

Pen Y Dre School

Installation : PV Area Compound

Project number : 37566
Customer : Highadmit
Processed by : Martin Hill
Date : 12.03.2026

Project description:

Throughout the design process, consideration has been made for the installation, maintenance, use and decommissioning phases of the project.

By adopting a best practice approach, it is judged that any inherent risks associated with the design of lighting systems are suitably mitigated.

Through this process, no unusual or significant risks have been identified.

However, it should still be noted that:

The installation of lighting and any associated systems may involve working at height.

Therefore, it is the Contractors responsibility to prepare appropriate Risk assessment and method statements to establish safe method of works in line with Health and Safety at Work act and Working at Height Regulations. Only demonstrably competent and qualified personnel to working at height, particularly where the provisions of mobile powered access equipment's are to be used..

The installation of electrical services to lighting.

It is the Contractors responsibility to prepare appropriate Risk assessment and method statements to establish safe method of works in line with Electricity at Work act and BS7671 18th Edition Wiring Regulations. Only demonstrably competent and qualified personnel to undertake electrical installation and testing.

The installation of lighting equipment should adhere to the product specific installation details provided, ensuring that the installation instructions are understood and followed in order to ensure compliance with the requirements of BS EN 60598 with regards to electrical and mechanical safety of the luminaire.

Please refer to the Principal Designer / Principal Contractor for any project specific Health and Safety information.

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.

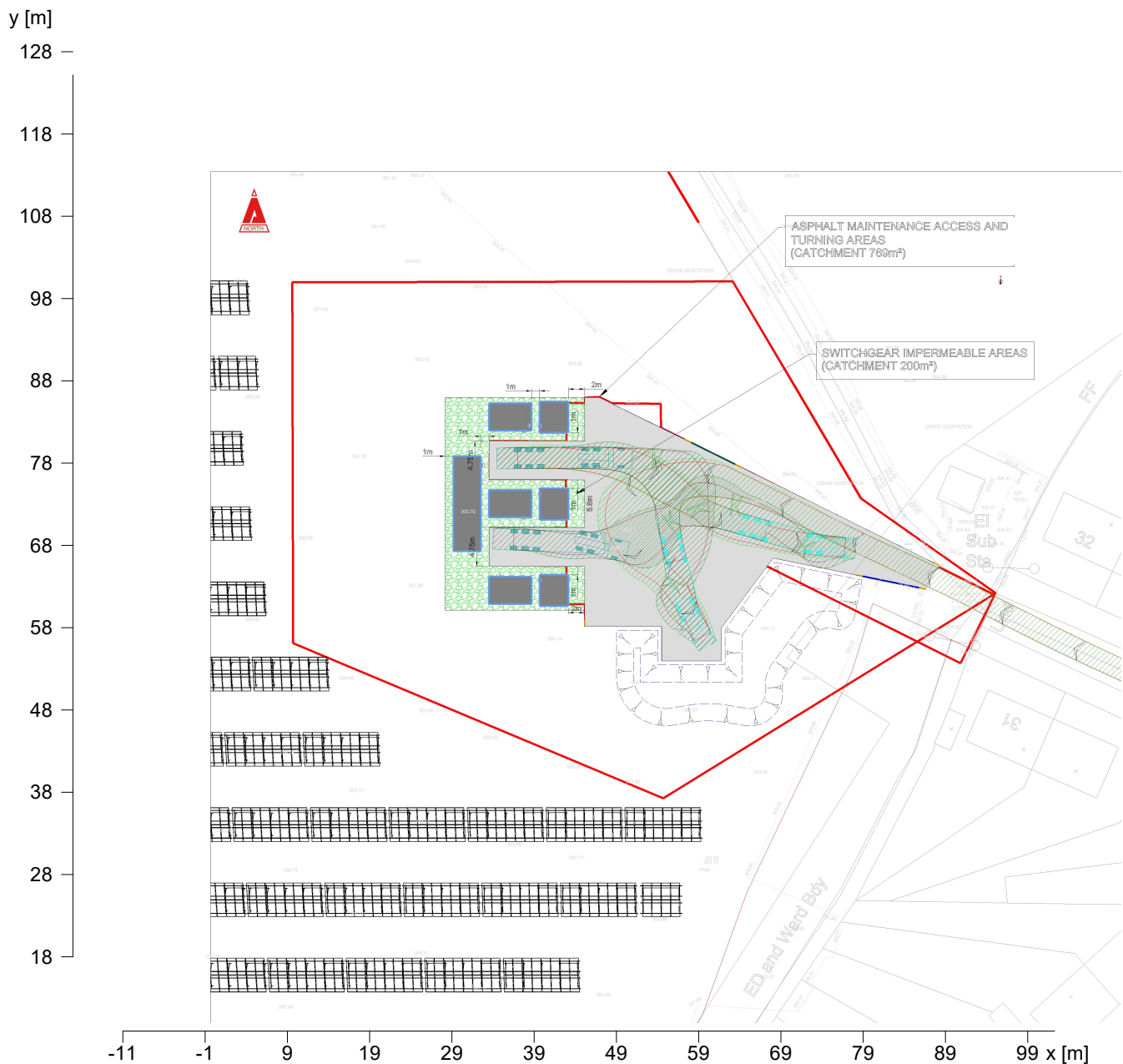
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1 Outside Perimeter of Compound Area - 2700K Kolo

1.1 Description, Outside Perimeter of Compound Area - 2700K Kolo

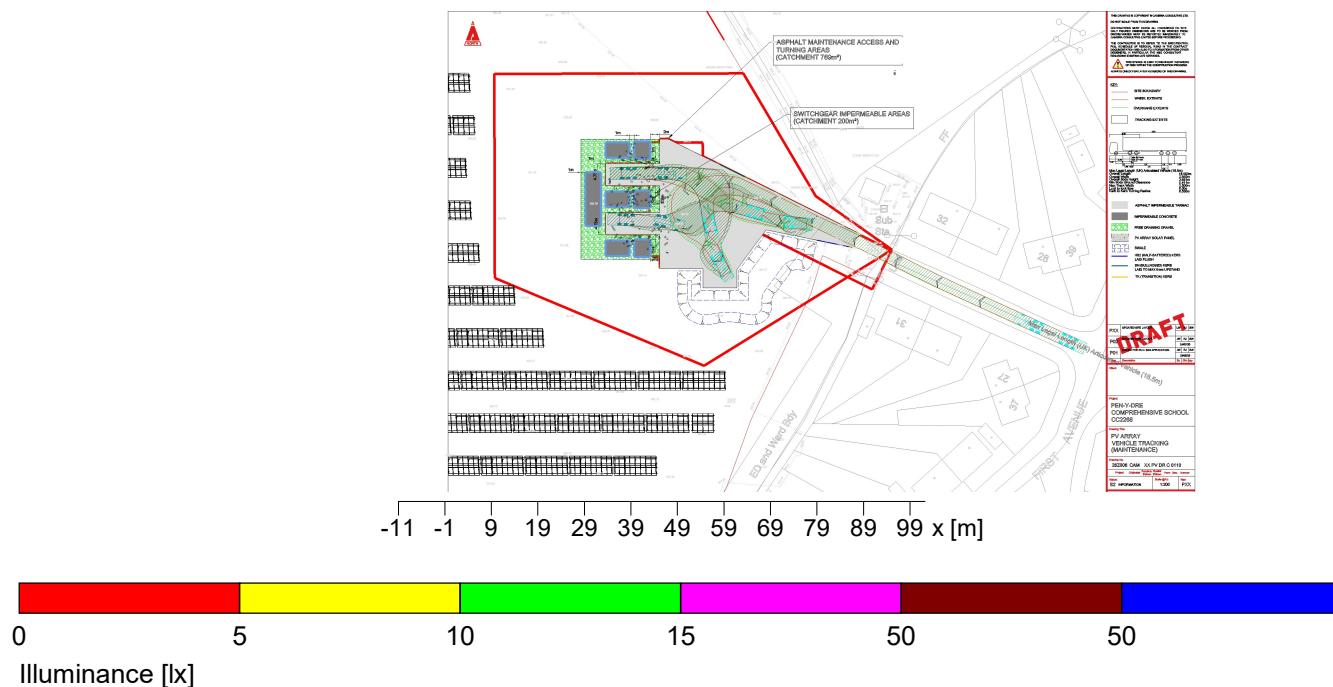
1.1.1 Floor plan



1 Outside Perimeter of Compound Area - 2700K Kolo

1.2 Summary, Outside Perimeter of Compound Area - 2700K Kolo

1.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (phot. centre) [m]:	2.00 m
Maintenance factor	0.80

Total luminous flux	11088 lm
Total power	156.2 W
Total power per area (3698.52 m²)	0.04 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	7 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	150 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No. Make

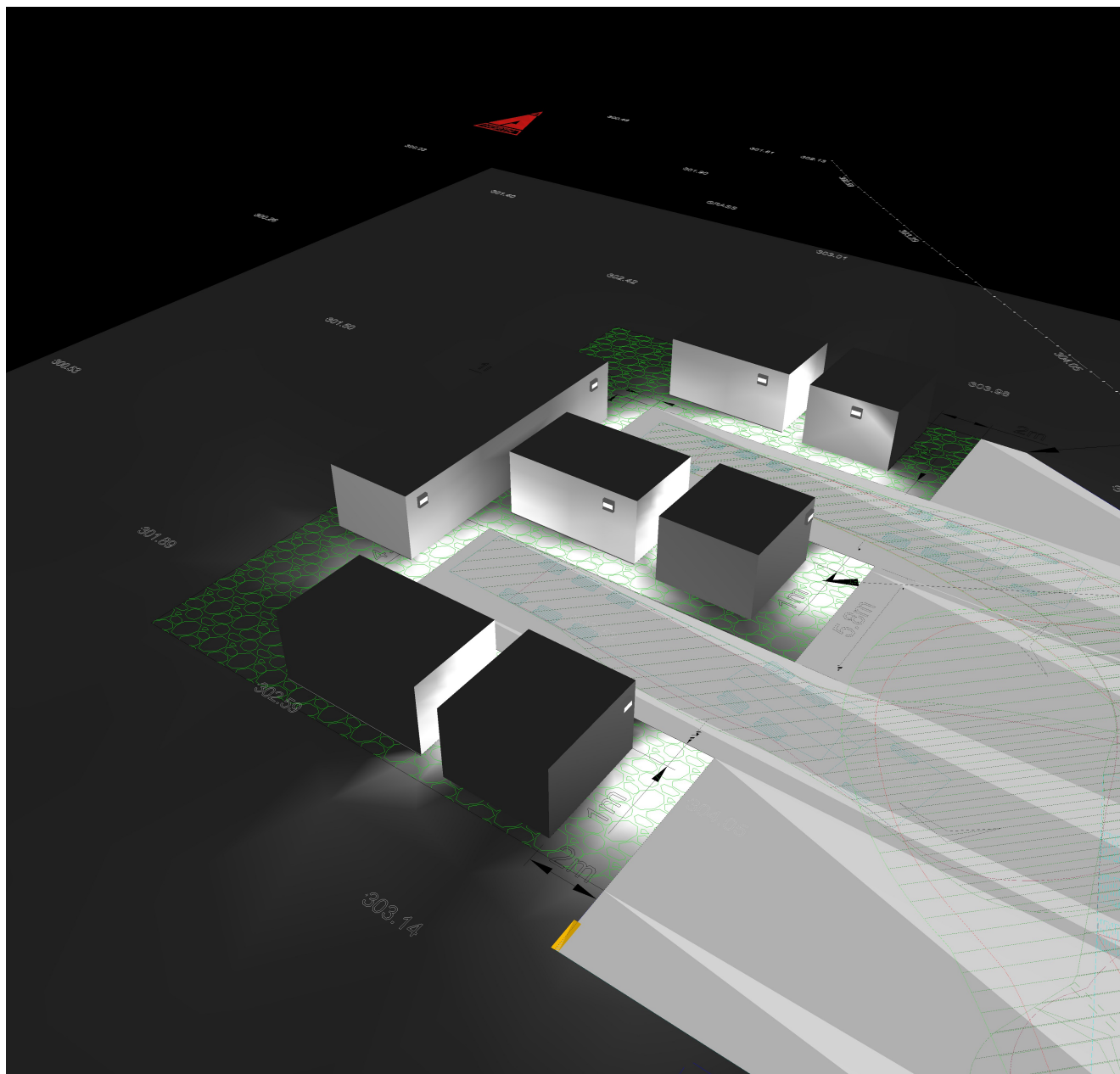
Whitecroft Lighting

3	11E x	Order No.	: !K6H42KHB-2700K	-- Emergency Lighting --
		Luminaire name	: Kolo IP65 Hood	
		Equipment	: 1 x LED 14.2 W / 1008 lm	

1 Outside Perimeter of Compound Area - 2700K Kolo

1.3 Calculation results, Outside Perimeter of Compound Area - 2700K Kolo

1.3.1 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 38.8 cd/m²