

- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one
 - 2. In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified
 - 3. SHD Lighting Consultancy Ltd accept no liability in the event of not
 - 4. This lighting design has been prepared in accordance with the HEMSA/HEA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 and The Construction (Design and Management) Regulations 2015 - PART 3 Health and safety duties
 - 1. All works are to be carried out in accordance with the current
 - 2. The information on this drawing does not account for installation considerations, site conditions or provide any form of risk
 - 3. No account is taken for the blocking effect caused by
 - 4. The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in
 - 5. Column positions indicated upon this drawing may change without prior or additional notice due to local site or environmental
 - 6. Any inaccuracies are to be reported to the overseeing organisation
 - relation to the programming and coordination of any works associated with the connection and disconnection of street lighting
 - permitted. Any chosen IDNO shall have a Service Level Agreement in place with Cumberland Council prior to adoption of the new
 - 9. The contractor shall provide Cumberland Council street lighting department with the name, address and emergency contact details
 - 10. IDNO contact details shall also be stored inside the base compartment of each lighting column via means of an identification
 - elsewhere to avoid interference with the street lighting luminaire or prevent any future access or maintenance.
 - 12. The planting of trees near to lighting columns is to be avoided as
 - 13. Horizontal clearance for the maximum tree canopy shall be greater
 - 14. Final lighting column identification numbers shall be agreed with the
 - 15. The Contractor shall provide the Cumberland Council with as-built
 - drawings, test certificates and column and lantern data sheets in accordance with Cumberland Council street lighting specification.
 - 16. Lighting column foundations shall be designed in accordance with the manufacturer data sheets for the columns and soil types present
 - 17. The minimum distance for a lighting column to be erected from the kerb face in a service strip shall be 1.0 metres.
 - 18. The developer will be required to pay any energy liability charges with their electricity supplier until the date of formal adoption of the
 - condition, operation and any risk or liability of all the highways electrical equipment on all approved works until the date of formal adoption of the street lighting equipment.
 - 1. Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
 - 2. It should be assumed by the contractor that not all services have been identified during the design period. It is the responsibility of the contractor to ensure that all unidentified services are carefully
 - 3. The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. Should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for
 - with Energy Network Association Technical Specification 43-8, Electricity at Work Regulations 1989, Construction Design and Management (CDM) 2015 & G39/1 and all other relevant Health
 - All works in the vicinity of any overhead cables shall conform to the requirements of Health and Safety Executive, Guidance Note GS6 "Avoidance of danger from overhead power lines"
 - conform to the requirements of Health and Safety Executive, Health and Safety Guidance HGS47 "Avoiding danger from underground services" and any additional requirements specified by the relevant
 - The contractor will be responsible for liaison with the undertakers and for programming the agreed protection and / or diversion works to any statutory undertakers apparatus into the overall works

This lighting design has been produced in accordance with: BS 5489-1:2020, CEN/TR 13201-1:2014 & BS EN 13201-2:2015

Lighting classification: P5 (BS 5489-1:2020, Table A.5)

Minimum average illuminance (Eav): >3.00 lux <4.50 lux Minimum illuminance (Emin): >0.60 lux Lighting Uniformity (Emin/Eav): >0.20 (>20%)

The details provided on this drawing are subject to comments by all the relevant approving authorities or overseeing organisation. No construction works shall take place until technical approval has been obtained by the approving authority or overseeing

It is to be understood that these drawings and the information shown are preliminary only and shall not be used for construction. Should the contractor commence work on site prior to obtaining technical approval, then it is entirely at their own risk and no liability Proposed galvanised heavy duty steel lighting column of 6.0 metre nominal height with a planted base as supplied by Mallatite to Cumberland Council street lighting specification.

Column Reference: 8917 PT

Charge Code:

Luminaire Type:

Mounting Type: Post top mounted at 0° tilt

Lumen Output: 1.87klm

Luminaire Wattage: 15w

Colour Temperature: Warm White (2700k) Luminous Intensity:

Control Gear: DALI enabled driver

Lucy Zodion SS9 5lux (1:1 ratio) Control Type: PECU mounted in 7 pin NEMA socket

42 0015 0000 100

Adaptive NightTune

Thorn Isaro Pro Small 12LED 350mA

Dusk until 21:00: 100% output 2700k 21:00 until 00:00: 50% output 2400k Dimming Profile: 00:00 until 05:00: 50% output 2200k

05:00 until 06:00: 50% output 2400k 06:00 until Dawn: 100% output 2700k

Supply: DNO electrical supply connection DNO approved double pole isolator Primary Isolator:

Secondary Isolator: Tofco F144DP isolator

Cable between cut-out and luminaire Internal Wiring: shall be 1.5mm² flexible 'artic' cable

Perpendicular to kerb facing away Door Orientation: from oncoming vehicles

Private lighting column

UNIT IDENTIFICATION KEY:

LC** Proposed lighting column identification number

ELECTRICAL CONNECTION TYPE: DNO Distribution network operator connection

ISOLUX CONTOUR KEY (AT GROUND LEVEL):

0.20 Isolux contour line

0.60 Isolux contour line 1.00 Isolux contour line

2.00 Isolux contour line

R0 INITIAL DESIGN FOR REVIEW AND COMMENT 13/09/2024 SRH DATE BY REV DESCRIPTION

DALZELL STREET, MOOR ROW SCHEME:

S278 STREET LIGHTING DESIGN DRAWING:

ABCUMBRIA CLIENT: DRAWN: SHD1719 -SHD-HLG-DALZ-DR-EO-Lighting Layout-R0 DRAWING CHECKED: NUMBER: SHEET 1 OF 1 APPROVED: SCALE @ A1 CONTRACT SHD1719 NUMBER: REVISION:

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION