



- 1 This drawing represents a street lighting strategy prepared for the planning application and should be developed as technical drawings.
- 2 Luminaire's column supports are indicative and will be subject to final site's road layout and Akinis / Withilshire Council approval.
- 3 Levels of luminance are calculated and shown horizontally at ground level. Calculations are based on luminaires at 10' typical maintenance factor = 1 to represent the worst case scenario of a permanent power outage. The drawing also displays Summary for maintained levels of design illuminance.
- 4 Isolines contours represent values of illuminance calculated in lux.
- 5 The Section 38 Street lighting has been designed to BS 5489-2020 class PS type 3 + 0.5 A.L. Eux, and 600 L.Eux. This is with the exception of the first 13 luminaires along the road where there has been design to a P4 class (A.L. = 0.0.7.5 L.Eux Luminaires and 1.0 L.Eux Eux).
- 6 The environmental lighting zone to the left is assumed to be E2, in accordance with a low district brightness area in a rural location.
- 7 The maintenance factor has been derived, as follows:
 - $\mu = 0.03$ (L.M.E. = 0.98)
 - $f_{\text{soil}} = 0.7$
 - $f_{\text{wall}} = 0.2$ for an E2 zone, with a mounting height of 6mTherefore, 0.72 months cleaning frequency, as derived from table 1 in BS 5489.
- 8 This results in a 0.87 maintenance factor.
- 9 The street lighting has been designed to minimise the impact on the environment. All luminaires have been specified in 3000K warm white in accordance with Withilshire Council's specification.
- 10 Integral back light effects (louveres) have been specified to the luminaires, to minimise the impact on the environment. Back light effects required for back light. The effect of the back light shields is reflected by the isolines on the drawing.
- 11 Street lighting installation shall be in accordance with Withilshire Council standard details.
- 12 The developer is required to supply five of charge 210. 120x360mm recessed to Withilshire Council for fitting after completion.
- 13 Without loss of benefit to the site shall not be deemed acceptable for adoption.
- 14 Luminaires, columns, supports, isolation units, cut-off-cases and all associated equipment shall be in accordance with Akinis / Withilshire Council specification.
- 15 For full section 38 Street lighting specification refer to Akinis / Withilshire Council documentation.
- 16 Columns should be sited in accordance with BS 5489, and generally installed in the footpath at the rear of the site. In the absence of a footpath, a minimum of 8 metres from the kerb edge to the face of the columns and within the highway to be adopted. Unless a reduction in set-back distance is agreed with the Council for shared surface footpaths.
- 17 No obstruction or cluttering shall hinder access to the public car space or completion of the light distribution from the lanterns.
- 18 Any requirements for Section 38 street lighting have not been considered at this stage. Coordination may be required between any S278 lighting and the proposed S38 lighting.
- 19 This drawing should be read in conjunction with the External Lighting Strategy, Calculation Summary and all relevant architectural, structural, mechanical and electrical services information.
- 20 The model is based on calculations on a flat ground plane. No topography, buildings or proposed levels have been built into this calculation model.
- 21 This design is based on a desktop study, on the information provided by others, with no site visit having been undertaken. The Contractor shall ensure they are not held liable for the design by their responsibilities under the Health and Safety, The Construction Design and Management Regulations 2015. The Contractor should undertake a thorough Risk Assessment prior to undertaking any installation works.
- 22 Refer to accompanying Design Risk Assessment for details of design risks identified.
- 23 Scaled for planning purposes only.
- 24 All measurements are in millimetres unless stated otherwise.
- 25 All symbols used are generic and should not be considered as true representations of size or dimensions of actual luminaires.

↑ x1

Proposed 6m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Urban Axis 3.1 - 16 LED Oscon square giant 460mA 3000K warm white with C36 optic (16 LED / 3.65klm output) Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photocell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regimes below.

Column Ref: CU Phosco - Column R2506011/WILTS
Luminaire Ref: Urbis Axis 3.1 - 16 Oslon Square G1
4640mA 3000K warm white with C3.6 optic (16 LED /
3.65kmu output).
Control Gear Ref: Dali dimming and CMS compatible
Protocol Ref: Zodon S56 - 20 Lux switch on/off level
output
Telecel Ref: Telensa-T2E1N-B-3
Dimming Regime:
100% - Dusk to 20.00HRS
75% - 20.00HRS to 23.30HRS
50% - 23.30HRS to 06.00HRS
10% - 06.00HRS to Dawn
Switch Regime: D19
Dimming Code: D2 0015 0000 100
Isolator Ref: (Single) Lucy Lighting
TR-PP20-EB2-LD06-06
Internal Wiring: 3 core 2.5mm flexible arctic grade
(230V)
Service Connection: Unmetered statutory low voltage
supply.

Proposed 6m tubular shaped steel (galvanneal finish) (roof base) column with post mounted to all 0° Uties
 Axial: 3.1 - 8 LED Ocean square glare 5400mA 3000K
 Luminaire with C2: 2.1 square LED 2.1 (10m output).
 Luminaire to be fitted with DALI dimming and CDM compatible LED driver and temporary machinery protected by 20 LU switching. Luminaire shall aim in accordance with the dimming regime below.

Column Ref: Ocean Phosco - Column R260R61W1LTS
 Dimming Regime: 100% - Dark to 100%
 5400 3000K warm white with C2: 2.1 square LED / 2.1 (10m output).
 Control: General Ref: dimming and CDM compatible
 Luminaire Ref: Zuden SSP - 20 LU switch off on/off

Telecom Ref: TZE-12EN-B3
 Dimming Regime: 100% - Dark to 100%
 75% - 2000HRS to 2000HRS
 50% - 2000HRS to 1000HRS
 25% - 1000HRS to 200HRS
 Switching Regime: 01 to Down
 Dimming Code: 01915 0000
 Isolated Ref: (Single) Luminaires
 Isolated Ref: 01906 to 01906-6
 Internal Wiring: 3 core 2.5mm flexible acrylic grade (230V)

Connection: Uninterrupted low voltage supply

Proposed 6m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Urbis Axis 3.1 - 8 LED Oscon square giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output) complete with integral rear louvre.

Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photocell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Reel: CU Phosco - Column RZ506T01/MLTIS
 Luminaire Reel: Urbis Xtra 3.1 - 8 Odon Square Gaint
 540mA 3000K warm white with C2.1 optic (8 LED /
 2.10km output) complete with integral reel houer.
 Control Gear Reel: Dali dimming and CMS compatible
 Photocell Reel: Zodon S56 - 20 Lux switch on/off level
 output
 Telescope Reel: Telensa-T2EIN-B-3
 Dimming Regime:
 100% - Dusk to 20.00HRS
 75% - 20.00HRS to 23.00HRS
 50% - 23.00HRS to 06.00HRS
 10% - 06.00HRS to Dawn
 Switch Regime: D19
 Dimming Code: 42 0015 0000 10
 Isolator Reel: (Single) Lux Lighting
 TR2-PP20-EB-LD06-06
 Internal Wiring: 3 core 2.5mm flexible arctic grade
 (230V)
 Service Connection: Unmetered statutory kw voltage
 supply

Proposed 5m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Utrix Axis 3.1 - 8 LED Oscon square giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10klm output). Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photocell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Ref: CU Photo - Column: Z2056T01/WILTS
Luminaire Ref: Urbis Axia 3-1 8 Octon Square Gint
540kA 3000K warm white with C2.1 optic (8 LED /
2 10kdm output),
Control Gear Ref: Data dimming and CMS compatible
Protocol Ref: Zodon S56 - 20 Lux switch on/off level
output
Telecel Ref: Telensa-T2EIN-B-3
Dimming Regime:
100% - Dusk to 20.00HRS
75% - 20.00HRS to 23.30HRS
50% - 23.30HRS to 06.00HRS
100% - 06.00HRS to Dawn
Switch Regime: D19
Dimming Code: 42 0015 0000 100
Isolator Ref: (Single) Lux Lighting
TR2-PP20-EB2-L4D-06-26
Internal Wiring: 3 core 2.5mm flexible arctic grade
(230V)
Service Connection: Unmetered statutory kw voltage
supply.

Proposed 5m tubular stepped steel (galvanised finish) (root base) column with post top mounted at 0° Urbis Axis 3.1 - 8 LED Oscon square giant 540mA 3000K warm white with C2.1 optic (8 LED / 2.10km output) complete with integral rear duralier.
Luminaire to be fitted with DALI dimming and CMS compatible LED driver and temporary miniature photocell with 20 Lux switching. Luminaire shall dim in accordance with the dimming regime below.

Column Ref: CU Phosco - Column ZR250T01/WILT
Luminaire Ref: Urbis Ultra 3.1 3-8 Oslon Square Gint
540MA 3000K warm white with C2 optic 8 LED /
2.10kum output complete with integral rear louver.
Control Gear Ref: Dali dimming and CMS compatible
Protocol Ref: Zodon SSS - 20 Lux switch on/off level
output
Telecoil Ref: Telensa-T2EIN-8-3
Dimming Regime:
100% - Dusk to 20.00HRS
75% - 20.00HRS to 23.00HRS
50% - 23.00HRS to 06.00HRS
10% - 06.00HRS to Dawn
Switch Regime: D19
Dimming Code: 42 0015 0000 100
Isolator Ref: Engle Lighty Lighting
TR2 PP20-EB2-LB2-06-95
Internal Wiring: 3 core 2.5mm flexible arctic grade
(230V)
Service Connection: Unmetered statutory kw voltage
supply.

- = Dark corridor - level of illuminance to be <0.5 Lux
- = Area of section 38 street lighting not compliant with adoptable standards due to ecological dark corridors
- = Annihilation Boundary

- = 10 Lux
- = 5 Lux
- = 4 Lux
- = 2 Lux
- = 1 Lux
- = 0.5 Lux
- = 0.2 Lux

P05	Updated Site Plan	TS / BB	01.06.26
P04	Updated Site Plan	TS / BB	31.03.26
P03	Updated Site Plan	TS / BB	19.12.25
P02	Updated Site Plan	TS / BB	25.11.25
P01	Preliminary Issue	TS / BB	19.11.25
Rev	Details	By / Reviewed	Date



The Lighting Bee Ltd
22 Berkshire Drive, Exeter, Devon, EX2 1NF
Tel: 01392 266000 Fax: 01392 266001
Email: info@lightingbee.co.uk



PROJECT TITLE

PROJECT TITLE
Spitfire I
Calne

DRAINING TIME

Street Lighting Strategy - Section 38
Levels of Horizontal Illuminance Shown
Ground Level
Full Output Shown (MF=1)

SCALE AT A0

1:500

DISCIPLINE

Lighting

DRAWING NUMBER
1775-LB-EX-XX-DR-E-7080-41

Project - Originator - Zone - Level - Type - Role - NBS class - Sequential Number	
STATUS	ISSUE
Preliminary	P05