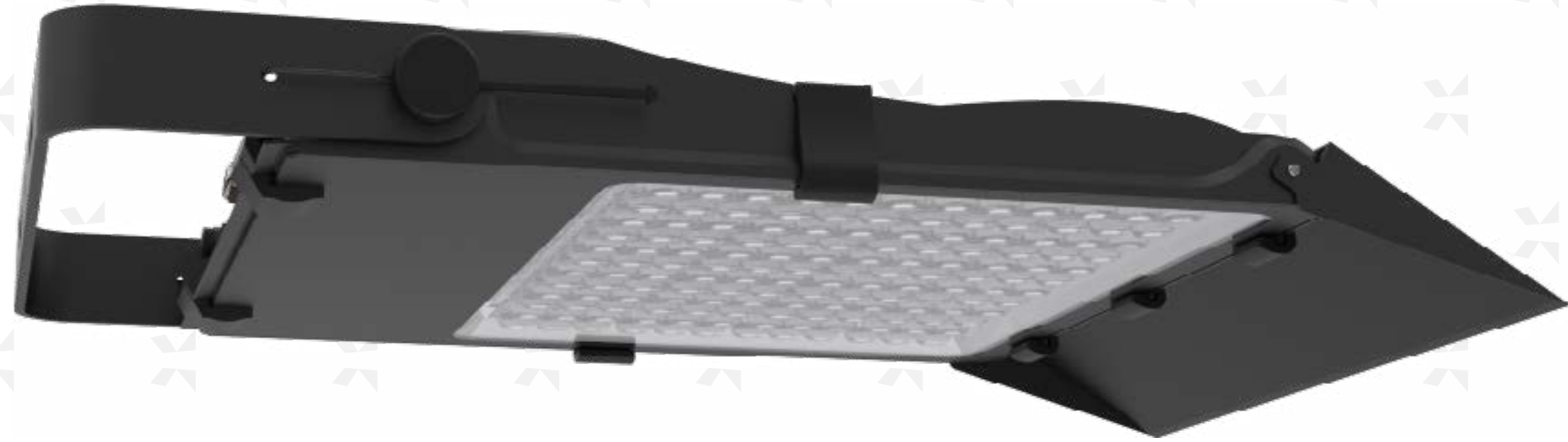
100w & 150w

200w & 240w

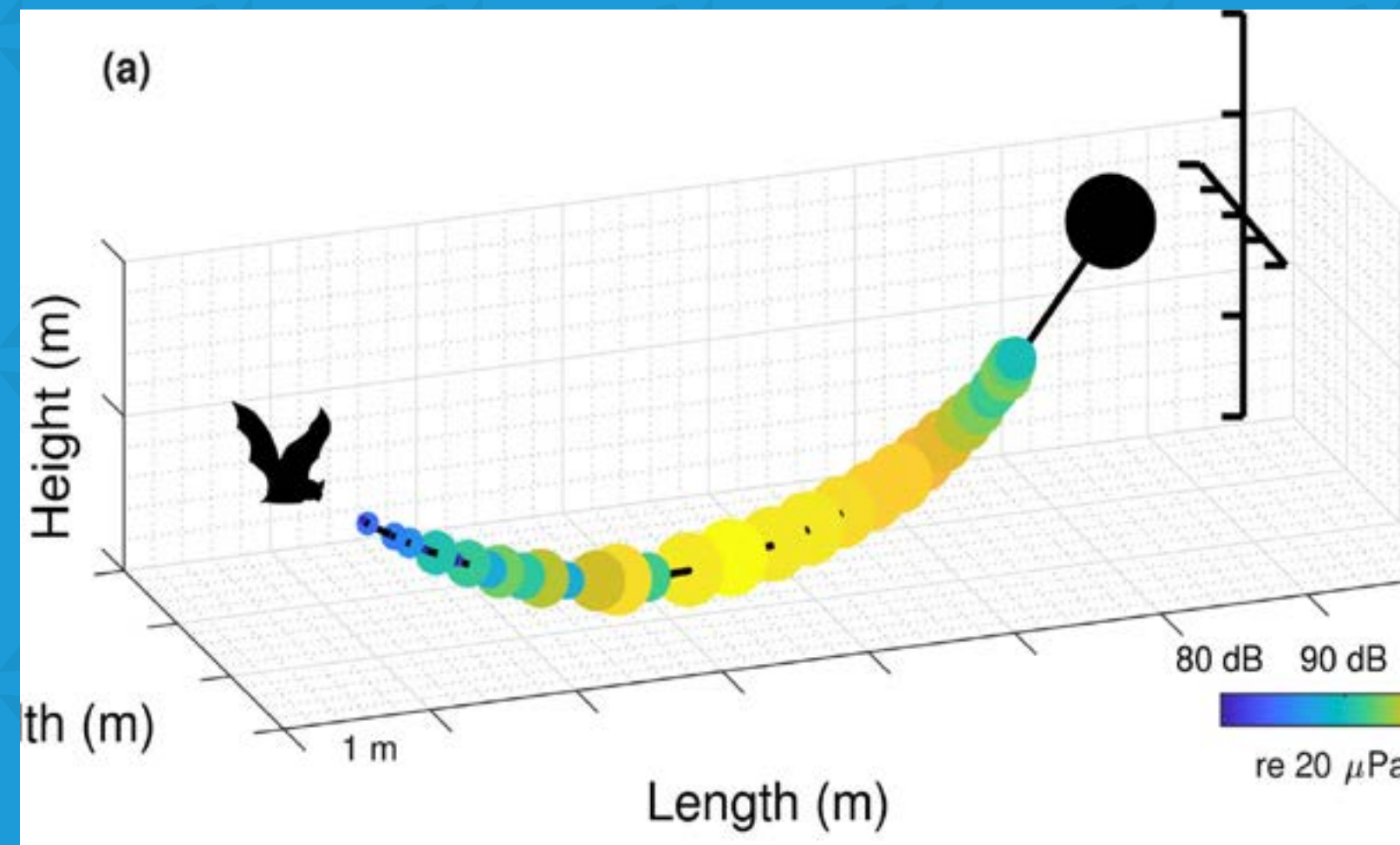
320w

Product Code	Galaxy EC022- 100	Galaxy EC022- 150	Galaxy EC022- 200	Galaxy EC022- 240	Galaxy EC022- 320
Power (Watts)	100	150	200	240	320
Lumen Output	13000	19250	25950	28600	38100
Weight (KG)	4.2	4.2	5.7	5.7	7
Input Voltage	100-277VAC or 200-240VAC				
LED Chip	Philips				
Dimmable Options	1-10v / Dali Optional				
Finish	Black				
IP Rating	IP66				
Beam Angles	20° / 60° / 90° / 120° / Type IV / P50				
CCT	2200K				
Warranty	5 Years				





We offer full lighting design services.



For more information about the product featured in this datasheet please contact the experts at Exled.

Call 01453 756 361 or email sales@exled.co.uk

