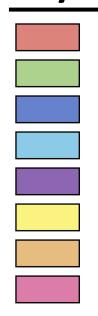


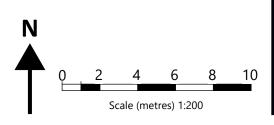
# Кеу



Footpaths Covered Cloister Building Entrance/Exits Access Road Entrance/Exit Accessible Drop-off Area Bin Store Plant Area Delivery Area



CCTV CCTV Zone of Cover



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client Uppingham School	project <b>Uppingham Scl</b>	hool,	drawing title External Lighting and CCTV			
job no. project leader scale at A1 J7359 SAB 1:200	Meadhurst					
status code and description <b>S1 - Suitable for Coordination</b>		evision classification P04 ss_70_80_25_00	project code orig. volume level type role number J7359 - MXF - ZZ - XX - DR - E - 31000			
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### 1 External Lighting Strategy

## Introduction

This external lighting strategy has been produced in associated with the proposed development at Uppingham School Meadhurst Boarding House. The project includes the partial demolition of an existing boarding house and replacement with new purpose-built boarding facilities alongside a new arrival courtyard, landscaping and associated works. New external lighting is proposed to provide discrete illumination to key areas of the site for the purpose of

New external lighting is proposed to provide discrete illumination to key areas of the site for the purposafety and security.

#### Environmental Zone

Т	he environmental zone sel	ected for this site has been selected as follows:

Criteria	Description
Zone	E2
Surrounding	Rural
Lighting Environment	Low District Brightness
Examples	Sparsely inhabited rural areas, village or relatively dark outer suburban locations

The environmental zone E2, sets the requirements for the following design parameters:

- Maximum Vertical illuminance on surrounding premises:
- Pre-curfew 5 Lux
   Post-Curfew 1 Lux
- Maximum Value of Upward Light Ratio

   2.5%
- Maximum Value of Upward Flux ratio of installation (4 or more luminaires)
   Amenity Areas = 6%

Applicable Standards and Regulations

# The following standards and regulations have been considered in selecting the target lighting performance

. BS 5489-1:2020 CoP for the design of road lighting – Part 1 Lighting of roads and public amenity areas

BS EN 13201-2:2015 Road lighting; Part 2: Performance requirements BS EN 12464-2:2014 Lighting of work places; Outdoor work places

BS EN 12464-2:2014 Light and lighting; Lighting of work places; Part 2 Outdoor work places CIE 150:2017 Guide of the Limitation of the Effects of Obtrusive Light form Outdoor Lighting Installations ILP Guidance Note 1: 2021 The Reduction of Obtrusive Light

## Proposed Lighting Design Parameters

The following table provides the selected target lighting level and uniformity parameters for each applicable type of external space proposed to be provided with external lighting:

	Area	Maintained Lighting Level (Lux)	Uniformity (Uo)	Example Light Fitting (subject to confirmation)
	Building Entrances / Exits	20	0.25	
(2)	Footpaths	5	0.25	
d (A600	Covered Cloister	10	0.25	
Ayston Road (A6003)	Accessible Drop-Off Area	10	0.25	
Ay	Delivery Area	20	0.4	
	Access Road Entrance / Exit	10	0.4	
	Bin Store	20	0.25	
	Plant Areas	50	0.25	
	Obtrusive Light Mitigation All light fittings will be select from the light fitting, where accordance with the require	ever possible an	d as a worst ca	e upward light distribution being generated directly ase, restricted to a maximum of 2.5% upward light, in les E2.
				y efficiency. All lamps will have good colour renderir promote the feeling of a safe and secure
	each separate area. Metho	ds of control wi	ll include the f	o suit the application and functional requirements fo ollowing:

•	Astronomical time switch with manual adjustment and override facility.	
•	Passive infra-red movement sensors with photocell overrides.	

Manual control switches with photocell hold-off.