



Lighting Design & Impact Assessment

The Copse, Worthing Road

Star Build Ltd

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Basis of Report

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Executive Summary

This document has been produced in support of a planning application for a development of up to 23 residential dwellings, including parking, landscaping and other associated works at land on the Copse, Worthing Road, Horsham, West Sussex.

A lighting design has been prepared by SLR, to demonstrate that the operational standards and requirements for the lighting of the roadways and pavements within the proposed development can be achieved. The design demonstrates the proposed lighting scheme is in line with obtrusive light, glare and light spill limits or constraints derived from relevant standards or guidance at any identified light sensitive human or ecological receptors.

This lighting design has been created within specialist 3D photometric modelling software then tested for compliance by experienced lighting design consultants, and amended where necessary to provide a suitable scheme.

The final lighting design has considered the requirements of all current industry regulations and recommendations relating to safety, security and amenity alongside the requirement to protect light sensitive ecology.

A best practice approach has been taken to ensure the scheme has minimal impact on the surrounding environment whilst providing safe and secure lighting where necessary.

The result of the detailed lighting design based on the advice contained within this document and input from other consultants will be to provide a suitable and compliant scheme with minimal impact on ecology or other receptors.

Conclusions have been drawn on the lighting impacts from the proposed lighting scheme, including the potential impacts on bat species or their wider network of foraging and commuting routes in the surrounding area.



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Acronyms and Abbreviations

ALAN	Artificial Lighting at Night
BCT	Bat Conservation Trust
CIBSE	Chartered Institute of Building Services Engineers
CMS	Central Management System
FFL	Finished Floor Level
IDA	International Dark-Sky Association
ILP	Institute of Lighting Professionals
LNR	Local Nature Reserve
MF	Maintenance Factor
PIR	Passive Infrared
PNL	Part Night Lighting
SAC	Special Area of Conservation
SLR	SLR Consulting Ltd
SSSI	Site of Special Scientific Interest



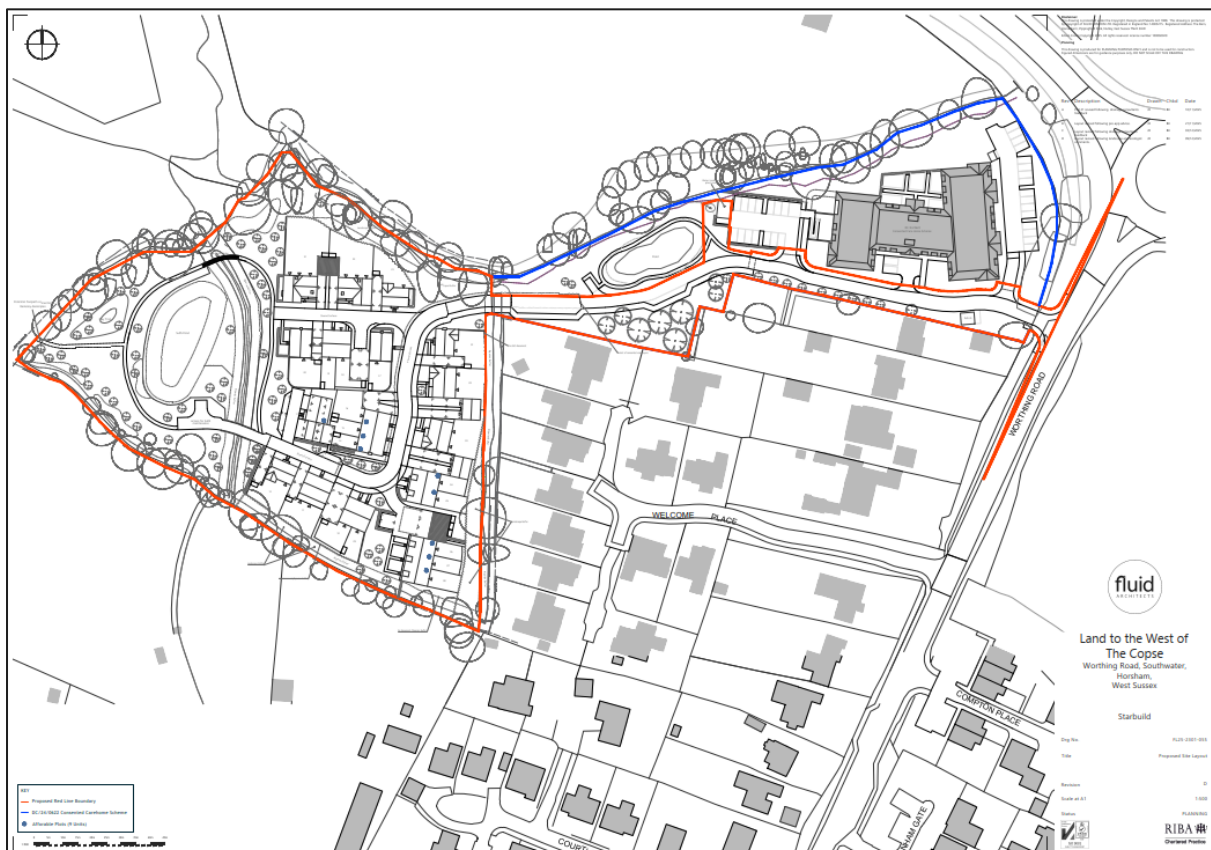
1.0 Introduction

1.1 Purpose of Report

- 1.1.1 This document was prepared in support of a planning application for a development of up to 23 residential dwellings, including parking, landscaping and other associated works (the 'Proposed Development') at land on the Copse, Worthing Road, Horsham, West Sussex (the 'Site').
- 1.1.2 SLR have undertaken the design of a suitable lighting scheme and Lighting Impact Assessment for the Proposed Development, ensuring the introduction of artificial light does not lead to adverse or obtrusive light impacts at identified surrounding ecological and human receptors. In addition, the scheme must be suitable and compliant with safety, security and amenity criteria for the welfare of pedestrians, and residents accessing and traversing the Site.

1.2 Site and Context

Figure A: Location and Redline Boundary:
FL25-2301-055G Proposed Site Layout



The Site is located at:
Land off Worthing Rd, Southwater, Horsham RH13 9GT
What3Words: ///schematic.prospers.indeed
Google+ Code: 2MR2+9M5 Horsham



1.3 Desk Based Survey

- 1.3.1 A desk-based survey of publicly available maps as satellite imagery was undertaken by SLR to assess the existing condition and potential risk to receptors around the Site. No fieldwork or baseline lighting survey was undertaken by SLR.
- 1.3.2 The Site is situated to the north of the village of Southwater, and occupies land to the west of Worthing Road, which connects Southwater to the A24.

1.4 Residential Receptors

- 1.4.1 The Site lies to the north of an existing residential area along Worthing Road. The closest residences are situated along Welcome Place, with part of the Site's southern boundary bordering the rear gardens of existing properties on this street. Additional residences lie further to the south, along New Road, Willowmead and Courtlands.
- 1.4.2 Standard lighting columns typical of residential areas are present along Worthing Road and Welcome Place, and as such these properties are subject to localised light spill onto their front-facing façades from existing street lighting.

1.5 Ecological Receptors

- 1.5.1 Existing mature treelines border the Site to the north, west and south, which are connected to parcels of lowland mixed deciduous woodland that extend further to the west and north of the Site.
- 1.5.2 Ancient woodland lies to the east of Site boundary, on the eastern side of Worthing Road.
- 1.5.3 To the east of the Site border lies the Railway Sidings Local Wildlife Site. This area is home to a large number of mature trees and existing vegetation, and as such has the potential as habitat for roosting, commuting or foraging bat species.
- 1.5.4 Further land bordering the Site, to the west and northeast, is made up of open field grassland with little existing vegetation in the form of hedgerows or treelines. Bats are unlikely to utilise these areas for roosting or foraging but they may form part of a wider network of commuting routes for bats to access foraging opportunities in the wider area.



2.0 Methodology, Policy and Guidance

- 2.1.1 The lighting strategy uses the information provided in **Section 2.1.2** below along with policy and guidance as per **Section 2.1.3**, to determine the best practise for lighting impacts to human and ecological receptors.
- 2.1.2 The following information has been considered:
- FL25-2301-055G – Proposed Site Layout
 - FL25-2301-056A – Proposed Site Layout – Coloured
 - FL25-2301-010 – Development Schedule (Rev G)
 - FL25-2301-060A – Building Heights
 - FL25-2301-061A – Building Mix
 - FL25-2301-062A – Parking Strategy
- 2.1.3 The following documents have been referred to in the preparation of this document. It is expected that, at the time of construction, the latest issue of the documents below will be referred to so as to ensure current regulations and best practice are met:

Government

- Clean Neighbourhoods and Environment Act 2005, (Section 102).
- DEFRA: Guidance on Sections 101 to 103 of the Clean Neighbourhoods and Environment Act 2005.
- Wildlife & Countryside Act 1981.
- Conservation (Natural Habitats etc.) Regulations 1994.
- Horsham District Planning Framework, 2015.

ILP - Institution of Lighting Professionals

- GN01:2021. Guidance Notes for the Reduction of Obtrusive Light.
- PLG02:2013. The Application of Conflict Areas on the Highway.
- PLG03:2012. Lighting for Subsidiary Roads.
- PLG04:2013. Guidance on Undertaking Environmental Lighting Impact Assessments.
- Bat Conservations Trust ILP Guidance Note GN08:2023 - Bats and Artificial Lighting at Night
- TR12-1:1997. Lighting of Pedestrian Crossings.
- TR25:2002. Lighting for Traffic Calming Features.

SLL - The Society of Light and Lighting (CIBSE)

- Fact File 8: Lighting for People who are Visually Impaired 2012.
- The SLL Lighting Handbook 2018.
- The SLL Code for Lighting 2022.



CIE - International Commission on Illumination

- CIE Publication 150-2017. Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations, 2nd Edition.
- CIE Publication 115-2010. Lighting of Roads for Motor & Pedestrian Traffic.
- CIE Publication 126-1997. Guidelines for minimising sky glow.

British Standards

- BS 5489-1:2020 - Design of road lighting - Lighting of roads and public amenity areas. Code of Practice.
- BS EN 12464-2:2024 - Light and lighting - Lighting of work places - Part 2: Outdoor work places.

Other

- DarkSky (formally known as The International Dark-Sky Association or IDA).
- All-party Parliamentary Group (APPG) for Dark Skies.
- Bat Conservation Trust (BCT).
- Eurobats Publication Series No.8 - Guidelines for Consideration of bats in lighting projects.
- Secured by Design Residential (Homes) Guide 2025

2.1.4 To determine the environmental zone for the site, information provided in the Institute of Lighting Professionals (ILP) Guidance Note 1 '**ILPGN01:2021 - The Reduction of Obtrusive Light**' Table 2 is replicated below in **Table A**. Environmental Zone **E2** as the appropriate zone for the site.

Zone	Surrounding	Lighting Environment	Examples
E0	Protected	Dark (SQM 20.5+)	Astronomical Observable dark skies, UNESCO starlight reserves, IDA dark sky places
E1	Natural	Dark (SQM 20 to 20.5)	Relatively uninhabited rural areas, National Parks, Areas of Outstanding Natural Beauty, IDA buffer zones etc.
E2	Rural	Low district brightness (SQM ~15 to 20)	Sparsely inhabited rural areas, village, or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Well inhabited rural and urban settlements, small town centres of suburban locations
E4	Urban	High district brightness	Town / City centres with high levels of night-time activity

2.1.5 Through analysis of the Site and the surrounding landscape, it is determined that the Site falls within Environmental Zone **E2**, as it is located within a '*sparsely inhabited rural area*'.



- 2.1.6 **Table B** below shows illuminance limitations (lux levels) and maximum luminous intensity (cd, candelas) for each Environmental Zone. These are the maximum levels of light that would be permitted at the receptor and the emission of the light source within the luminaire when viewed from the receptor position.
- 2.1.7 For Environmental Zone **E2** this would be maximum of 5 lux pre-curfew and 1 lux post-curfew. As a simple comparison, a standard candle at 1 metre would give 1 lux and twilight is judged to be approximately 1 lux. The maximum luminous intensity allowed would be 7,500 cd pre-curfew and 500 cd post-curfew.
- 2.1.8 Post-curfew hours would be considered from 23:00 hours (a reasonable expected time) until 05:00.

Table B: Illuminance Limitations & Maximum Luminous Intensity (Ap)				
Zone	Pre-Curfew (lx)	Post-Curfew (lx)	Pre-Curfew (cd)	Post-Curfew (cd)
E0	N/A	N/A	0	0
E1	2	<0.1*	2,500	0
E2	5	1	7,500	500
E3	10	2	10,000	1,000
E4	25	5	25,000	2,500
	* If the installation is for public (road) lighting then this can increase to 1 lx			

- 2.1.9 The Institute of Lighting Professionals (ILP) Guidance Note 8 '**ILPGN08:2023 - Bats and Artificial Lighting**' provides further detail with particular attention to sections '*Appropriate Luminaire Specifications 4.29*' and '*Lighting Contour Plans 4.51-4.54*'.



3.0 Proposed Lighting Scheme

3.1 Residential Roadway Lighting

- 3.1.1 There is no legal duty requiring any place to be lit or requiring that new developments should necessarily require street lighting. It is determined to be beneficial to minimise the extent of lighting and leave some areas unlit such as footpaths through sensitive areas such as woodland or ecological habitat which will not be lit by general street lighting.
- 3.1.2 Subject to risk assessments and lighting class, primary roadways, such as the main access roadway within the Site require suitable lighting. Areas should meet all criteria in terms of illumination and uniformity in line with with appropriate standards and guidance as appropriate for the determined road class.
- 3.1.3 A lighting design and impact assessment has been conducted by SLR, involving the development of a photometric model to assess the amount of illumination received across the road surface from the proposed scheme. Subsequently the model determinesSubsequently the model is used to produce photometric data to determineevidence the scheme meets the Lighting Class design criteria, determined by risk assessment, that the scheme must be designed to adhere to.
- 3.1.4 The determination of which class and illumination level a street is to be designed to is typically based upon a risk assessment for the street, which considers the following:
- amount and speed of vehicle traffic;
 - segregation / interaction with pedestrians;
 - complexity of visual field and navigation;
 - hazards, such as parked cars or traffic calming;
 - relationship with surrounding illuminated areas; and
 - crime risk and perception of safety.
- 3.1.5 **'BS EN 13201-2, Road Lighting – Performance Requirements'** gives details of the necessary minimum and average levels of lighting to be achieved at each of the lighting classes. The lighting classifications have been identified in accordance with **'BS13201-3:2015'** and **'BS5489-1:2020'**.
- 3.1.6 A risk assessment undertaken by SLR, provided below in **Table C**, determined that **P5** was an appropriate class for the primary access road, considering the proposed roadway design.



Table C: Proposed Development Primary Roadway Risk Assessment
Parameters for P Lighting Class Ref: CIE 115:2010 Table 6

Parameter	Option	Weighting
Speed	Low	1
Traffic Volume	Low	-0.5
Traffic Composition	Pedestrians and Motorised Traffic	1
Parked Vehicles	Present	0.5
Ambient Illuminance	Low	-1
(*Round up if not a whole number) Total:		1
[6 - Total = Lighting Class]		P5

- 3.1.7 The illuminance requirements for Lighting Class **P5** are shown in **Table D** below, and the primary roadways for the development should be calculated to this Lighting Class.

Table D: Lighting Class Parameters
Parameters for P Lighting Class Ref: CIE 115:2010 Table 7

Lighting Class: Selected Parameter	Average Horizontal Illuminance (Lux Ave)	Minimum Horizontal Illuminance (Lux Min)
Lighting Class P5	3	0.6

- 3.1.8 The risk assessment conducted by SLR of the secondary access roads and western portion of the primary access road designated these as **P6**, as shown below in **Table E**. This is due to the lower volume of traffic and expected traffic speed in this area.

Table E: Proposed Development Secondary Roadway Risk Assessment
Parameters for P Lighting Class Ref: CIE 115:2010 Table 6

Parameter	Option	Weighting
Speed	Very Low	0
Traffic Volume	Very Low	-1
Traffic Composition	Pedestrians and Motorised Traffic	1
Parked Vehicles	Present	0.5
Ambient Illuminance	Low	-1
(*Round up if not a whole number) Total:		-0.5 (0)*
[6 - Total = Lighting Class]		P6

- 3.1.9 As such, the secondary roads within the Proposed Development should be calculated to the illuminance requirements of **P6**, as shown below in **Table F**.

Table F: Lighting Class Parameters
Parameters for P Lighting Class Ref: CIE 115:2010 Table 7

Lighting Class: Selected Parameter	Average Horizontal Illuminance (Lux Ave)	Minimum Horizontal Illuminance (Lux Min)
Lighting Class P6	2	0.4



3.2 Design Specification

- 3.2.1 Following the risk assessment, all areas identified as 'Primary Roadway', and 'Secondary Roadway' within the scheme should be calculated to Lighting Classes **P5** and **P6** (respectively) with columns at a maximum of 6 metres in height and conform to local highways agency specifications.
- 3.2.2 All lighting within the Proposed Development Site will have a maximum colour temperature of 2700 kelvin to meet requirements of reducing impact on light sensitive ecology. LED luminaires should meet local highways agency standard specification or equivalent and must be designed to 'dark skies' standards with zero direct upward light emission, full shielding, warm colour temperature, appropriate lumen output (minimum required) and good optical design to constrain the light to the area intended for illumination only.
- 3.2.3 Lighting equipment should be offset a minimum of 0.8m from the roadside to avoid obstruction ('**BS5489-1:2020 Section 6.13**') and should be placed so that they do not impinge on available widths of footways in the interests of wheelchair users and people pushing prams, or pose a hazard for blind or partially-sighted people.
- 3.2.4 Mitigation such as back-light shields and good optical control can minimise impact where roadway lighting must be installed adjacent to light sensitive habitats such as tree lines, and should be used where necessary to further reduce impacts on ecology.
- 3.2.5 Along the primary access road, a 'pinch point' has been identified, where the access road from Worthing Road meets the built-up area of the residential development as the road turns into a corner. In addition to being a sensitive area for road safety, the 'pinch point' is in immediate proximity to the existing mature treeline along the northern boundary of the Site.
- 3.2.6 To satisfactorily address both sensitivities, it is proposed that this area is lit via two luminaires of the same technical specification to the rest of the Proposed Development but fitted with monochromatic red LEDs. Red light has been outlined by the Bat Conservation Trust and supporting research to significantly reduce the impact of lighting on bat foraging and commuting, as it is not registered in the same way as white light (**BCT/ILP Guidance Note GN08:2023 - Bats and Artificial Lighting at Night**).
- 3.2.7 The lighting design proposes that these two monochromatic red luminaires and the luminaires along the access road from Worthing Road to the built-up portion of the residential development remain active through the night, to provide safety and security to residents entering and exiting Site via foot or vehicle, as well as to visitors and staff of the proposed care home along this road.
- 3.2.8 The lights further west along the access road and along the secondary roads are proposed to be operated on a part night switch off between 23:00 and 05:00 (a suitable post-curfew timeframe) to minimise lighting impacts from the Proposed Development and to mitigate potential obtrusive light on the proposed properties within the Site.
- 3.2.9 It has been demonstrated through photometric modelling that with all proposed lights active within the Proposed Development, it complies with obtrusive light limits at all existing human receptors and at the surrounding areas identified by the ecologist as sensitive for bats or other ecology.



3.2.10 The equipment chosen for the scheme and used in the photometric modelling for lighting calculations is show in **Table G** below:

Table G: Equipment Specification		
Product Specification	Reference Image	Photometric Distribution
L1 Schreder Axia 3.1 8 Oslon Square Giant Optic: Ultra-Wide 8.1 W / 718lm 2700K Colour Temp Mounting Height: 5m (Above FFL) ULR: 0% Pre-curfew: 100% Output Post-curfew: 100% Output		
L2 Schreder Axia 3.1 8 Oslon Square Giant Optic: Ultra-Wide 8.1 W / 718lm Monochromatic Red Mounting Height: 5m (Above FFL) ULR: 0% Pre-curfew: 100% Output Post-curfew: 100% Output		
L3 Schreder Axia 3.1 8 Oslon Square Giant Optic: Ultra-Wide 8.1 W / 718lm 2700K Colour Temp Mounting Height: 5m (Above FFL) ULR: 0% Part Night Switch Off: 23:00-05:00		

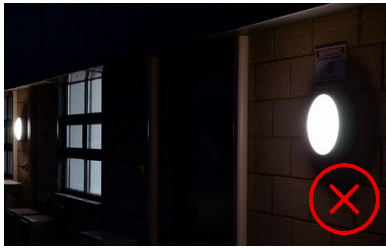


3.3 Residential Amenity Lighting

- 3.3.1 Developer installed exterior lighting equipment should be provided for all primary entrances, garages and rear gardens to dissuade the installation of ad-hoc lighting post habitation. No light from exterior amenity lighting should project beyond the property boundary.
- 3.3.2 Exterior lighting specified must have no directly visible light source or a diffused surface but should have downward only optics and very low output. Units should have inbuilt presence detection (with no manual override), this should be set to minimum practical duration 'on' and minimum sensitivity to reduce false triggering from a distance.
- 3.3.3 Luminaires to the front of properties, rear gardens and garages should be of suitable domestic amenity use with a maximum of 2700 kelvin colour temperature, contain no upward light distribution, and the downward distribution should not leave the immediate area intended for illumination (i.e. the immediate area at the front door, the immediate area at the garage door or rear garden access door).
- 3.3.4 Due to the requirement to preserve darkness where possible around the periphery of the Site, minimal lighting is required to meet Secured by Design principles and allow for visibility or facial recognition at the primary entrance of residential properties. Porch or entrance lighting is ideally provided by a recessed baffled, low output, warm white (maximum 2700k) light source with well constrained downward only optics in an oversailing porch canopy or suitable wall light body. This helps to provide good vertical illuminance at the entrance portal as well as constrain the light to the immediate area with no direct contribution to lateral light spill or upward light emission.
- 3.3.5 Under no circumstances should any developer installed lighting fixture emit any direct light above horizontal. This means the proposed lighting scheme must not include any use of typical wall mounted flood lights, up/down wall lights, exposed bulbs, lanterns, bulkhead lights or any exterior up-lighting.
- 3.3.6 It should be noted when selecting suitable residential amenity lighting that artificial light emitted from premises which affects someone's enjoyment of their own premises can be considered as a legal nuisance.



3.3.7 Examples of good and poor domestic amenity lighting are shown in **Table H**, below:

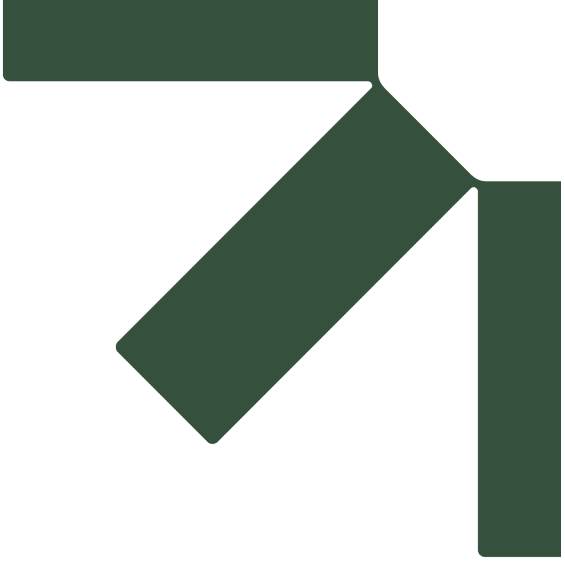
Table H: Examples of Good & Bad Domestic Amenity Lighting		
Exterior Entrance Lighting	Exterior Garage Lighting	Exterior Garden Lighting
		
Do Not Specify: - Directly visible light source / lit surface - Excessively bright - Source of glare - Projects light laterally - No optical control - Upward light emission - No presence detection 		
		
Do specify: - No visible light source - Minimal light output - No glare - Light constrained to area - Good optical control - No upward light emission - Presence detection 		



4.0 Summary & Conclusion

- 4.1 The application of lighting parameters, best practice lighting design techniques and suitable technical specifications result in a development that has a minimal, sensitively designed general street lighting scheme and carefully considered domestic amenity lighting.
- 4.2 The result of the efforts to avoid excessively lighting the Proposed Development, in line with local and national policy, minimises any potential impact on the identified receptors.
- 4.3 The Site has been observed to be ecologically sensitive along the south, western and northern peripheries due to the presence of existing mature woodland, and therefore an appropriate scheme has been employed to mitigate adverse effects at the Site boundary.
- 4.4 Adjacent residential receptors, including those immediately to the south along Welcome Place are unlikely to experience any adverse effects or obtrusive light as a result of lighting within the Site. The development would be similar in character to the surrounding existing streets with some street lighting at night.
 - 4.4.1 With minimal installed street lighting and sensitively designed domestic amenity lighting, the Proposed Development would not make any materially significant contribution to sky glow or pose a materially significant risk to ecology, adjacent residential receptors, the landscape or the quality of the night sky through light pollution.





Appendix A Lighting Layout Plan and Lux Contour Plan

Lighting Design & Impact Assessment

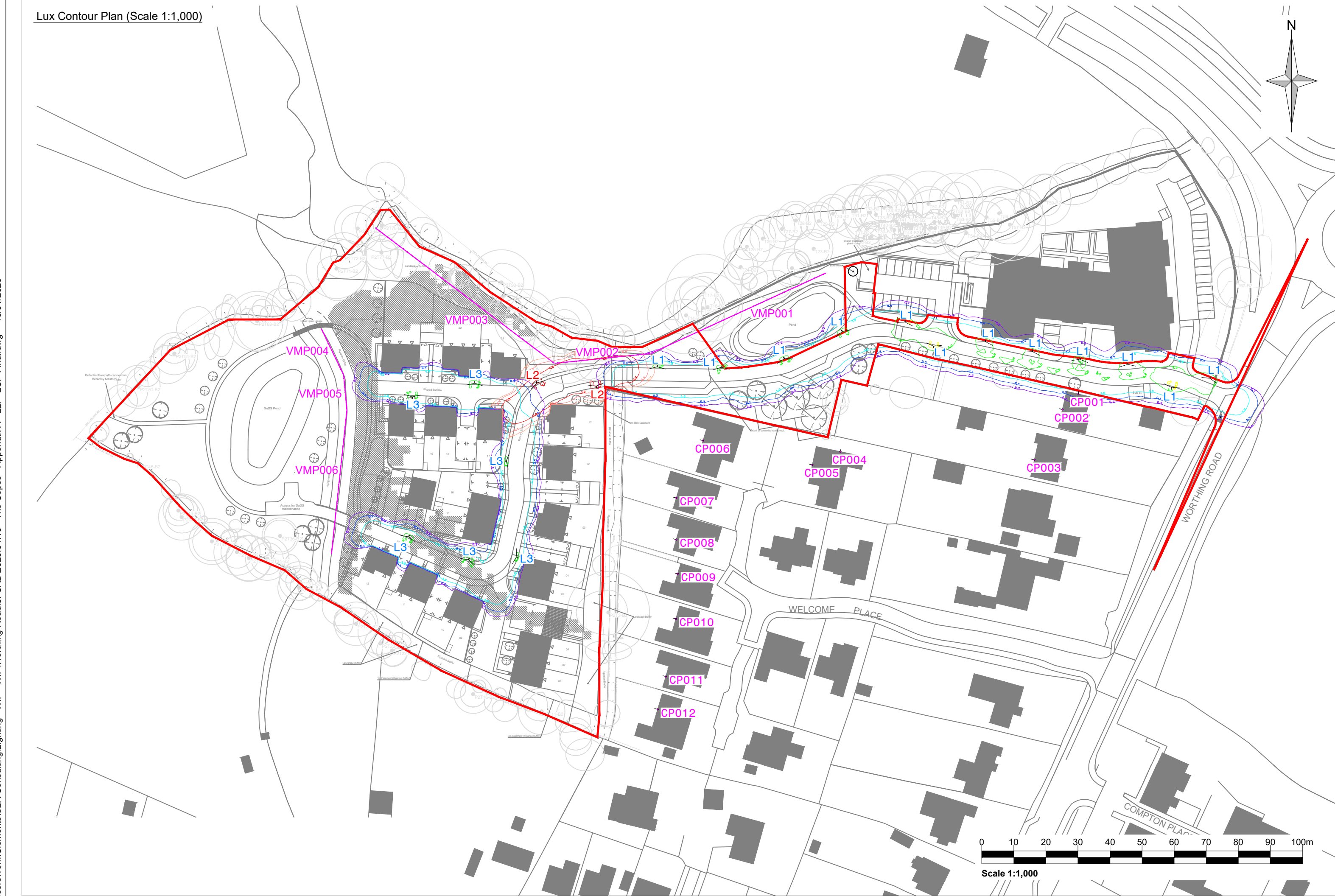
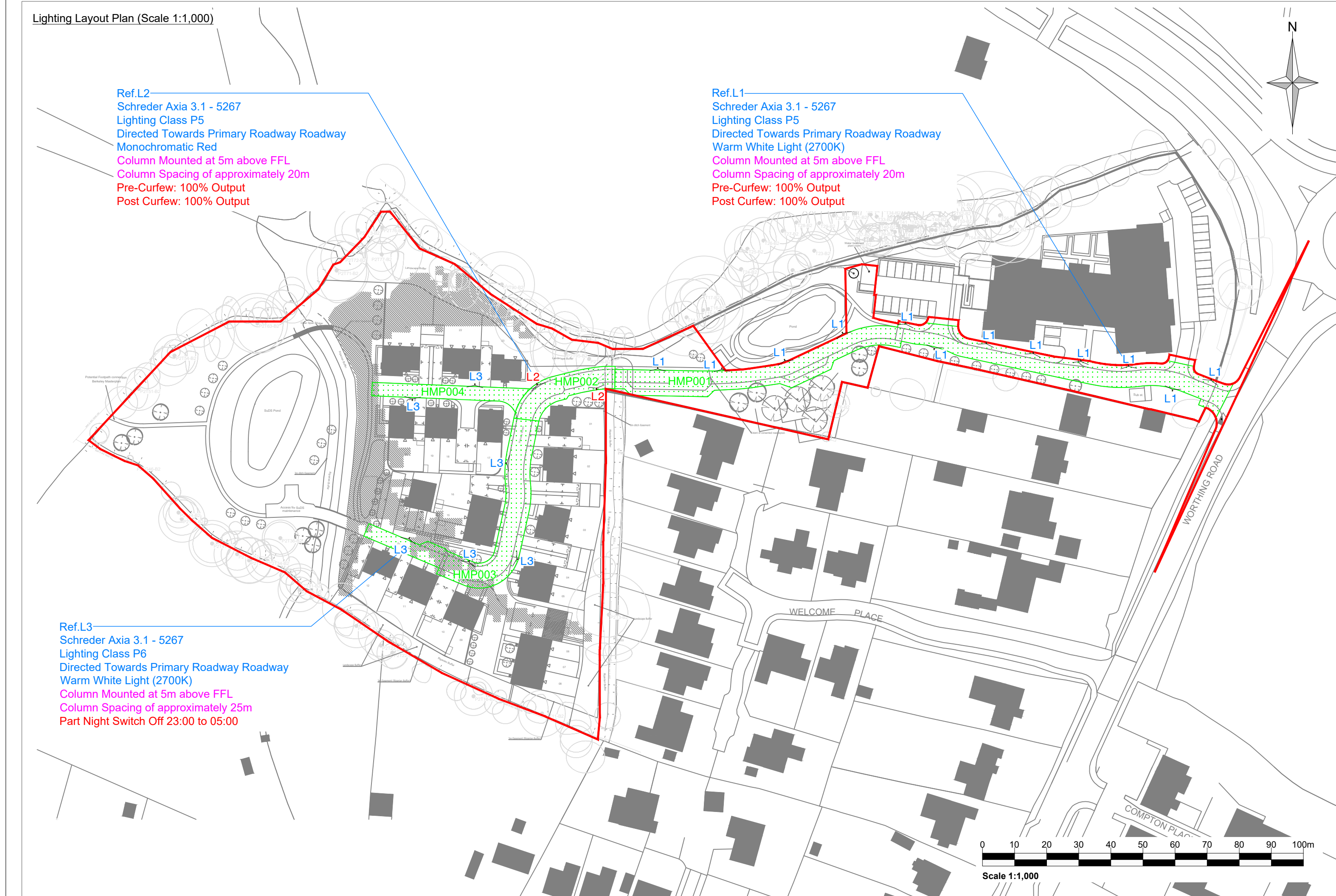
The Copse, Worthing Road

Star Build Ltd

SLR Project No.: 416.066462.00001

16 January 2026

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HORIZONTAL ILLUMINANCE Normal Operation MF = 0.93 (E2 / > 6 m / 5 years)	BS EN 13201-2:2015	AVERAGE ILLUMINANCE (LUX)		MINIMUM (LUX)		TARGET
AREA / USAGE	APPLICATION	REQUIREMENT	RESULT	REQUIREMENT	RESULT	PASS/ FAIL
HMP001 - Primary Road	P5	3 - 4.5	3.90	0.60	0.78	PASS
HMP002 - Dark Hop-Over	P5	3 - 4.5	3.50	0.60	1.41	PASS
HMP003 - Residential Road	P6	2 - 3	2.65	0.40	0.89	PASS
HMP004 - Residential Road	P6	2 - 3	2.95	0.40	1.15	PASS

ILP GUIDANCE NOTES ON BATS AND ARTIFICIAL LIGHT AT NIGHT (ILP GN08:2023)			
CURFEW: 23:00 - 05:00	ILLUMINACE IN THE VERTICAL PLANE [LUX] (Ev) VMP		TARGET
MAINTENANCE FACTOR (MF) = 1.0 (0 hrs / 0 yrs)	PRE-CURFEW [VMP]	POST-CURFEW [VMP]	PASS / FAIL
ILP GUIDANCE NOTE 08/23	<0.4	<0.4	
ECOLOGICAL RECEPTOR ASSESSMENT			
VMP001 - Northwestern Boundary (60m Width x 8m Height)	0.290	0.290	PASS
VMP002 - Northern Boundary (30m Width x 8m Height)	0.250	0.250	PASS
VMP003 - Northeastern Boundary (70m Width x 8m Height)	0.030	0.000	PASS
VMP004 - Western Boundary (16m Width x 8m Height)	0.120	0.001	PASS
VMP005 - Western Boundary (11m Width x 8m Height)	0.200	0.001	PASS
VMP006 - Western Boundary (45m Width x 8m Height)	0.160	0.001	PASS

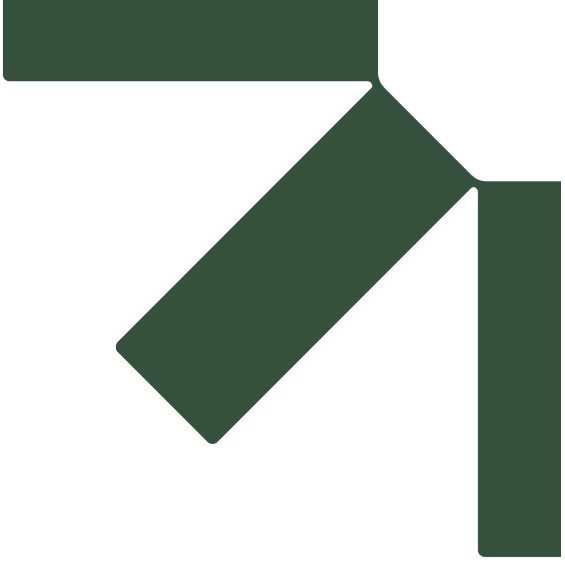
ILP GUIDANCE NOTES ON THE REDUCTION OF OBTRUSIVE LIGHT (ILP GN01:2021)						
CURFEW: 23:00 - 05:00 (All lights on 100% output, no part night dimming or switch off as a 'worst case scenario')	UPWARDS LIGHT RATIO ULR [MAX %]	ILLUMINACE IN THE VERTICAL PLANE [LUX] (Ev) VMP		MAXIMUM LUMINOUS INTENSITY EMITTED BY LUMINAIRES [CD] CP (/in cd)		TARGET
		PRE-CURFEW [VMP]	POST-CURFEW [VMP]	PRE-CURFEW [CP]	POST-CURFEW [CP]	PASS / FAIL
ENVIRONMENTAL ZONE E2	5.00	5.00	1.00	7500	500	
ULR	0.00					PASS
RESIDENTIAL RECEPTOR ASSESSMENT						
CP001 - Pine Lodge (4.5m Height)		0.120	0.120	3.85	3.85	PASS
CP002 - Pine Lodge (4.5m Height)		0.027	0.027	2.84	2.84	PASS
CP003 - Woodlands (4.5m Height)		0.005	0.005	1.13	1.13	PASS
CP004 - 11 Welcome Place (4.5m Height)		0.000	0.000	1.21	1.21	PASS
CP005 - 11 Welcome Place (4.5m Height)		0.006	0.006	1.25	1.25	PASS
CP006 - 10 Welcome Place (4.5m Height)		0.011	0.011	1.24	1.24	PASS
CP007 - 9 Welcome Place (4.5m Height)		0.003	0.003	1.25	1.25	PASS
CP008 - 8 Welcome Place (4.5m Height)		0.001	0.001	0.78	0.78	PASS
CP009 - 7 Welcome Place (4.5m Height)		0.001	0.001	0.80	0.80	PASS
CP010 - 6 Welcome Place (4.5m Height)		0.000	0.000	0.61	0.61	PASS
CP011 - 5 Welcome Place (4.5m Height)		0.000	0.000	0.47	0.47	PASS
CP012 - 4 Welcome Place (4.5m Height)		0.001	0.001	0.44	0.44	PASS

LUMINAIRE REF	QTY	LOAD (W)	TOTAL (W)
L1 Column Mounted @ 5m Column Spacing: 20m Schreder Axia 3.1 8 Oslon Square Giant @300mA WW 727 5267 - Ultra Wide Side Throw Optic Delivered Lumens: 718lm Warm White Light (2700k) Photocell Pre-Curfew: 100% Output Post-Curfew: 100% Output	12	8.1w	97.2w @ 100%
L2 Column Mounted @ 5m Column Spacing: 20m Schreder Axia 3.1 8 Oslon Square Giant @300mA 5267 - Ultra Wide Side Throw Optic Delivered Lumens: 718lm Monochromatic Red Photocell Pre-Curfew: 100% Output Post-Curfew: 100% Output	2	8.1w	16.2w @ 100%
L3 Column Mounted @ 5m Column Spacing: 25m Schreder Axia 3.1 8 Oslon Square Giant @300mA WW 727 5267 - Ultra Wide Side Throw Optic Delivered Lumens: 718lm Warm White Light (2700k) Photocell + Part Night Switch Off Pre-Curfew: 100% Output Post-Curfew: 0% Output	6	8.1w	48.6w @ 100%

Legend	
	Semi-cylindrical vertical illuminance measurement point
	0.2 Lux
	0.4 Lux
	1 Lux
	5 Lux
	7.5 Lux
	0.2 Lux (Monochromatic Red)
	0.4 Lux (Monochromatic Red)
	1 Lux (Monochromatic Red)
	5 Lux (Monochromatic Red)

01	First Issue	16.01.26	TS	ND	ND
Rev	Amendments	Date	By	Chk	Auth

www.slrconsulting.com	
Drawing Purpose	Suitability Code
FOR PLANNING	S4
Client Star Build Ltd	
Project The Copse, Worthing Road	
Drawing Title Lighting Layout Plan and Lux Contour Plan	
Scale 1:1000	SLR Project No. 416.066462.00001
Designed TS	Drawn TS
Checked ND	Authorised ND
Date 16.01.26	Date 16.01.26
Date 16.01.26	Date 16.01.26
Drawing Number 416.066462.00001 - LLP+LCP	Rev 01



Appendix B Operational Requirements

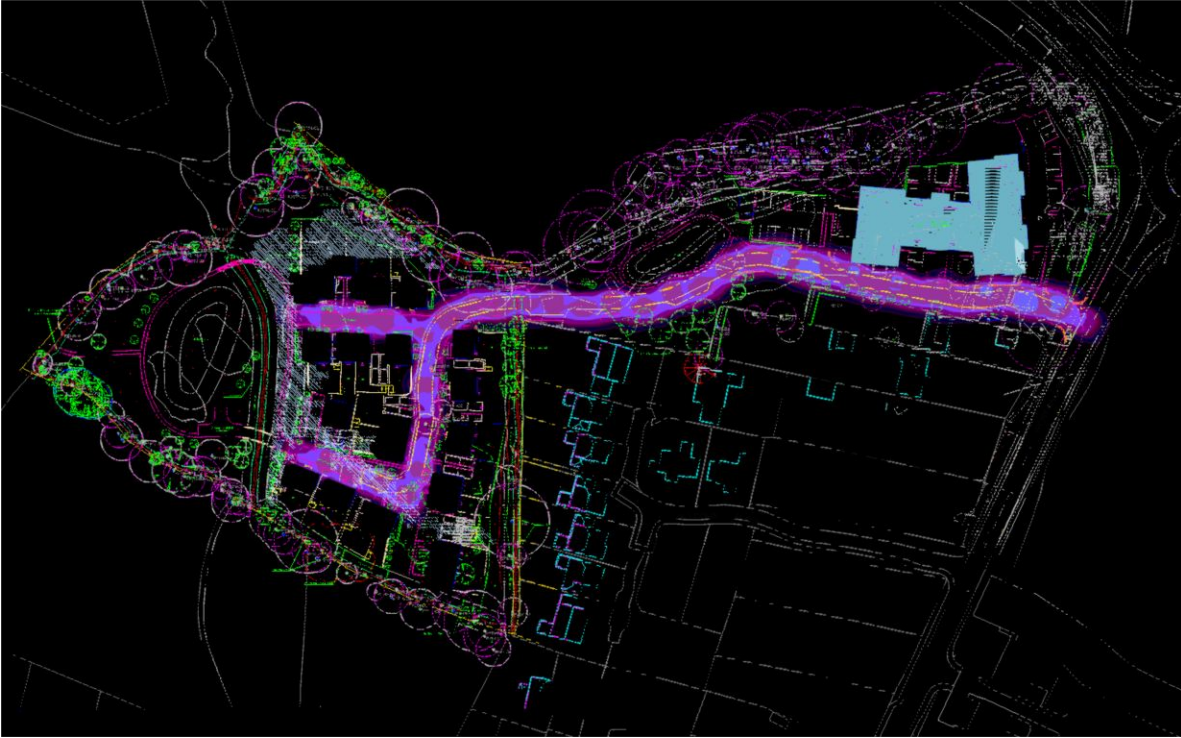
Lighting Design & Impact Assessment

The Copse, Worthing Road

Star Build Ltd

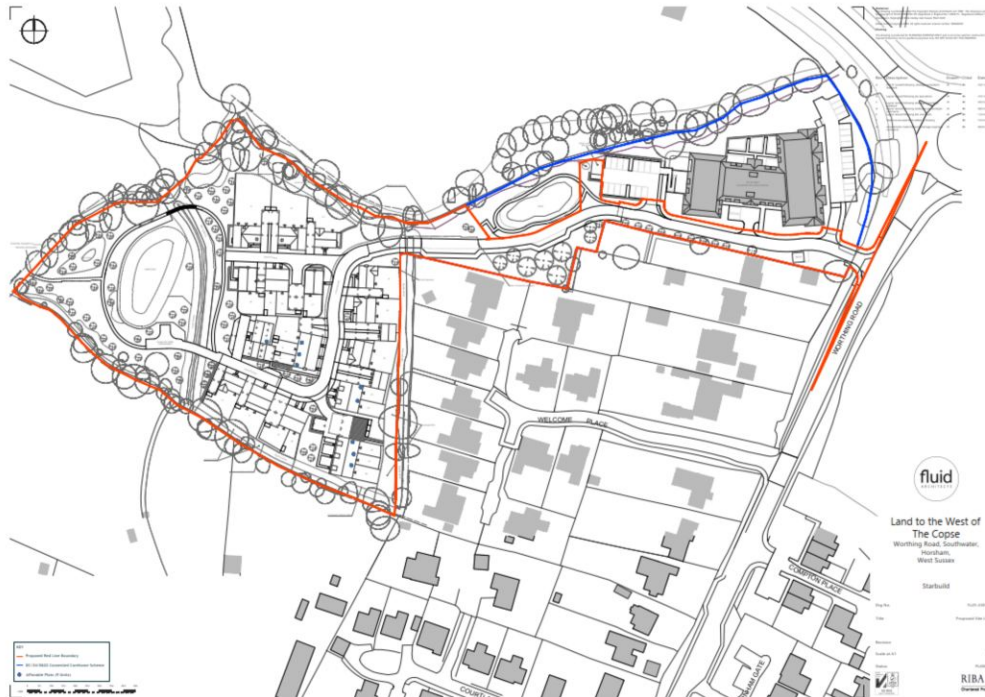
SLR Project No.: 416.066462.00001

16 January 2026



The Copse, Worthing Road

Appendix B - Operational Requirements
Maintainance Factor of 0.93



Description

Project Number: 416.066462.00001
Based on: FL25-2301-055G (by Fluid Architects)

Images

Light Rendering Glow Plan

Glow Plan visual representation of the 3D photometric model rendered with all parts of the lighting system active.

The CAD layout is visible for reference.

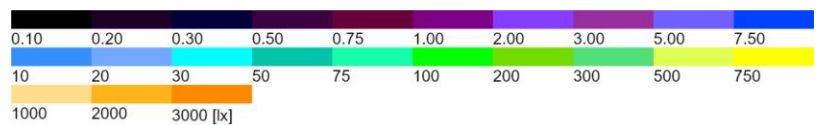


Overview False Colour Glow Plan

Glow plan representation of the 3D photometric model rendered with all parts of the lighting system active.

The colours represent lux levels according to the key below.

The CAD layout is visible for reference.



Images

Post-Curfew Light Rendering Glow Plan

Glow Plan visual representation of the 3D photometric model rendered with only Post-Curfew parts of the lighting system active.

The CAD layout is visible for reference.

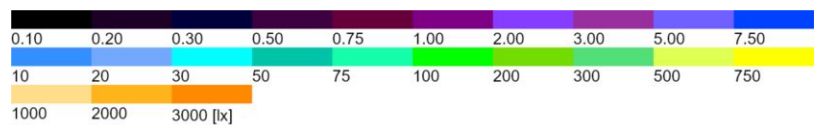


Post-Curfew False Colour Glow Plan

Glow plan representation of the 3D photometric model rendered with only the Post-Curfew parts of the lighting system active.

The colours represent lux levels according to the key below.

The CAD layout is visible for reference.

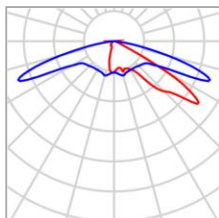


The Copse, Worthing Road
Luminaire layout plan



The Copse, Worthing Road

Luminaire layout plan



Manufacturer	Schröder	P	8.1 W
Article No.	AXIA 3.1 5267 8 OSLON SQUARE GIANT@300mA WW 727 230V 01-11-802 Rear louvers	$\Phi_{\text{Luminaire}}$	718 lm
Article name	AXIA 3.1		
Fitting	1x 8 OSLON SQUARE GIANT@300mA WW 727 230V 01-11-802 [CJO!O3STDA], valid from 18/06/2021		

Individual luminaires

X	Y	Mounting height	Luminaire
257.954 m	234.965 m	5.000 m	1
238.234 m	232.015 m	5.000 m	2
283.008 m	228.859 m	5.000 m	3
266.774 m	227.001 m	5.000 m	4
297.683 m	225.760 m	5.000 m	5
220.200 m	223.535 m	5.000 m	6
312.473 m	223.344 m	5.000 m	7
327.342 m	221.782 m	5.000 m	8
180.653 m	221.017 m	5.000 m	9
200.614 m	220.860 m	5.000 m	10

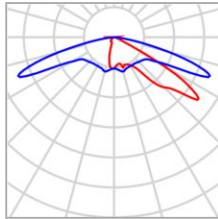
The Copse, Worthing Road

Luminaire layout plan

X	Y	Mounting height	Luminaire
353.102 m	217.415 m	5.000 m	11
123.681 m	215.909 m	5.000 m	13
341.039 m	214.097 m	5.000 m	15
104.246 m	211.210 m	5.000 m	16
133.437 m	191.420 m	5.000 m	17
103.230 m	168.003 m	5.000 m	18
136.942 m	161.468 m	5.000 m	19
121.906 m	160.830 m	5.000 m	20

The Copse, Worthing Road

Luminaire layout plan



Manufacturer	Schröder	P	8.1 W
Article No.	AXIA 3.1 5267 8 OSLON SQUARE GIANT@300mA WW 727 230V 01-11-802 Rear louvers	$\Phi_{\text{Luminaire}}$	718 lm
Article name	AXIA 3.1		
Fitting	1x 8 OSLON SQUARE GIANT@300mA WW 727 230V 01-11-802 [CJO!O3STDA], valid from 18/06/2021		

Individual luminaires

X	Y	Mounting height	Luminaire
143.055 m	215.989 m	5.000 m	12
161.605 m	214.549 m	5.000 m	14

The Copse, Worthing Road

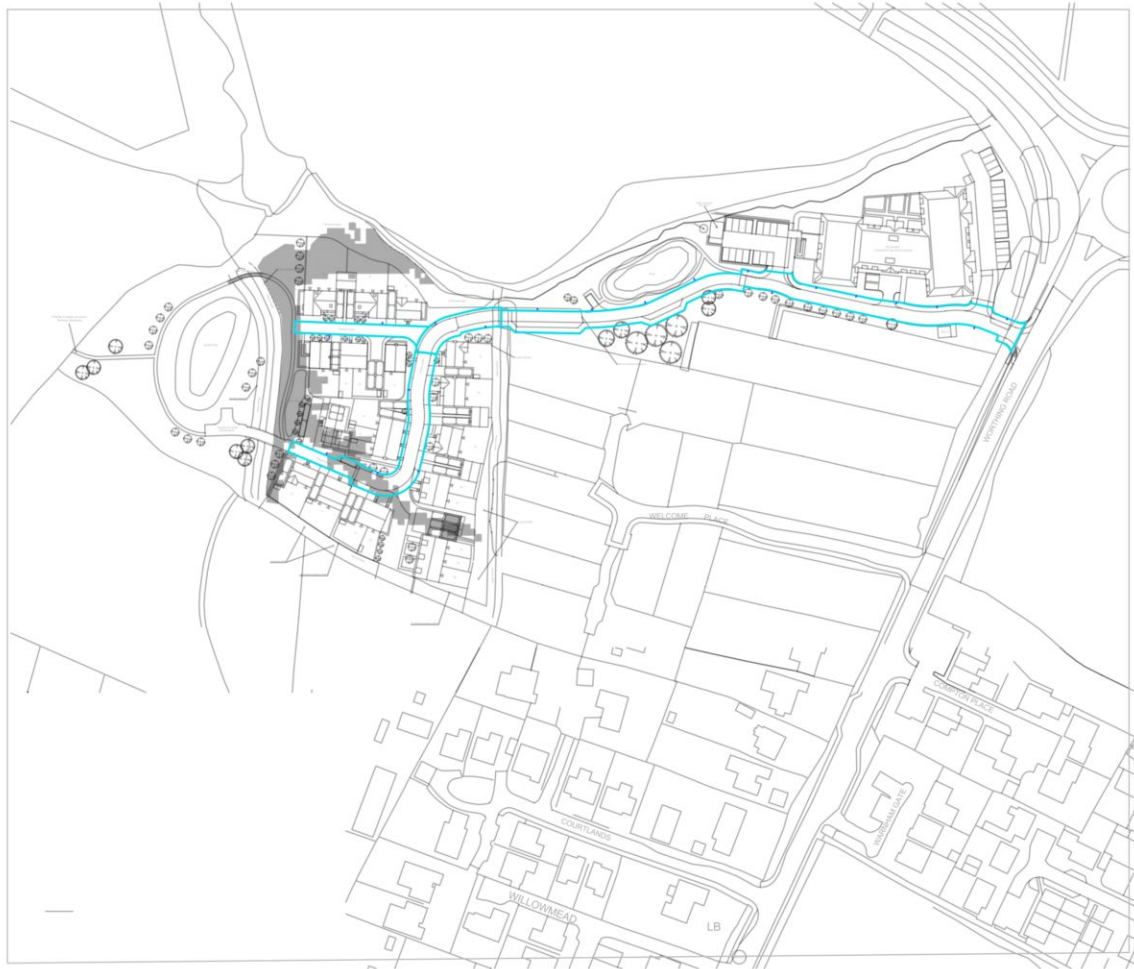
Luminaire list

Φ_{total} 14360 lm	P_{total} 162.0 W	Luminous efficacy 88.6 lm/W
-----------------------------------	-------------------------------	--------------------------------

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
18	Schröder	AXIA 3.1 5267 8 OSLON SQUARE GIANT@30 0mA WW 727 230V 01-11-802 Rear louvers	AXIA 3.1	8.1 W	718 lm	88.6 lm/W
2	Schröder	AXIA 3.1 5267 8 OSLON SQUARE GIANT@30 0mA WW 727 230V 01-11-802 Rear louvers	AXIA 3.1	8.1 W	718 lm	88.6 lm/W

The Copse, Worthing Road (Post-Curfew)

Calculation objects



The Copse, Worthing Road (Post-Curfew)

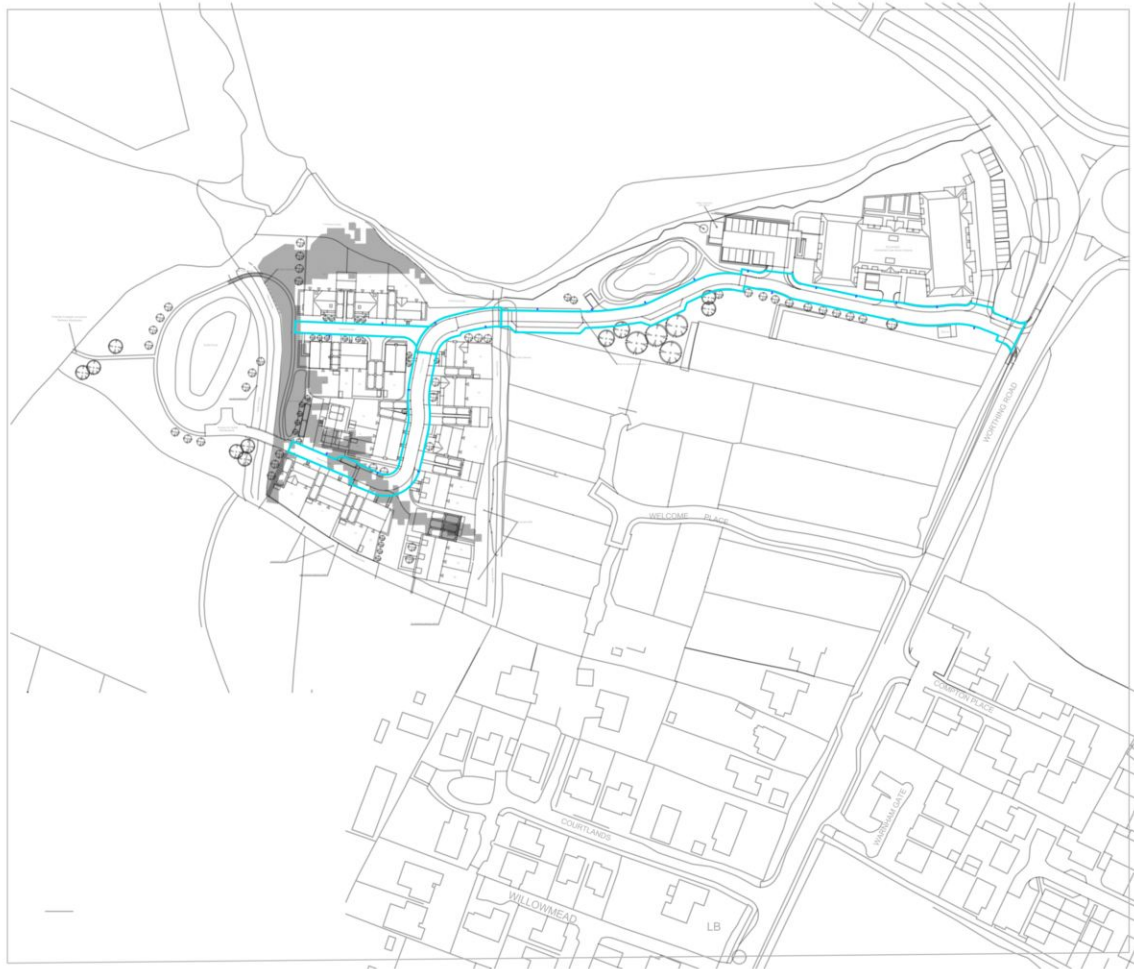
Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_0 (g_1)$	g_2
HMP001 - Primary Road Perpendicular illuminance Height: 0.100 m	3.90 lx	0.78 lx	7.00 lx	0.20	0.11
HMP002 - Dark Hop-Over Perpendicular illuminance Height: 0.100 m	3.33 lx	0.93 lx	5.20 lx	0.28	0.18
HMP003 - Residential Road Perpendicular illuminance Height: 0.100 m	0.039 lx	0.000 lx	1.42 lx	0.00	0.00
HMP004 - Residential Road Perpendicular illuminance Height: 0.100 m	0.21 lx	0.000 lx	2.91 lx	0.00	0.00

The Copse, Worthing Road (Pre-Curfew)

Calculation objects



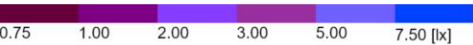
The Copse, Worthing Road (Pre-Curfew)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP001 - Primary Road Perpendicular illuminance Height: 0.100 m	3.90 lx	0.78 lx	7.00 lx	0.20	0.11
HMP002 - Dark Hop-Over Perpendicular illuminance Height: 0.100 m	3.50 lx	1.41 lx	5.20 lx	0.40	0.27
HMP003 - Residential Road Perpendicular illuminance Height: 0.100 m	2.65 lx	0.89 lx	4.94 lx	0.34	0.18
HMP004 - Residential Road Perpendicular illuminance Height: 0.100 m	2.95 lx	1.15 lx	4.85 lx	0.39	0.24

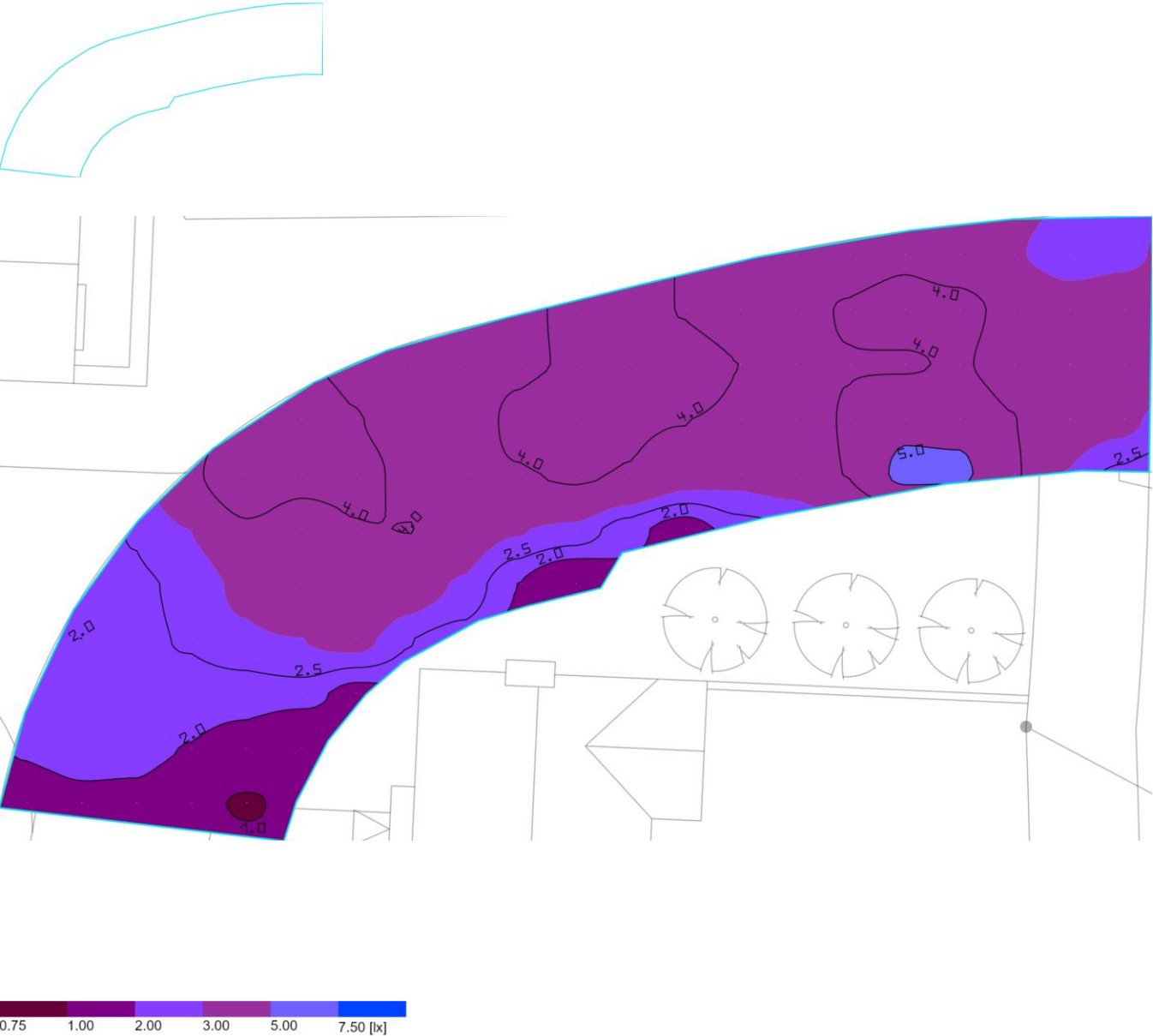
The Copse, Worthing Road (Post-Curfew)
HMP001 - Primary Road



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP001 - Primary Road Perpendicular illuminance Height: 0.100 m	3.90 lx	0.78 lx	7.00 lx	0.20	0.11

Notes on planning:
BS EN 13201-2:2015
P5 Lighting Class (3 - 4.5 Lux Average, 0.6 Minimum)

The Copse, Worthing Road (Post-Curfew)
HMP002 - Dark Hop-Over



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP002 - Dark Hop-Over Perpendicular illuminance Height: 0.100 m	3.33 lx	0.93 lx	5.20 lx	0.28	0.18

Notes on planning:
BS EN 13201-2:2015
P5 Lighting Class (3 - 4.5 Lux Average, 0.6 Minimum)

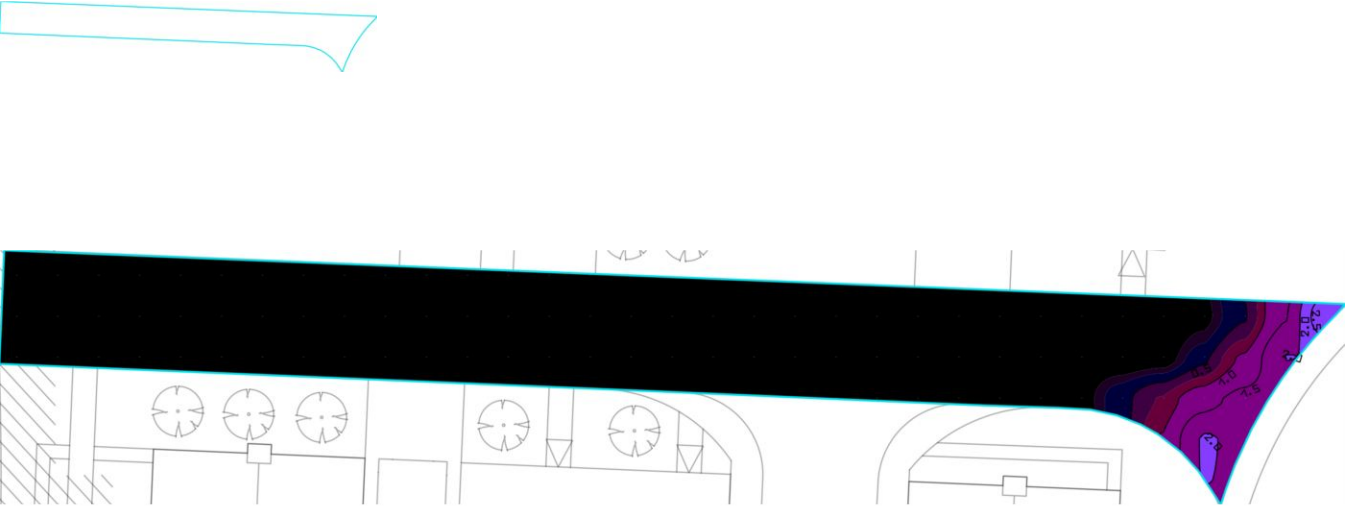
The Copse, Worthing Road (Post-Curfew)
HMP003 - Residential Road



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP003 - Residential Road Perpendicular illuminance Height: 0.100 m	0.039 lx	0.000 lx	1.42 lx	0.00	0.00

Notes on planning:
No Illumination Requirements

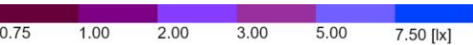
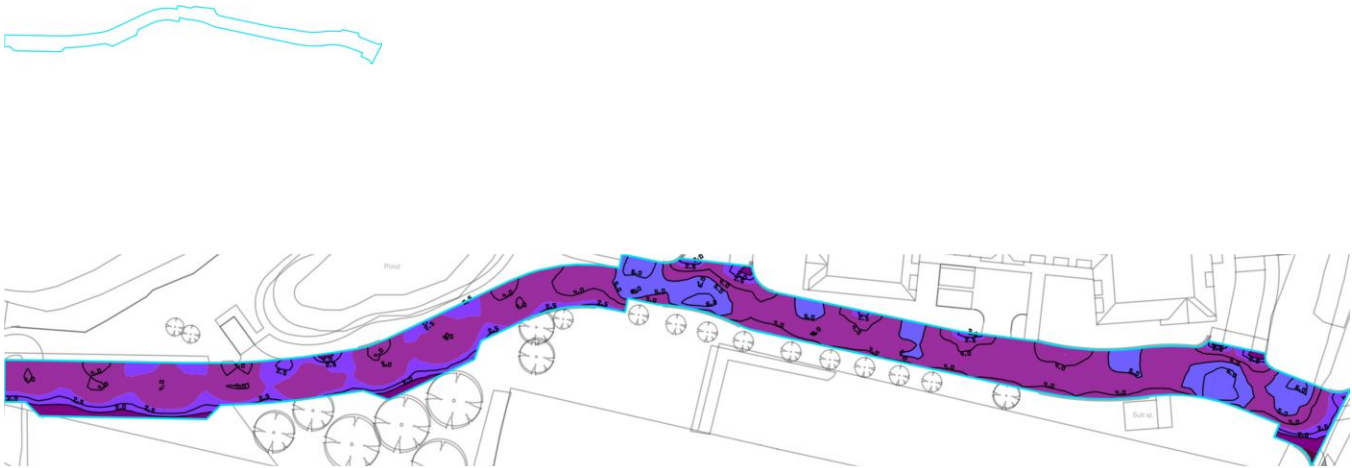
The Copse, Worthing Road (Post-Curfew)
HMP004 - Residential Road



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP004 - Residential Road Perpendicular illuminance Height: 0.100 m	0.21 lx	0.000 lx	2.91 lx	0.00	0.00

Notes on planning:
No Illumination Requirements

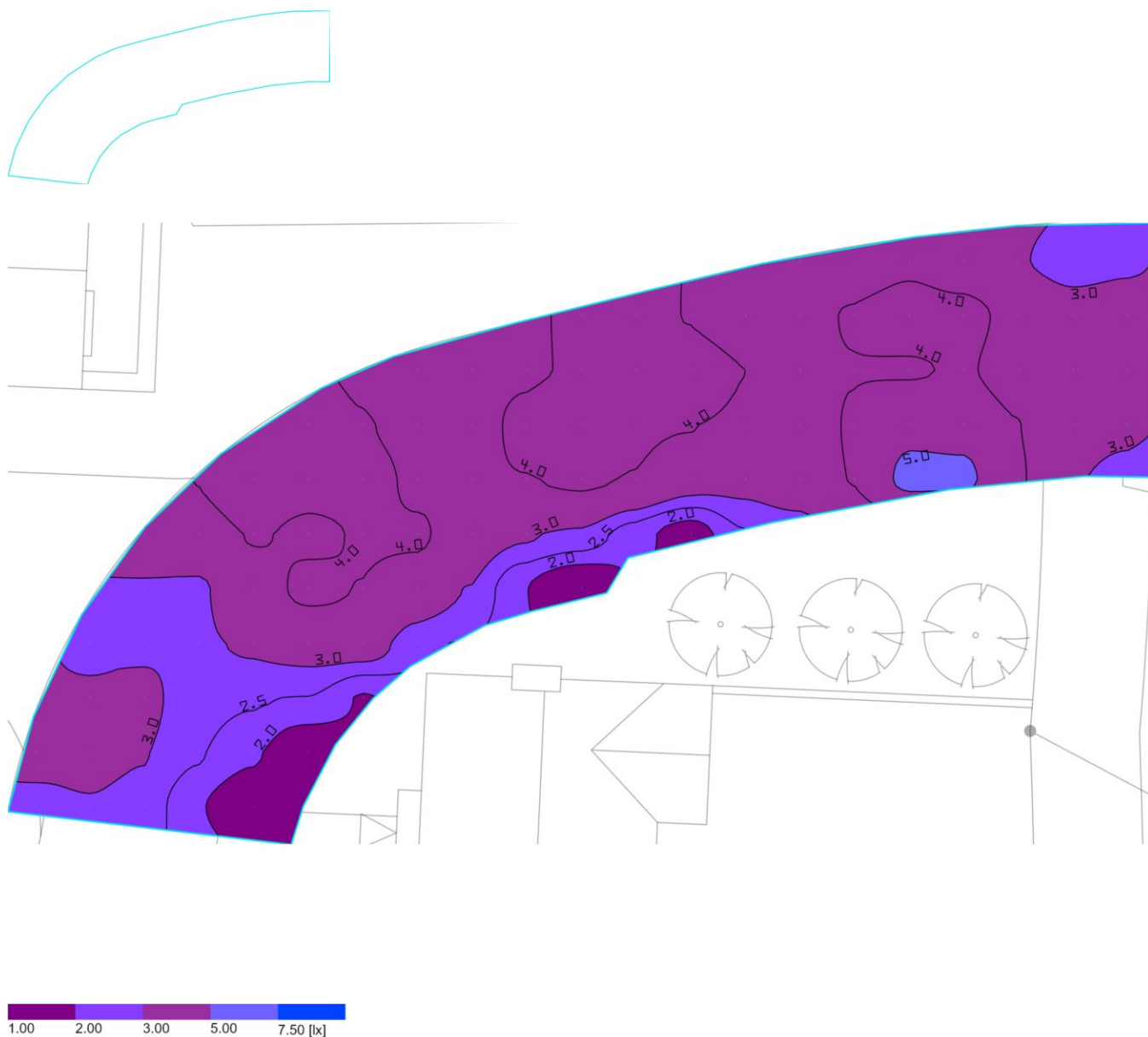
The Copse, Worthing Road (Pre-Curfew)
HMP001 - Primary Road



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP001 - Primary Road Perpendicular illuminance Height: 0.100 m	3.90 lx	0.78 lx	7.00 lx	0.20	0.11

Notes on planning:
BS EN 13201-2:2015
P5 Lighting Class (3 - 4.5 Lux Average, 0.6 Minimum)

The Copse, Worthing Road (Pre-Curfew)

HMP002 - Dark Hop-Over

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP002 - Dark Hop-Over	3.50 lx	1.41 lx	5.20 lx	0.40	0.27
Perpendicular illuminance					
Height: 0.100 m					

Notes on planning:
 BS EN 13201-2:2015
 P5 Lighting Class (3 - 4.5 Lux Average, 0.6 Minimum)

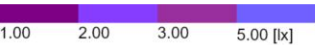
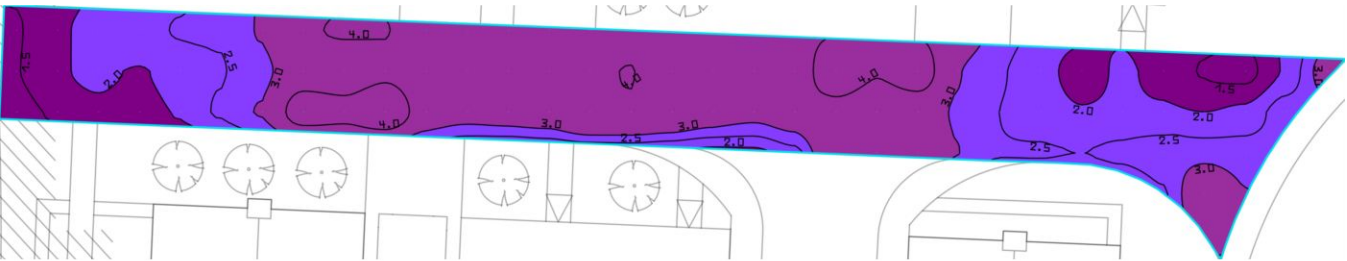
The Copse, Worthing Road (Pre-Curfew)
HMP003 - Residential Road



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP003 - Residential Road Perpendicular illuminance Height: 0.100 m	2.65 lx	0.89 lx	4.94 lx	0.34	0.18

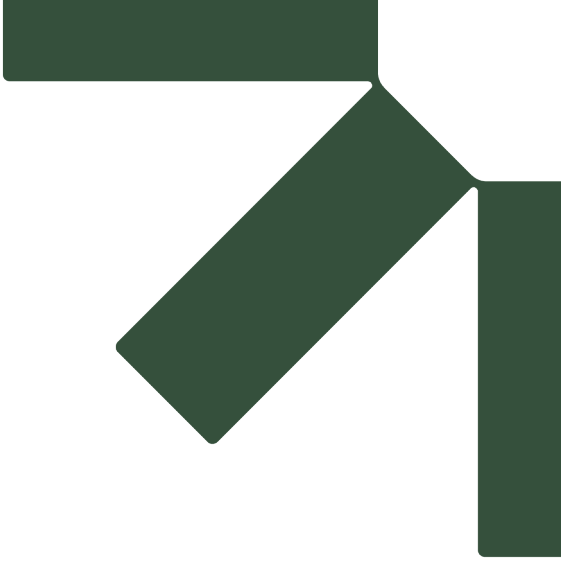
Notes on planning:
BS EN 13201-2:2015
P6 Lighting Class (2 - 3 Lux Average, 0.4 Minimum)

The Copse, Worthing Road (Pre-Curfew)
HMP004 - Residential Road



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
HMP004 - Residential Road	2.95 lx	1.15 lx	4.85 lx	0.39	0.24
Perpendicular illuminance					
Height: 0.100 m					

Notes on planning:
BS EN 13201-2:2015
P6 Lighting Class (2 - 3 Lux Average, 0.4 Minimum)



Appendix C Impact Assessment

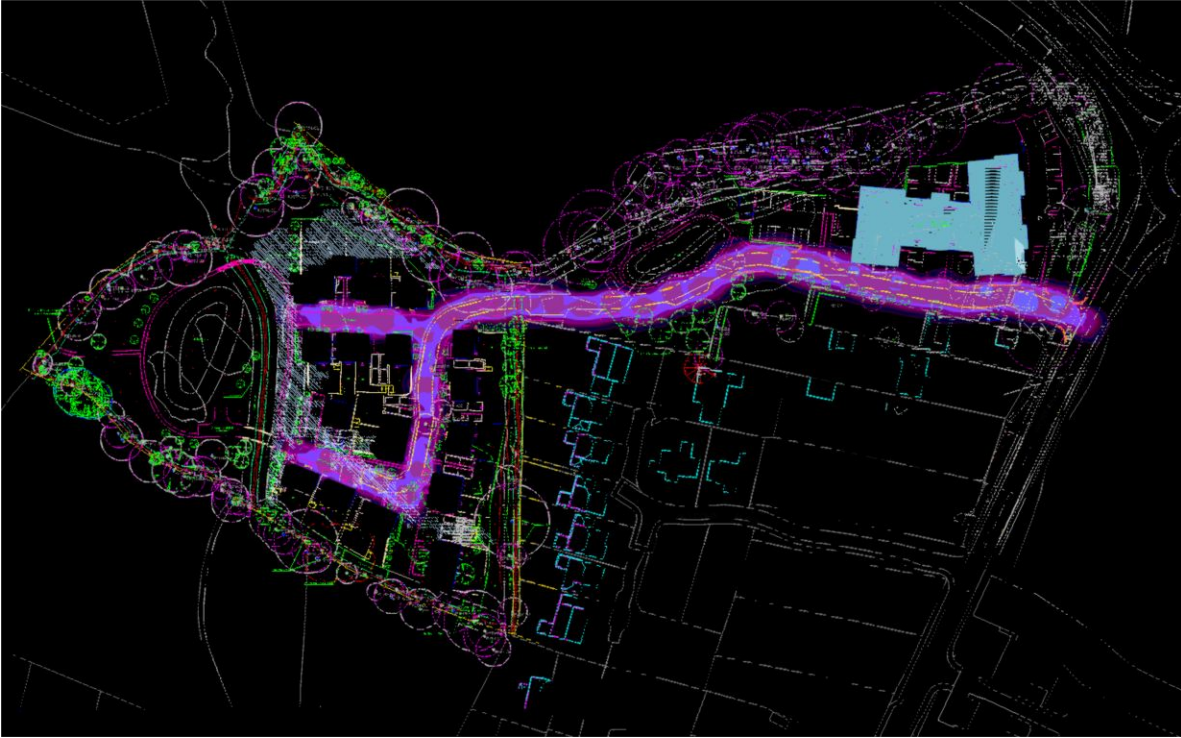
Lighting Design & Impact Assessment

The Copse, Worthing Road

Star Build Ltd

SLR Project No.: 416.066462.00001

16 January 2026



The Copse, Worthing Road

Appendix C - Impact Assessment
Maintainance Factor of 1.0

The Copse, Worthing Road (Obtrusive light scene)

Summary

The Copse, Worthing Road (Obtrusive light scene)

Summary

General information on the obtrusive light calculation

Standard	EN 12464-2:2014
Zone	Environmental Zone E2
Period under review	Post-curfew
Apply limits for	General lighting

General obtrusive light scene results

Symbol	Calculated	Threshold value	Check
R _{UL}	0.0 %	≤ 5.0 %	✓
R _{DLO}	63.4 %	–	
R _{ULO}	0.0 %	–	

Calculation points

Symbol	Calculated	Threshold value	Check
E _{vmax}	0.12 lx	≤ 1.00 lx	✓
k _{Smax}	2.51	–	
I _{max}	3.85 cd	≤ 500 cd	✓

Flux ratios are also calculated using only luminaires in the obtrusive lighting scene.

The Copse, Worthing Road (Obtrusive light scene)

Calculation objects



The Copse, Worthing Road (Obtrusive light scene)

Calculation objects

Calculation points

Properties	Calculated	Index
CP001 - Pine Lodge Vertical illuminance Rotation: 88.7°, Height: 4.500 m	0.12 lx (≤ 1.00 lx) ✓	OP1
CP001 - Pine Lodge k _s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	2.51	OP1
CP001 - Pine Lodge Luminous intensity Height: 4.500 m	3.85 cd (≤ 500 cd) ✓	OP1
CP002 - Pine Lodge Vertical illuminance Rotation: 166.5°, Height: 4.500 m	0.027 lx (≤ 1.00 lx) ✓	OP2
CP002 - Pine Lodge k _s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	1.36	OP2
CP002 - Pine Lodge Luminous intensity Height: 4.500 m	2.84 cd (≤ 500 cd) ✓	OP2
CP003 - Woodlands Vertical illuminance Rotation: 168.0°, Height: 4.500 m	0.005 lx (≤ 1.00 lx) ✓	OP3
CP003 - Woodlands k _s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.33	OP3
CP003 - Woodlands Luminous intensity Height: 4.500 m	1.13 cd (≤ 500 cd) ✓	OP3
CP004 - 11 Welcome Place Vertical illuminance Rotation: 78.0°, Height: 4.500 m	0.010 lx (≤ 1.00 lx) ✓	OP12
CP004 - 11 Welcome Place k _s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.33	OP12

The Copse, Worthing Road (Obtrusive light scene)

Calculation objects

Properties	Calculated	Index
CP004 - 11 Welcome Place Luminous intensity Height: 4.500 m	1.21 cd (≤ 500 cd) ✓	OP12
CP005 - 11 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.006 lx (≤ 1.00 lx) ✓	OP11
CP005 - 11 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.27	OP11
CP005 - 11 Welcome Place Luminous intensity Height: 4.500 m	1.25 cd (≤ 500 cd) ✓	OP11
CP006 - 10 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.011 lx (≤ 1.00 lx) ✓	OP4
CP006 - 10 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.58	OP4
CP006 - 10 Welcome Place Luminous intensity Height: 4.500 m	1.24 cd (≤ 500 cd) ✓	OP4
CP007 - 9 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.003 lx (≤ 1.00 lx) ✓	OP5
CP007 - 9 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.27	OP5
CP007 - 9 Welcome Place Luminous intensity Height: 4.500 m	1.25 cd (≤ 500 cd) ✓	OP5
CP008 - 8 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.001 lx (≤ 1.00 lx) ✓	OP6
CP008 - 8 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.14	OP6

The Copse, Worthing Road (Obtrusive light scene)

Calculation objects

Properties	Calculated	Index
CP008 - 8 Welcome Place Luminous intensity Height: 4.500 m	0.78 cd (≤ 500 cd) ✓	OP6
CP009 - 7 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.001 lx (≤ 1.00 lx) ✓	OP7
CP009 - 7 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.10	OP7
CP009 - 7 Welcome Place Luminous intensity Height: 4.500 m	0.80 cd (≤ 500 cd) ✓	OP7
CP010 - 6 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.000 lx (≤ 1.00 lx) ✓	OP8
CP010 - 6 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.069	OP8
CP010 - 6 Welcome Place Luminous intensity Height: 4.500 m	0.61 cd (≤ 500 cd) ✓	OP8
CP011 - 5 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.000 lx (≤ 1.00 lx) ✓	OP9
CP011 - 5 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.055	OP9
CP011 - 5 Welcome Place Luminous intensity Height: 4.500 m	0.47 cd (≤ 500 cd) ✓	OP9
CP012 - 4 Welcome Place Vertical illuminance Rotation: 165.0°, Height: 4.500 m	0.001 lx (≤ 1.00 lx) ✓	OP10
CP012 - 4 Welcome Place k_s Ambient luminance: 0.10 cd/m ² , Height: 4.500 m	0.069	OP10

The Copse, Worthing Road (Obtrusive light scene)

Calculation objects

Properties	Calculated	Index
CP012 - 4 Welcome Place Luminous intensity Height: 4.500 m	0.44 cd (≤ 500 cd) ✓	OP10

Notes on planning:

All values take the initial flux (MF = 1) into account. The k_s value was calculated by limiting the spatial angle to $10e-6$.

The Copse, Worthing Road (Post-Curfew)

Calculation objects



The Copse, Worthing Road (Post-Curfew)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
VMP001 - Northwestern Boundary Perpendicular illuminance Height: 4.500 m	0.030 lx	0.013 lx	0.29 lx	0.43	0.045	CG6
VMP002 - Northern Boundary Perpendicular illuminance Height: 4.500 m	0.034 lx	0.002 lx	0.25 lx	0.059	0.008	CG2
VMP003 - Northeastern Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG1
VMP004 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG3
VMP005 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG4
VMP006 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG5

The Copse, Worthing Road (Pre-Curfew)

Calculation objects



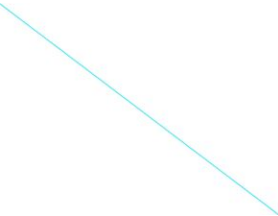
The Copse, Worthing Road (Pre-Curfew)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
VMP001 - Northwestern Boundary Perpendicular illuminance Height: 4.500 m	0.030 lx	0.013 lx	0.29 lx	0.43	0.045	CG6
VMP002 - Northern Boundary Perpendicular illuminance Height: 4.500 m	0.037 lx	0.008 lx	0.25 lx	0.22	0.032	CG2
VMP003 - Northeastern Boundary Perpendicular illuminance Height: 4.500 m	0.003 lx	0.000 lx	0.030 lx	-	0.00	CG1
VMP004 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.014 lx	0.001 lx	0.12 lx	0.071	0.008	CG3
VMP005 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.052 lx	0.017 lx	0.20 lx	0.33	0.085	CG4
VMP006 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.020 lx	0.005 lx	0.16 lx	0.25	0.031	CG5

The Copse, Worthing Road (Post-Curfew)
VMP003 - Northeastern Boundary




0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP003 - Northeastern Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.000 lx	-	-

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

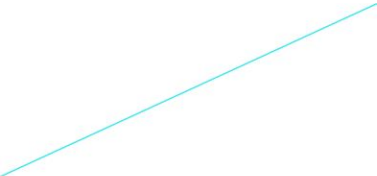
The Copse, Worthing Road (Post-Curfew)
VMP002 - Northern Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP002 - Northern Boundary	0.034 lx	0.002 lx	0.25 lx	0.059	0.008
Perpendicular illuminance					
Height: 4.500 m					

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

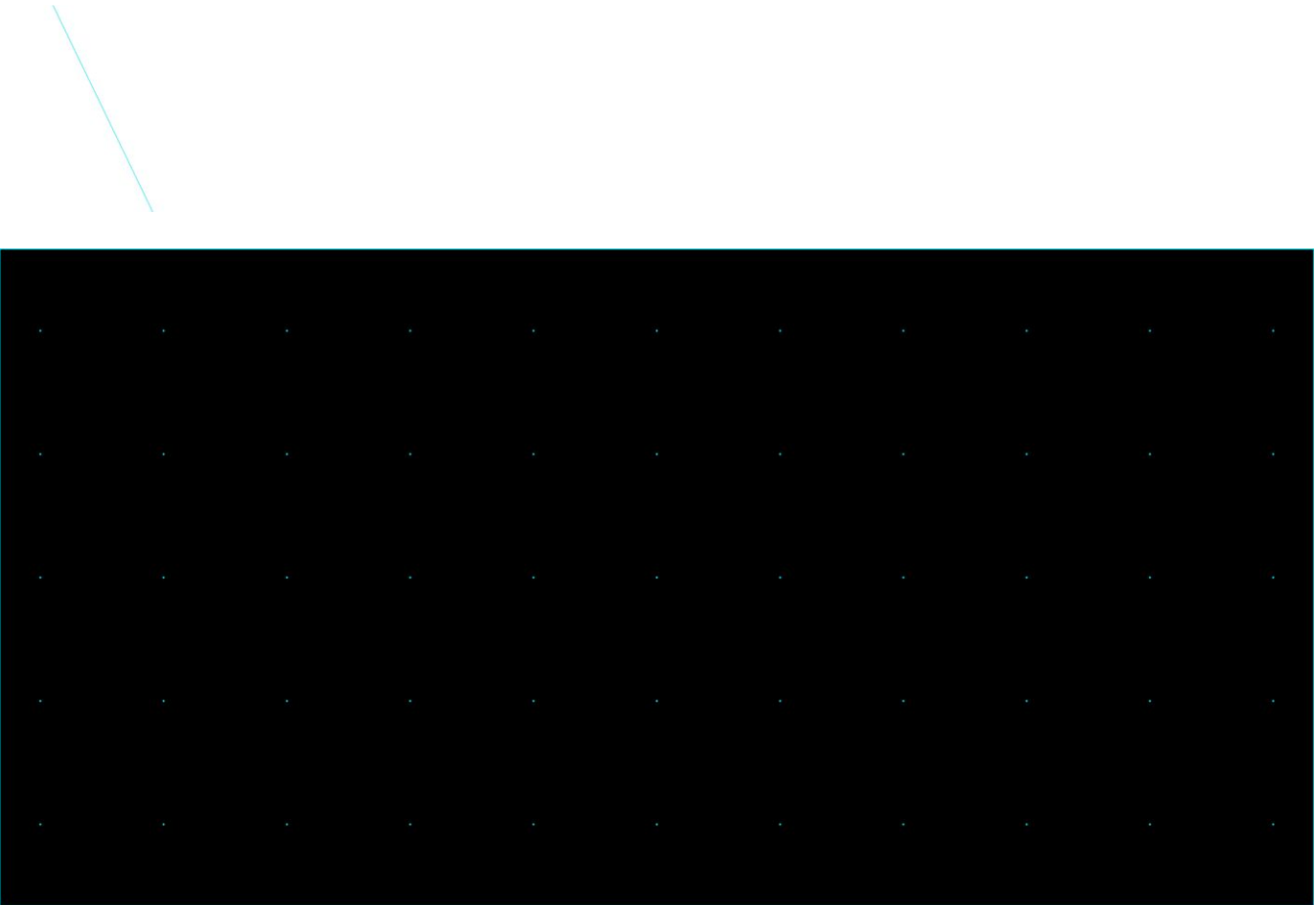
The Copse, Worthing Road (Post-Curfew)
VMP001 - Northwestern Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP001 - Northwestern Boundary Perpendicular illuminance Height: 4.500 m	0.030 lx	0.013 lx	0.29 lx	0.43	0.045

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

The Copse, Worthing Road (Post-Curfew)
VMP004 - Western Boundary

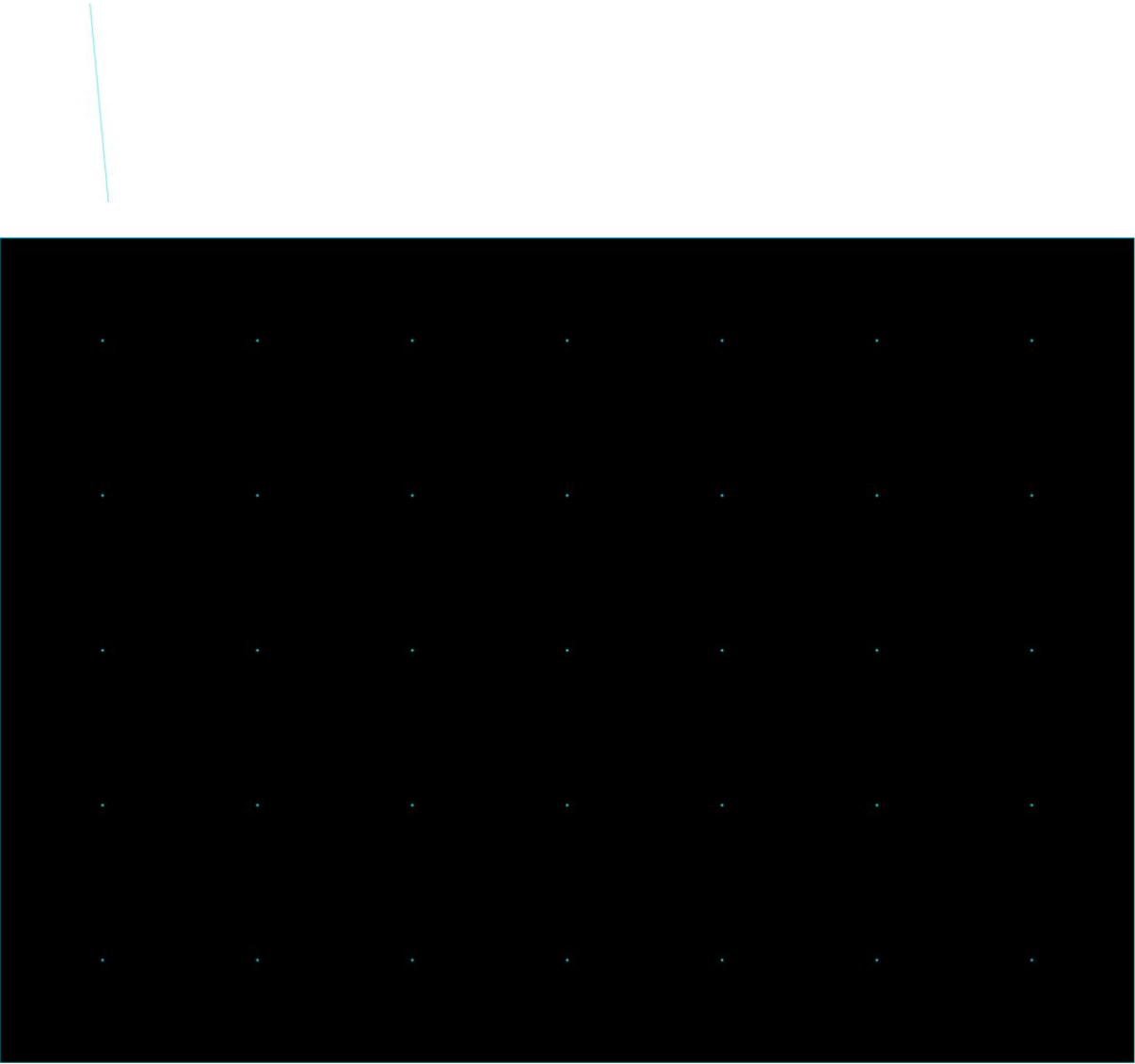



0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP004 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.001 lx	-	-

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

The Copse, Worthing Road (Post-Curfew)
VMP005 - Western Boundary

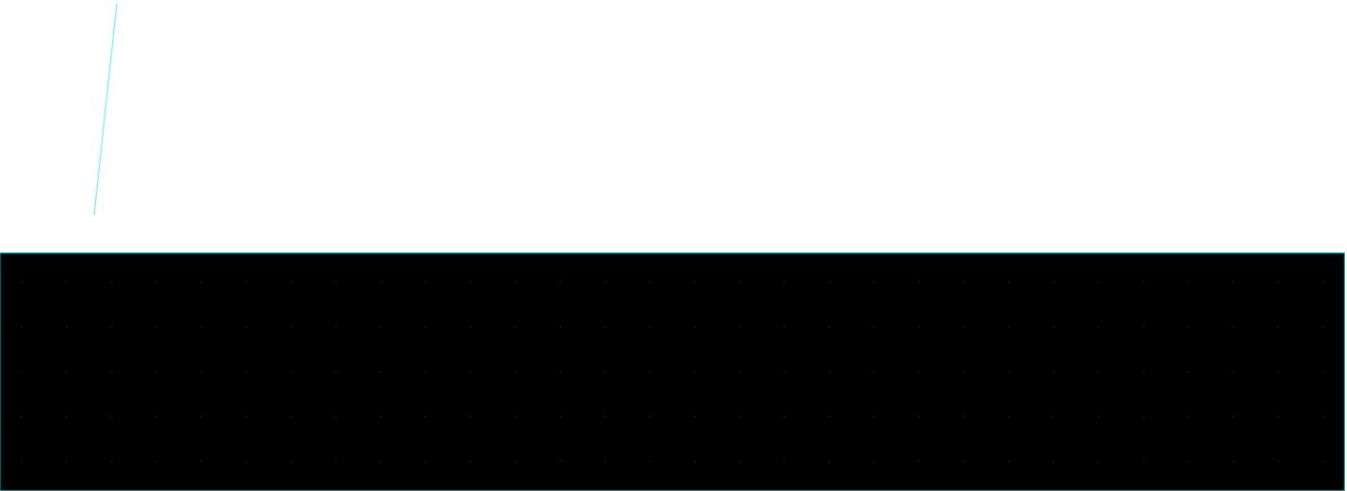


 0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP005 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.001 lx	-	-

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

The Copse, Worthing Road (Post-Curfew)
VMP006 - Western Boundary

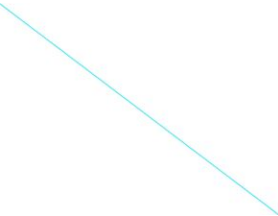



0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP006 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.000 lx	0.000 lx	0.001 lx	-	-

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

The Copse, Worthing Road (Pre-Curfew)
VMP003 - Northeastern Boundary




0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP003 - Northeastern Boundary Perpendicular illuminance Height: 4.500 m	0.003 lx	0.000 lx	0.030 lx	-	0.00

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

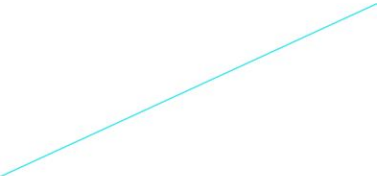
The Copse, Worthing Road (Pre-Curfew)
VMP002 - Northern Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP002 - Northern Boundary Perpendicular illuminance Height: 4.500 m	0.037 lx	0.008 lx	0.25 lx	0.22	0.032

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

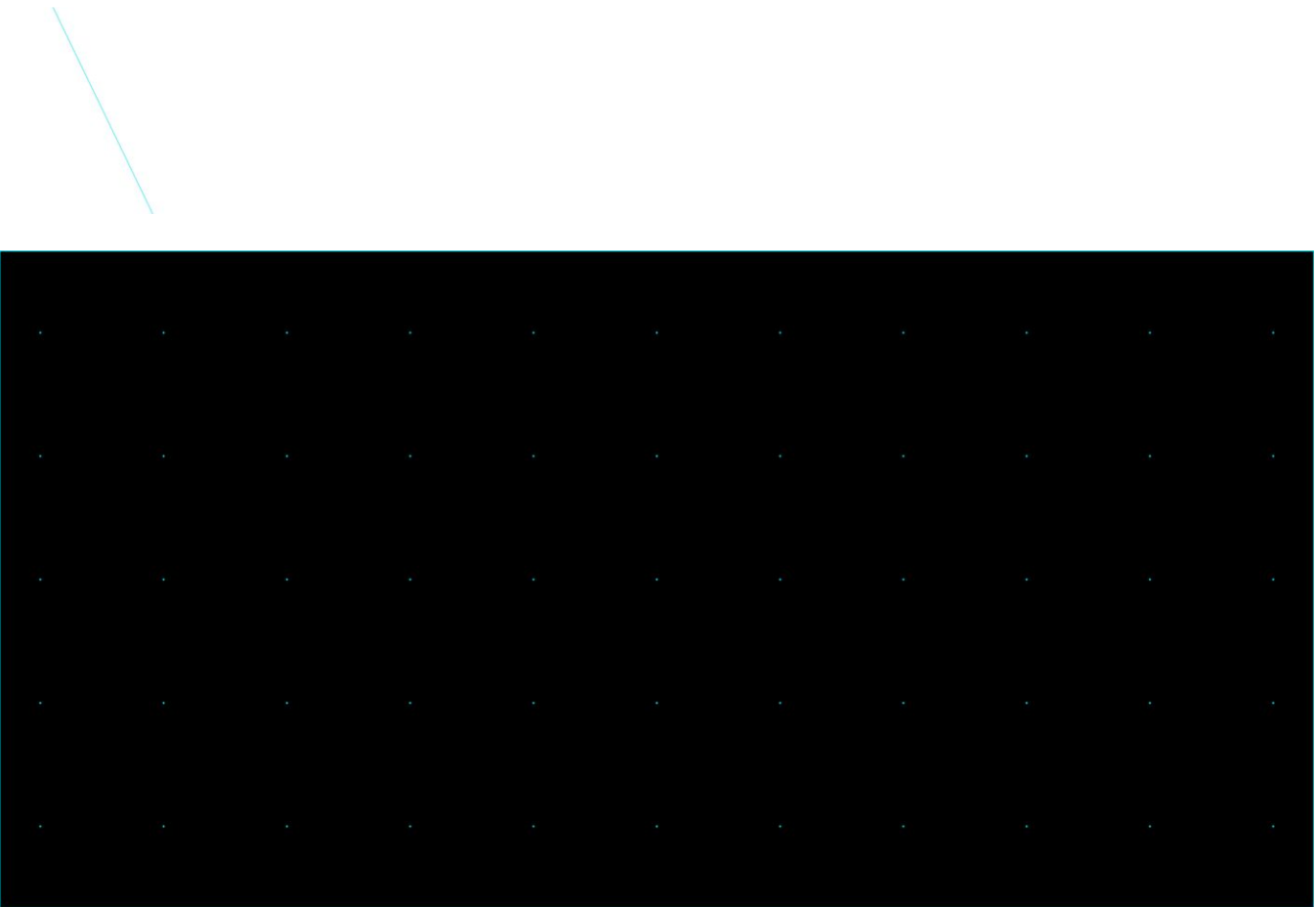
The Copse, Worthing Road (Pre-Curfew)
VMP001 - Northwestern Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP001 - Northwestern Boundary Perpendicular illuminance Height: 4.500 m	0.030 lx	0.013 lx	0.29 lx	0.43	0.045

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

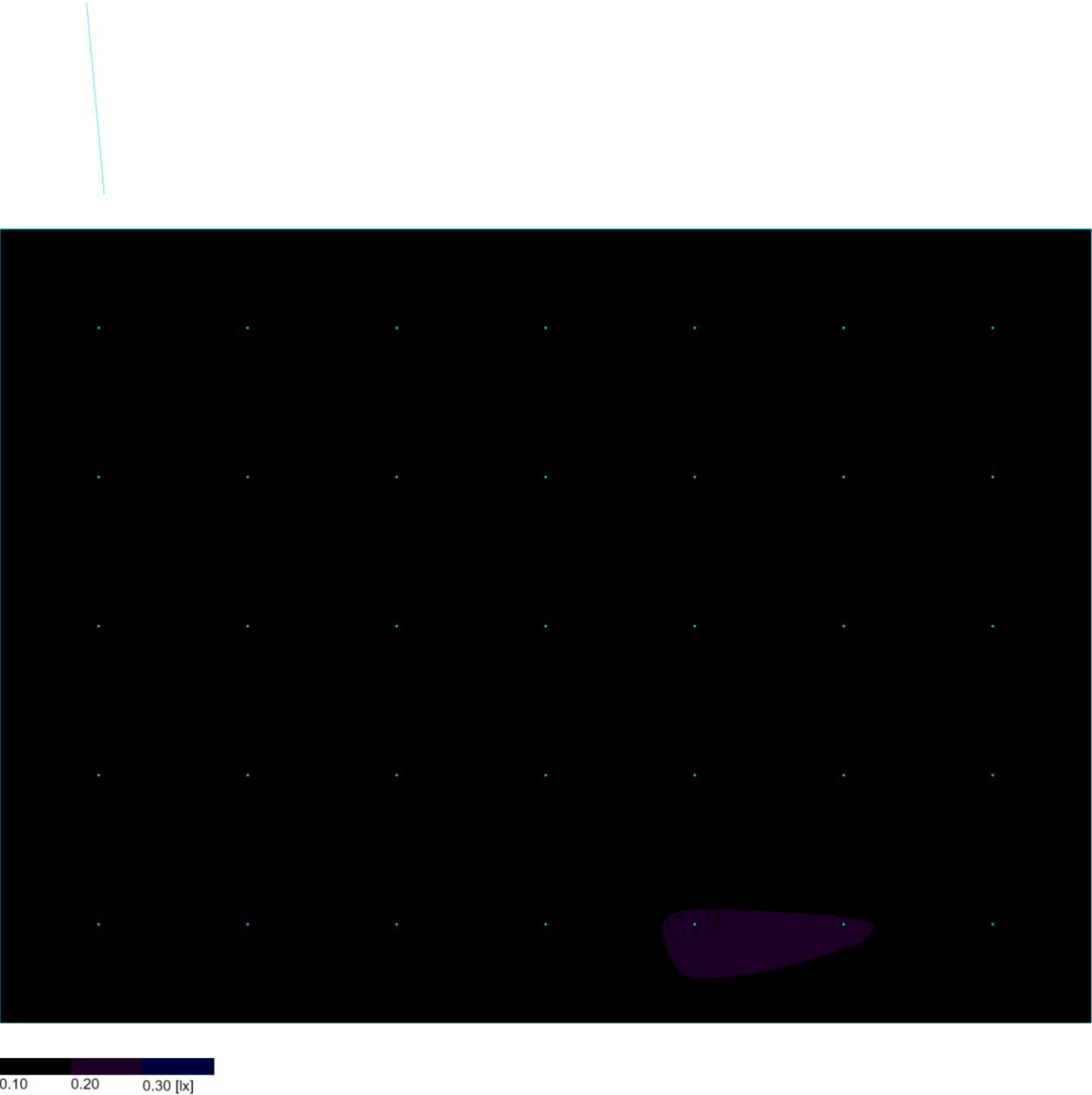
The Copse, Worthing Road (Pre-Curfew)
VMP004 - Western Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP004 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.014 lx	0.001 lx	0.12 lx	0.071	0.008

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

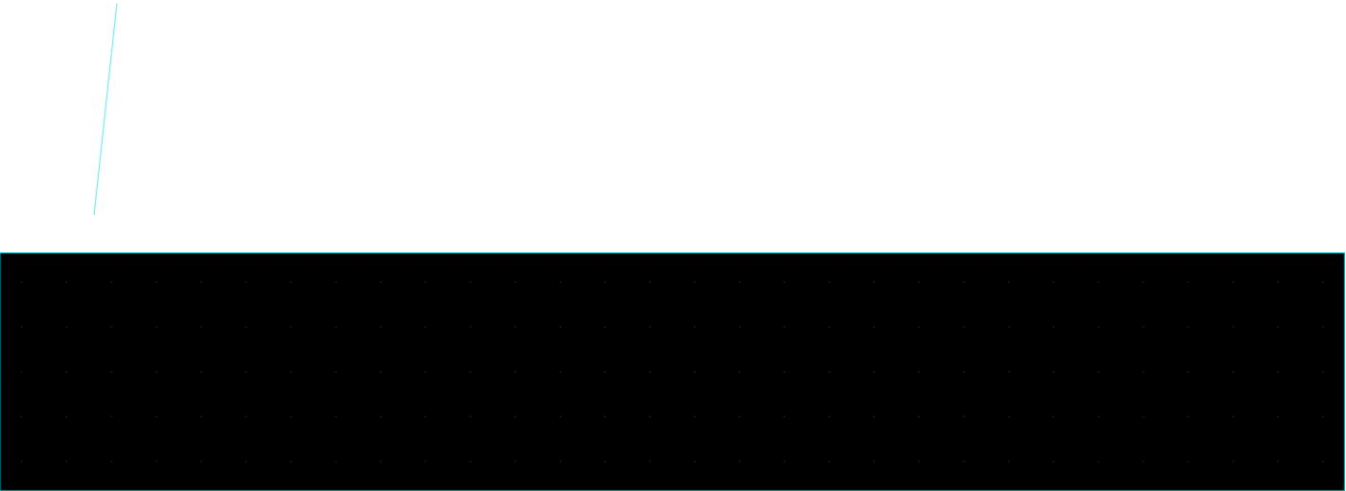
The Copse, Worthing Road (Pre-Curfew)
VMP005 - Western Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP005 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.052 lx	0.017 lx	0.20 lx	0.33	0.085

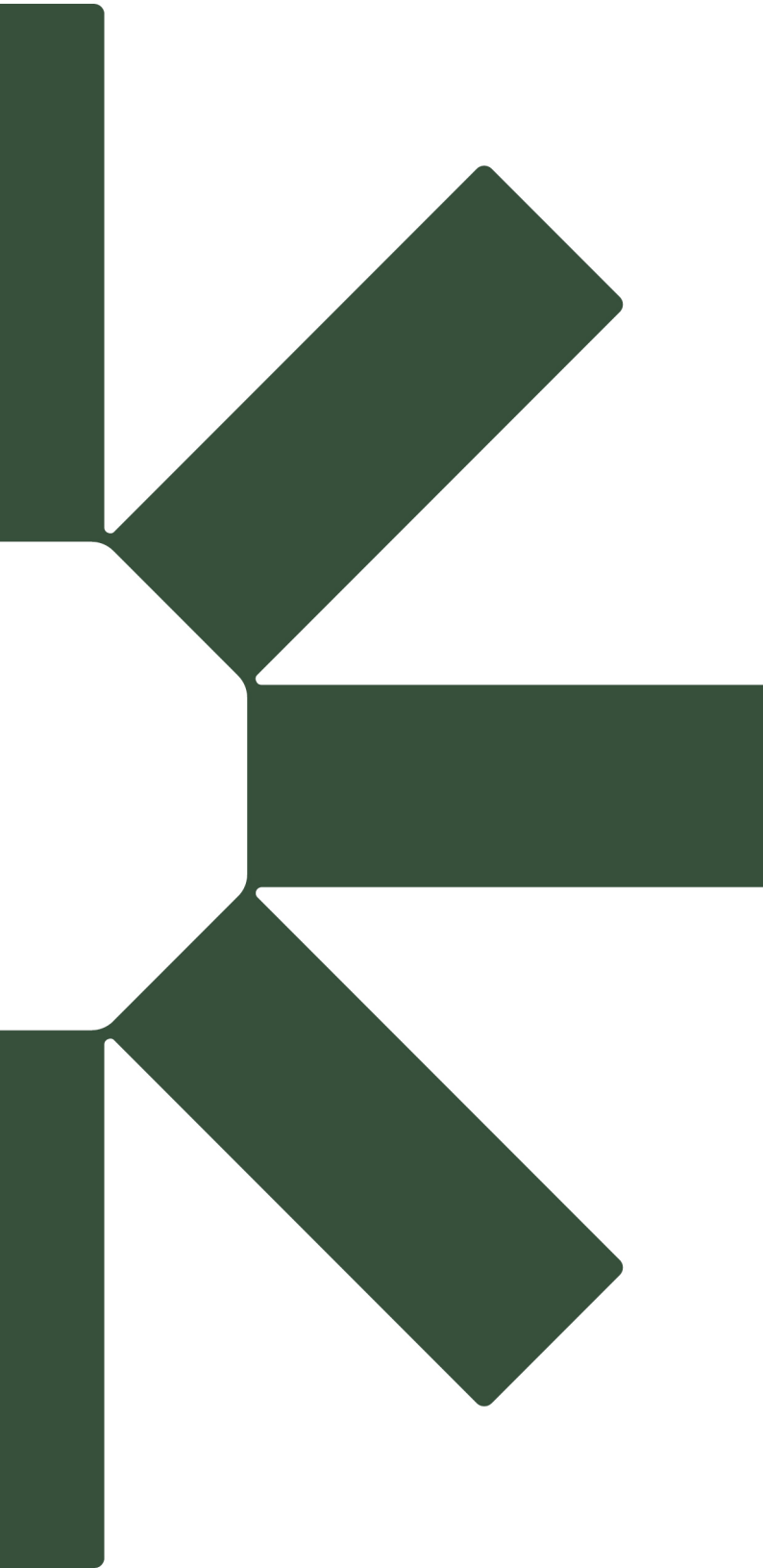
Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx

The Copse, Worthing Road (Pre-Curfew)
VMP006 - Western Boundary



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
VMP006 - Western Boundary Perpendicular illuminance Height: 4.500 m	0.020 lx	0.005 lx	0.16 lx	0.25	0.031

Notes on planning:
ILP GN08:2023
Requirement: <0.4 Lx



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