

Exterior Walkways

Installation : Ribble Valley Retirement Complex

Project number : WS.PR1771

Customer : Kosnic Lighting Ltd

Processed by : Wayne Smith

Date : 22.08.2024

Project description:

Lighting calculations are provided as a guide only.

Schemes are based upon the room dimensions and information issued by the Client.

All dimensions and project information / requirements must be checked prior to order.

The Lighting Scheme has been designed to CIBSE guidelines where applicable. Standard reflectance levels used.

Lighting designs are carried out for estimation purposes only and Kosnic accept no responsibility, and cannot be held liable for, any variances in light levels achieved. It is ultimately the responsibility of the installer to ensure the solution offered is suitable for the installation environment, and meets all of the requirements of the end user.

Where applicable, Emergency Lighting has been suggested in accordance with BS5266, EN1838 and EN50172. It is the responsibility of the Purchaser/Installer, and not Kosnic, to ensure that the design complies with local fire, health, and safety regulations. The emergency lighting must be checked and approved by a local fire control officer and approved by the building owner. In the event that the design is found not to comply, Kosnic will adjust the design in consultation with the customer to ensure that it does comply with such regulations.

Any emergency lighting calculations included do not account for the location of critical emergency items, such as, but not limited to, plant or switch room task locations, reception telephone, first aid points, extinguisher points, call points, push bars, fire panels, etc. These areas may require higher risk lux levels under emergency conditions.

In the absence of a Fire Strategy plan, any exit signs specified have been done so based on assumptions regarding the shortest exit routes. These are estimations only and should be reviewed in full prior to any order. Responsibility for this lies with the Purchaser/Installer and the responsible person, or building owner, for the site.

Any controls or sensors specified by Kosnic are offered purely as a suggestion and Kosnic accept no responsibility, and cannot be held liable for, specified controls meeting the specific needs and/or requirements of the site/installation. It is the responsibility of the Purchaser/Installer to make sure that any proposed controls or sensors meet their specific needs and/or requirements, or the specific needs and/or requirements of the site/installation.

It is the responsibility of the Purchaser/Installer to ensure that any fittings/drivers proposed will be compatible with any potential existing dimming/control system currently in place. If such a system is in place, it is the Purchaser/Installers responsibility to contact the manufacturer of the system and verify compatibility as systems that require recommissioning by the control provider may incur an additional cost. This is not a service we provide.

Kosnic Lighting Ltd is not qualified to determine the structural and electrical appropriateness of their designs and is not responsible, and cannot be held liable for, any improper engineering, construction, rigging or handling methods, or for any improper use of structures or equipment that may be employed to realise the design.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

1 Luminaire data

1.1 Kosnic, LED Amenity Exterior Bollard - Arden (ARD10T)

1.1.1 Data sheet

Manufacturer: Kosnic



ARD10T Bollard Luminaire LED Amenity Exterior Bollard - Arden
 10w Arden LED Aluminium Die-cast 1020mm Bollard (4000k)

The Kosnic LED Bollards offer affordable products with high lumen efficiency and a long life. The bollards are made from die-cast aluminium with a polycarbonate diffuser and stainless-steel reflector. The weather resistant bollards are perfectly suited for commercial and domestic outdoor illumination of driveways, thoroughfares, carparks and other outdoor residential spaces. They are available in black or grey with a choice of wattage and height.

Features

- IP65
- Die-cast aluminium
- Polycarbonate diffuser
- Black or grey textured powder coating
- Class I
- High lumen output.
- Long life of 40,000h.
- Instant start.
- Mercury free.

Please see datasheet or website for further info.

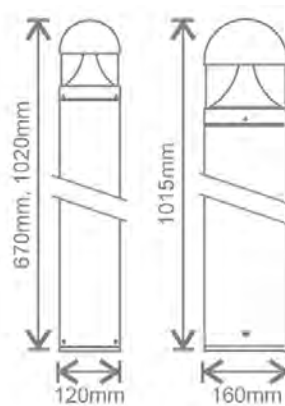
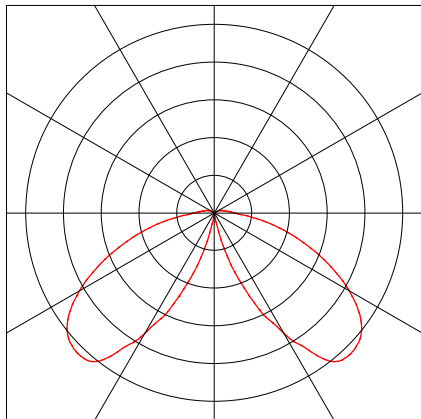
Luminaire data

Absolute Photometry
 Luminaire efficacy : 78 lm/W
 Classification : A21 ↓95.6% ↑4.4%
 CIE Flux Codes : 26 66 91 96 100
 UGR 4H 8H : 24.6 / 24.6
 Control gear : Electronic ballast
 Power : 10 W
 Luminous flux : 780 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Socket : -
 Colour reproduction : 82

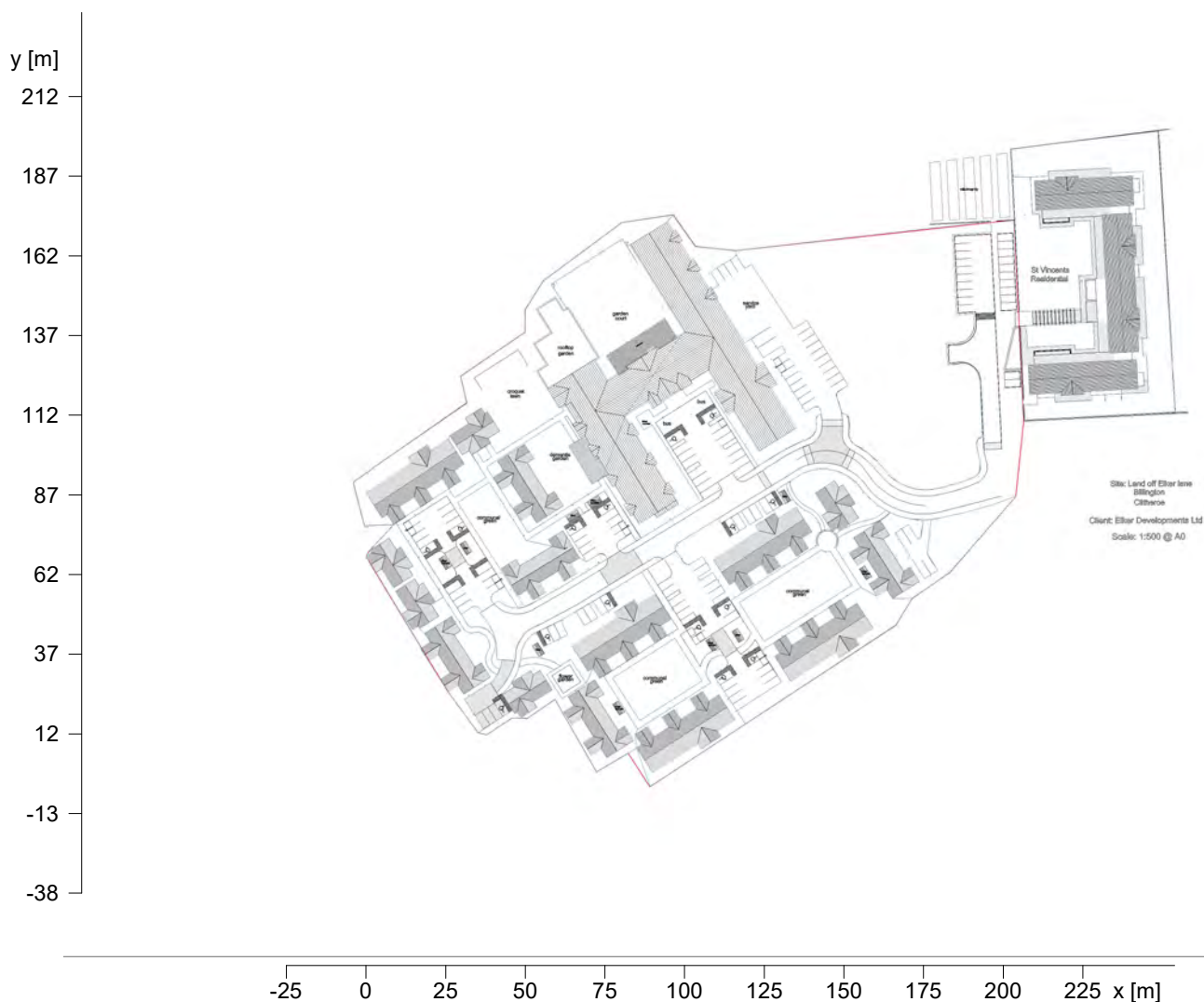
Dimensions : Ø120 mm x 100 mm



2 Ribble Valley

2.1 Description, Ribble Valley

2.1.1 Floor plan



Object : Exterior Walkways
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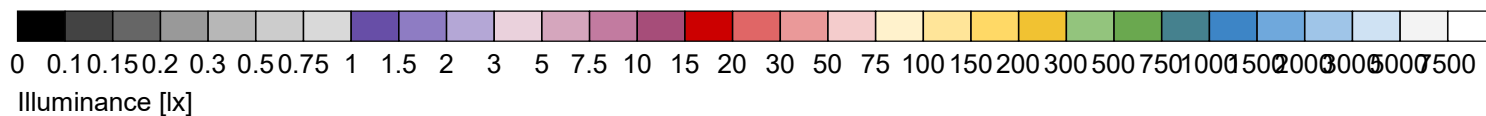
2 Ribble Valley

2.2 Summary, Ribble Valley

2.2.1 Result overview, Evaluation area 1



-25 25 50 75 100 150 200 x [m]



General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	0.92 m
Maintenance factor	0.80
Total luminous flux	186420.00 lm
Total power	2390.0 W
Total power per area (25475.41 m²)	0.09 W/m² (0.61 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal
E_{min}	15.3 lx
$E_{min}/\bar{E}_m (U_o)$	0 lx
$E_{min}/E_{max} (U_d)$	0.00
Upward light ratio (ULR)	0.00
Position	0.02
	0.00 m

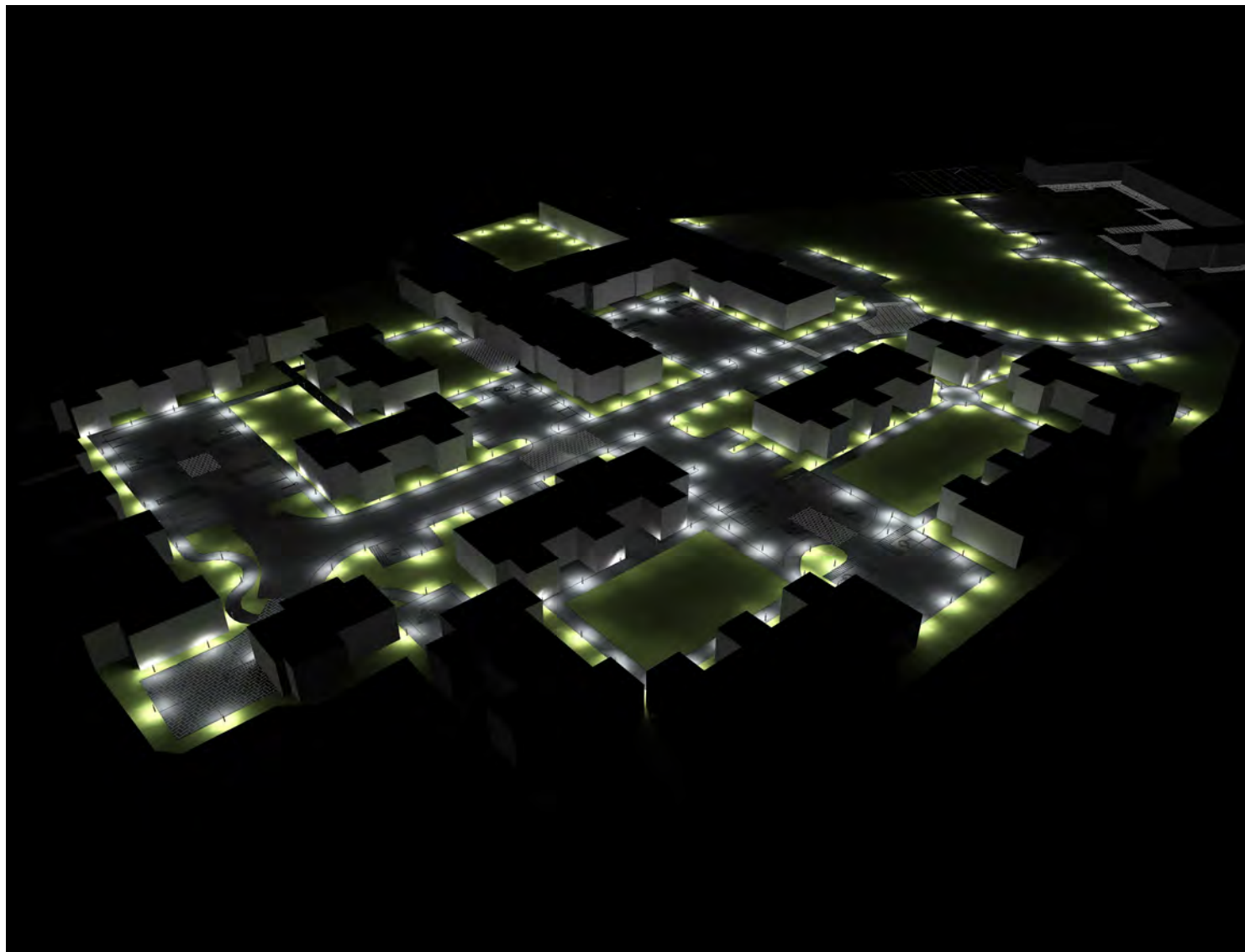
Type No.\Make

1	239 x	Kosnic
	Order No.	: ARD10T
	Luminaire name	: LED AmenitY Exterior Bollard - Arden
	Equipment	: 1 x LED 10 W / 780 lm

2 Ribble Valley

2.3 Calculation results, Ribble Valley

2.3.1 3D luminance, View 1



2.3 Calculation results, Ribble Valley

2.3.2 3D pseudo colours, View 1 (E)

